



# **RS6-42 RS8-42/44 RS10-44/55 RS12-42**

**GEHL**

Form No.

**50960015**  
Revision C

December  
2013

## **Telescopic Handlers**

*(Equipped with Interim TIER IV Engine)*

*RS6-42; Beginning with SN 14551*

*RS8-42/44; Beginning with SN 17151*

*RS10-44/55; Beginning with SN 90191*

*RS12-42; Beginning with SN 18151*



# **Parts Manual**



## Introduction

**IMPORTANT:** This parts manual contains parts information for all models of the Gehl RS Series Telescopic Handlers, except for the RS5-19 and the RS6-34 models; please refer to the appropriate parts manuals for RS5-19 and RS6-34 parts listings.

**NOTE:** This parts manual identifies both standard and optional features for these models. Depending on the features of your machine, some of the items identified in the parts lists may, or may not be included with the machine.

Furthermore, be aware that many components (such as transmissions and axles) differ between the various models; be sure to review the parts listing for the correct model before ordering parts.

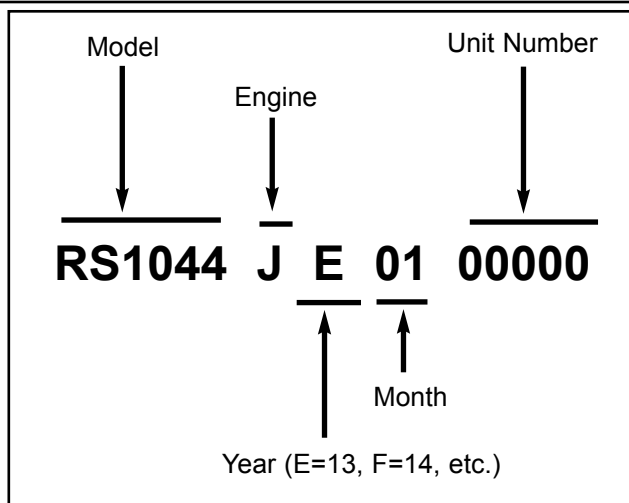
RS6 and RS8 Models Only

RS10 and RS12 Models Only

Page markers (tabs)—as shown to the left—are used in the transmission and axle sections to help identify components specific to each model. Be sure to check the page marker, as well as the page header, to verify the model before ordering parts

When ordering service parts, specify the part number, full description, quantity required, and the unit model and serial number.

## RS Series

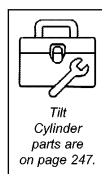


Model and serial numbers for this unit are stamped on a plate located inside the operator's station. The serial number is also stamped on the top front of the frame. The above reference shows the breakdown of the serial number:

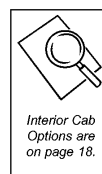
"Right" and "left" are determined from a position standing behind the unit and facing the direction of forward travel.

Gehl Company reserves the right to make changes or improvements in the design or construction of any part of the unit without incurring the obligation to install such changes on any unit previously delivered.

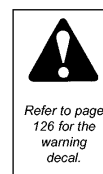
The following icons appear on various pages throughout the manual; they are used to inform, as well as direct you to more information.



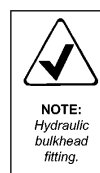
Identifies where additional pages for component parts, seals, and kits can be found.



Identifies where additional information can be found.



Alerts and directs user to investigate more information.



Identifies missing, hidden parts, or adds informational comments.



Seal Kit



Important information to follow



Repair Kit



# Telescopic Handler

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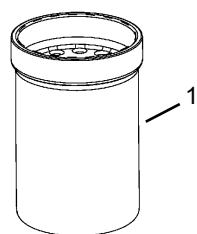
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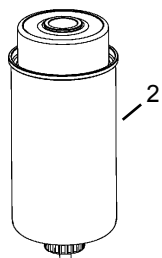
## Maintenance

### *Filters, Belts, and Analysis Kits*

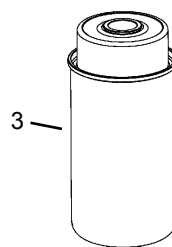
## RS Series



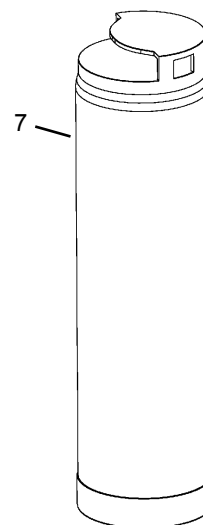
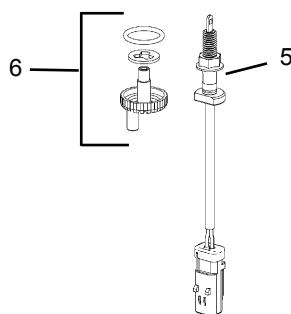
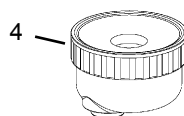
**Engine Oil**



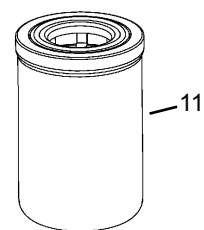
**Fuel**



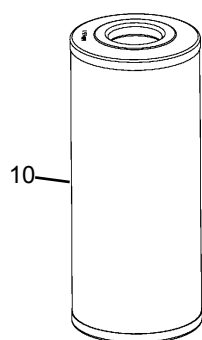
**Fuel**



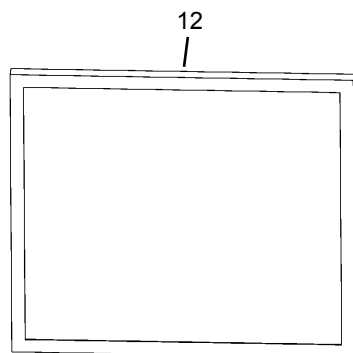
**Secondary Air**



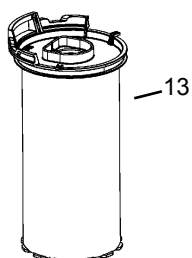
**Transmission**



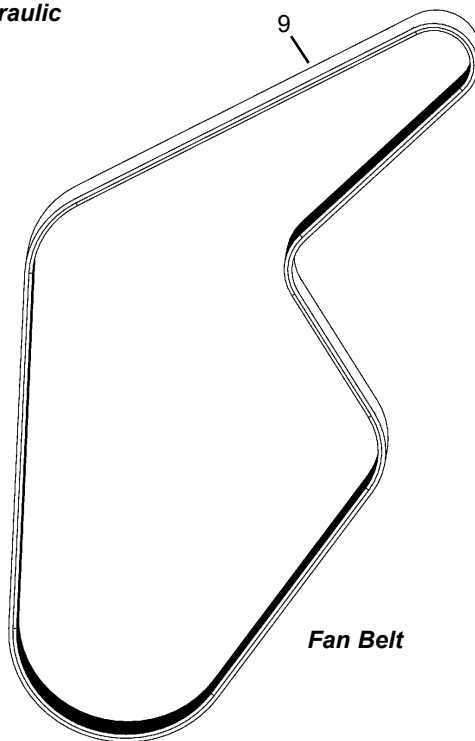
**Hydraulic**



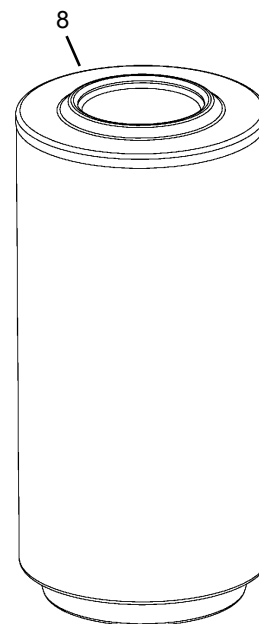
**Cab Air**



**Crankcase Ventilation**



**Fan Belt**



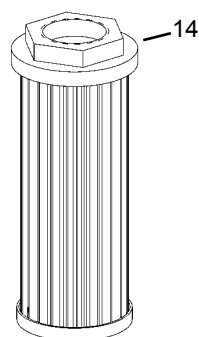
**Primary Air**



# Telescopic Handler

## Maintenance Filters, Belts, and Analysis Kits

| Ref. No.        | Part No. | Description                                     | Qty. Req. | Ref. No.        | Part No. | Description                                                        | Qty. Req. |
|-----------------|----------|-------------------------------------------------|-----------|-----------------|----------|--------------------------------------------------------------------|-----------|
| 01 <sup>a</sup> | 102173   | ENGINE OIL FILTER . . . . .                     | 1         | 10              | L97489   | HYDRAULIC FILTER . . . . .                                         | 1         |
| 02              | 50220173 | FUEL FILTER ( <i>secondary filter</i> ) . . .   | 1         | 11              | L99184   | TRANSMISSION FILTER . . . . .                                      | 1         |
| 03              | 50220174 | FUEL FILTER ( <i>primary filter</i> ) . . . . . | 1         | 12 <sup>b</sup> | 211146   | FILTER, CAB AIR . . . . .                                          | 1         |
| 04              | 105818   | SEDIMENT BOWL . . . . .                         | 1         | 13              | 50220168 | FILTER, CRANKCASE VENT. . . . .                                    | 1         |
|                 |          | ( <i>does not include items 5 or 6</i> )        |           | 14              | L49327   | STRAINER, HYDRAULIC OIL . . . . .                                  | 1         |
| 05              | 50220622 | WATER SENSOR . . . . .                          | 1         |                 |          | ( <i>Located in hydraulic tank -- refer to page 50, item 15.</i> ) |           |
| 06              | 50380272 | DRAIN VALVE KIT . . . . .                       | 1         |                 |          |                                                                    |           |
|                 |          | ( <i>includes o-ring and seal</i> )             |           |                 |          |                                                                    |           |
| 07              | 105071   | SECONDARY AIR FILTER ( <i>inner</i> ) . . .     | 1         | a               |          | Use dust seal P/N 102742 as needed.                                |           |
| 08              | 105070   | PRIMARY AIR FILTER ( <i>outer</i> ) . . . . .   | 1         | b               |          | When equipped with optional air conditioning.                      |           |
| 09              |          | FAN BELT . . . . .                              | 1         |                 |          |                                                                    |           |
|                 | 50220187 | ( <i>Standard - No A/C</i> )                    |           |                 |          |                                                                    |           |
|                 | 50220188 | ( <i>When equipped with A/C option</i> )        |           |                 |          |                                                                    |           |



**Hydraulic Oil Strainer**  
(*located inside hydraulic tank*)

### Analysis Kits\*

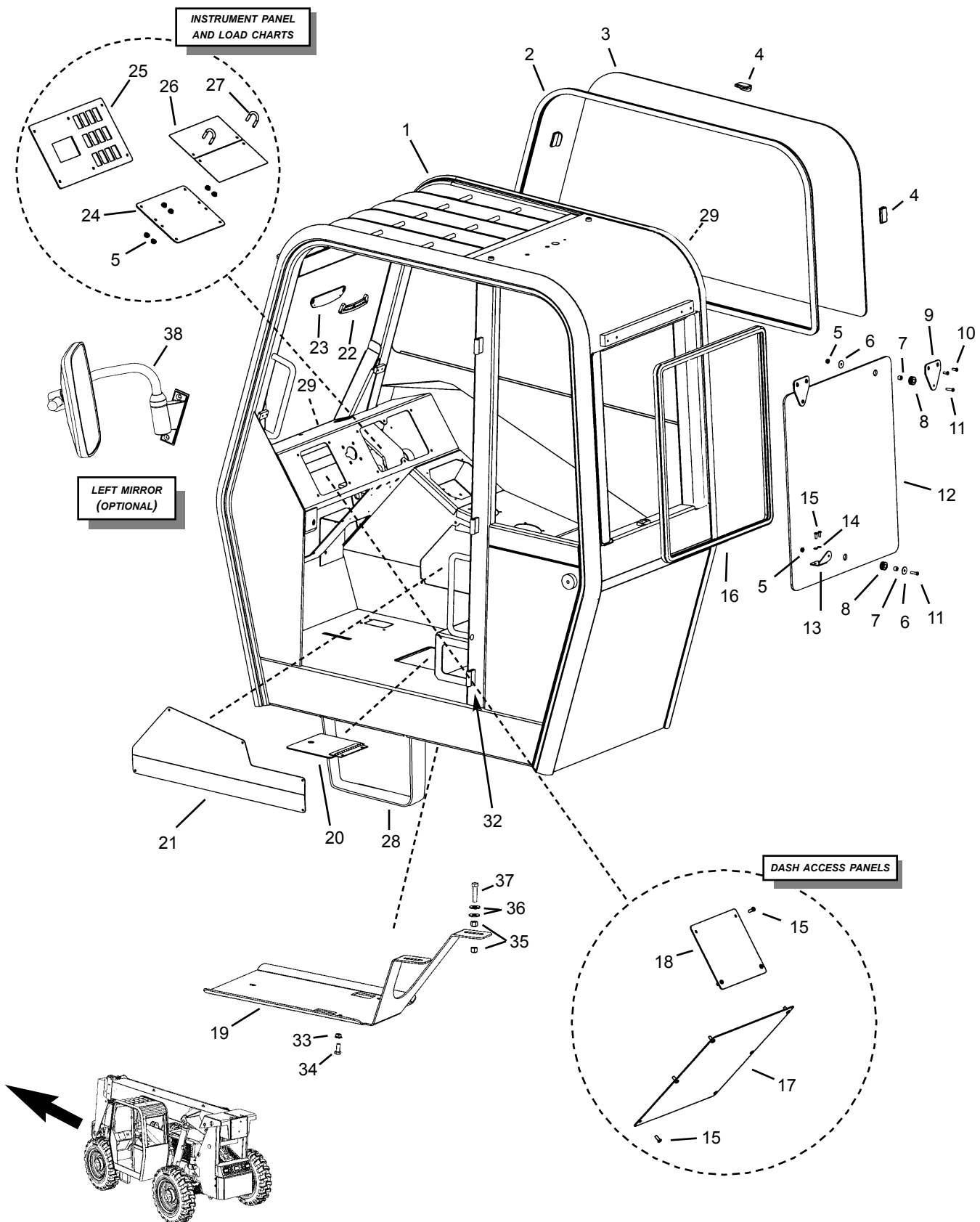
|                  | Qty.                                |
|------------------|-------------------------------------|
| 272806 . . . . . | HYDRAULIC OIL ANALYSIS KITS (10)    |
| 272809 . . . . . | ENGINE OIL ANALYSIS KITS (10)       |
| 272811 . . . . . | BASIC FUEL ANALYSIS KIT (1)         |
| 272812 . . . . . | COOLANT ANALYSIS KITS (10)          |
| 272813 . . . . . | FIELD TEST COOLANT STRIP KIT (1)    |
| 272814 . . . . . | OIL VACUUM PUMP (1)                 |
| 272815 . . . . . | COOLANT VACUUM PUMP (1)             |
| 272816 . . . . . | 1/4" PLASTIC TUBING (100-FOOT ROLL) |

\* For the analysis of fluids and lubricants used in this machine. Contact your Gehl Dealer for more information.



# Cab Standard Cab

## RS Series







## Telescopic Handler

Cab  
Standard Cab

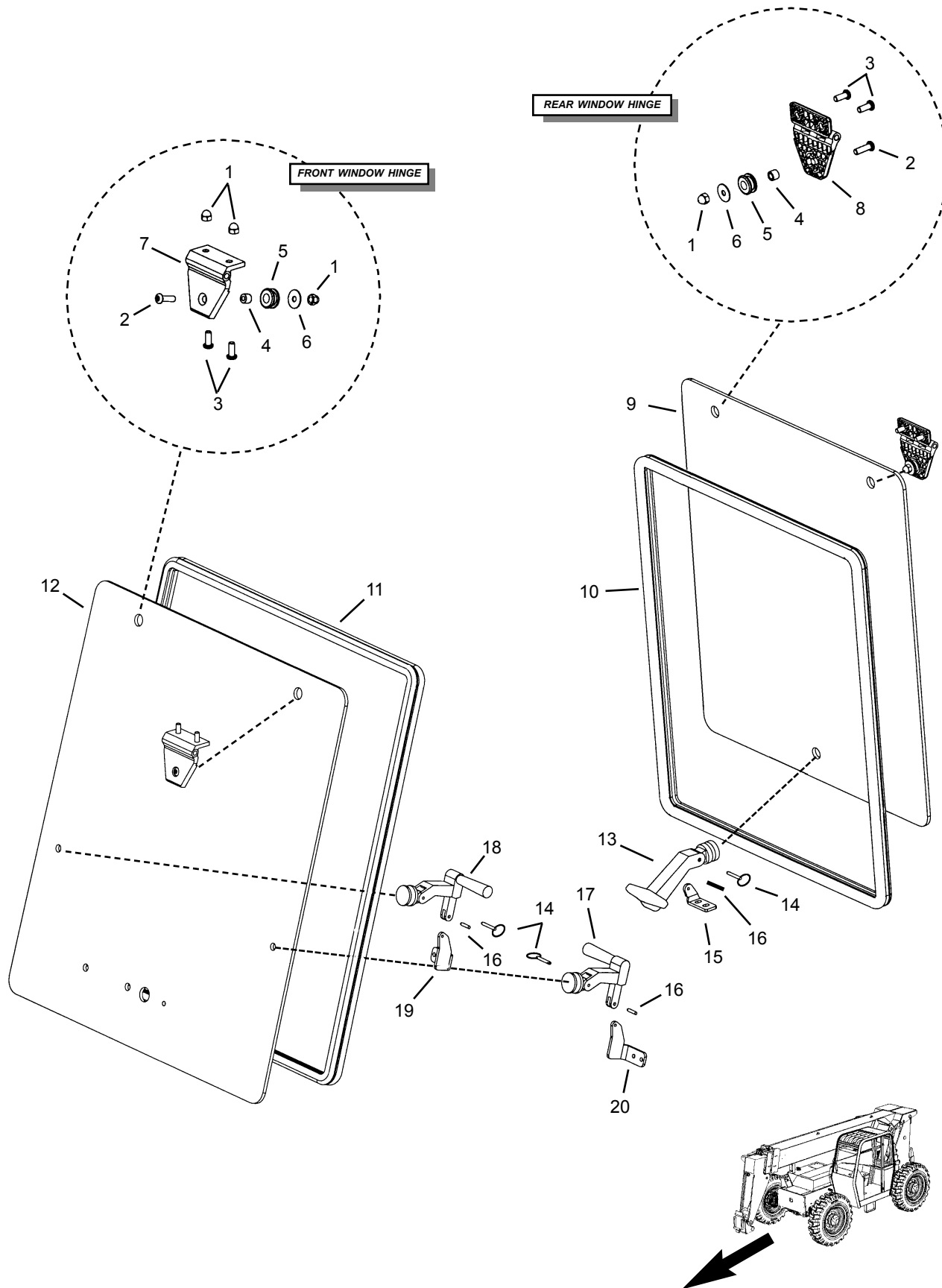
| Ref. No.        | Part No. | Description                                    | Qty. Req. | Ref. No.        | Part No. | Description                                                                                                                                                                                                                                                                                    | Qty. Req. |
|-----------------|----------|------------------------------------------------|-----------|-----------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 01 <sup>d</sup> | 210583   | CAB ( <i>frame work only</i> ) . . . . .       | 1         | 27              | L63887   | 1/4"-20 U-BOLT . . . . .                                                                                                                                                                                                                                                                       | 1         |
| 02              | 102707   | BULB SEAL, RIGHT WINDOW . . . . .              | 1         | 28              | 102491   | ACCESS STEP ( <i>weld on</i> ) . . . . .                                                                                                                                                                                                                                                       | 1         |
| 03              | 102683   | GLASS, RIGHT HAND . . . . .                    | 1         | 29              | 103188   | GROMMET, 5/8" . . . . .                                                                                                                                                                                                                                                                        | AR        |
|                 | 103674   | SCREEN, RIGHT HAND ( <i>option</i> ) . . . . . |           | 32              | L61067   | HINGE TUBE ( <i>weld on</i> ) . . . . .                                                                                                                                                                                                                                                        | 3         |
| 04              | L500057  | CLIP, WINDOW . . . . .                         | 3         |                 |          | ( <i>when equipped with door option</i> ) . . . . .                                                                                                                                                                                                                                            |           |
|                 | L500055  | SCREW, FLANGE . . . . .                        | 6         | 33              | L50056   | 5/16" FLANGE LOCK NUT . . . . .                                                                                                                                                                                                                                                                | 2         |
| 05              | L50051   | 1/4"-20 WHIZ LOCK NUT . . . . .                | AR        | 34              | 650486   | 5/16"X3/4" BOLT . . . . .                                                                                                                                                                                                                                                                      | 2         |
| 06              | L500022  | WASHER, FLAT ( <i>black</i> ) . . . . .        | 3         | 35              | L520005  | 3/8" NYLON LOCK NUT . . . . .                                                                                                                                                                                                                                                                  | 4         |
| 07              | L500020  | BUSHING, NYLON . . . . .                       | 3         | 36              | 654006   | 3/8" FLAT WASHER . . . . .                                                                                                                                                                                                                                                                     | 4         |
| 08              | L500021  | GROMMET, 1/2"ID X 1/4"GROOVE . . . . .         | 3         | 37              | 650533   | 3/8"X1-1/2" BOLT . . . . .                                                                                                                                                                                                                                                                     | 2         |
| 09              | 102880   | MOUNT, REAR GLASS UPPER . . . . .              | 2         | 38 <sup>e</sup> | 219274   | MIRROR ( <i>optional</i> ) . . . . .                                                                                                                                                                                                                                                           | 1         |
| 10              | L52025   | 5/16"-18X3/4" BUTT. HD BOLT . . . . .          | 4         |                 | L50202   | 1/4"-20x5/8" BUTT. HD. BOLT . . . . .                                                                                                                                                                                                                                                          | AR        |
| 11              | L52024   | 1/4"-20X1" BUTT. HD BOLT . . . . .             | 3         |                 | L50051   | 1/4"-20 FLANGE LOCK NUT . . . . .                                                                                                                                                                                                                                                              | AR        |
| 12              | 102684   | GLASS, REAR . . . . .                          | 1         |                 |          | <b>-- ITEMS NOT SHOWN--</b>                                                                                                                                                                                                                                                                    |           |
| 13              | 102881   | MOUNT, REAR GLASS LOWER . . . . .              | 1         | --              | 104688   | PLUG, BLACK 5/8" . . . . .                                                                                                                                                                                                                                                                     | AR        |
| 14              | L50139   | 1/4" LOCK WASHER . . . . .                     | 2         | --a             | L63813   | HOLE PLUG, 2-1/2" DIA . . . . .                                                                                                                                                                                                                                                                | 1         |
| 15              | L50202   | 1/4"-20X5/8" BUTT. HD BOLT . . . . .           | AR        |                 |          | ( <i>defroster hole in dash</i> ) . . . . .                                                                                                                                                                                                                                                    |           |
| 16              | 102708   | BULB SEAL, REAR WINDOW . . . . .               | 1         | --              | L54002   | TREAD STRIP, 6" WIDE . . . . .                                                                                                                                                                                                                                                                 | 4 feet    |
| 17 <sup>a</sup> | 102728   | PANEL, HEATER . . . . .                        | 1         |                 |          |                                                                                                                                                                                                                                                                                                |           |
| 18 <sup>a</sup> | 102727   | PANEL, DASH COVER . . . . .                    | 1         | a               |          | Used when not equipped with a heater.                                                                                                                                                                                                                                                          |           |
| 19              | 210451   | SKID PLATE, BOTTOM . . . . .                   | 1         | b               |          | Refer to "Instrument Panel and Switches" section for information regarding switches and gauges.                                                                                                                                                                                                |           |
| 20              | 102778   | WLDMNT, BRAKE CYL COVER . . . . .              | 1         | c               |          | Refer to decal section for load chart decals.                                                                                                                                                                                                                                                  |           |
| 21              | 102657   | COVER, HYD. CONTROLLERS . . . . .              | 1         | d               |          | Cab does not include windows or a door. If reusing the windows and the door from current cab, or if ordering a front window for the new cab, it will be necessary to order replacement front window hold-open brackets P/N 104973 and P/N 104974. Refer to the next page for more information. |           |
|                 | 101550   | 1/4"-20X3/4" SCREW, PHILP HD. . . . .          | 5         | e               |          | If the cab is an earlier model, it might not have a bracket to mount the mirror. There is, however, a kit available that includes a weld-on bracket and all items listed under item #38; the kit number is 50860013.                                                                           |           |
| 22              | L66011   | INDICATOR/FRAME LEVEL . . . . .                | 1         |                 |          |                                                                                                                                                                                                                                                                                                |           |
|                 | L50417   | #8-32X1" SCREW . . . . .                       | 2         |                 |          |                                                                                                                                                                                                                                                                                                |           |
| 23              | L69297   | PLATE, INCLMT MOUNT . . . . .                  | 1         |                 |          |                                                                                                                                                                                                                                                                                                |           |
|                 | L52025   | 5/16"-18X3/4" BUTT. HD BOLT . . . . .          | 4         |                 |          |                                                                                                                                                                                                                                                                                                |           |
| 24              | 102692   | COVER, FUSE PANEL . . . . .                    | 1         |                 |          |                                                                                                                                                                                                                                                                                                |           |
|                 | 101550   | 1/4"-20X3/4" SCREW, PHILP HD. . . . .          | 4         |                 |          |                                                                                                                                                                                                                                                                                                |           |
| 25              | Note b   | PANEL, DASH . . . . .                          | 1         |                 |          |                                                                                                                                                                                                                                                                                                |           |
| 26 <sup>c</sup> | L63634   | LOAD CHART PLATE ( <i>metal</i> ) . . . . .    | 2         |                 |          |                                                                                                                                                                                                                                                                                                |           |
|                 | L69402   | LOAD CHART PLATE ( <i>plastic</i> ) . . . . .  | AR        |                 |          |                                                                                                                                                                                                                                                                                                |           |



## Cab

### Front and Rear Window - Enclosed Cab

## RS Series





## Cab

### ***Front and Rear Window - Enclosed Cab***

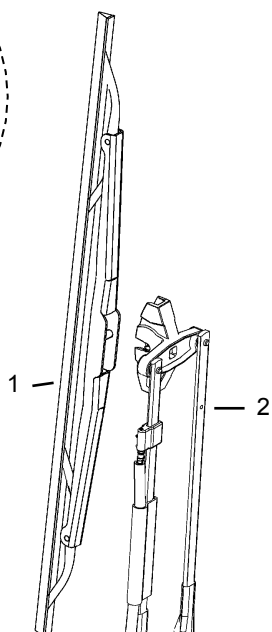
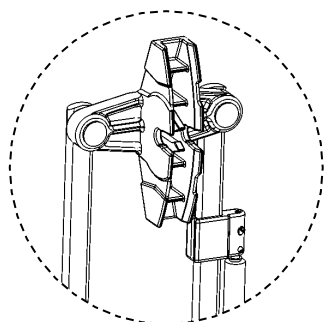
| Ref. No. | Part No. | Description                               | Qty. Req. | Ref. No. | Part No. | Description                               | Qty. Req. |
|----------|----------|-------------------------------------------|-----------|----------|----------|-------------------------------------------|-----------|
| 01       | L500038  | 5/16"-18 ACORN NUT . . . . .              | AR        | 14       | L500025  | PIN, QUICK DETACH . . . . .               | 4         |
| 02       | 651639   | 5/16"-18X1" BUTTN HD BOLT . . . .         | 4         | 15       | 104846   | MOUNT, REAR WINDOW LATCH . .              | 1         |
| 03       | 651640   | 5/16"-18X3/4" BUTTN HD BOLT . . .         | 8         | 16       | L500019  | PIN, ROLL - 3/16"x1/2" . . . . .          | 3         |
| 04       | L500042  | BUSHING, STEEL . . . . .                  | 4         | 17       | L500028  | HOLD OPEN, L-STYLE . . . . .              | 1         |
| 05       | L500021  | GROMMET, 1/2"IDX1/4"GROOVE .              | 6         | 18       | L500027  | HOLD OPEN, L-STYLE . . . . .              | 1         |
| 06       | 651641   | 5/16" FLAT WASHER (BLACK) . . . .         | 4         | 19       | 104974   | MOUNT, HOLD-OPEN ( <i>right</i> ) . . . . | 1         |
| 07       | L500111  | HINGE, FRONT WINDOW . . . . .             | 2         | 20       | 104973   | MOUNT, HOLD-OPEN ( <i>left</i> ) . . . .  | 1         |
| 08       | L500024  | HINGE, PLASTIC ( <i>rear window</i> ) . . | 1         |          |          |                                           |           |
| 09       | 102684   | GLASS, REAR . . . . .                     | 1         |          |          |                                           |           |
| 10       | 102708   | BULB SEAL, REAR GLASS . . . . .           | 1         |          |          |                                           |           |
| 11       | 102706   | BULB SEAL, FRONT GLASS . . . . .          | 1         |          |          |                                           |           |
| 12       | 102682   | GLASS, FRONT . . . . .                    | 1         | --       | 650863   | 1/4" FLAT WASHER . . . . .                | AR        |
| 13       | 101727   | HOLD-OPEN, T-STYLE . . . . .              | 1         | --       | 654002   | 1/4" LOCK WASHER . . . . .                | AR        |
|          |          |                                           |           | --       | L50202   | 1/4"-20X5/8" BUTTN HD BOLT . .            | AR        |



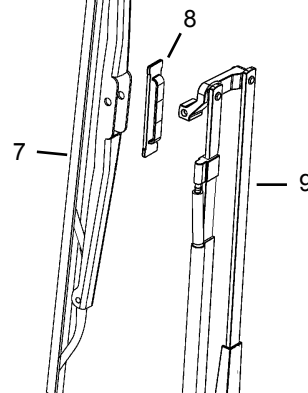
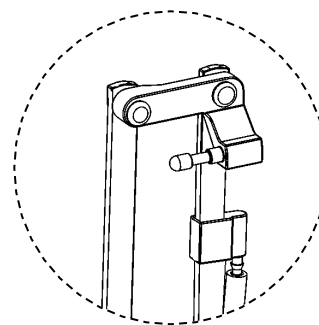
## Cab

## RS Series

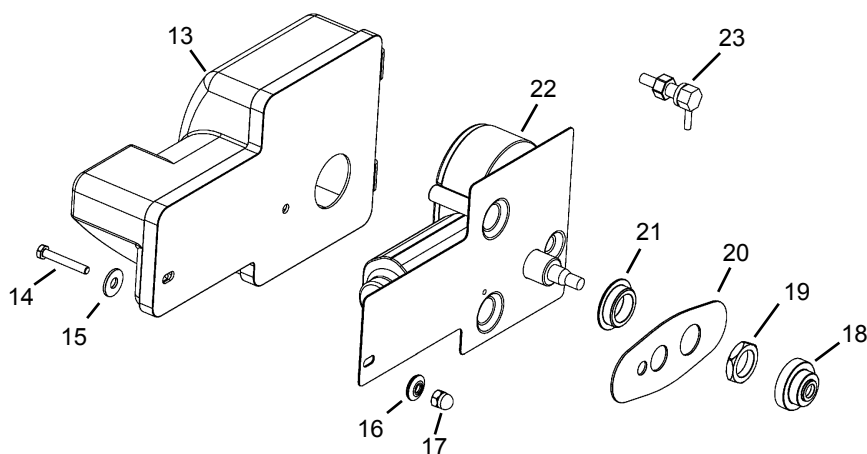
### Wipers — Front and Top (with Enclosed Cab)



**Late-Style  
Wiper**



**Early-Style  
Wiper**



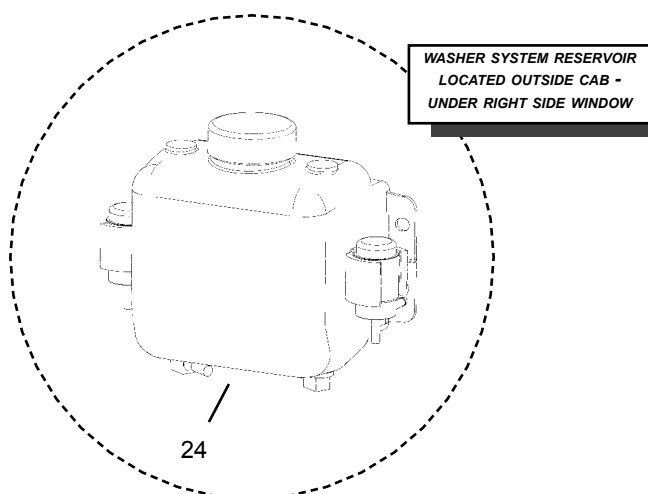


# Telescopic Handler

# Cab

## Wipers—Front and Top (with Enclosed Cab)

| Ref. No.        | Part No. | Description                         | Qty. Req. | Ref. No. | Part No. | Description                                                                                                                                                                            | Qty. Req. |
|-----------------|----------|-------------------------------------|-----------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 01              | 50380577 | WIPER BLADE, 16" . . . . .          | 1         | 22       | L500695  | WIPER MOTOR, TRICO . . . . .                                                                                                                                                           | 1         |
| 02              |          | WIPER ARM, PANTOGRAPH . . . . .     | 1         | 23       | L500099  | ADAPTER/WET ARM . . . . .                                                                                                                                                              | 1         |
|                 | 50380576 | Front Window — 16" . . . . .        |           | 24       | 101495   | BOTTLE, DUAL -PUMP WASHER . . . . .                                                                                                                                                    | 1         |
|                 | 50380682 | Top Window — 19" . . . . .          |           |          |          |                                                                                                                                                                                        |           |
| 03              | 50380579 | PLATE, PANTO ARM MOUNT . . . . .    | 1         |          |          | <b>-- ITEMS NOT SHOWN --</b>                                                                                                                                                           |           |
| 04              | 50380583 | PIN, PANTO ARM MOUNT . . . . .      | 1         |          |          | <b>(Windshield Wiper Harness)</b>                                                                                                                                                      |           |
| 05              | L500706  | M5, ACORN NUT . . . . .             | 1         | --       | 103179   | HARNESS, TOP WIPER . . . . .                                                                                                                                                           | 1         |
| 06              | L500700  | M8, ACORN NUT . . . . .             | 1         | --       | 103180   | HARNESS, FRONT WIPER . . . . .                                                                                                                                                         | 1         |
| 07              | 102913   | WIPER BLADE, 16" . . . . .          | 1         |          |          | <b>(Windshield Washer System)</b>                                                                                                                                                      |           |
| 08              | L500707  | ADAPTER, PIN LOCK . . . . .         | 1         |          |          |                                                                                                                                                                                        |           |
| 09              |          | WIPER ARM, PANTOGRAPH . . . . .     | 1         | --       | 102925   | HARNESS, WASHER BOTTLE . . . . .                                                                                                                                                       | 1         |
|                 | NSS      | Front window—see note a . . . . .   |           | --       | 103013   | TUBING, WASHER (15-1/2') . . . . .                                                                                                                                                     | 1         |
|                 | NSS      | Top window—see note b . . . . .     |           |          |          |                                                                                                                                                                                        |           |
| 10              | L500719  | PANTO ADAPTER PLATE . . . . .       | 1         |          |          |                                                                                                                                                                                        |           |
| 11              | 101717   | WASHER, #10 WEATHERTITE . . . . .   | 1         | a        |          | The early style front wiper arm is no longer available; it will be necessary to order part number 50380585 Wiper Arm Kit, which contains items 1-4, but not PN 50380682 top wiper arm. |           |
| 12              | L500711  | SCREW, M5 16mm . . . . .            | 1         |          |          |                                                                                                                                                                                        |           |
| 13              | L500696  | COVER WIPER MOTOR . . . . .         | 1         |          |          |                                                                                                                                                                                        |           |
| 14              | L500718  | BOLT / 10-24x1.25 HEX GR5 . . . . . | 1         |          |          |                                                                                                                                                                                        |           |
| 15              | L500001  | WASHER/BLK NYLON . . . . .          | 1         |          |          |                                                                                                                                                                                        |           |
| 16              | 139170   | WASHER, #10 WEATHERTITE . . . . .   | 2         | b        |          | The early style top wiper arm is no longer available; it will be necessary to order part number 50380683 Wiper Arm Kit, which contains items 1-4, but not PN 50380576 front wiper arm. |           |
| 17              | L500004  | NUT/ACORN #10-24 BLK . . . . .      | 1         |          |          |                                                                                                                                                                                        |           |
| 18              | L500709  | RAIN SHIELD . . . . .               | 1         |          |          |                                                                                                                                                                                        |           |
| 19              | L500697  | M18, NUT . . . . .                  | 1         |          |          |                                                                                                                                                                                        |           |
| 20              | L500701  | GASKET, PANTO ADAPTER . . . . .     | 1         |          |          |                                                                                                                                                                                        |           |
| 21 <sup>c</sup> | L500708  | TOWER SEAL, TRICO WIPER . . . . .   | 1         | c        |          | Not used on top wiper installation.                                                                                                                                                    |           |

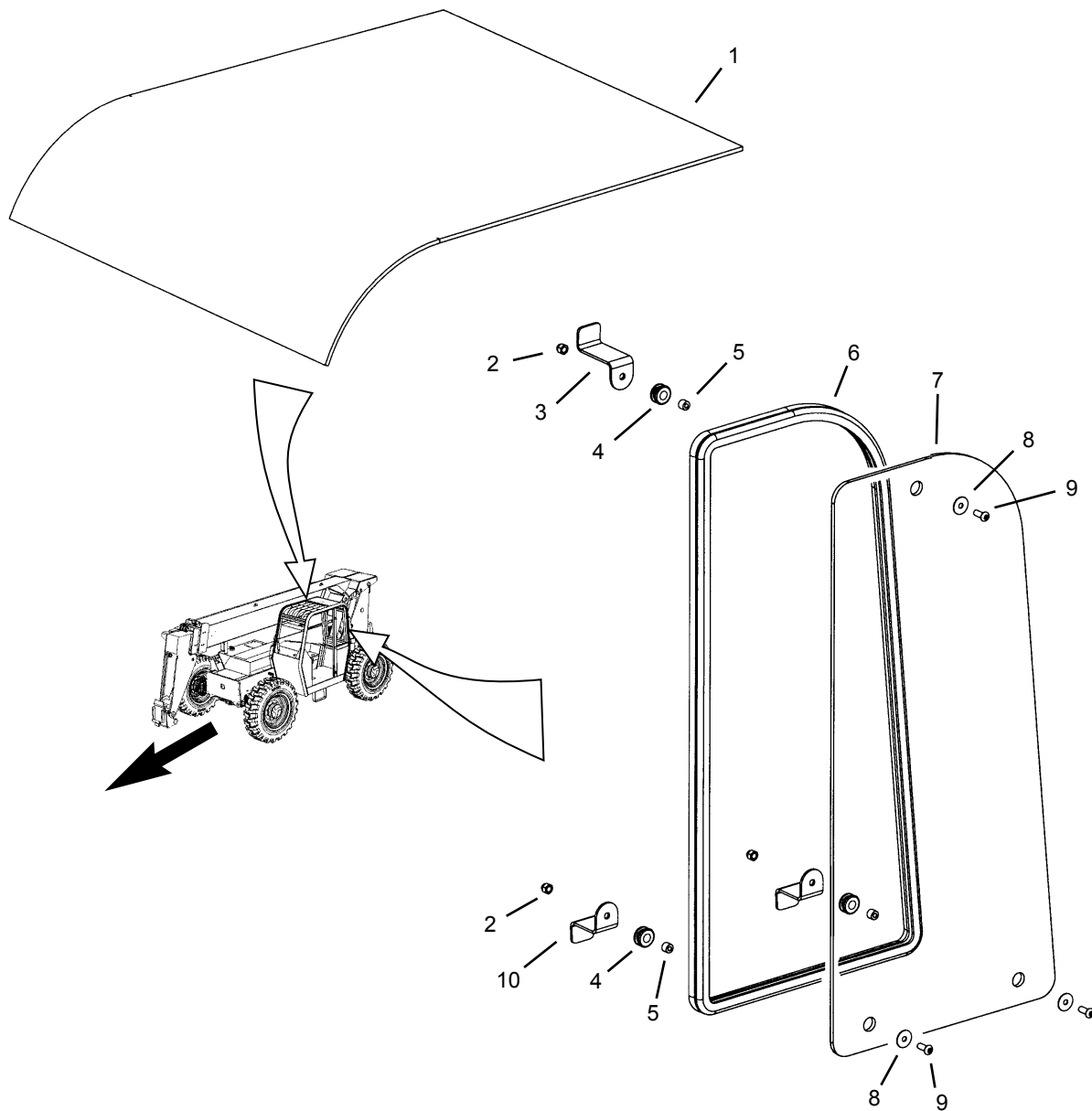




## Cab

## RS Series

### Top and Left Window - Enclosed Cab





Telescopic Handler

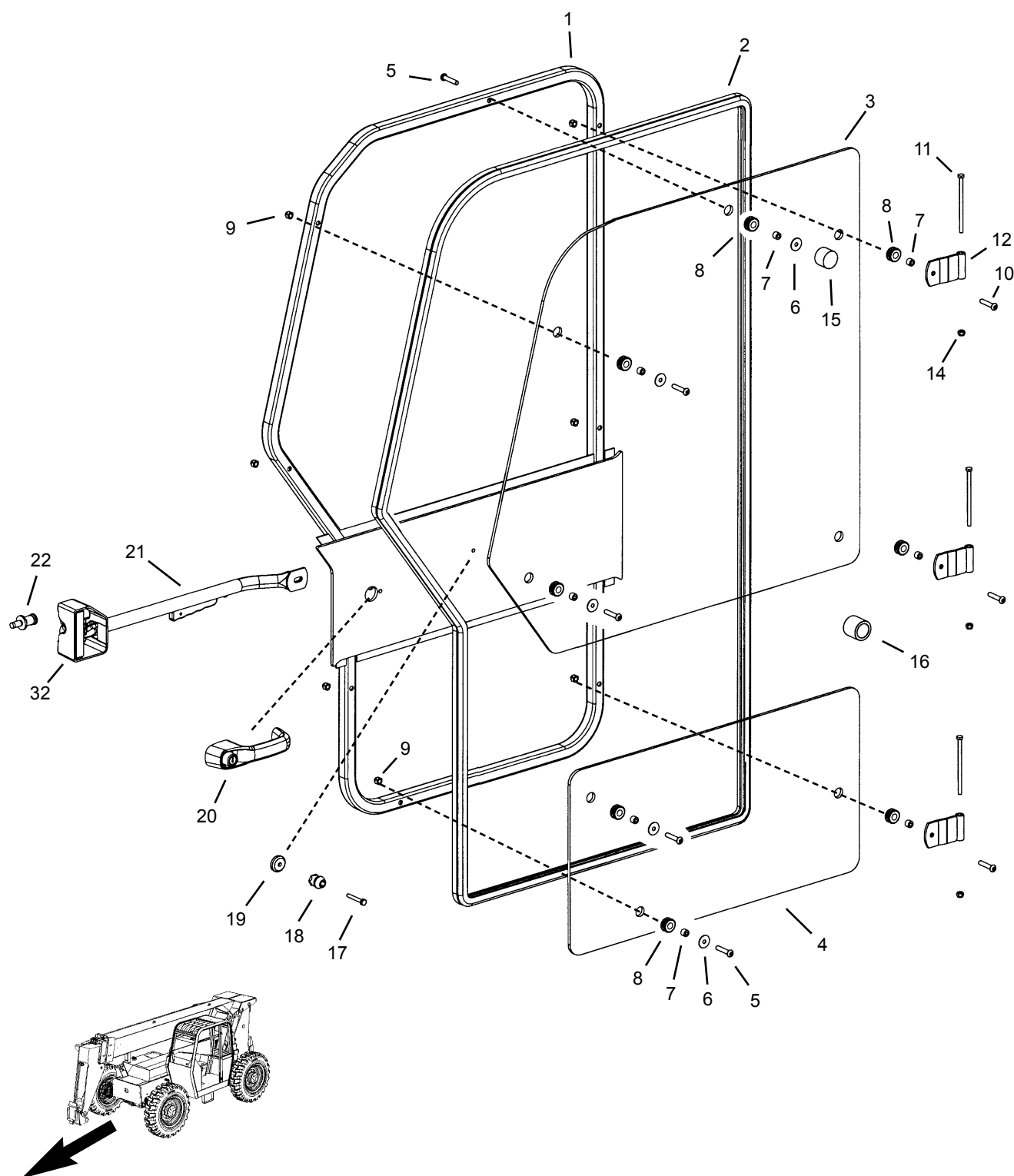
Cab

Top and Left Window - Enclosed Cab

| Ref. No.        | Part No. | Description                      | Qty. Req. | Ref. No.                                                               | Part No.                                                                                                                               | Description                       | Qty. Req. |
|-----------------|----------|----------------------------------|-----------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------|
| 01 <sup>a</sup> | 102686   | GLASS, TOP . . . . .             | 1         | 09                                                                     | 651639                                                                                                                                 | 5/16"-18X1" BUTTN HD BOLT . . . . | 4         |
| 02              | L500038  | 5/16"-18 ACORN NUT . . . . .     | AR        | 10                                                                     | 102712                                                                                                                                 | WINDOW MOUNT, LOWER . . . . .     | 2         |
| 03              | 102711   | WINDOW MOUNT, UPPER. . . . .     | 1         | <b>-- ITEMS NOT SHOWN --</b>                                           |                                                                                                                                        |                                   |           |
| 04              | L500021  | GROMMET, 1/2"IDX1/4"GROOVE .     | 3         |                                                                        |                                                                                                                                        |                                   |           |
| 05              | L500042  | BUSHING, STEEL . . . . .         | 4         | --b                                                                    | 105149                                                                                                                                 | TOP GLASS FILLER. . . . .         | 1         |
| 06              | 102709   | BULB SEAL, LEFT GLASS. . . . .   | 1         | <i>a      Use P/N L500607 adhesive kit to attach top glass to cab.</i> |                                                                                                                                        |                                   |           |
| 07              | 102685   | GLASS, LEFT REAR. . . . .        | 1         |                                                                        |                                                                                                                                        |                                   |           |
| 08              | 651641   | 5/16" FLAT WASHER (BLACK). . . . | 4         |                                                                        |                                                                                                                                        |                                   |           |
|                 |          |                                  |           | <i>b</i>                                                               | <i>Used to reduce gap between cab and top glass at front top of the cab; use adhesive L500607 to secure to cab and seal top glass.</i> |                                   |           |



## RS Series





## Telescopic Handler

## Cab

### Door - Enclosed Cab

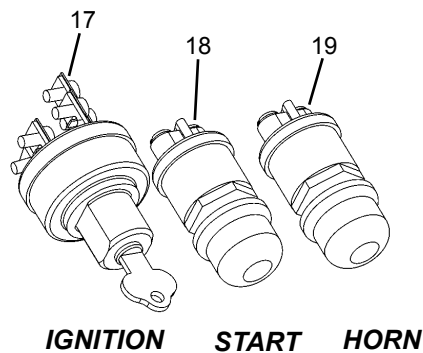
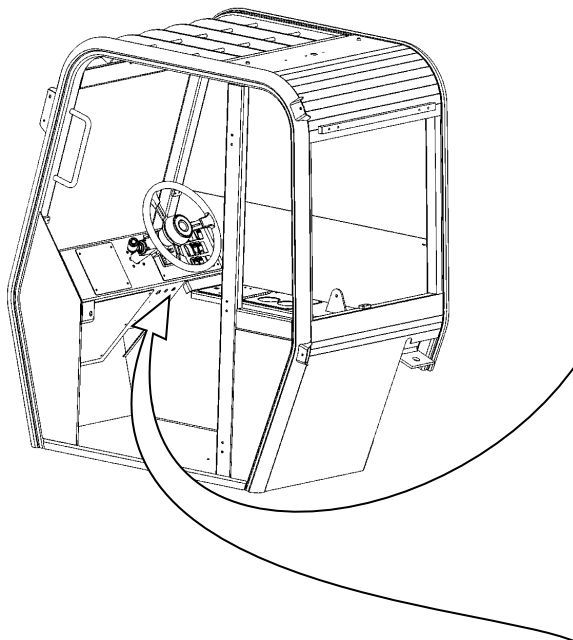
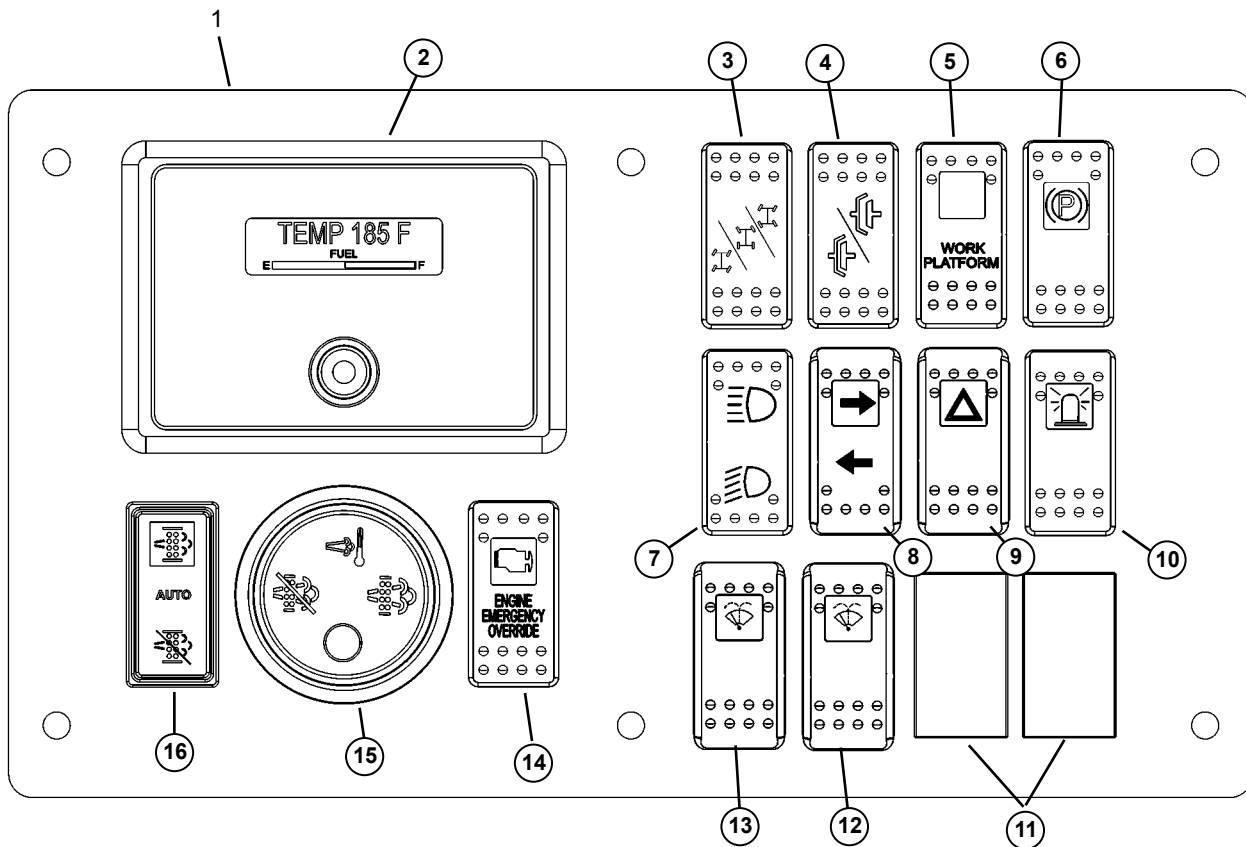
| Ref. No. | Part No. | Description                                                                    | Qty. Req. | Ref. No. | Part No. | Description                                                                | Qty. Req. |
|----------|----------|--------------------------------------------------------------------------------|-----------|----------|----------|----------------------------------------------------------------------------|-----------|
| --       | 103014   | CAB DOOR . . . . . 1<br><i>(includes items 1-10, 12 and 15)</i>                | 1         | 17       | 650588   | 1/4"-20x1-1/2" BOLT . . . . . 1                                            | 1         |
| 01       | 102874   | WELDMENT, CAB DOOR FRAME . 1                                                   | 1         | 18       | NSS      | HOLD OPEN/DOOR STUD. . . . . 1<br><i>(included with item #16 as a set)</i> | 1         |
| 02       | 102705   | BULB SEAL, DOOR FRAME . . . . 1                                                | 1         | 19       | 101719   | GLASS MOUNT . . . . . 1                                                    | 1         |
| 03       | 102680   | GLASS, UPPER DOOR . . . . . 1                                                  | 1         | 20       | 102948   | HANDLE, EXT. DOOR LOCKING . . 1                                            | 1         |
| 04       | 102681   | GLASS, LOWER DOOR . . . . . 1                                                  | 1         |          | 101792   | KEY ONLY . . . . . 1                                                       | 1         |
| 05       | 651638   | 5/16"-18X1-13/4" BUTTN HD BOLT 5                                               | 5         | 21       | 102886   | LATCH RELEASE, INTERIOR . . . . 1                                          | 1         |
| 06       | 651641   | 5/16" FLAT WASHER (BLACK) . . . 5                                              | 5         |          | 651635   | 1/4-20X1-1/4" FLAT HD SCREW . . 2                                          | 2         |
| 07       | L500042  | BUSHING, STEEL . . . . . 8                                                     | 8         |          | L50202   | 1/4-20X5/8" BUTTN HD BOLT . . . 1                                          | 1         |
| 08       | L500021  | GROMMET, 1/2"IDX1/4"GROOVE . 8                                                 | 8         |          | 651636   | M6-1X12 8.8 BOLT. . . . . 2                                                | 2         |
| 09       | L500038  | 5/16"-18 ACORN NUT (BLACK) . . 8                                               | 8         |          | L500022  | FLAT WASHER (BLACK) . . . . . 1                                            | 1         |
| 10       | 651643   | 5/16"-18X2" BUTTN HD BOLT . . . 3                                              | 3         |          | L520003  | 1/4"-20 NYLON INSERT NUT . . . . 2                                         | 2         |
| 11       | 650730   | 3/8"-16X5" BOLT . . . . . 3                                                    | 3         |          | L70069   | 1/2" HOLE PLUG . . . . . 2                                                 | 2         |
| 12       | 102901   | WELDMENT, DOOR HINGE . . . . 3                                                 | 3         | 22       | 101436   | STRIKER . . . . . 1                                                        | 1         |
| 14       | 067847   | 3/8"-16 NYLON INSERT NUT . . . . 3                                             | 3         |          | 654028   | 7/16" LOCK WASHER . . . . . 1                                              | 1         |
| 15       | 102928   | BUMPER, DOOR . . . . . 1                                                       | 1         |          | 654046   | 7/16" FLAT WASHER . . . . . 1                                              | 1         |
| 16       | L500036  | HOLD OPEN/DOOR (SET) . . . . . 1<br><i>(includes item #18) [mounts to cab]</i> | 1         |          | L50979   | 7/16"-14 NUT . . . . . 1                                                   | 1         |
|          |          |                                                                                |           | 32       | 101746   | COVER <i>(included with item #21)</i> . . . 1                              | 1         |



## Cab

## RS Series

### Instrument Panel and Switches





## Telescopic Handler

## Cab

### Instrument Panel and Switches

| Ref. No. | Part No. | Description                                                               | Qty. Req. | Ref. No. | Part No. | Description                                               | Qty. Req. |
|----------|----------|---------------------------------------------------------------------------|-----------|----------|----------|-----------------------------------------------------------|-----------|
| 01       | 50380306 | PANEL, DASH . . . . . 1<br><i>(does not include switches or display)</i>  |           | 12       | L71076   | SWITCH, WIPER/WASHER . . . . . 1<br><i>(top window)</i>   |           |
| 02       | 210927   | DISPLAY, CAN & INSTRUMENTS . 1                                            |           | 13       | L71076   | SWITCH, WIPER/WASHER . . . . . 1<br><i>(front window)</i> |           |
| 03       | L71075   | SWITCH, STEER MODE . . . . . 1                                            |           | 14       | 101278   | SWITCH, ENGINE FAULT . . . . . 1                          |           |
| 04       | L71086   | SWITCH, CLUTCH CUT-OUT . . . . 1                                          |           | 15       | 50380243 | INDICATOR, DPF STATUS . . . . . 1                         |           |
| 05       | L71691   | SWITCH, WORK PLATFORM . . . . 1                                           |           | 16       | 50380314 | SWITCH, DPF CONTROL . . . . . 1                           |           |
| 06       | L71074   | SWITCH, PARK BRAKE . . . . . 1                                            |           | 17       | 089069   | SWITCH, IGNITION w/KEY . . . . . 1                        |           |
| 07       | L71082   | SWITCH, LIGHTS . . . . . 1                                                |           |          | 089070   | KEY ONLY (2 keys) . . . . . 1                             |           |
| 08       | L71084   | SWITCH, TURN SIGNALS . . . . . 1                                          |           | 18       | L41848   | SWITCH, PUSH-BUTTON <i>(starter)</i> . 1                  |           |
| 09       | L71077   | SWITCH, HAZARD LIGHTS . . . . . 1                                         |           | 19       | L41848   | SWITCH, PUSH-BUTTON <i>(horn)</i> . . 1                   |           |
| 10       | L71083   | SWITCH, STROBE . . . . . 1                                                |           |          |          |                                                           |           |
| 11       | L71088   | HOLE PLUG, SWITCH . . . . . AR<br><i>(used to plug empty switch hole)</i> |           |          |          |                                                           |           |



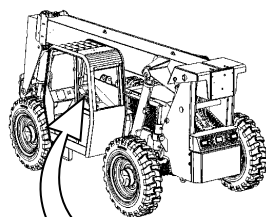
**NOTE:** Switches shown in the Illustration or listed on this page are for reference purposes only—your machine may be configured differently than shown here.



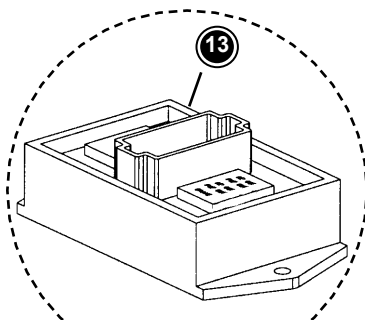
## Cab

## RS Series

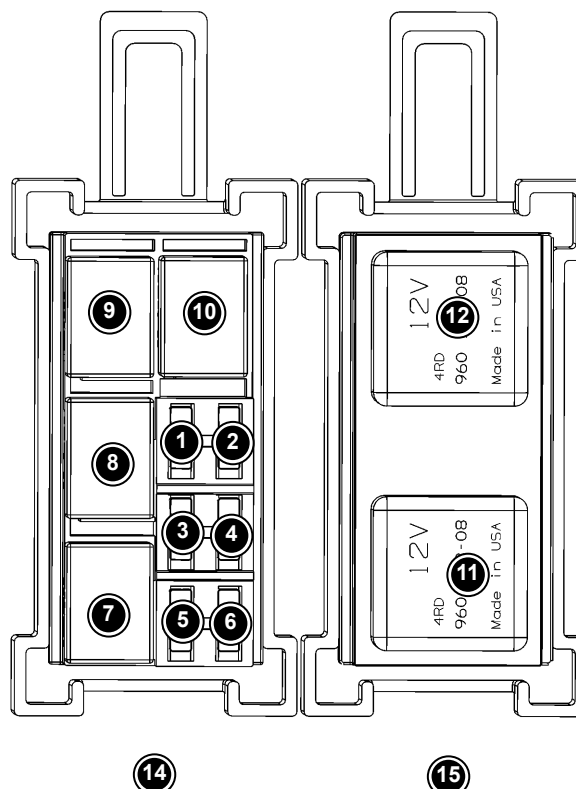
### Fuses, Relays, and Wire Harnesses



(Fuses, relays, and transmission shift module are located inside the cab under the load chart panel on the dash.)



**Shift Module**  
(located next to the fuses and relays)



| Ref. | Part No. | Description         | Function/Comments                                            |
|------|----------|---------------------|--------------------------------------------------------------|
| 01   | 103099   | MINI FUSE, 15 AMP   | (BATTERY) IGNITION SWITCH, HORN, BRAKE LIGHT, CLUTCH CUT-OUT |
| 02   | 104769   | MINI FUSE, 20 AMP   | (IGNITION) TRANSMISSION, PARK BRAKE, PWP, STEER SELECT       |
| 03   | 103099   | MINI FUSE, 15 AMP   | (IGNITION) LIGHTS, OUTRIGGERS                                |
| 04   | 103221   | MINI FUSE, 25 AMP   | (IGNITION) HEATER, CAN DISPLAY                               |
| 05   | 103221   | MINI FUSE, 25 AMP   | (IGNITION) TOP WIPER                                         |
| 06   | 103221   | MINI FUSE, 25 AMP   | (IGNITION) FRONT WIPER                                       |
| 07   | 103100   | MICRO RELAY, 20 AMP | TOP WIPER                                                    |
| 08   | 103100   | MICRO RELAY, 20 AMP | LIGHTS                                                       |
| 09   | 103100   | MICRO RELAY, 20 AMP | PARK BRAKE                                                   |
| 10   | 103100   | MICRO RELAY, 20 AMP | FRONT WIPER                                                  |
| 11   | L70075   | CHANGE-OVER RELAY   | IGNITION                                                     |
| 12   | L70075   | CHANGE-OVER RELAY   | IGNITION                                                     |
| 13   | 101877   | MODULE, SHIFTER     |                                                              |

#### FUSE BOX AND RELAY BOX COVERS—(NOT SHOWN)

|    |          |                          |
|----|----------|--------------------------|
| 14 | 50380751 | FUSE & MICRO RELAY COVER |
| 15 | 272648   | RELAY BOX COVER          |

#### MAIN WIRE HARNESSES—(NOT SHOWN)

|    |          |                                                                               |
|----|----------|-------------------------------------------------------------------------------|
| -- | 50380141 | WIRE HARNESS, FRAME                                                           |
| -- | 210704   | WIRE HARNESS, CANOPY                                                          |
| -- | 50380149 | WIRE HARNESS, IT4 - ECU INTERFACE/ENGINE                                      |
| -- | 50380315 | WIRE HARNESS, FUEL FILTERS (engine) (14" long)                                |
| -- | 50380463 | WIRE HARNESS, FUEL FILTERS (engine) (6" long)                                 |
| -- | 102572   | WIRE HARNESS, LIGHT PACKAGE (option) - Refer to page 23 for more information. |

**NOTE:** For additional wire harnesses, refer to their relative location in this parts manual (e.g., Boom section for boom lights).

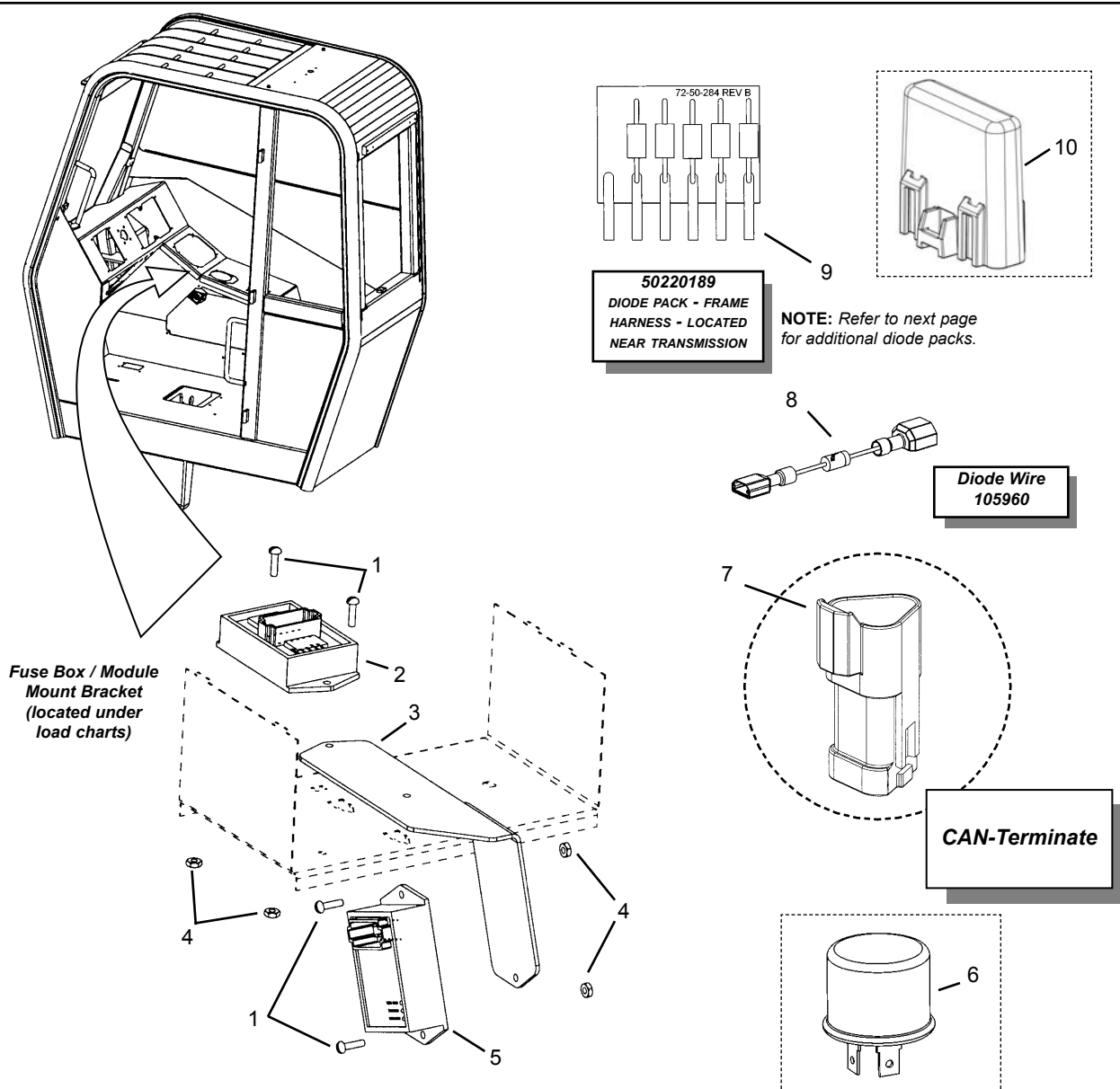
**NOTE:** Fuses, relays, and other items shown on these pages are for reference purposes only; your machine might be configured differently and might not include the options shown on this—or other pages—in this parts manual.



# Telescopic Handler

## Cab

### Fuses, Relays, and Wire Harnesses



| Ref. No. | Part No. | Description                            | Qty. Req. |
|----------|----------|----------------------------------------|-----------|
| 01       | L50491   | #8-32X5/8" SCREW                       | 4         |
| 02       | 101877   | MODULE, F-N-R SHIFTER                  | 1         |
| 03       | 210797   | BRACKET, BRAKE MODULE                  | 1         |
| 04       | L50538   | #8-32 NUT                              | 4         |
| 05       | 210614   | MODULE, BRAKE WARNING                  | 1         |
| 06       | L63894   | TURN SIGNAL FLASHER                    | 1         |
|          |          | (Located inside joystick access cover) |           |
| 07       | 106001   | CAN, TERMINATE RECEPTACLE              | 1         |
|          |          | (Included with wire harness.)          |           |

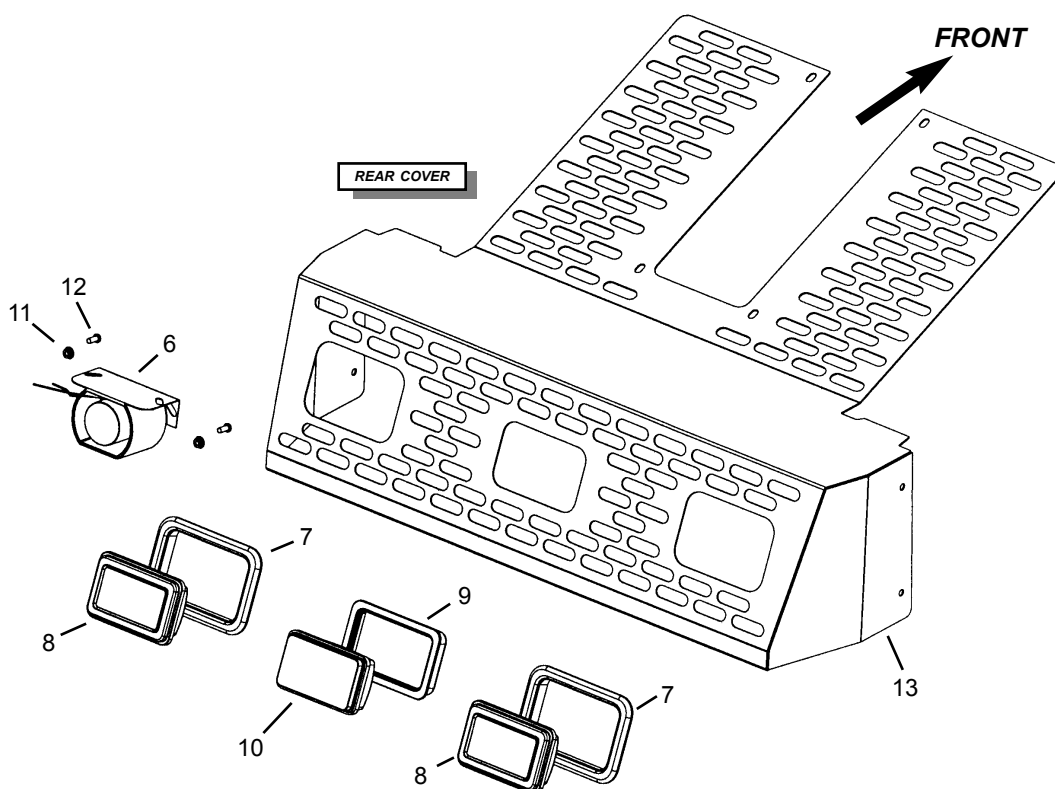
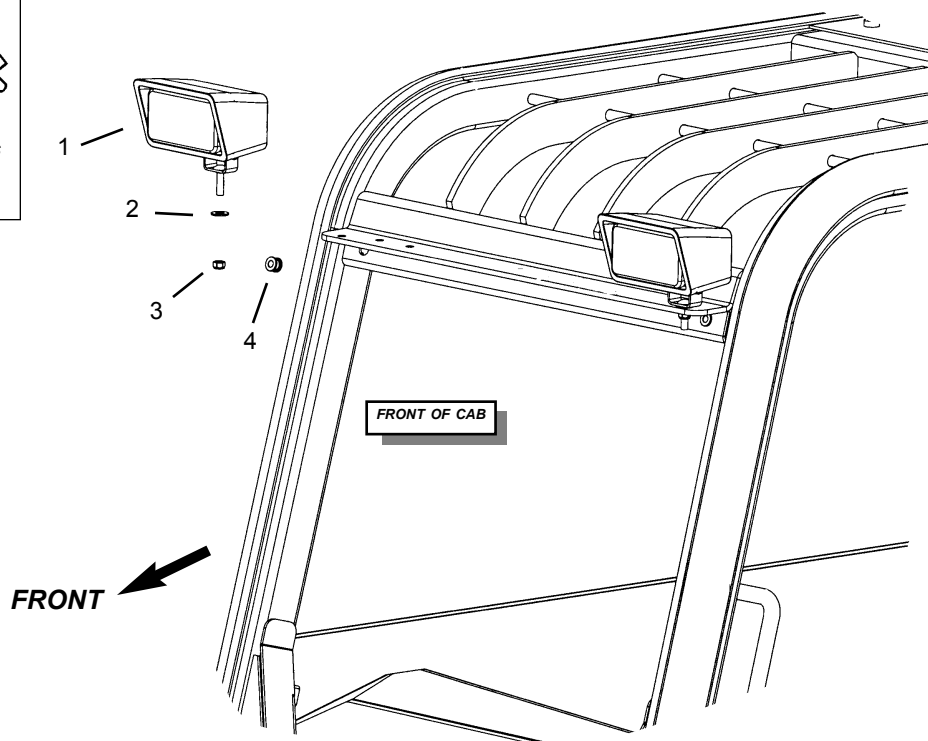
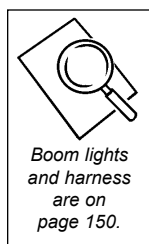
| Ref. No. | Part No. | Description                                                                                | Qty. Req. |
|----------|----------|--------------------------------------------------------------------------------------------|-----------|
| 08       | 105960   | DIODE WIRE                                                                                 | 1         |
|          |          | (Located under the dash; attaches to park brake switch—clutch cut-out side of the switch.) |           |
| 09a      | 50220189 | DIODE PACK, 5 DIODES                                                                       | 1         |
|          |          | (Included with frame wire harness.)                                                        |           |
| 10       | L500747  | CLEAR COVER, DIODE PACK                                                                    | 1         |
| a        |          | Additional diodes are shown on the next page.                                              |           |



## Cab

## RS Series

### Front and Rear Lights





## Telescopic Handler

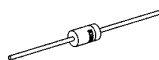
## Cab

## Front and Rear Lights

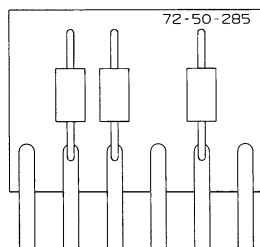
| Ref. No. | Part No. | Description                           | Qty. Req. | Ref. No.                     | Part No. | Description                          | Qty. Req. |
|----------|----------|---------------------------------------|-----------|------------------------------|----------|--------------------------------------|-----------|
| 01       | L70039   | HEAD LIGHT . . . . .                  | 2         | <b>-- ITEMS NOT SHOWN --</b> |          |                                      |           |
| 02       | 654006   | 3/8" FLAT WASHER . . . . .            | 2         | --a                          | 102647   | WIRE HARNESS, REAR LIGHTS. . .       | 1         |
| 03       | L520005  | 3/8"-16 NYLON INSERT NUT . . . . .    | 2         | --b                          | 102572   | HARNESS, LIGHT PACKAGE . . . .       | 1         |
| 04       | 101712   | GROMMET, 5/8" . . . . .               | 2         |                              |          | (dash to rear lights - includes the  |           |
| 06       | L70200   | BACKUP ALARM. . . . .                 | 1         |                              |          | following diodes:)                   |           |
|          | L50202   | 1/4"-20X5/8" BOLT, BTNHEAD . . . . .  | 2         |                              | 103101   | DIODE PACK (see below). . . . .      | 1         |
|          | L50051   | 1/4"-20 FLANGE NUT . . . . .          | 2         |                              | L500748  | DIODE PACK (see below). . . . .      | 1         |
| 07       | L500339  | BEZEL, RUBBER . . . . .               | 2         |                              | L500747  | CLEAR COVER, DIODE PACK . . .        | 2         |
|          |          | (included with item 8)                |           |                              |          | (see below)                          |           |
| 08       | L70701   | LIGHT, BRAKE/TURN . . . . .           | 2         |                              | L500747  | CLEAR COVER, DIODE PACK . . .        | 2         |
|          |          | (includes item 7 bezel; also includes |           |                              |          | (see below)                          |           |
|          |          | the light's plug-in connector)        |           |                              | L60587   | IN-LINE DIODE (see below) . . . . .  | 2         |
| 09       | L500606  | BEZEL, RUBBER . . . . .               | 1         |                              |          | (located between diode pack and      |           |
|          |          | (included with item 10)               |           |                              |          | back-up alarm connection)            |           |
| 10       | L71595   | LIGHT, HALOGEN BACKUP. . . . .        | 1         |                              |          |                                      |           |
|          |          | (includes item 9 bezel)               |           | --                           | L63894   | TURN SIGNAL FLASHER. . . . .         | 1         |
|          | 100102   | JUMPER WIRE, BACKUP LIGHT . . .       | 1         |                              |          | (located under dash through joystick |           |
| 11       | L50202   | 1/4"X5/8" BTN HD BOLT . . . . .       | 2         |                              |          | access cover)                        |           |
| 12       | L50051   | 1/4"-20 FLANGE NUT . . . . .          | 2         | --                           | L70241   | HARNESS, HEAD LIGHT . . . . .        | 2         |
| 13       | 210442   | REAR COVER. . . . .                   | 1         |                              |          | (dash to head lights)                |           |
|          |          |                                       |           | --                           | 103192   | GROMMET, 13/16" . . . . .            | 2         |
|          |          |                                       |           |                              |          | (under dash for head light harness)  |           |

a Standard wire harness, used when not equipped with turn signals.

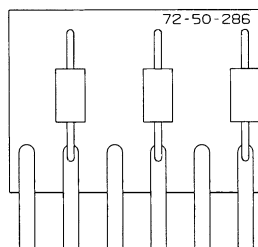
b Used with optional light package for units equipped with turn signals. Wire harness 102647 is not used when unit is equipped with turn signals.



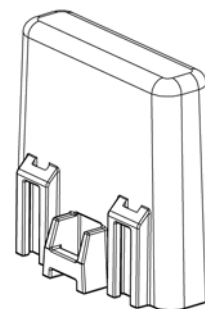
**In-line Diode**  
**L60587**



**103101**  
**DIODE PACK**  
**LOCATED NEAR**  
**REAR LIGHTS**



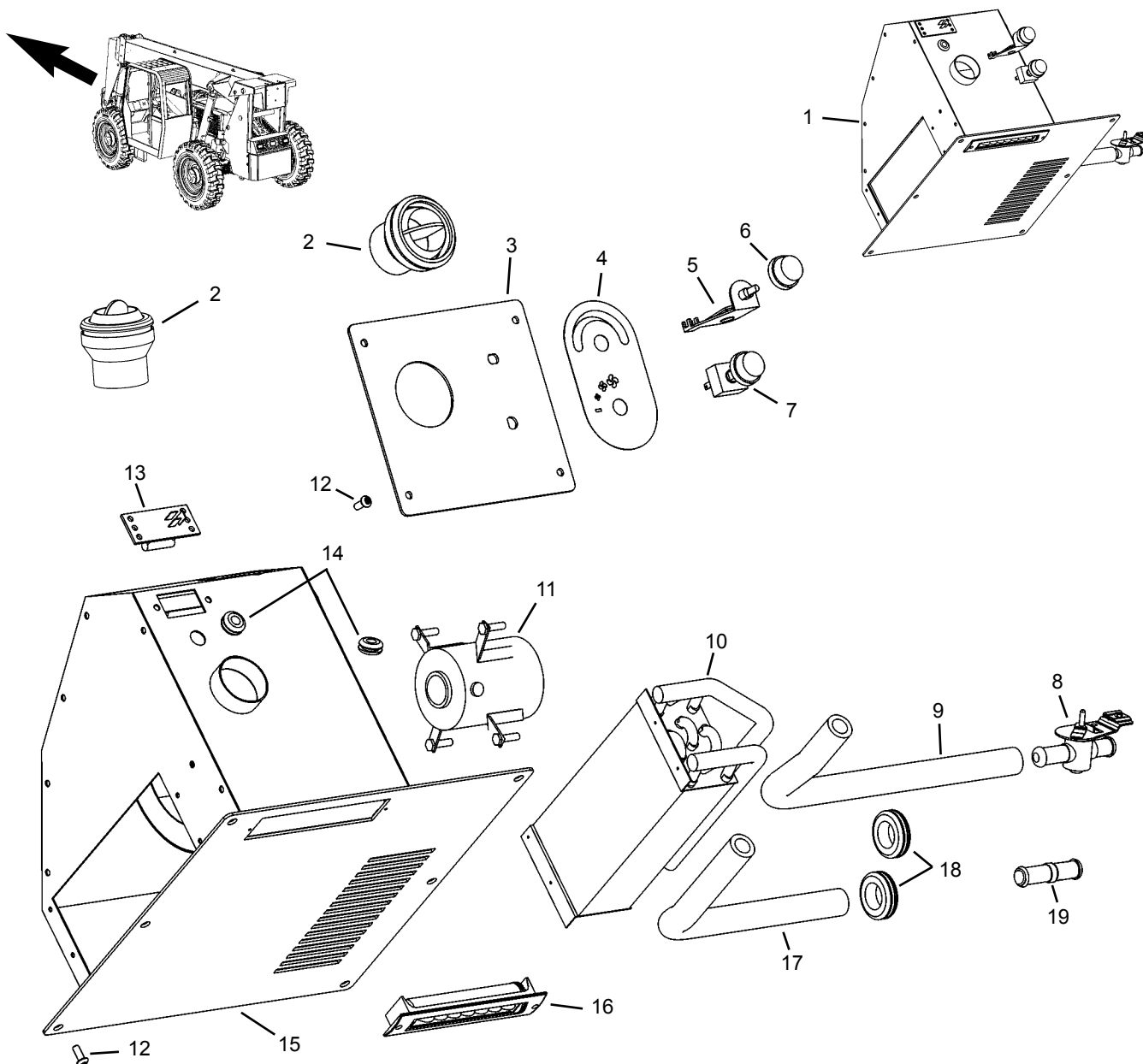
**L500748**  
**DIODE PACK**  
**LOCATED UNDER DASH**  
**NEAR SWITCHES**



**L500747**  
**DIODE PACK**  
**CLEAR COVER**

**NOTE:** Refer to previous page for frame harness diode pack.



**Cab****Heater - (Option) - (No A/C)****RS Series**

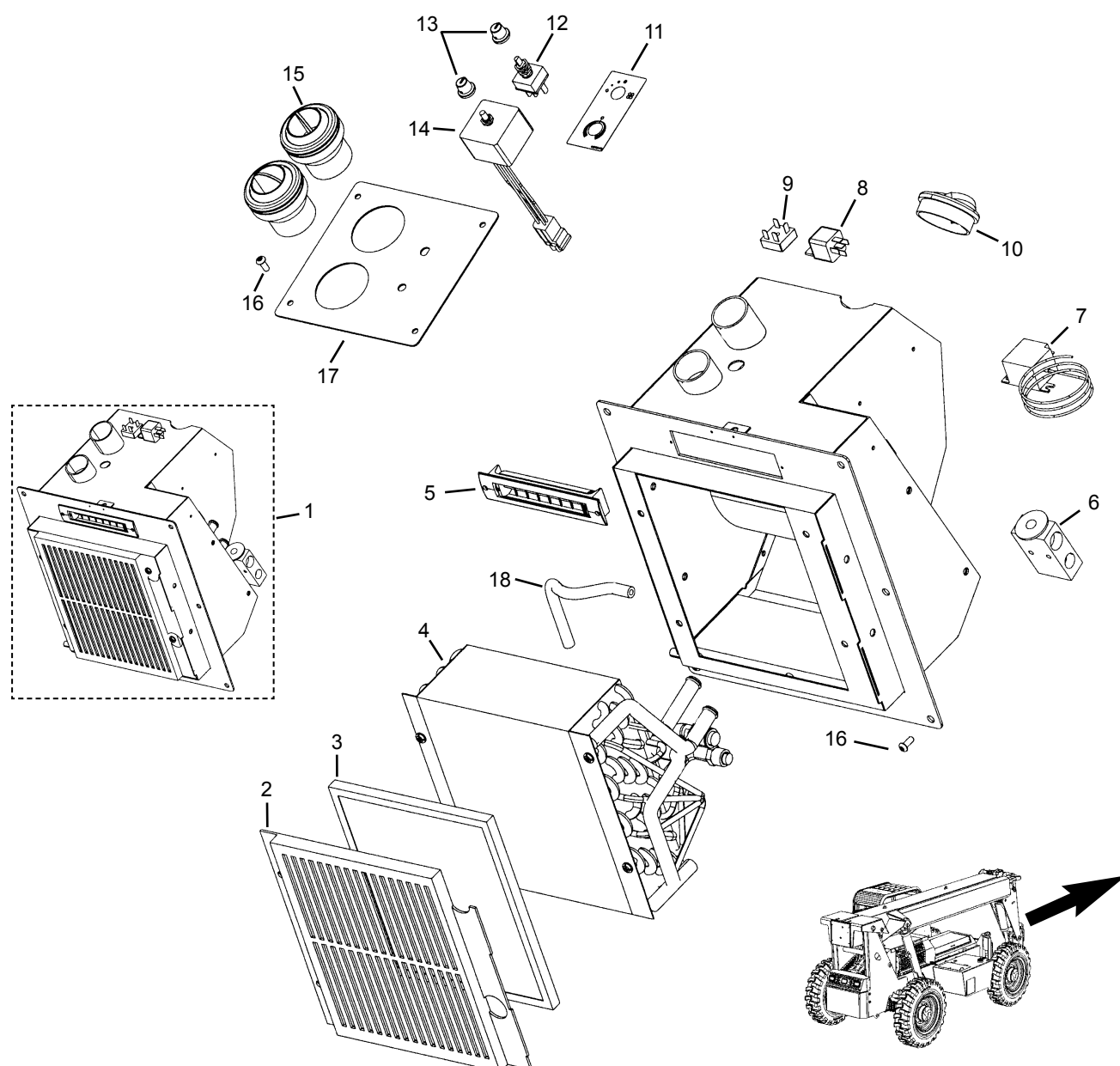
| Item No. | Part No. | Description                                             | Qty. Req. | Item No. | Part No. | Description                                        | Qty. Req. |
|----------|----------|---------------------------------------------------------|-----------|----------|----------|----------------------------------------------------|-----------|
| 01       | 102907   | HEATER ASSEMBLY ..... 1<br>(Includes items 5-11; 13-19) |           | 09       | NSS      | HOSE, 5/8" - FORMED..... 1                         |           |
| 02       | L63545   | GRILL, DEFROSTER ..... 2                                |           | 10       | 50380847 | HEATER CORE..... 1                                 |           |
| 03       | 102944   | INSTRUMENT PANEL..... 1                                 |           | 11       | 103033   | BLOWER MOTOR..... 1<br>(does not include fan/cage) |           |
| 04       | 102945   | DECAL, HEAT CONTROL..... 1                              |           | 12       | L50202   | 1/4"-20X5/8" BUTTN HD BOLT... 10                   |           |
| 05       | 187841   | CONTROL, TEMPERATURE ..... 1<br>(does not include knob) |           | 13       | 136310   | RESISTOR BLOCK..... 1                              |           |
| 06       | 273968   | KNOB (not included with item 5)... 1                    |           | 14       | NSS      | GROMMET 5/8" OD X 3/8" ID.... 2                    |           |
| 07       | 136305   | SWITCH, VARIABLE SPEED ..... 1                          |           | 15       | NSS      | HOUSING ..... 1                                    |           |
|          | 50300066 | PANEL MOUNT NUT (included) ... 2                        |           | 16       | 137503   | LOUVER ..... 1                                     |           |
|          |          | (NOTE: switch includes knob; knob not sold separately)  |           | 17       | NSS      | HOSE, 5/8" - FORMED..... 1                         |           |
| 08       | L500163  | VALVE, WATER..... 1                                     |           | 18       | NSS      | GROMMET 1-3/8" OD X 1" ID .... 2                   |           |
|          |          |                                                         |           | 19       | NSS      | HOSE COUPLER ..... 1                               |           |



# Telescopic Handler

## Cab

A/C - Heater - (A/C - Option)

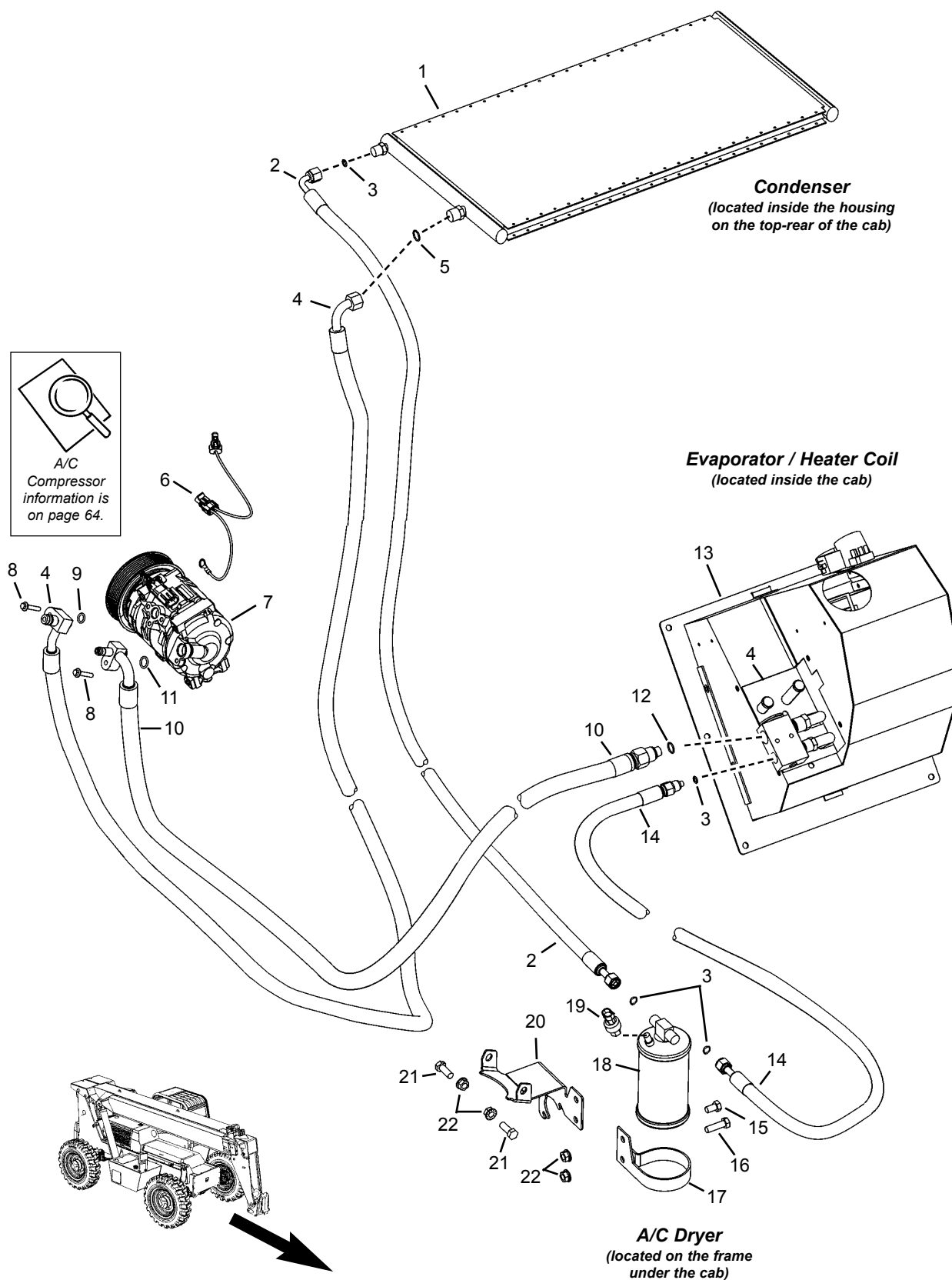


| Ref. No. | Part No. | Description                                 | Qty. Req. | Ref. No. | Part No.  | Description                     | Qty. Req. |
|----------|----------|---------------------------------------------|-----------|----------|-----------|---------------------------------|-----------|
| 01       | 210796   | HVAC ASSEMBLY.....1<br>(Includes items 2-9) |           | 10       | 420-36290 | LOUVER.....1                    |           |
|          | 211147   | FAN ASSEMBLY (only).....1                   |           | 11       | 189049    | DECAL, A/C HEATER CONTROL..1    |           |
| 02       | 211145   | FILTER COVER.....1                          |           | 12       | 136305    | SWITCH, VARIABLE SPEED....1     |           |
| 03       | 211146   | FILTER, CAB AIR.....1                       |           |          | 50300066  | PANEL MOUNT NUT (included)...2  |           |
| 04       | 211149   | EVAPORATOR/HEATER COIL...1                  |           | 13       | 139279    | KNOB.....2                      |           |
| 05       | 137503   | LOUVER.....1                                |           | 14       | 189033    | MODULE, A/C CONTROL.....1       |           |
| 06       | 211148   | EXPANSION VALVE.....1                       |           | 15       | L63545    | GRILL, VENT.....2               |           |
| 07       | 138623   | COLD CONTROL SWITCH.....1                   |           | 16       | L50202    | 1/4"-20X5/8" BUTTN HD BOLT...10 |           |
| 08       | 242145   | RELAY.....1                                 |           | 17       | 211023    | PANEL, HVAC CONTROL.....1       |           |
| 09       | 242875   | RECTIFIER PACK.....1                        |           | 18       | 201179    | HOSE, OVERFLOW.....1            |           |



## Cab A/C Circuit (Option)

## RS Series



**Telescopic Handler****Cab*****A/C Circuit (Option)***

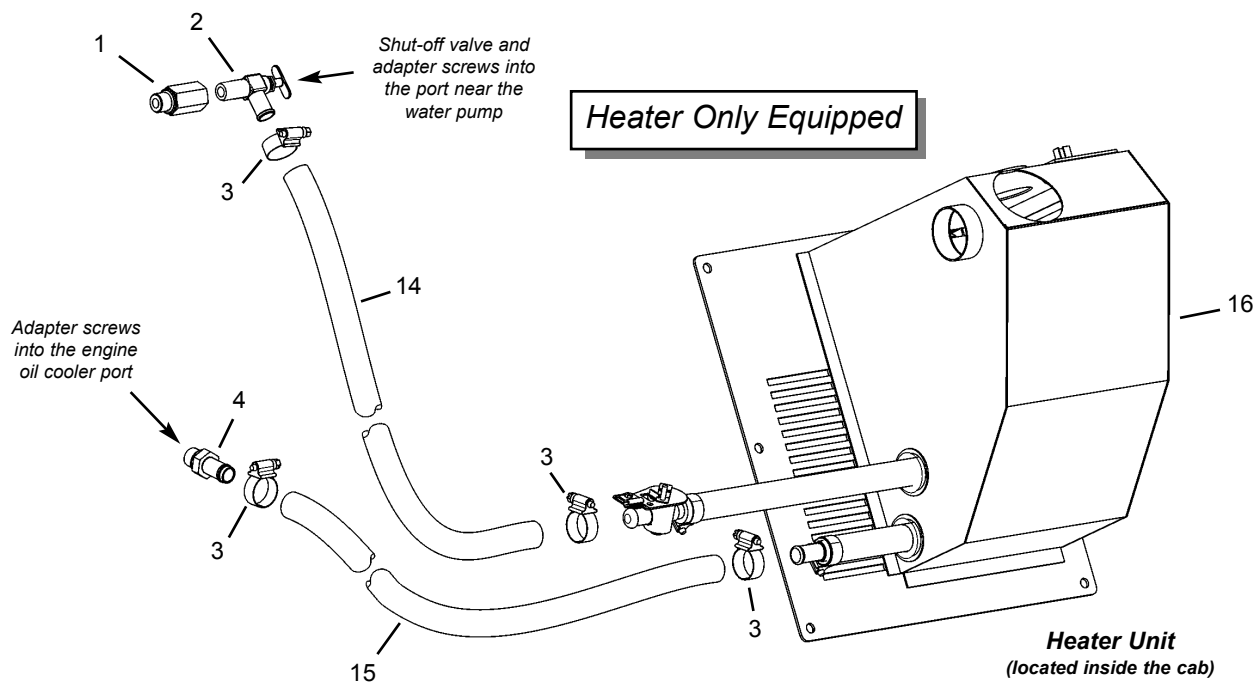
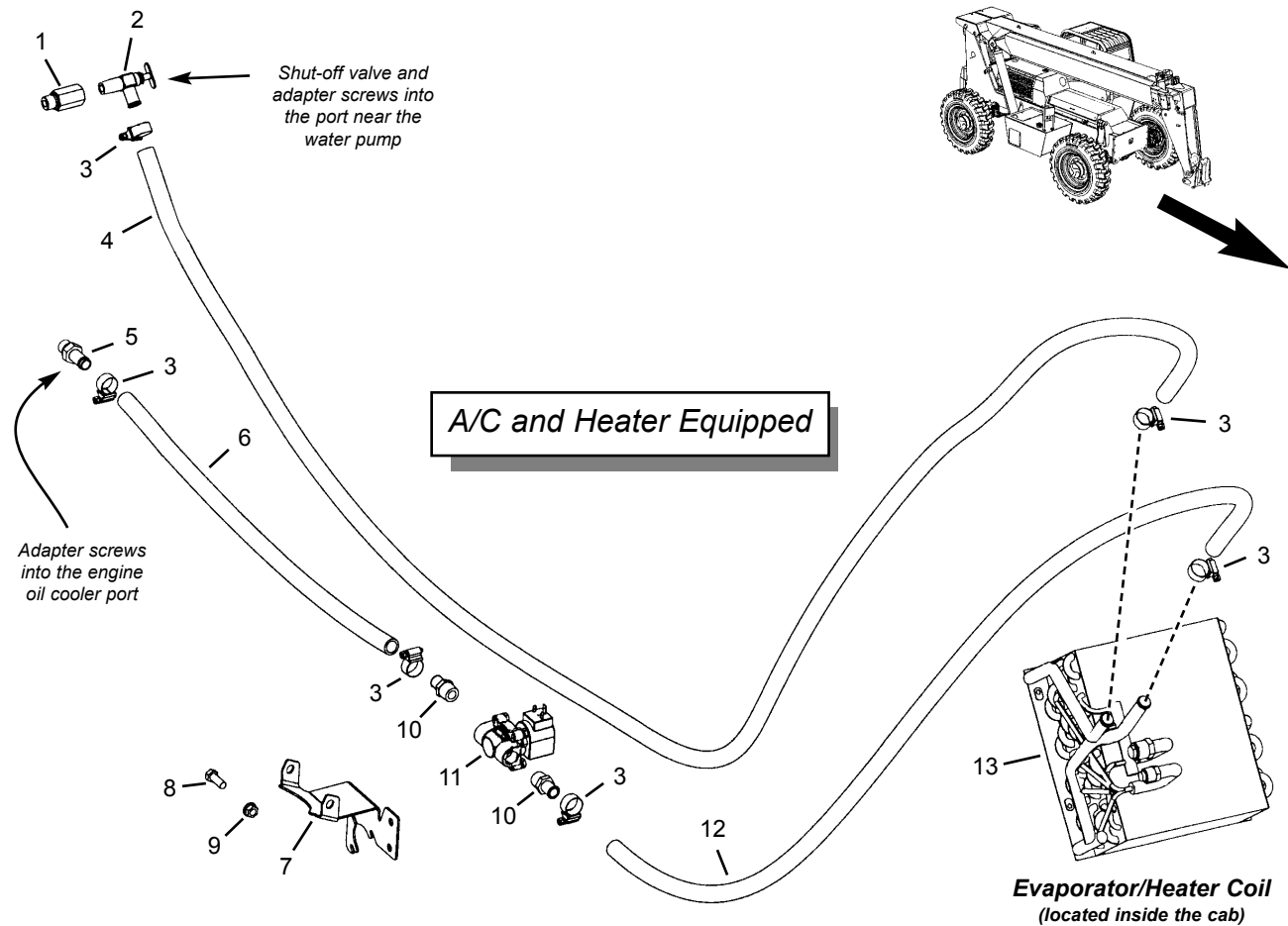
| Ref.<br>No. | Part<br>No. | Description                | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                               | Qty.<br>Req. |
|-------------|-------------|----------------------------|--------------|-------------|-------------|-------------------------------------------|--------------|
| 01          | L500595     | CONDENSER .....            | 1            | 12          | 138779      | O-RING .....                              | 1            |
| 02          | 211010      | HOSE, #6 COND./DRYER ..... | 1            | 13          | 210796      | HVAC UNIT ( <i>Evaporator/Heater</i> )... | 1            |
| 03          | 138777      | O-RING .....               | 4            | 14          | 211009      | HOSE, #6 DRYER/EVAP. ....                 | 1            |
| 04          | 50380458    | HOSE, #8 COND./COMP. ....  | 1            | 15          | 650450      | CS 3/8 x 5/8 C5ZY .....                   | 1            |
| 05          | 138778      | O-RING .....               | 1            | 16          | 650491      | CS 3/8 x 1-1/4 C5ZY .....                 | 1            |
| 06          | 50380460    | A/C COMPRESSOR HARNESS...  | 1            | 17          | 138651      | CLAMP, DRYER .....                        | 1            |
| 07          | 50380423    | A/C COMPRESSOR .....       | 1            | 18          | 138649      | A/C DRYER.....                            | 1            |
| 08          | 651759      | CS M6-10.0x30 .....        | 2            | 19          | 138714      | SWITCH, BINARY.....                       | 1            |
| 09          | 50380445    | O-RING .....               | 1            | 20          | 211055      | MOUNT, DRYER / VALVE.....                 | 1            |
| 10          | 50380459    | HOSE, #10 COMP./EVAP. .... | 1            | 21          | 650490      | CS 3/8 x 1 C5ZY .....                     | 2            |
| 11          | 50380446    | O-RING .....               | 1            | 22          | 090666      | HN FL SLOC 3/8 CZY.....                   | 4            |



## Cab

### Heater Circuit (Option)

## RS Series



**Telescopic Handler****Cab****Heater Circuit (Option)**

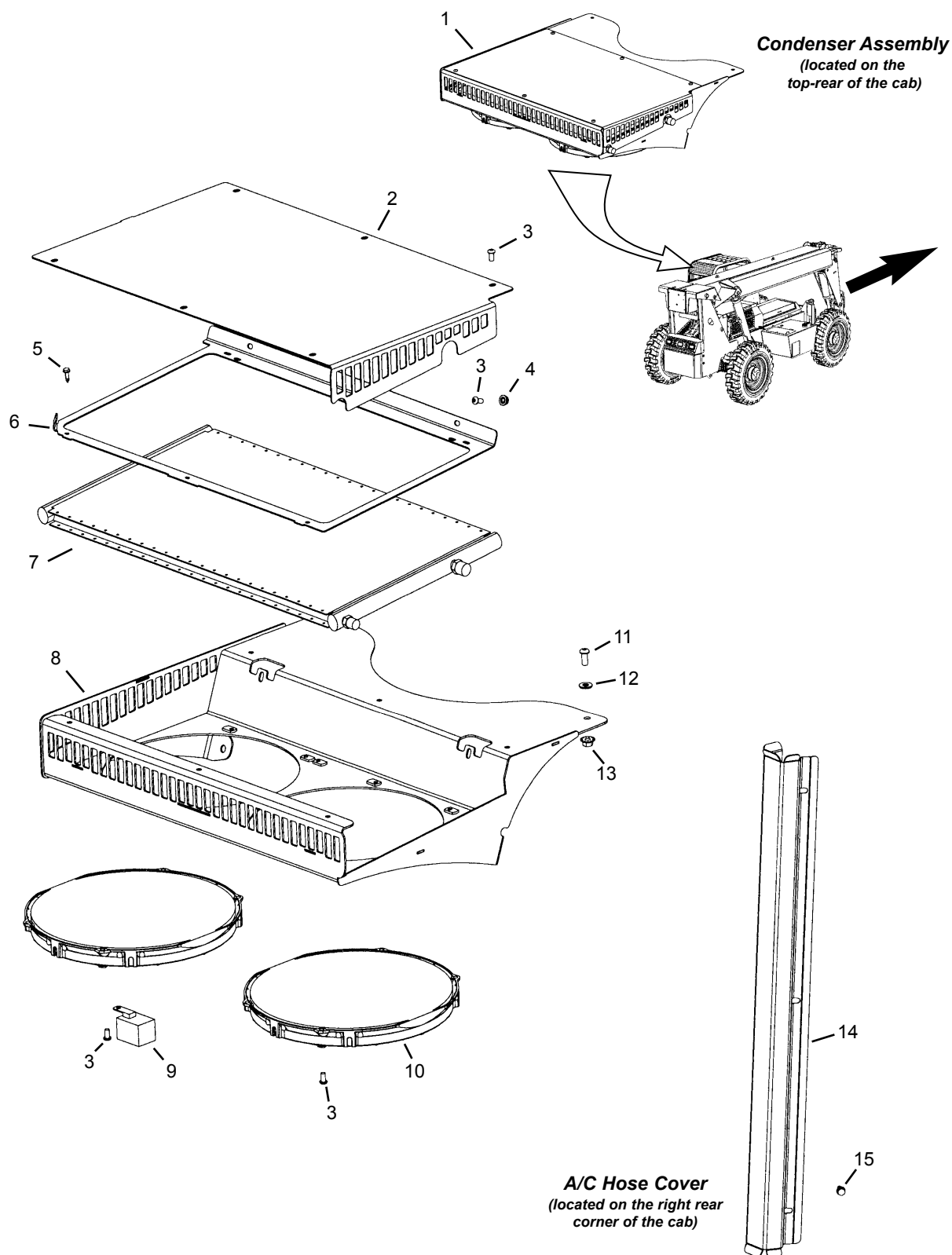
| Ref. No. | Part No. | Description                            | Qty. Req. | Ref. No. | Part No. | Description                                 | Qty. Req. |
|----------|----------|----------------------------------------|-----------|----------|----------|---------------------------------------------|-----------|
| 01       | 210049   | ST-LL FP06-ISO6149-18.....             | 1         | 10       | 186193   | ST 1/2MPT x 5/8" HOSE.....                  | 2         |
| 02       | L68592   | SHUT-OFF, MANUAL .....                 | 1         | 11       | 186703   | HEATER-A/C SOLENOID .....                   | 1         |
| 03       | 095955   | CLAMP, HOSE #10 .....                  | 6         | 12       | 230209   | HOSE, HEATER 5/8" x 60" .....               | 1         |
| 04       | 230210   | HOSE, HEATER 5/8" x 108" .....         | 1         |          | 272546   | SPRING GUARD ( <i>not shown</i> ).....      | 1         |
|          | 272546   | SPRING GUARD ( <i>not shown</i> )..... | 1         | 13       | 211149   | EVAPORATOR/HEATER COIL ....                 | 1         |
| 05       | L447005  | ST HB10-ISO6149-18 .....               | 1         |          |          | <i>(refer to page 25 for parts listing)</i> |           |
| 06       | 230208   | HOSE, HEATER 5/8" x 36" .....          | 1         | 14       | NSS      | HEATER HOSE 5/8" x 60" .....                | 1         |
| 07       | 211055   | MOUNT, DRYER / VALVE.....              | 1         | 15       | NSS      | HEATER HOSE 5/8" x 48" .....                | 1         |
| 08       | 650490   | CS 3/8 x 1 C5ZY .....                  | 2         | 16       | 102907   | HEATER ASSEMBLY .....                       | 1         |
| 09       | 090666   | LN FL SERR 3/8 CZY .....               | 5         |          |          | <i>(refer to page 24 for parts listing)</i> |           |



## Cab

### A/C Condenser - (A/C Equipped - Option)

## RS Series



**Telescopic Handler****Cab*****A/C Condenser - (A/C Equipped - Option)***

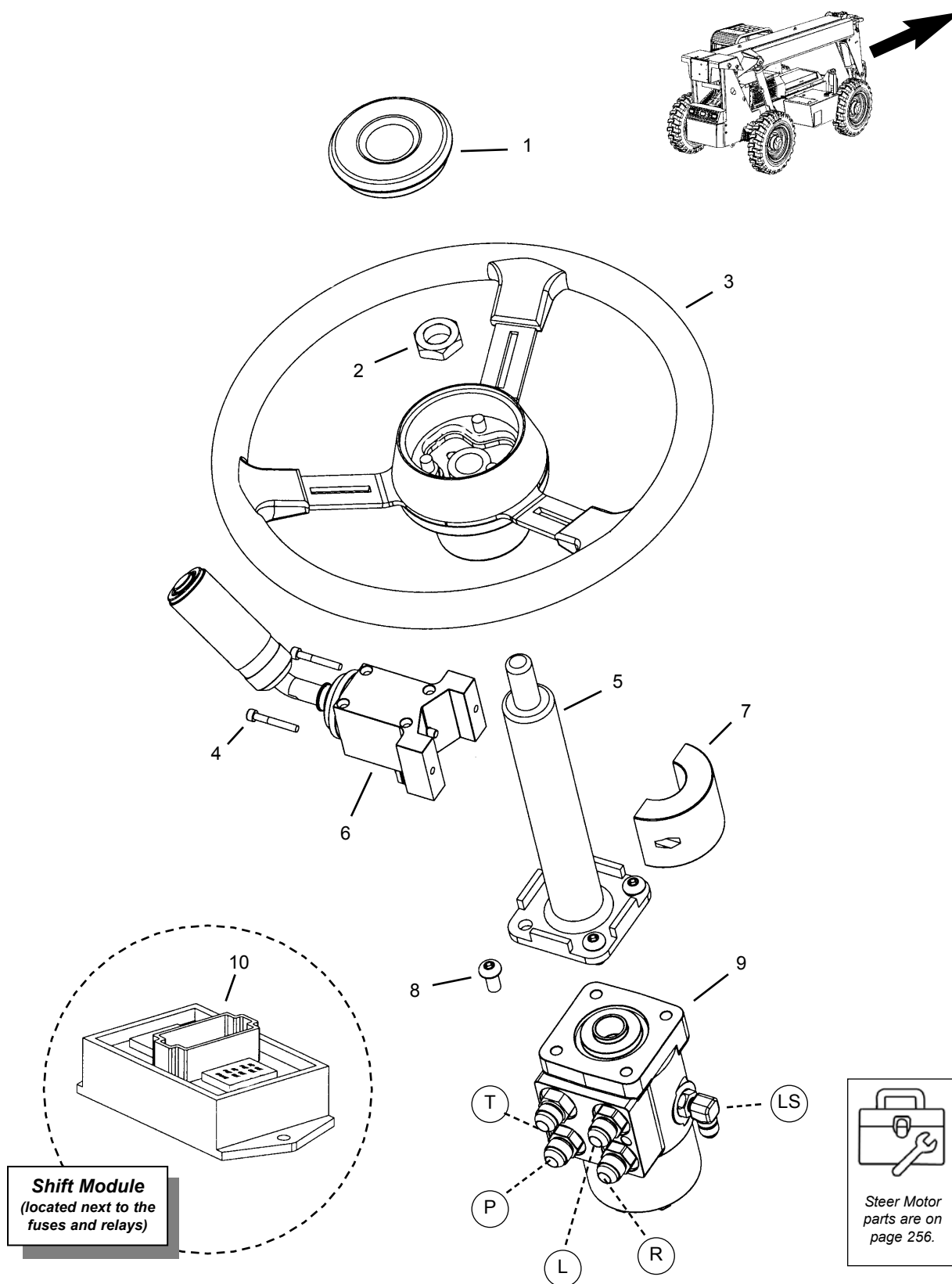
| Ref.<br>No. | Part<br>No. | Description                                                    | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                        | Qty.<br>Req. |
|-------------|-------------|----------------------------------------------------------------|--------------|-------------|-------------|------------------------------------|--------------|
| 01          | 211052      | CONDENSER ASSEMBLY . . . . . 1<br><i>(includes items 1-10)</i> |              | 08          | 211045      | CONDENSER HOUSING . . . . . 1      |              |
| 02          | 211039      | COVER, CONDENSER HOUSING . 1                                   |              | 09          | 420-35602   | RELAY . . . . . 1                  |              |
| 03          | 089888      | BHSCS 1/4" x 1/2" . . . . . 17                                 |              | 10          | L500594     | CONDENSER FAN ASSEMBLY . . . 2     |              |
| 04          | L50051      | FLANGE LN 1/4"-20 . . . . . 2                                  |              | 11          | 651640      | BHSCS 5/16" x 3/4" . . . . . 4     |              |
| 05          | L500596     | SELF-TAP SCREW 3/16" x 5/8" . . 6                              |              | 12          | 210765      | FW 5/16" ZY SEALING . . . . . 4    |              |
| 06          | 211035      | MOUNT, CONDENSER COIL . . . . 1                                |              | 13          | 070648      | LN LG FL SERR 5/16 CZ . . . . . 4  |              |
| 07          | L500595     | CONDENSER COIL . . . . . 1                                     |              | 14          | 210833      | COVER, A/C HOSES . . . . . 1       |              |
|             |             |                                                                |              | 15          | 650315      | SELF-TAP SCREW 1/4" x 1/2" . . . 3 |              |





## Cab Steering Column Components

## RS Series





## Telescopic Handler

## Cab

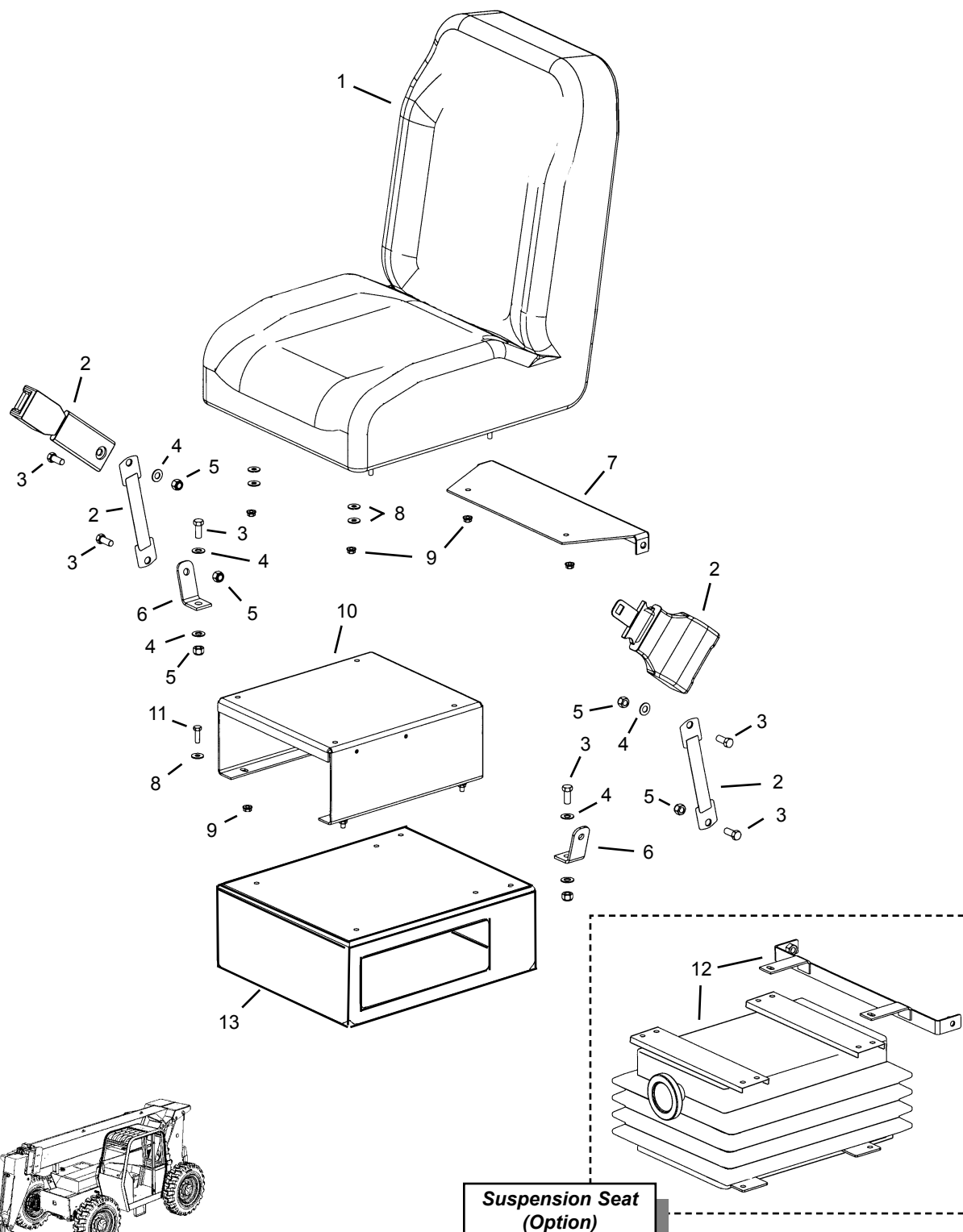
### Steering Column Components

| Ref. No. | Part No. | Description                          | Qty. Req. | Ref. No. | Part No. | Description                      | Qty. Req. |
|----------|----------|--------------------------------------|-----------|----------|----------|----------------------------------|-----------|
| 01       | 103359   | CAP, STEERING WHEEL . . . . .        | 1         | 08       | 651625   | 3/8"-16X1-1/4" BUTTN HD BOLT . . | 4         |
| 02       | L41261   | NUT, STEERING WHEEL . . . . .        | 1         | 09       | 101880   | MOTOR, STEER . . . . .           | 1         |
| 03       | L69595   | STEERING WHEEL . . . . .             | 1         | 10       | 101877   | MODULE, F-N-R SHIFTER. . . . .   | 1         |
| 04       | L50101   | M5X.8X35mm HX SKTHD BOLT . .         | 2         |          | L50491   | #8-32X5/8" SCREW . . . . .       | 2         |
| 05       | 102783   | COLUMN, STEERING. . . . .            | 1         |          | L50538   | #8-32 NUT . . . . .              | 2         |
| 06       |          | F-N-R/SHIFTER (includes #7). . . . . | 1         |          |          |                                  |           |
|          | L68772   | Note x                               |           | x        |          | Only RS6-42 and RS8-42/44        |           |
|          | 210479   | Note y                               |           | y        |          | Only RS10-44/55 and RS12-42      |           |
|          | L99425   | BOOT (fits both shifters). . . . .   | 1         |          |          |                                  |           |
| 07       | 105236   | CLAMP, SHIFTER(included w/ #6) .     | 1         |          |          |                                  |           |



## Cab Seat

## RS Series





# Telescopic Handler

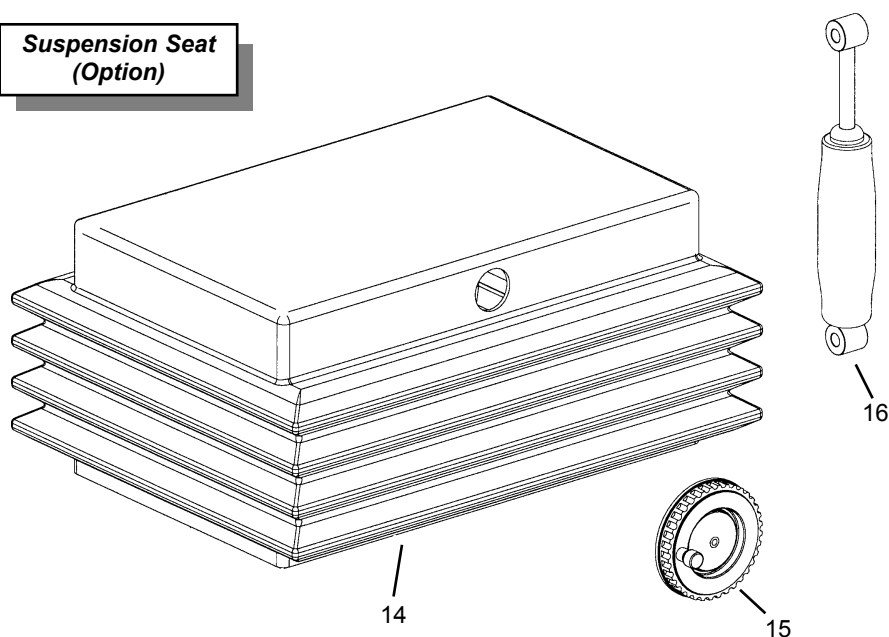
## Cab Seat

| Ref. No.        | Part No. | Description                                                                        | Qty. Req. | Ref. No.        | Part No. | Description                                | Qty. Req. |
|-----------------|----------|------------------------------------------------------------------------------------|-----------|-----------------|----------|--------------------------------------------|-----------|
| 01              | 210170   | SEAT . . . . .                                                                     | 1         | 13              | 103195   | PEDESTAL / BOLT ON SEAT . . . . .          | 1         |
| 02              | L70634   | SEAT BELT <i>(includes tethers)</i> . . . . .                                      | 1         |                 | 650490   | 3/8"X1" BOLT . . . . .                     | 2         |
| 03              | 650630   | 7/16"-20X1" BOLT . . . . .                                                         | AR        |                 | 650533   | 3/8"X1-1/2" BOLT . . . . .                 | 2         |
| 04              | L50196   | 7/16" FLAT WASHER . . . . .                                                        | AR        |                 | 654006   | 3/8" FLAT WASHER . . . . .                 | 8         |
| 05              | L50517   | 7/16"-20 NYLON INSERT NUT . . . . .                                                | AR        |                 | L520005  | 3/8" NYLON INSERT NUT . . . . .            | 4         |
| 06              | L70212   | BRACKET, TETHER . . . . .                                                          | 2         | 14 <sup>b</sup> | 210403   | BELLOWS, SEAT <i>(boot only)</i> . . . . . | 1         |
| 07 <sup>a</sup> | L70201   | MOUNT, SEAT BELT . . . . .                                                         | 1         | 15 <sup>b</sup> | 210405   | ADJUSTMENT KNOB . . . . .                  | 1         |
| 08              | 654004   | 5/16" FLAT WASHER . . . . .                                                        | AR        | 16 <sup>b</sup> | 210404   | SHOCK, SUSP. SEAT . . . . .                | 1         |
| 09              | L50056   | 5/6"-18 NYLON INSERT NUT . . . . .                                                 | AR        |                 |          |                                            |           |
| 10 <sup>a</sup> | 100071   | SEAT RISER . . . . .                                                               | 1         |                 |          |                                            |           |
| 11              | 650487   | 5/16"-18X1" BOLT . . . . .                                                         | AR        |                 |          |                                            |           |
| 12 <sup>b</sup> | L68496   | BELLOWS, SUSPENSION SEAT . . . . .<br><i>(includes seat belt / tether bracket)</i> | 1         |                 |          |                                            |           |

*a Used for standard seat only; not used with suspension seat option.*

*b Used for suspension seat option only.*

**Suspension Seat  
(Option)**

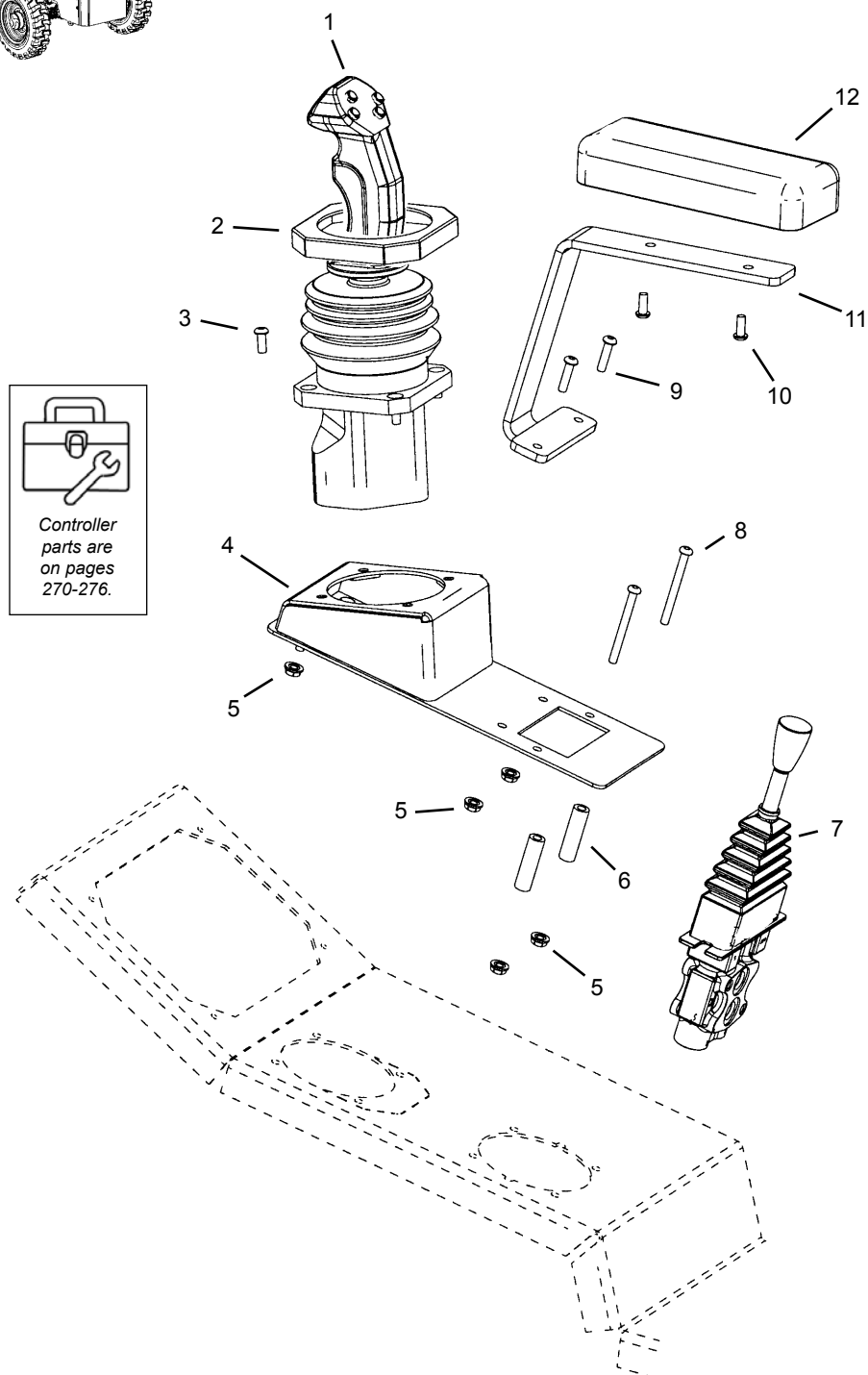
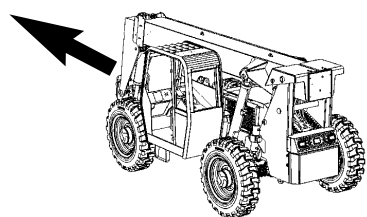




## Cab

## RS Series

### Tri-Function Cab Components - Option





## Telescopic Handler

## Cab

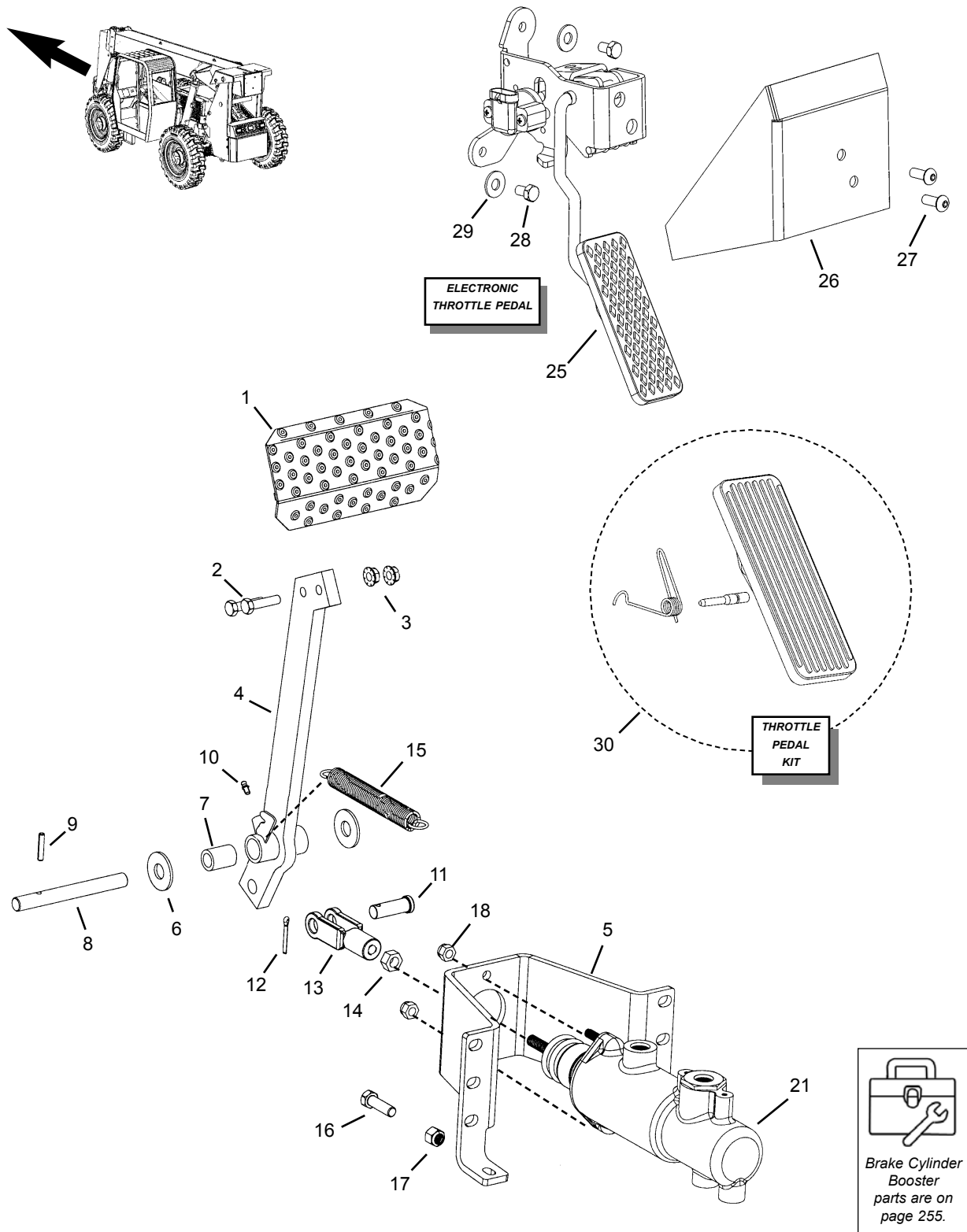
### *Tri-Function Cab Components - Option*

| Ref. No. | Part No. | Description                      | Qty. Req. | Ref. No. | Part No. | Description                        | Qty. Req. |
|----------|----------|----------------------------------|-----------|----------|----------|------------------------------------|-----------|
| 01       | 104083   | CONTROLLER, 4 BTN/W TRIG . . .   | 1         | 07       | 102435   | CONTROLLER, LEVEL . . . . .        | 1         |
| 02       | 104304   | BEZEL, JOYSTICK . . . . .        | 1         | 08       | 104219   | 1/4"-20X2-1/2" BTN HD BOLT . . . . | 2         |
|          |          | <i>(included with item 1)</i>    |           | 09       | L52024   | 1/4"-20X1" BTN HD BOLT . . . . .   | 2         |
| 03       | L50202   | 1/4"-20X5/8" BTN HD BOLT . . . . | AR        | 10       | L52024   | 1/4"-20X1" BTN HD BOLT . . . . .   | 2         |
| 04       | 103582   | JOYSTICK MOUNT . . . . .         | 1         | 11       | 103708   | BRACKET, ARM REST . . . . .        | 1         |
| 05       | L50051   | 1/4"-20 FLANGE LOCK NUT . . . .  | AR        | 12       | L69756   | PAD, ARM REST . . . . .            | 1         |
| 06       | 104214   | SPACER, LEVEL CONTROLLER . .     | 1         |          |          |                                    |           |



## Cab Brake and Accelerator Pedals

## RS Series





## Telescopic Handler

## Cab

### Brake and Accelerator Pedals

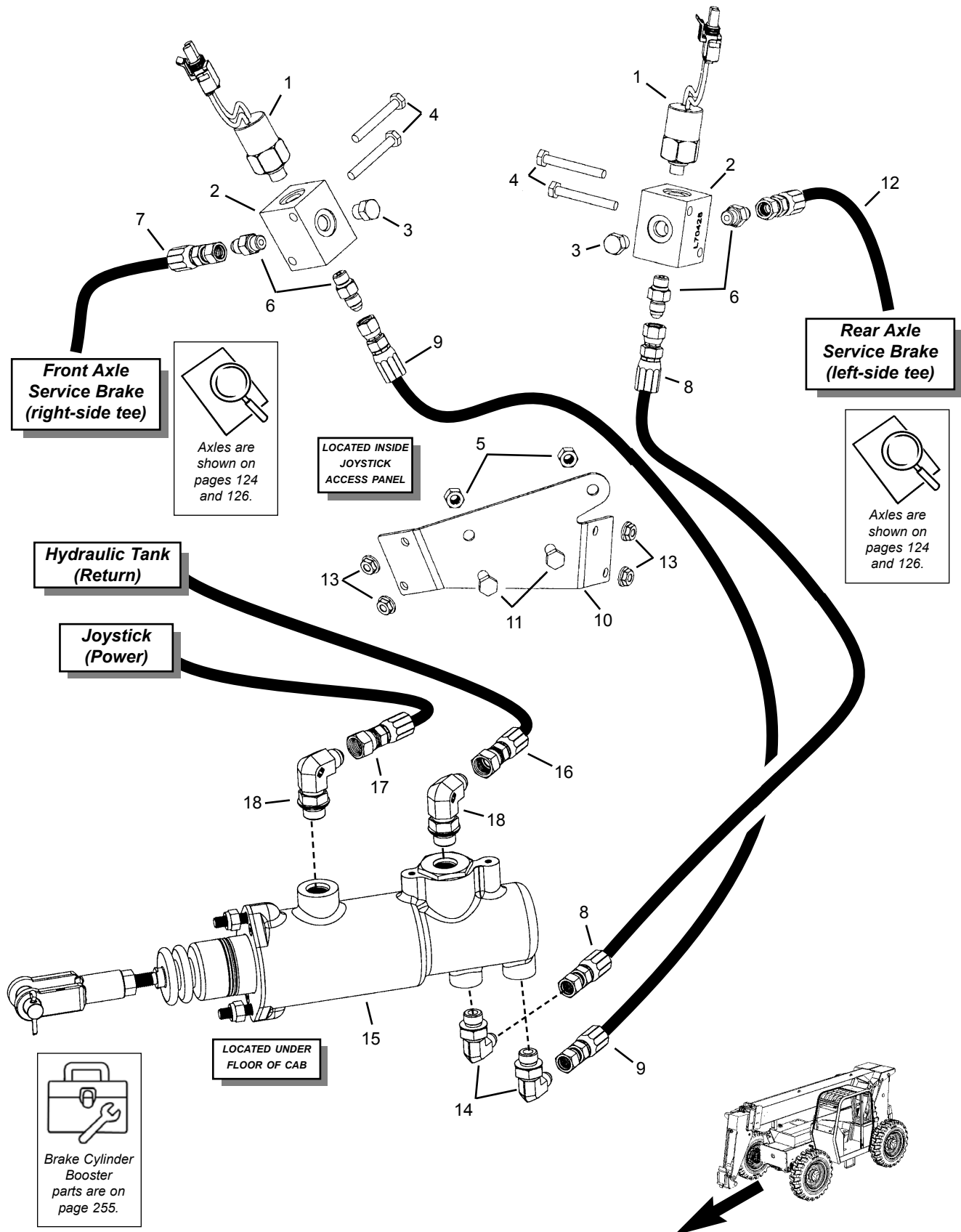
| Ref. No. | Part No. | Description                       | Qty. Req. | Ref. No. | Part No. | Description                                                                     | Qty. Req. |
|----------|----------|-----------------------------------|-----------|----------|----------|---------------------------------------------------------------------------------|-----------|
| 01       | L63230   | PAD, BRAKE PEDAL . . . . .        | 1         | 16       | 650491   | 3/8"X1-1/4" BOLT . . . . .                                                      | 4         |
| 02       | L50235   | 5/16"-18X1-1/4" BOLT . . . . .    | 2         | 17       | L520005  | 3/8" NYLON INSERT NUT . . . . .                                                 | 4         |
| 03       | L50056   | 5/16"-18 FLANGE NUT . . . . .     | 2         | 18       | 651458   | M8-1.25 LOCK NUT . . . . .                                                      | 1         |
| 04       | 210609   | BRAKE LEVER ASSEMBLY . . . . .    | 1         | 21       | 210253   | BRAKE CYLINDER, BOOSTER . . .                                                   | 1         |
|          |          | (includes item 7)                 |           | 25       | 50381115 | THROTTLE, ELECTRONIC . . . . .                                                  | 1         |
| 05       | 210317   | BRACKET, BRAKE BOOSTER . . . .    | 1         | 26       | 105287   | COVER, ELEC. THROTTLE . . . . .                                                 | 1         |
| 06       | L50151   | 1/2" FLAT WASHER . . . . .        | 1         | 27       | L52025   | 5/16"-18X3/4" BUTTN HD BOLT . .                                                 | 2         |
| 07       | 210608   | BRONZE BUSHING . . . . .          | 1         |          | L530004  | 5/16"-18 RETAIN/CLIP NUT . . . . .                                              | 2         |
|          |          | (included with item 4)            |           | 28       | L50228   | 5/16"-18X3/4" BOLT . . . . .                                                    | 2         |
| 08       | 102529   | PIN, BRAKE LEVER PIVOT . . . . .  | 1         | 29       | 654004   | 5/16" FLAT WASHER . . . . .                                                     | 2         |
| 09       | L50628   | ROLL PIN, 0.19X1 . . . . .        | 1         | 30       | 107001   | KIT, THROTTLE PEDAL . . . . .                                                   | 1         |
| 10       | L10465   | ZERK, GREASE 1/4"-28 . . . . .    | 1         |          |          | (Includes pedal, pin and spring only;<br>does not include electronic throttle.) |           |
| 11       | L44859   | PIN, CLEVIS 1/2"X27/64" . . . . . | 1         |          |          | <b>-- ITEMS NOT SHOWN--</b>                                                     |           |
| 12       | L50607   | 1/8"X1" COTTER PIN . . . . .      | 1         |          |          | <b>(Throttle Wire Harness)</b>                                                  |           |
| 13       | 210328   | YOKE, CLEVIS M10X1.5 . . . . .    | 1         |          |          |                                                                                 |           |
| 14       | 656049   | M10-1.5 LOCK NUT . . . . .        | 1         |          |          |                                                                                 |           |
| 15       | L561004  | SPRING, 13GA. 0.73X6" . . . . .   | 1         | --       | 50380309 | WIRE HARNESS, THROTTLE . . . .                                                  | 1         |





# Cab Brake Valve

## RS Series





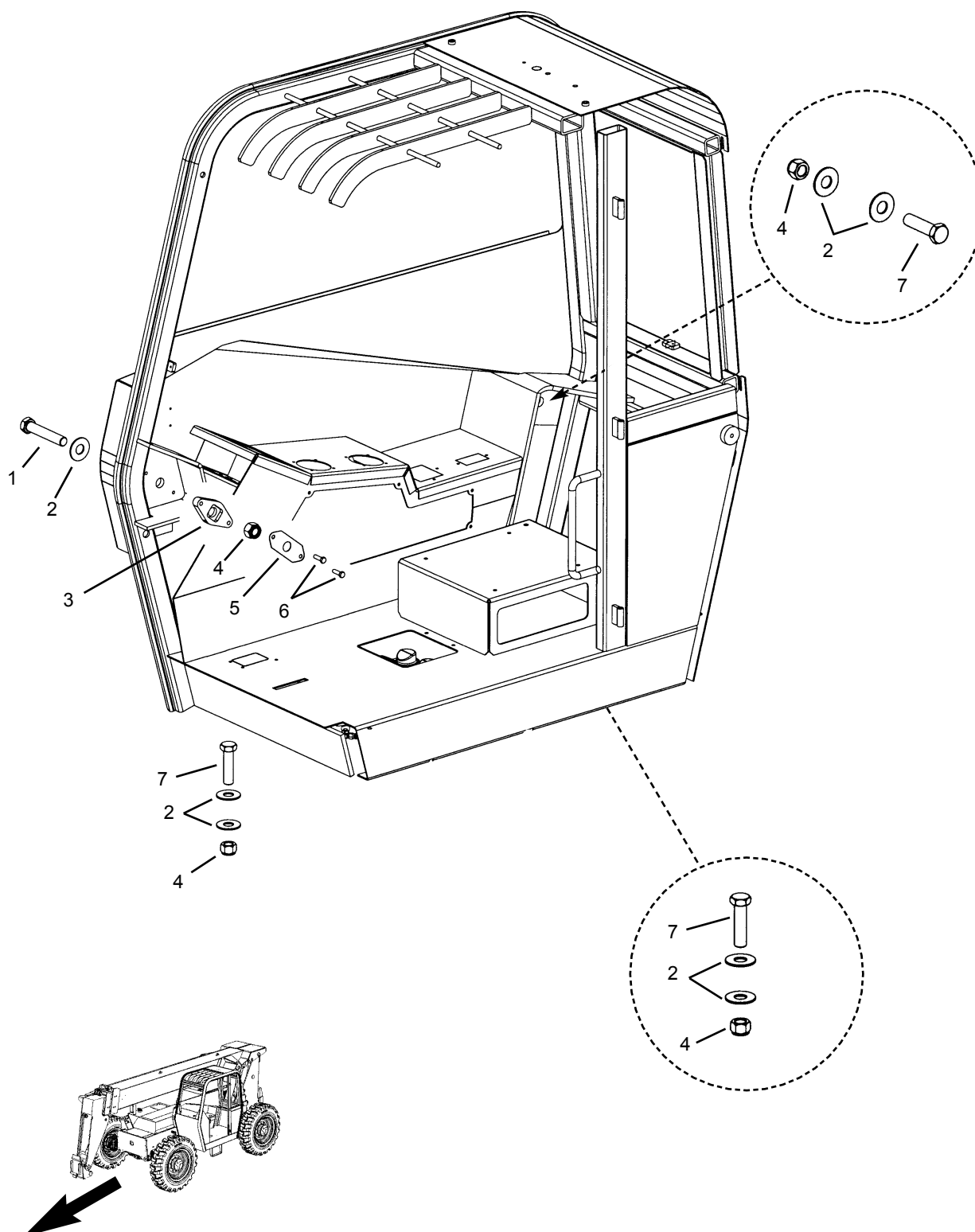
## Telescopic Handler

## Cab Brake Valve

| Ref.<br>No. | Part<br>No. | Description                      | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                      | Qty.<br>Req. |
|-------------|-------------|----------------------------------|--------------|-------------|-------------|----------------------------------|--------------|
| 01          | 210828      | PRESSURE SWITCH (150 psi) . . .  | 2            | 10          | 210798      | BRACKET, PRESS. SWITCH . . . . . | 1            |
| 02          | L70428      | MANIFOLD, BRAKE LINE . . . . .   | 1            | 11          | 650486      | 5/16"X3/4" BOLT . . . . .        | 2            |
| 03          | 230-32364   | PLUG, -4ORM SAE . . . . .        | 1            | 12          | 102840      | HOSE, -4 A4/A6 90" . . . . .     | 1            |
| 04          | 650706      | 1/4"X2" BOLT . . . . .           | 4            | 13          | L50051      | 1/4" FLANGE LOCK NUT . . . . .   | 4            |
| 05          | L520004     | 5/16" NYLON INSERT NUT . . . . . | 2            | 14          | 210449      | ADAP., MJO4 MMAORB14 90°. . . .  | 2            |
| 06          | 230-32195   | ADAP., -4ORM -4JICM . . . . .    | 4            | 15          | 210253      | BRAKE CYLINDER, BOOSTER . . .    | 1            |
| 07          | 102842      | HOSE, -4 A4/A6 66" . . . . .     | 1            | 16          | L69920      | HOSE, -4 A6/A6 40" . . . . .     | 1            |
| 08          | 104111      | HOSE, -4 A4/A4 18" . . . . .     | 1            | 17          | 102843      | HOSE, -4 A6/DS6 35" . . . . .    | 1            |
| 09          | 104111      | HOSE, -4 A4/A4 18" . . . . .     | 1            | 18          | 210450      | ADAP., MJ06 MMAORB16 90° . . . . | 2            |

## Cab Mounts

## RS Series





## Cab Mounts

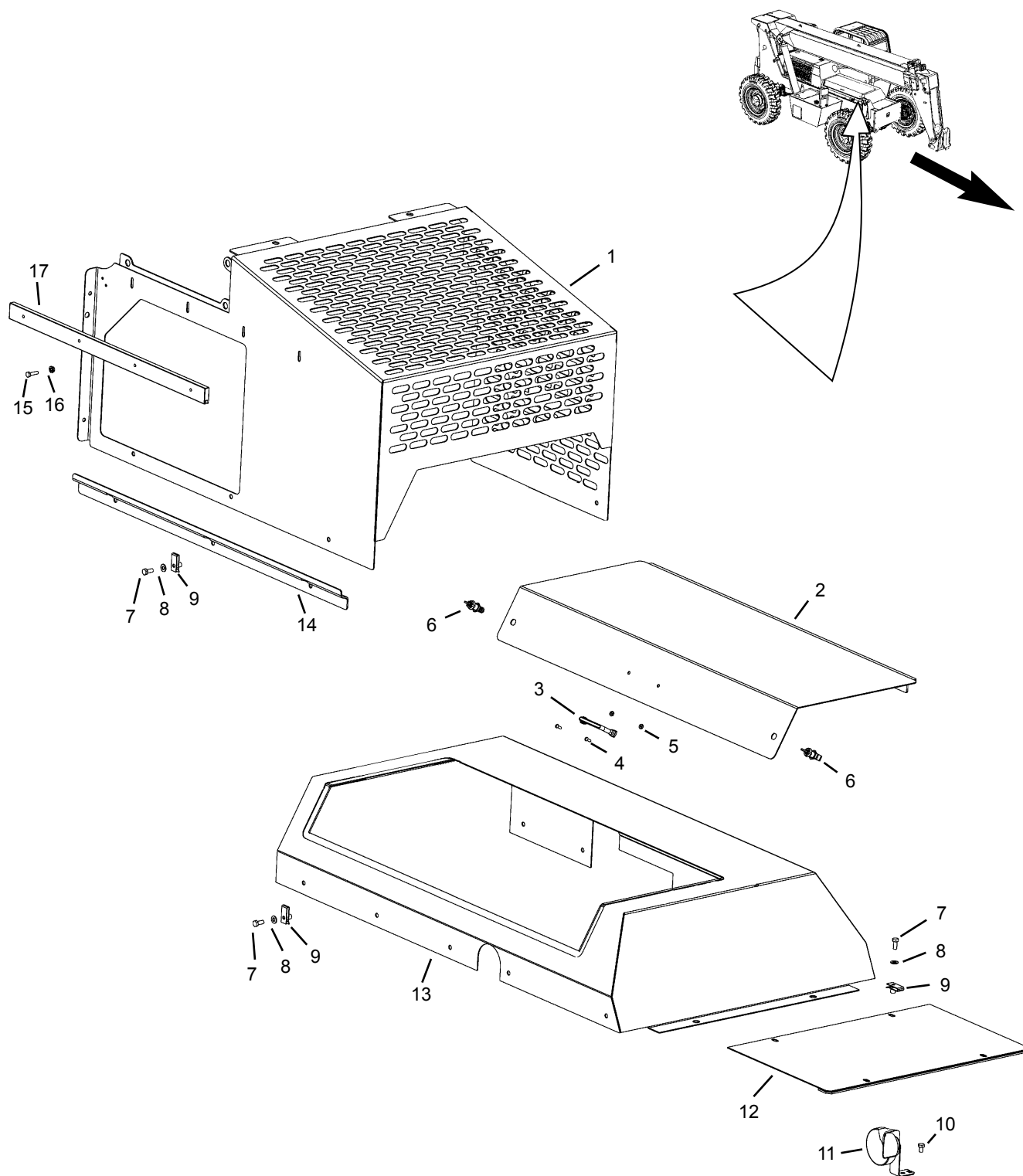
| Ref. No. | Part No. | Description                     | Qty. Req. | Ref. No. | Part No. | Description                                         | Qty. Req. |
|----------|----------|---------------------------------|-----------|----------|----------|-----------------------------------------------------|-----------|
| 01       | 102779   | 1"-8X5-1/2" GR8 BOLT . . . . .  | 1         | 07       | 102883   | 1"-8X3-3/4" GR8 BOLT . . . . .                      | 3         |
| 02       | 651151   | 1" SAE FLAT WASHER . . . . .    | 7         |          |          |                                                     |           |
| 03       | 102741   | RETAINER, CANOPY NUT . . . . .  | 1         |          |          | <b>-- ITEMS NOT SHOWN--</b>                         |           |
| 04       | 102781   | 1"-8 CLASS C LOCK NUT . . . . . | 4         | --       | L63813   | HOLE PLUG, 2-1/2" DIA . . . . .                     | 1         |
| 05       | 101667   | WASHER, CANOPY NUT . . . . .    | 1         |          |          | <i>(plugs hole in cab where side bolt attaches)</i> |           |
| 06       | 650491   | 3/8"-16X1-1/4" BOLT . . . . .   | 2         |          |          |                                                     |           |



## Chassis

## RS Series

### Hoods and Covers - Front-Half



**Telescopic Handler****Chassis*****Hoods and Covers - Front-Half***

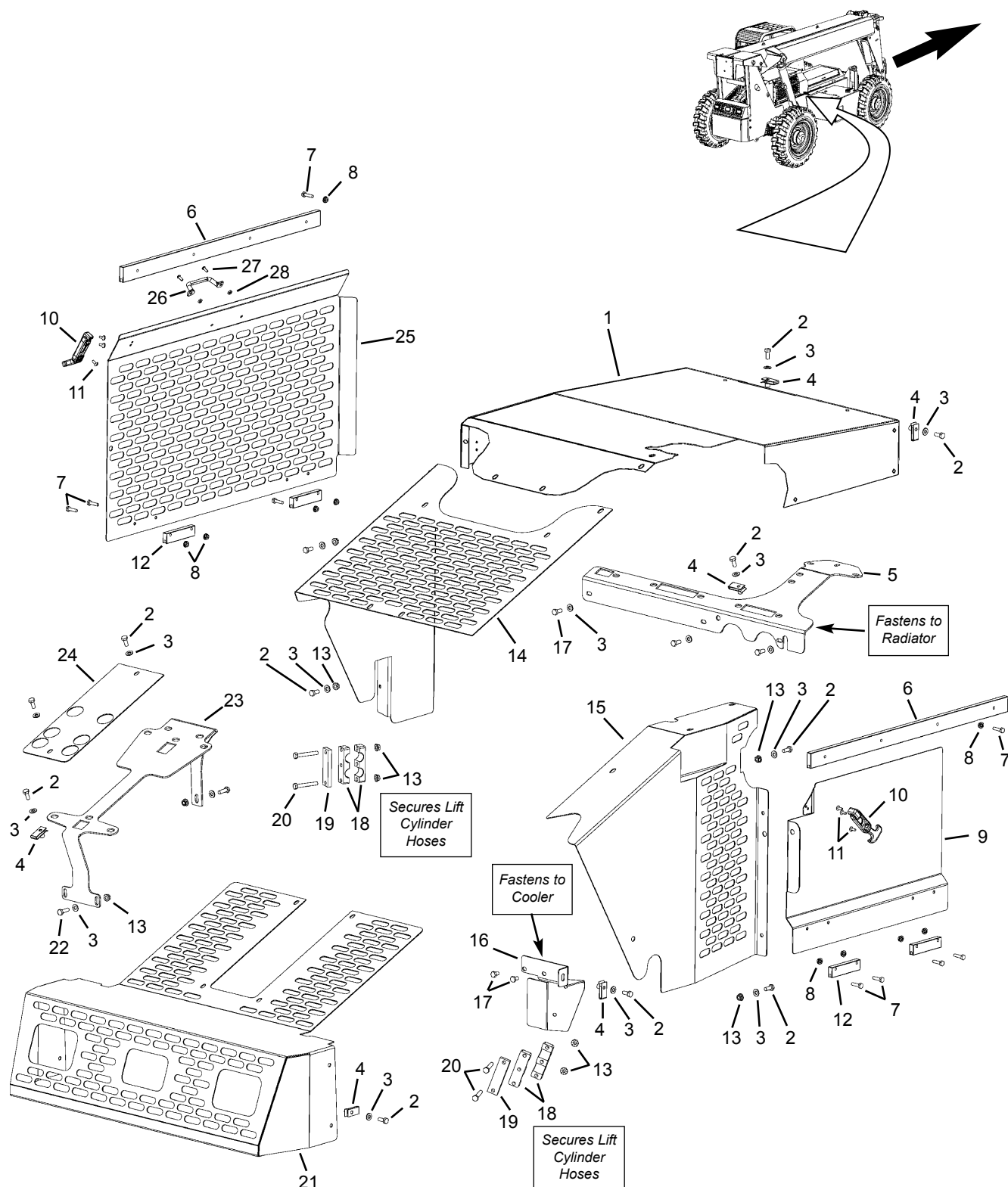
| Ref.<br>No. | Part<br>No. | Description                       | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                                 | Qty.<br>Req. |
|-------------|-------------|-----------------------------------|--------------|-------------|-------------|---------------------------------------------|--------------|
| 01          | 50380280    | HOOD, ENGINE . . . . .            | 1            | 12          |             | COVER, FRONT FRAME . . . . .                | 1            |
| 02          | 50380287    | COVER, ACCESS . . . . .           | 1            |             | 102423      | <i>Note x</i>                               |              |
| 03          | L64673      | HANDLE . . . . .                  | 1            |             | 210764      | <i>Note y</i>                               |              |
| 04          | 650387      | #10-32X1/2" SCREW . . . . .       | 2            | 13          | 50380281    | HOOD, FRONT . . . . .                       | 1            |
| 05          | L50050      | #10-32 NUT . . . . .              | 2            | 14          | 50380150    | SLIDE RAIL . . . . .                        | 1            |
| 06          | 104222      | LATCH . . . . .                   | 2            | 15          | 650835      | CS 1/4"X1" C5ZY . . . . .                   | AR           |
| 07          | 650486      | 5/16"-18X3/4" BOLT . . . . .      | AR           | 16          | L50051      | 1/4" FLANGE LOCK NUT . . . . .              | AR           |
| 08          | 650810      | 5/16" FLAT WASHER . . . . .       | AR           | 17          | L65896      | GUIDE, NYLATRON 28" ( <i>shown</i> ) . .    | 1            |
| 09          | L530004     | 5/16" RETAINED NUT CLIP . . . . . | AR           |             |             | ( <i>An additional guide is used on the</i> |              |
| 10          | 650484      | 5/16"X1/2" BOLT . . . . .         | 1            |             |             | <i>left side—refer to the next page.</i> )  |              |
| 11          | L41847      | HORN, 12 VOLT . . . . .           | 1            |             |             |                                             |              |
|             |             |                                   |              | x           |             | <i>Only RS6-42 and RS8-42/44</i>            |              |
|             |             |                                   |              | y           |             | <i>Only RS10-44/55 and RS12-42</i>          |              |



## Chassis

### Hoods and Covers - Rear-Half

## RS Series





## Chassis

| Ref.<br>No. | Part<br>No. | Description                  | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                  | Qty.<br>Req. |
|-------------|-------------|------------------------------|--------------|-------------|-------------|------------------------------|--------------|
| 01          | 50380285    | HOOD, TOP.....               | 1            | 19          | L63719      | PLATE, TWIN-WIDE TOP.....    | 2            |
| 02          | 650486      | 5/16"X3/4" BOLT.....         | AR           | 20          | 650725      | CS 5/16" x 2-1/4" C5ZY.....  | 4            |
| 03          | 650810      | 5/16" FLAT WASHER.....       | AR           | 21          | 210442      | REAR HOOD.....               | 1            |
| 04          | L530004     | FASTENER, RETAIN NUT.....    | AR           | 22          | 650487      | 5/16"X1" BOLT.....           | AR           |
| 05          | 50380026    | BRACKET, HOOD/RADIATOR.....  | 1            | 23          | 210368      | SUPPORT, REAR COVER.....     | 1            |
| 06          | L65896      | GUIDE, NYLATRON 28".....     | 2            | 24          | 210375      | COVER, MAIN VALVE.....       | 1            |
| 07          | 650835      | CS 1/4"X1" C5ZY.....         | AR           | 25          | 50380143    | ACCESS PANEL, LH.....        | 1            |
| 08          | L50051      | 1/4" FLANGE LOCK NUT.....    | AR           | 26          | L64673      | HANDLE.....                  | 2            |
| 09          | 50380015    | ACCESS PANEL, RH.....        | 1            | 27          | 650387      | #10-32X1/2" SCREW.....       | AR           |
| 10          | 104225      | LATCH, T-HANDLE.....         | 2            | 28          | L50050      | #10-32 NUT.....              | AR           |
| 11          | L50655      | #10-24X1/2" RND HD SCREW.... | 6            |             |             |                              |              |
| 12          | L64695      | SLIDE, NYLATRON 4".....      | 4            |             |             |                              |              |
| 13          | L50056      | 5/16" FLANGE LOCK NUT.....   | AR           |             |             |                              |              |
| 14          | 50380122    | COVER, LEFT SIDE.....        | 1            | --          | L500684     | BOLT, 3/4-10" x 11" GR8..... | AR           |
| 15          | 50380288    | COVER, RIGHT SIDE.....       | 1            | --          | L50084      | NUT, 3/4" STOVER LOCK NUT..  | AR           |
| 16          | 50380126    | BRACKET, COVER.....          | 1            |             |             | (used with 11" bolt)         |              |
|             |             | (Fastens to the radiator.)   |              | --          | 650711      | BOLT, 3/4" X 3" GR5.....     | AR           |
| 17          | 650484      | CS 5/16"x1/2" C5ZY.....      | 5            | --          | 079209      | NUT, 3/4" NYLOCK CZY.....    | AR           |
| 18          | L63720      | CUSHION, HOSE 7/8" TWIN..... | 4            |             |             | (used with 3" bolt)          |              |

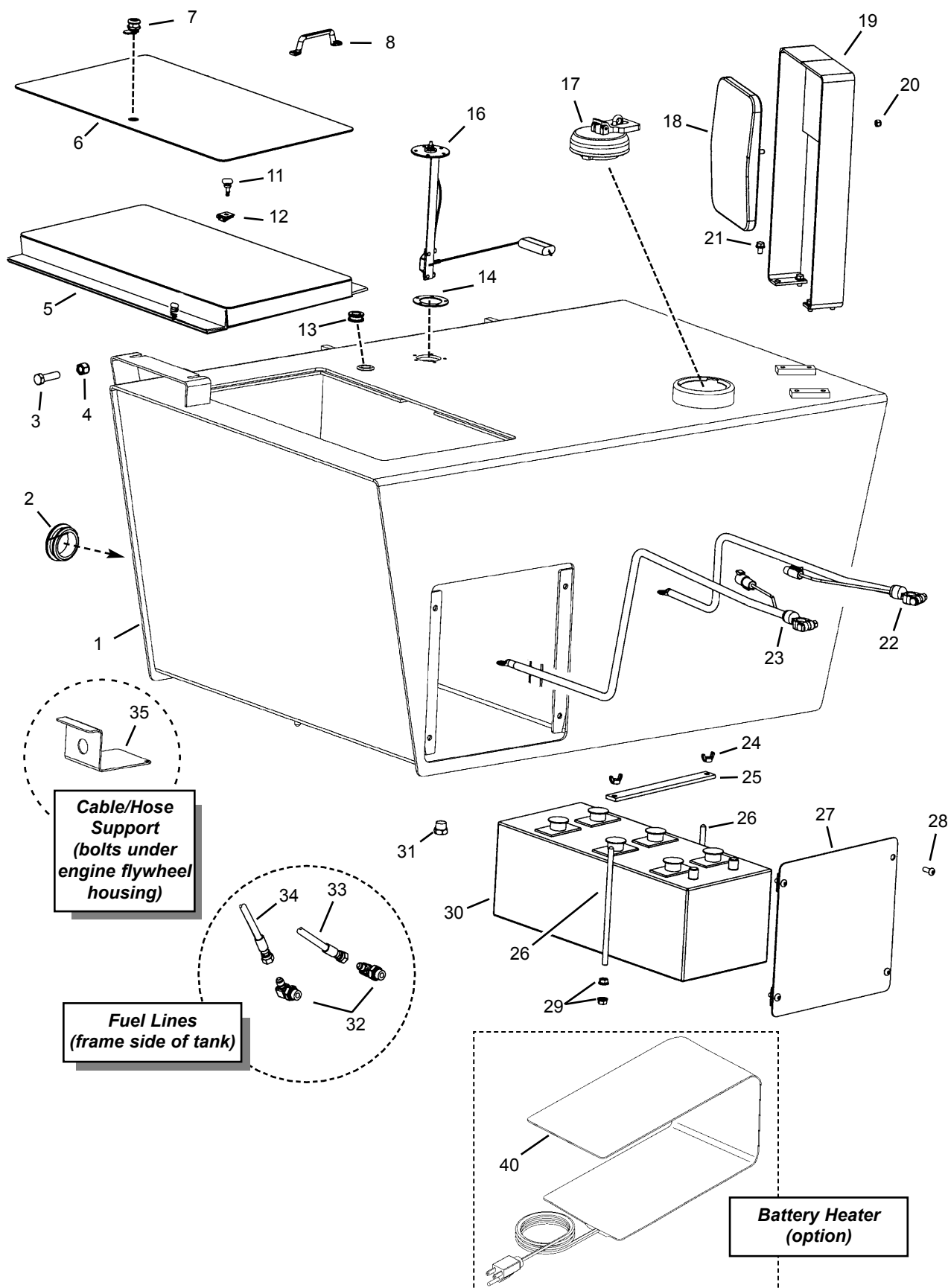




## Chassis

### Fuel Tank and Battery

## RS Series

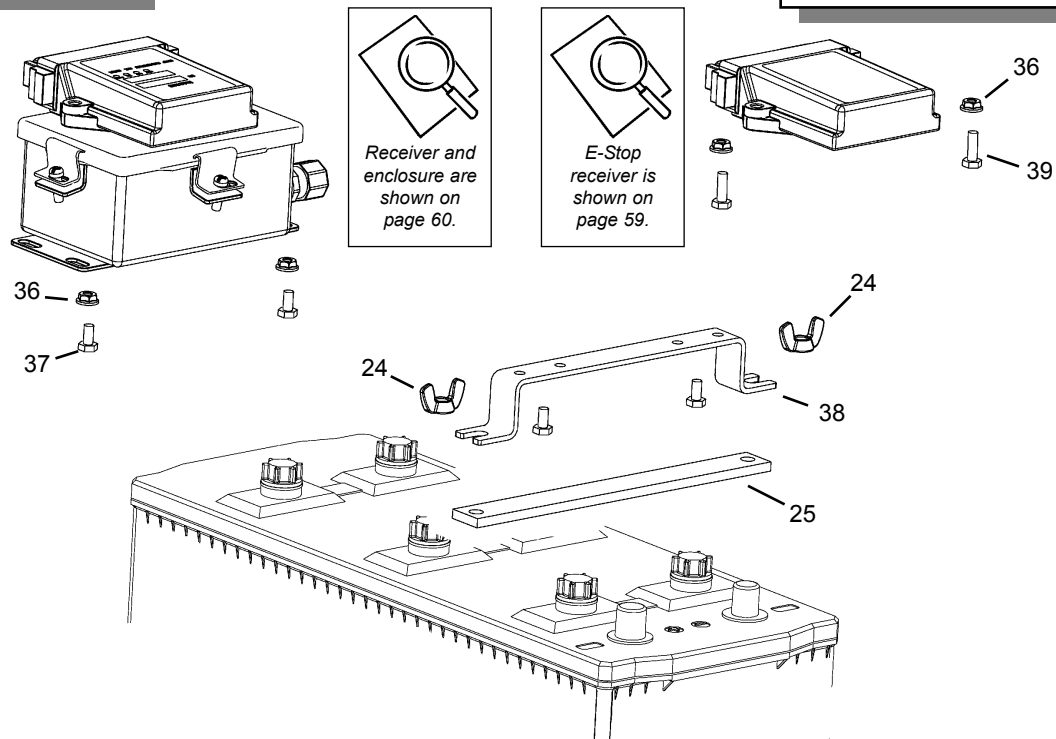




## Telescopic Handler

Chassis  
Fuel Tank and Battery

| Ref. No. | Part No. | Description                             | Qty. Req. | Ref. No. | Part No. | Description                               | Qty. Req. |
|----------|----------|-----------------------------------------|-----------|----------|----------|-------------------------------------------|-----------|
| 01       | 50380276 | WELDMENT, FUEL TANK.....                | 1         | 23       | 210205   | CABLE, POS. BATTERY.....                  | 1         |
| 02       | 101567   | GROMMET, FUEL TANK.....                 | 1         |          | 101960   | POWER PLUG, RECEPTACLE....                | 1         |
| 03       | 650569   | CS 1/2"-13x1-3/4" C5ZY.....             | 6         |          | 101963   | #8 DEUTSCH PIN.....                       | 1         |
| 04       | L520019  | 1/2"-13 NYLON INSERT NUT.....           | 6         | 24       | 653098   | 3/8"-16 WING NUT.....                     | 2         |
| 05       | 103892   | PLATE, TOOLBOX BOTTOM.....              | 1         | 25       | L61117   | BATTERY HOLDDOWN BAR.....                 | 1         |
| 06       | 210782   | TOOLBOX COVER, WELDMENT..               | 1         | 26       | L70146   | ROD, BATTERY HOLDDOWN.....                | 2         |
| 07       | L70225   | CAMLOCK.....                            | 1         | 27       | 101463   | PLATE, BATTERY ACCESS.....                | 1         |
|          | L99157   | KEY ONLY ( <i>stamped CH751</i> )....   | 1         | 28       | L52025   | 5/16"-18x3/4" BHSCS.....                  | 4         |
| 08       | L64673   | HANDLE, HOOD.....                       | 1         | 29       | 090666   | 3/8"-16 FLANGE NUT.....                   | 4         |
|          | 650387   | #10-32x1/2" RND HD SCREW....            | 2         | 30       | NSS      | 12VDC BC1 4DLT BATTERY.....               | 1         |
|          | L50050   | #10-32 NUT.....                         | 2         | 31       | 131529   | ADAP., PLUG -8 O-RING SAE....             | 1         |
| 11       | L68133   | SCREW, CAPTIVE.....                     | 2         | 32       | 110227   | ADAP., -8ORM -6JICM 90°.....              | 2         |
|          | L68134   | SCREW, RETAINER.....                    | 2         | 33       | 50380316 | HOSE, -6 K6/K6 82" ( <i>supply</i> )....  | 1         |
| 12       | L68135   | SCREW, RECEPTACLE.....                  | 2         | 34       | 104114   | HOSE, -4 A6/NONE 100" ( <i>return</i> ).. | 1         |
| 13       | L63546   | GROMMET.....                            | 1         | 35       | 210200   | BRACKET, CABLE/HOSE.....                  | 1         |
| 14       | L41854   | GASKET, SENDER.....                     | 1         |          |          | ( <i>supports fuel lines and cables</i> ) |           |
| 16       | L61867   | SENDER/FUEL LEVEL.....                  | 1         | 36       | L50051   | HN FLOC 1/4".....                         | 2         |
|          |          | ( <i>includes #14 Gasket</i> )          |           | 37       | 650481   | CS 1/4" x 1/2" C5.....                    | 2         |
| 17       | 210722   | CAP/FUEL ASSEMBLY ( <i>vented</i> ).... | 1         | 38       | 103627   | MOUNT, RECEIVER.....                      | 1         |
| 18       | L63756   | MIRROR, 6.5X10 CONVEX.....              | 1         | 39       | 650642   | CS 1/4" x 1" C5.....                      | 2         |
| 19       | 103991   | MIRROR BRACKET.....                     | 1         | 40       | 50381167 | WRAP, BATTERY ( <i>option</i> ).....      | 1         |
| 20       | L520003  | 1/4" NYLON INSERT NUT.....              | 1         |          |          | -- ITEMS NOT SHOWN --                     |           |
| 21       | 081379   | 5/16"x1/2 FLAT LOCK BOLT.....           | 4         | --       | L630003  | RUBBER BOOT, BAT. CABLE.....              | 1         |
| 22       | 101954   | CABLE, NEG. BATTERY.....                | 1         |          |          | ( <i>used on positive battery cable</i> ) |           |
|          | 101961   | POWER PLUG, PLUG.....                   | 1         |          |          |                                           |           |
|          | 101962   | #8 DEUTSCH SOCKET.....                  | 1         |          |          |                                           |           |

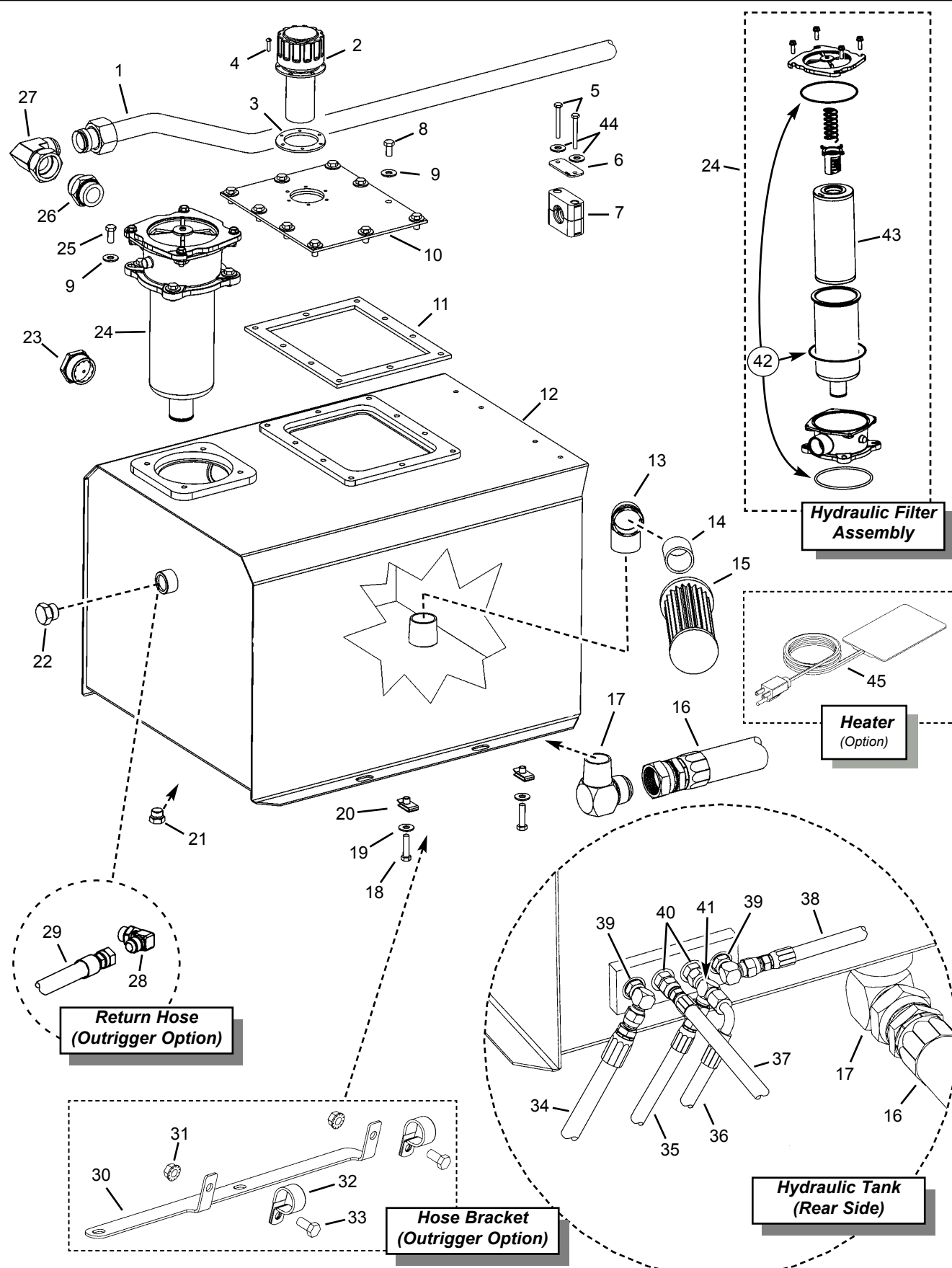
Radio Remote - (Option)  
Early-Style ShownE-Stop - (Option)  
or Late-Style Radio  
Remote Receiver



# Chassis

## Hydraulic Tank

## RS Series





## Telescopic Handler

## Chassis Hydraulic Tank

| Ref. No.        | Part No. | Description                              | Qty. Req. | Ref. No.         | Part No. | Description                                                                                                                      | Qty. Req. |
|-----------------|----------|------------------------------------------|-----------|------------------|----------|----------------------------------------------------------------------------------------------------------------------------------|-----------|
| 01              | 50380024 | HYDRAULIC OIL TUBE ASY. ....             | 1         | 30 <sup>bd</sup> | 210960   | HOSE SUPPORT BRACKET ....                                                                                                        | 1         |
| 02              | P470472  | HYDRAULIC FILL CAP ASY.....              | 1         | 31 <sup>b</sup>  | 090666   | LN FL SERR 3/8" CZY .....                                                                                                        | 2         |
|                 |          | <i>(includes cap, gaskets, and tube)</i> |           | 32 <sup>b</sup>  | L45666   | CLAMP, HOSE 1.00 x 0.41 .....                                                                                                    | 2         |
| 03              | L99163   | GASKET, FILLER NECK.....                 | 2         | 33 <sup>b</sup>  | 650488   | CS 3/8" x 3/4" C5ZY .....                                                                                                        | 2         |
|                 |          | <i>(included with item #2)</i>           |           | 34               | L63383   | HOSE, -6 A6/DS8 52" .....                                                                                                        | 1         |
| 04              | 651201   | RHMS SLT #10-32 x 3/4" FZY ....          | 6         | 35               | L69920   | HOSE, -4 A6/A6 40" .....                                                                                                         | 1         |
| 05              | 650449   | CS 1/4"-20 x 2-1/2" .....                | 2         | 36               | 102843   | HOSE, -4 A6/D6 35" .....                                                                                                         | 1         |
| 06              | 50380146 | PLATE, TOP CUSHION.....                  | 1         | 37               | L69904   | HOSE, 4 A6/DS6 20" .....                                                                                                         | 1         |
| 07              | 50380145 | CLAMP, CUSHION TUBE .....                | 1         | 38               | 102946   | HOSE, -6 A6/DS6 18" .....                                                                                                        | 1         |
| 08              | 650488   | CS 3/8" x 3/4" C5ZY .....                | 10        | 39               | 068938   | ADAP., -6ORM -6JICM 90° .....                                                                                                    | 2         |
| 09              | 654006   | FW 3/8" AWZY .....                       | AR        | 40               | 054994   | ADAP., -6ORM -6JICM STR.....                                                                                                     | 2         |
| 10              | L65142   | ACCESS COVER .....                       | 1         | 41               | 072806   | ADAP., -6 SWIVEL TEE .....                                                                                                       | 1         |
| 11              | L65144   | GASKET .....                             | 1         | 42               | 50380450 | SEAL KIT <i>(includes six o-rings)</i> ...                                                                                       | 1         |
| 12 <sup>c</sup> | 50380089 | HYDRAULIC TANK.....                      | 1         |                  |          | <i>(Earlier units used different o-rings; this kit covers current and early units, discard the o-rings that are not needed.)</i> |           |
| 13              | L72419   | ADAP., 1-1/2" NPT 90° ELBOW ...          | 1         | 43               | L97489   | HYDRAULIC FILTER ELEMENT... ..                                                                                                   | 1         |
| 14              | L61620   | ADAP., 1-1/2" PIPE NIPPLE .....          | 1         | 44               | 650863   | FW 1/4" ANZY .....                                                                                                               | 2         |
| 15              | L49327   | STRAINER, HYD. OIL .....                 | 1         | 45               | 50381156 | HEATER/500W <i>(option)</i> .....                                                                                                | 1         |
| 16              | L63309   | HOSE, -24 A24/A24 35" .....              | 1         |                  |          | <i>(attaches to bottom of hydraulic tank)</i>                                                                                    |           |
| 17              | L442023  | ADAP., -24JICM 24NPTM 90°.....           | 1         |                  |          |                                                                                                                                  |           |
| 18              | 650533   | CS 3/8"-16 x 1-1/2" C5ZY .....           | 4         |                  |          |                                                                                                                                  |           |
| 19              | 654006   | FW 3/8" .....                            | 4         |                  |          |                                                                                                                                  |           |
| 20              | L65211   | 3/8"-16 RETAINED NUT .....               | 4         |                  |          |                                                                                                                                  |           |
| 21              | 131529   | PLUG, -8 O-RING SAE .....                | 1         |                  |          |                                                                                                                                  |           |
| 22 <sup>a</sup> | L446047  | PLUG, -12 O-RING SAE .....               | 1         |                  |          |                                                                                                                                  |           |
| 23              | 134756   | SIGHT GLASS.....                         | 1         |                  |          |                                                                                                                                  |           |
| 24 <sup>e</sup> | 101879   | FILTER, IN-TANK RETURN UHI... ..         | 1         |                  |          |                                                                                                                                  |           |
| 25              | 650489   | CS 3/8" x 7/8" C5Z .....                 | 4         |                  |          |                                                                                                                                  |           |
| 26              | 079038   | ST MJ20-MORB20 .....                     | 1         |                  |          |                                                                                                                                  |           |
| 27              | L60123   | 90 MJ20-FJS20 .....                      | 1         |                  |          |                                                                                                                                  |           |
| 28 <sup>b</sup> | 055005   | ADAP., -12ORM -12JICM 90° .....          | 1         |                  |          |                                                                                                                                  |           |
| 29 <sup>b</sup> | 104092   | HOSE, -12 A12/DS12 23" .....             | 1         |                  |          |                                                                                                                                  |           |

### -- ITEMS NOT SHOWN -- (Located Inside Hydraulic Tank)

- a Units not equipped with outriggers.
- b Units equipped with outriggers.
- c Includes items 13, 14, and 15.
- d Used to support the hose from the main control "IN" port.
- e Refer to "Hydraulic Filter Assembly" inset on facing page for a listing of components included.

## HOSE LOCATOR

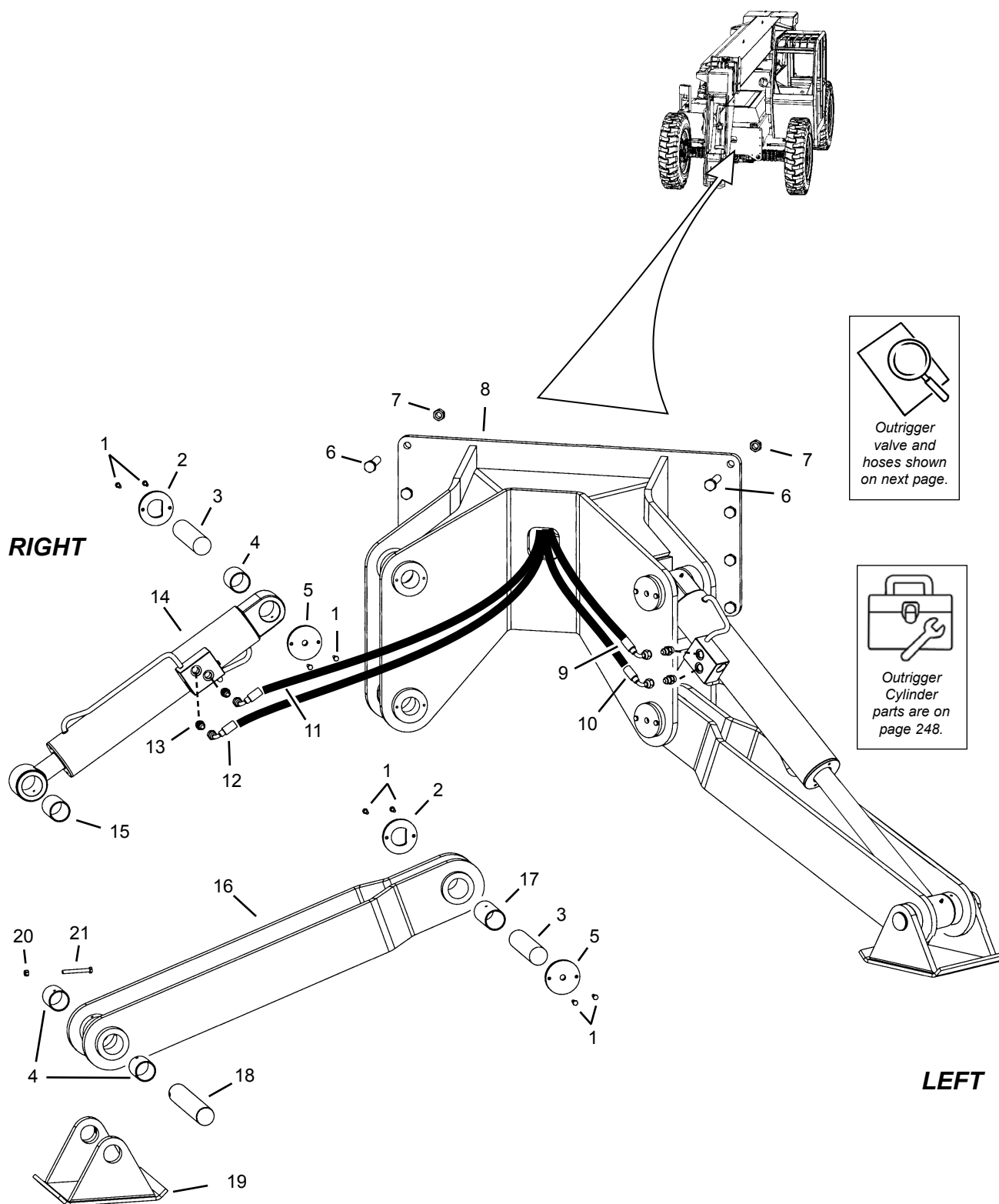
|    |                                                |                                              |
|----|------------------------------------------------|----------------------------------------------|
| 01 | HYDRAULIC TUBE <i>(from hydraulic filter)</i>  | HYD. COOLER "UPPER"                          |
| 16 | HYDRAULIC TANK <i>(bottom)</i>                 | HYDRAULIC PUMP "IN"                          |
| 29 | HYDRAULIC TANK RETURN <i>(front)</i>           | OUTRIGGER VALVE "T"                          |
| 34 | HYDRAULIC TANK RETURN <i>(return manifold)</i> | STEER MOTOR "T"                              |
| 35 | HYDRAULIC TANK RETURN <i>(return manifold)</i> | BRAKE BOOSTER CYLINDER                       |
| 36 | HYDRAULIC TANK RETURN <i>(return manifold)</i> | JOYSTICK <i>(lift/extend controller)</i> "T" |
| 37 | HYDRAULIC TANK RETURN <i>(return manifold)</i> | PRIORITY VALVE "T"                           |
| 38 | HYDRAULIC TANK RETURN <i>(return manifold)</i> | FLOW DIVIDER "T"                             |



# Chassis

## Outriggers - Option

# RS Series

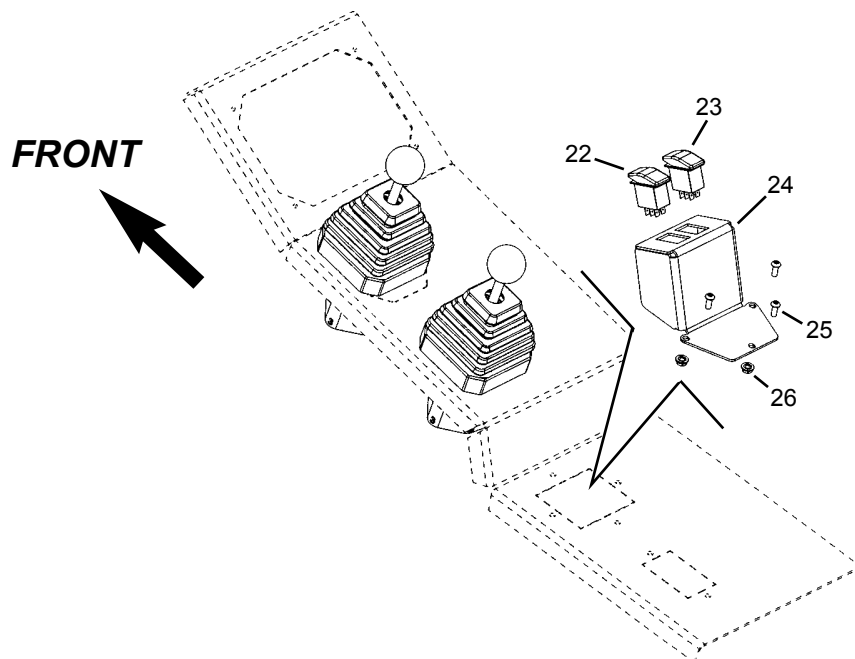




# Telescopic Handler

## Chassis Outriggers - Option

| Ref. No. | Part No. | Description                                      | Qty. Req. | Ref. No.                     | Part No. | Description                          | Qty. Req. |
|----------|----------|--------------------------------------------------|-----------|------------------------------|----------|--------------------------------------|-----------|
| 01       | 650486   | 5/16"-18x3/4" BOLT . . . . .                     | 16        | 17                           | L70614   | BUSHING . . . . .                    | 2         |
| 02       | L69725   | CAP, PIN LOCK . . . . .                          | 4         | 18                           | L64963   | PIN, PIVOT . . . . .                 | 2         |
| 03       | L70621   | PIN, PIVOT . . . . .                             | 4         | 19                           | L64914   | WLDMNT, OUTRIGGER PAD . . . . .      | 2         |
| 04       | L69138   | BUSHING . . . . .                                | 6         | 20                           | L520005  | 3/8"-16 CNTR LOCK NUT . . . . .      | 2         |
| 05       | L69724   | CAP, PIVOT PIN . . . . .                         | 4         | 21                           | 650818   | 3/8"-16X3" BOLT . . . . .            | 2         |
| 06       | L50385   | 3/4"-10X3" BOLT GR8 . . . . .                    | 8         | 22                           | L71072   | SWITCH, LEFT OUTRIGGER . . . . .     | 1         |
| 07       | L50084   | 3/4"-10 STOVER LOCK NUT "C" . . . . .            | 8         | 23                           | L71073   | SWITCH, RIGHT OUTRIGGER . . . . .    | 1         |
| 08       | 102566   | WLDMNT, OUTRIGGER MNT. . . . .                   | 1         | 24                           | 210761   | MOUNT, OUTRIGGER SWITCH. . . . .     | 1         |
| 09       | L68807   | HOSE, -6 A8/DS8 54" ( <i>extend</i> ) . . . . .  | 1         | 25                           | L50202   | 1/4"X5/8" BUTTON HEAD BOLT . . . . . | 3         |
| 10       | L68807   | HOSE, -6 A8/DS8 54" ( <i>retract</i> ) . . . . . | 1         | 26                           | L50051   | 1/4" FLANGE LOCK NUT . . . . .       | 3         |
| 11       | L68807   | HOSE, -6 A8/DS8 54" ( <i>extend</i> ) . . . . .  | 1         | <b>-- ITEMS NOT SHOWN --</b> |          |                                      |           |
| 12       | L68807   | HOSE, -6 A8/DS8 54" ( <i>retract</i> ) . . . . . | 1         |                              |          |                                      |           |
| 13       | 054626   | ADAP., -8ORM -8JICM STR . . . . .                | 4         | --                           | L10465   | ZERK, GREASE 1/4"-28 STR . . . . .   | AR        |
| 14       | L70616   | CYLINDER, OUTRIGGER. . . . .                     | 2         | <b>(Wire Harness)</b>        |          |                                      |           |
| 15       | L70618   | BUSHING . . . . .                                | 2         |                              |          |                                      |           |
| 16       | L70615   | WLDMNT, OUTRIGGER LEG . . . . .                  | 2         | --                           | 210723   | WIRE HARNESS, OUTRIGGERS. . . . .    | 1         |

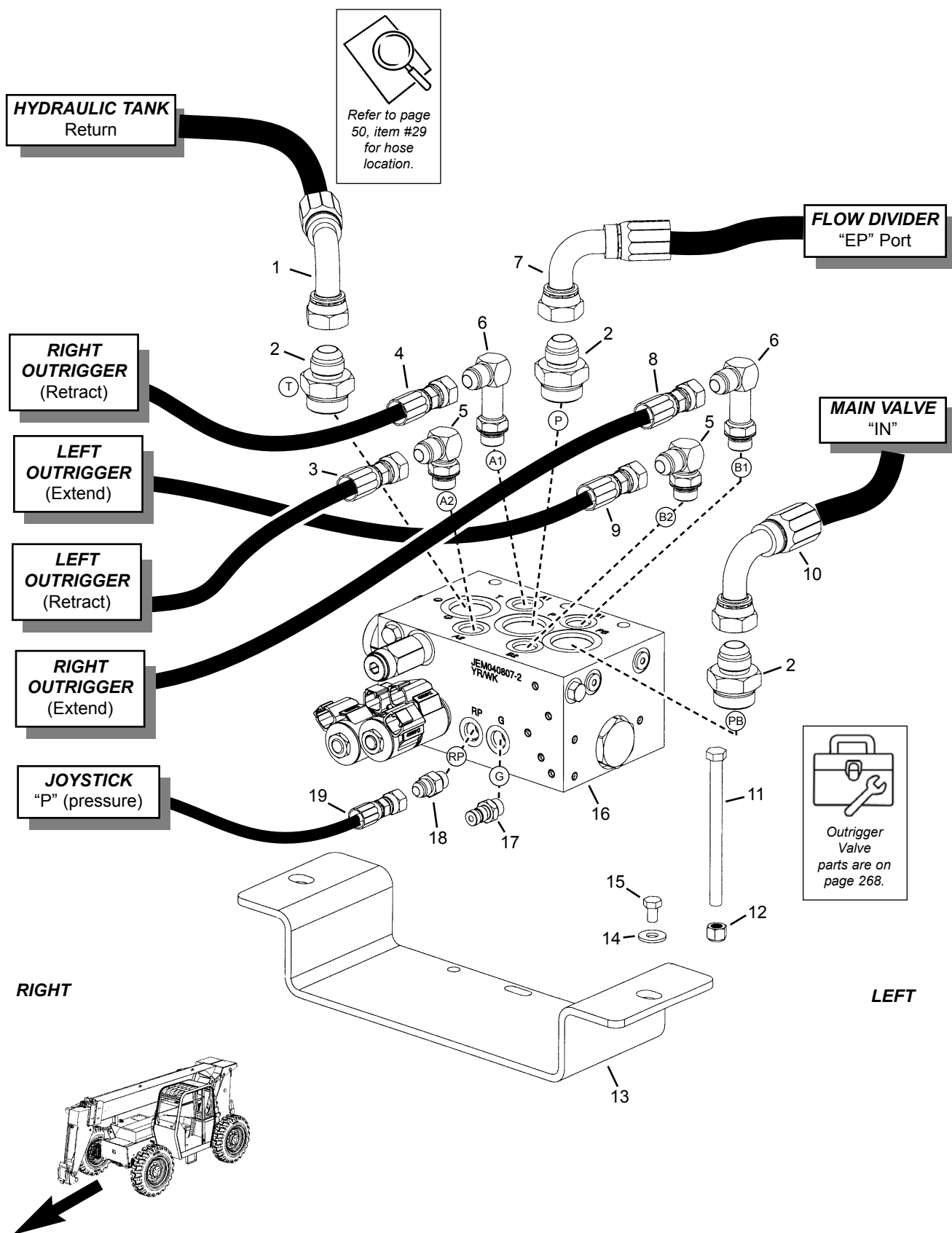




## Chassis

### Outrigger Valve - Option

## RS Series







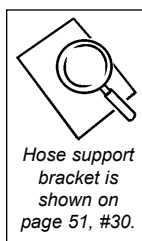
## Telescopic Handler

## Chassis

### Outrigger Valve - Option

| Ref. No.        | Part No. | Description                       | Qty. Req. | Ref. No. | Part No. | Description                     | Qty. Req. |
|-----------------|----------|-----------------------------------|-----------|----------|----------|---------------------------------|-----------|
| 01              | 104092   | HOSE, -12 A12/DS12 23" . . . . .  | 1         | 13       | 210727   | MOUNT, OUTRIGGER VALVE . . . .  | 1         |
| 02              | 121774   | ADAP., -16ORM -12JICM STR . . . . | 3         | 14       | 654004   | 5/16" FLAT WASHER . . . . .     | 2         |
| 03              | L68807   | HOSE, -6 A8/DS8 54" . . . . .     | 1         | 15       | 650484   | 5/16"-18X1/2" BOLT . . . . .    | 2         |
| 04              | L68807   | HOSE, -6 A8/DS8 54" . . . . .     | 1         | 16       | 210716   | VALVE, OUTRIGGER . . . . .      | 1         |
| 05              | 054816   | ADAP., -8ORM -8JICM 90° . . . . . | 2         | 17       | P471997  | TEST PORT. . . . .              | 1         |
| 06              | 126862   | ADAP., -8ORM -8JICM LONG 90° . .  | 2         | 18       | 054994   | ADAP., -6ORM -6JICM STR . . . . | 1         |
| 07              | 102814   | HOSE, -12 A12/DS12 74" . . . . .  | 1         | 19       | L68810   | HOSE, -4 A6/A6 96" . . . . .    | 1         |
| 08              | L68807   | HOSE, -6 A8/DS8 54" . . . . .     | 1         |          |          |                                 |           |
| 09              | L68807   | HOSE, -6 A8/DS8 54" . . . . .     | 1         |          |          | <b>-- (ITEMS NOT SHOWN) --</b>  |           |
| 10 <sup>a</sup> | 210799   | HOSE, -12 H12/DS12 40" . . . . .  | 1         | 25       | 210723   | WIRE HARNESS, OUTRIGGERS. . .   | 1         |
| 11              | 650730   | 3/8"-16X5" BOLT . . . . .         | 3         |          |          |                                 |           |
| 12              | L520005  | 3/8"-16 LOCK NUT . . . . .        | 3         |          |          |                                 |           |

*a Hose is supported near the hydraulic tank with bracket P/N 210960.*

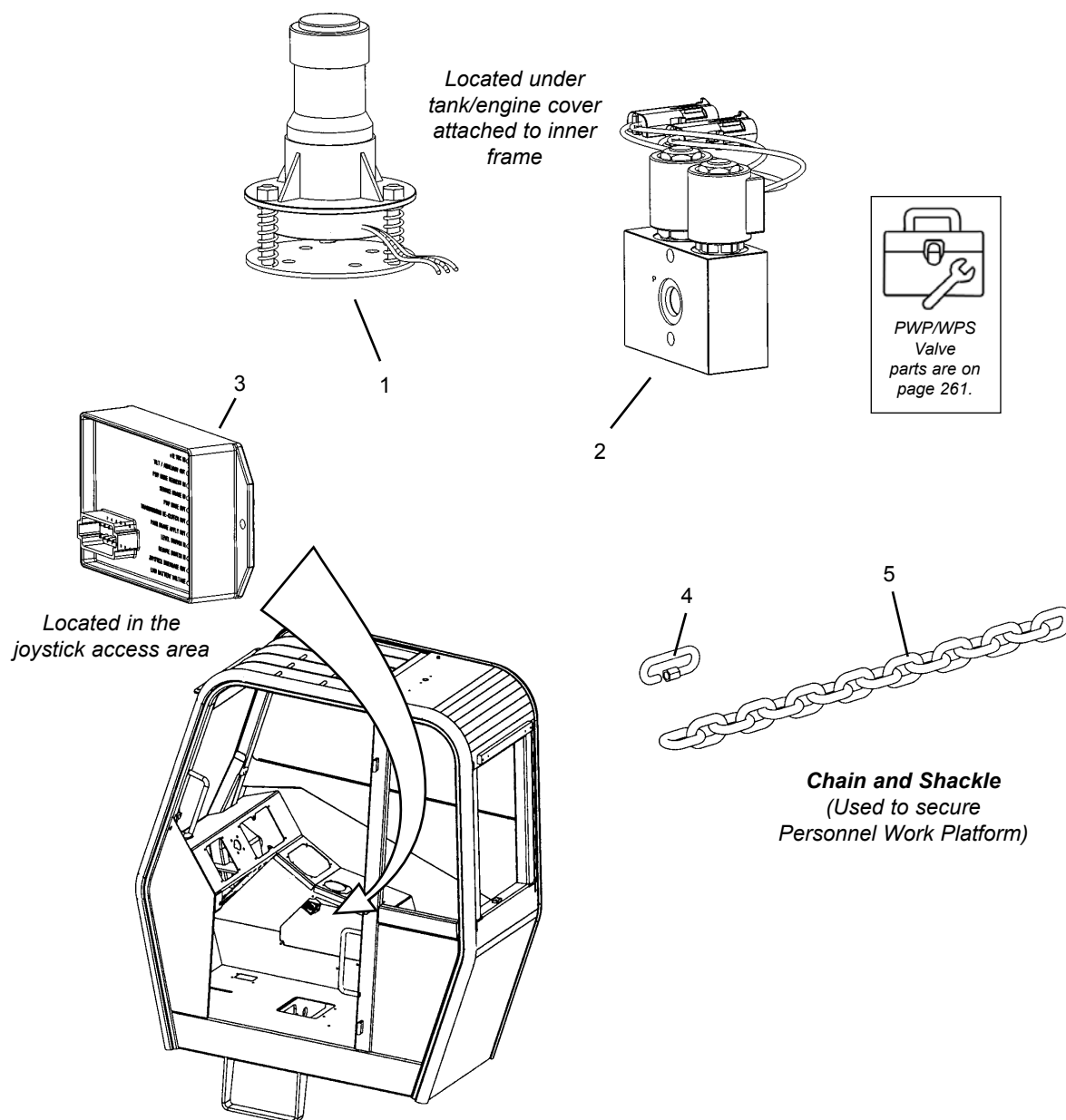






## PWP Chassis Components

## RS Series





# Telescopic Handler

# PWP

## Chassis Components

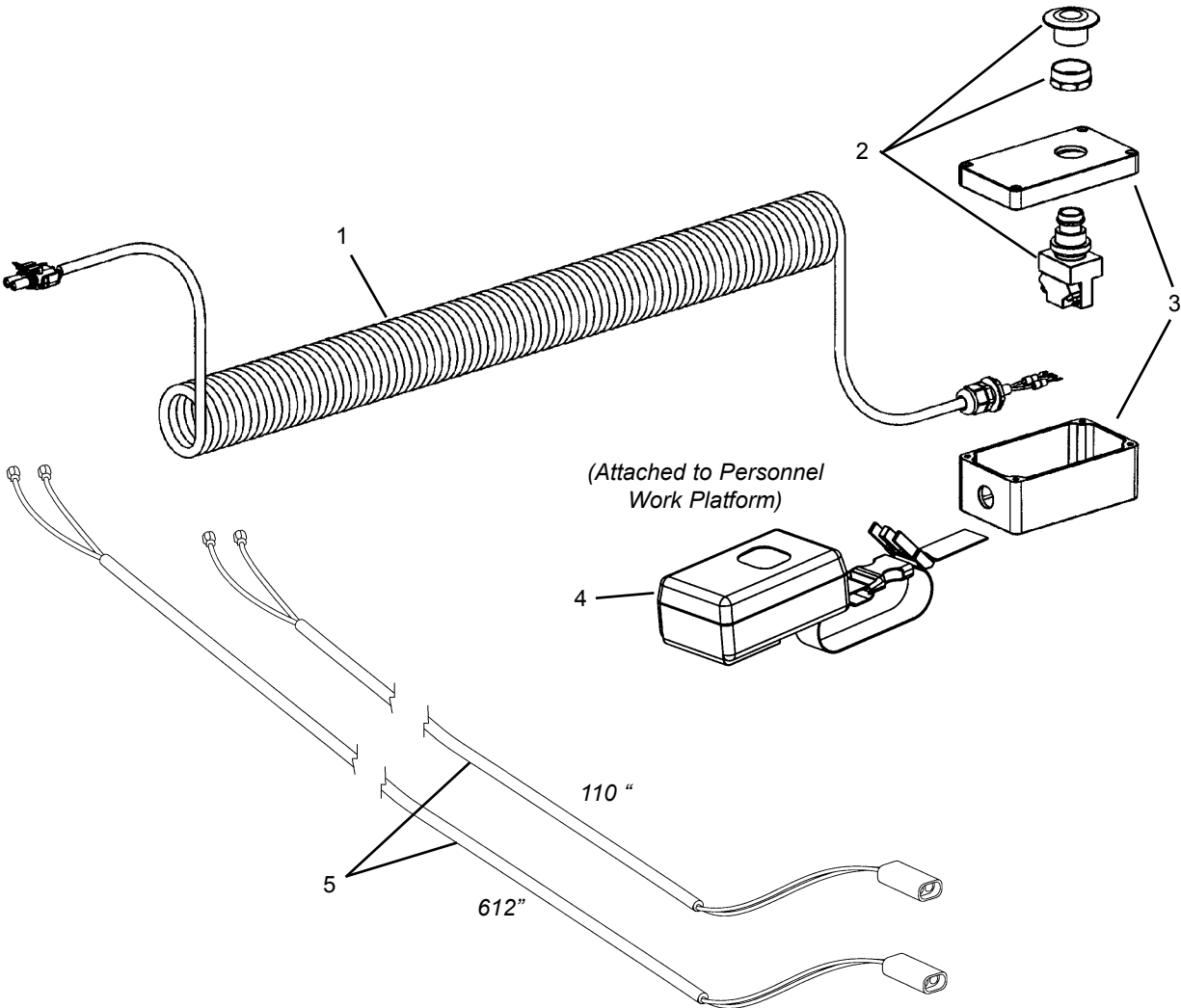
| Ref. No.        | Part No. | Description                     | Qty. Req. | Ref. No.                     | Part No. | Description                      | Qty. Req. |
|-----------------|----------|---------------------------------|-----------|------------------------------|----------|----------------------------------|-----------|
| 01              | 50381128 | KIT, LEVEL SENSOR . . . . .     | 1         | <b>-- ITEMS NOT SHOWN --</b> |          |                                  |           |
| 02              | 102321   | PWP/WPS VALVE . . . . .         | 1         | --                           | L71691   | PWP/WPS SWITCH . . . . .         | 1         |
| 03              | 104078   | PWP/WPS CONTROL MODULE . .      | 1         |                              |          | (located on dash)                |           |
| 04 <sup>a</sup> | L71752   | 5/16" CHAIN SHACKLE . . . . .   | 1         | --                           | 104064   | PWP/WPS WIRE HARNESS . . . .     | 1         |
| 05 <sup>a</sup> | L71751   | 5/16" CHAIN GR40 16 LINKS . . . | 1         |                              |          | (under dash and to level sensor) |           |

*a Chain shackle and chain are used to secure the Personnel Work Platform.*



**PWP**  
**Components (Three-Section Boom)**

**RS Series**

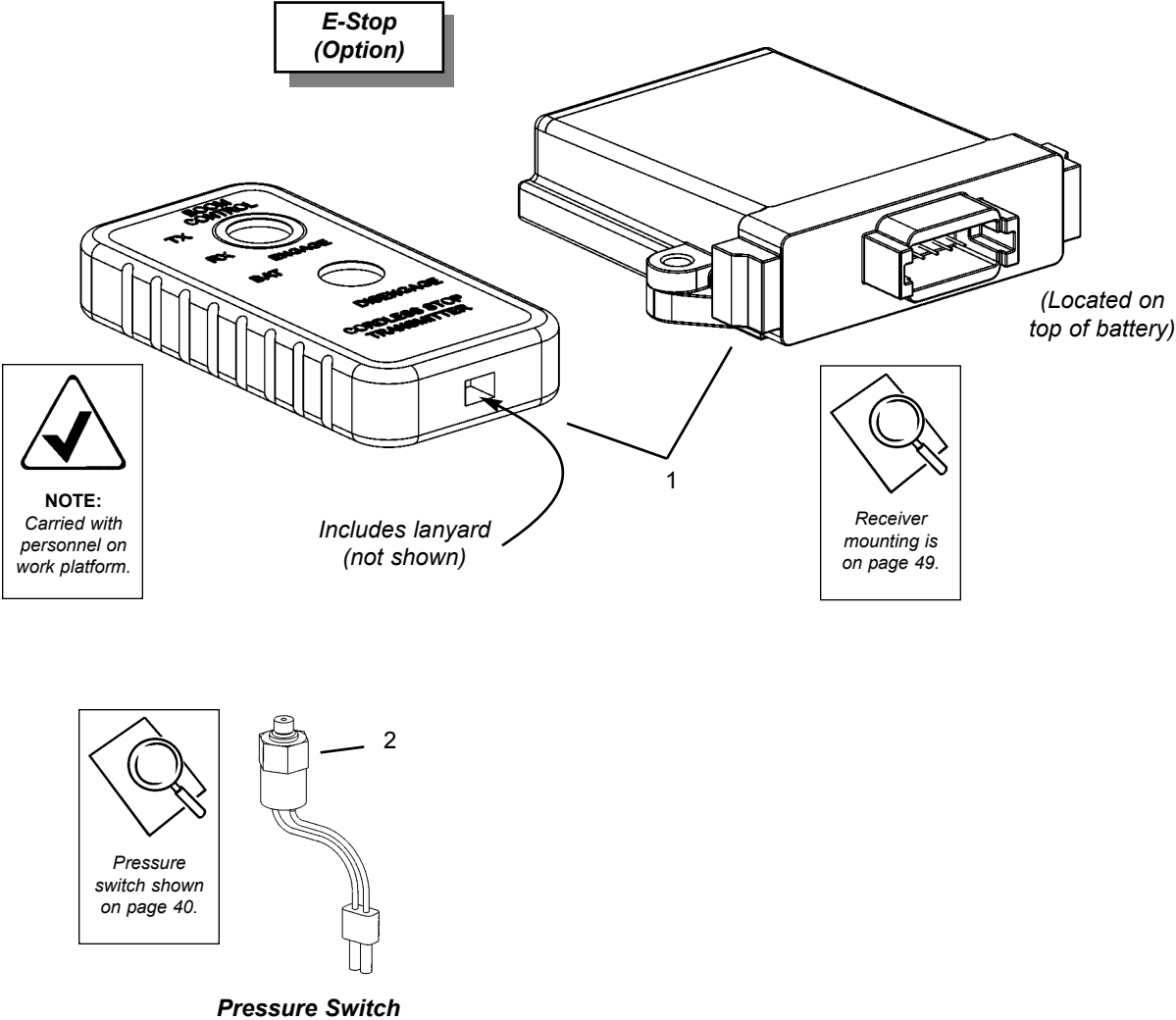


| Ref. No. | Part No. | Description                                             | Qty. Req. | Ref. No. | Part No. | Description                                                 | Qty. Req. |
|----------|----------|---------------------------------------------------------|-----------|----------|----------|-------------------------------------------------------------|-----------|
| --       | L71729   | REMOTE SWITCH W/CABLE. . . . . 1<br>(Includes item 1-3) |           | 03       | L71725   | REMOTE SWITCH ENCLOSURE. . 1                                |           |
| 01       | 102408   | CABLE ASSEMBLY. . . . . 1                               |           | 04       | L71750   | REMOTE SWITCH POUCH . . . . . 1                             |           |
| 02       | L71726   | REMOTE STOP SWITCH. . . . . 1                           |           | 05       | L71732   | REMOTE SWITCH HARNESS . . . . 1<br>(Consists of two cables) |           |



# Telescopic Handler

## PWP Components (Four-Section Boom)



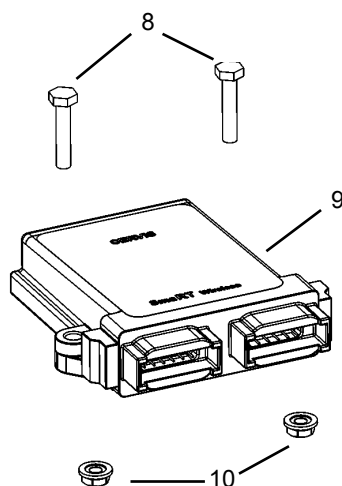
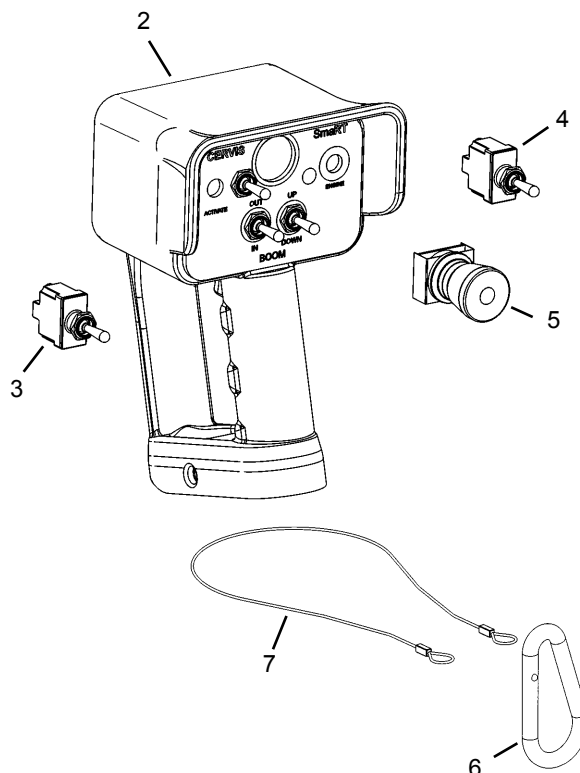
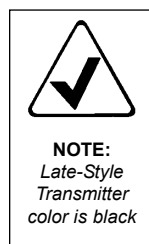
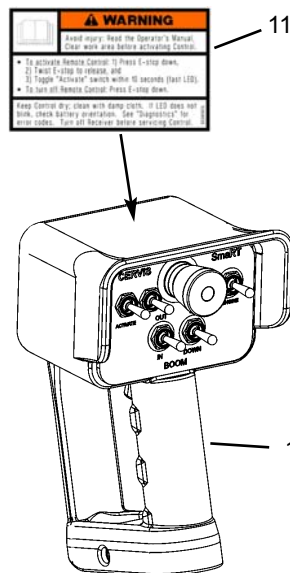
| Ref. No.        | Part No. | Description                                                   | Qty. Req. | -- ITEMS NOT SHOWN -- |                                                                                                          |
|-----------------|----------|---------------------------------------------------------------|-----------|-----------------------|----------------------------------------------------------------------------------------------------------|
| 01 <sup>a</sup> | 50380625 | SYSTEM/RADIO E-STOP . . . . . 1<br>(Transmitter and Receiver) | 1         | --                    | 102655 RADIO REMOTE HARNESS . . . . . 1<br>(E-Stop receiver)                                             |
| 02              | L70415   | PRESSURE SWITCH . . . . . 1                                   | 1         | a                     | The transmitter and receiver are frequency-matched; therefore, it is required to purchase both as a set. |
|                 |          |                                                               |           | b                     | Chain shackle and chain are used to secure the Personnel Work Platform to the carrier attachment.        |



# Personnel Work Platform

# RS Series

## Radio Remote (Option) - Transmitter and Receiver - (Late Style)



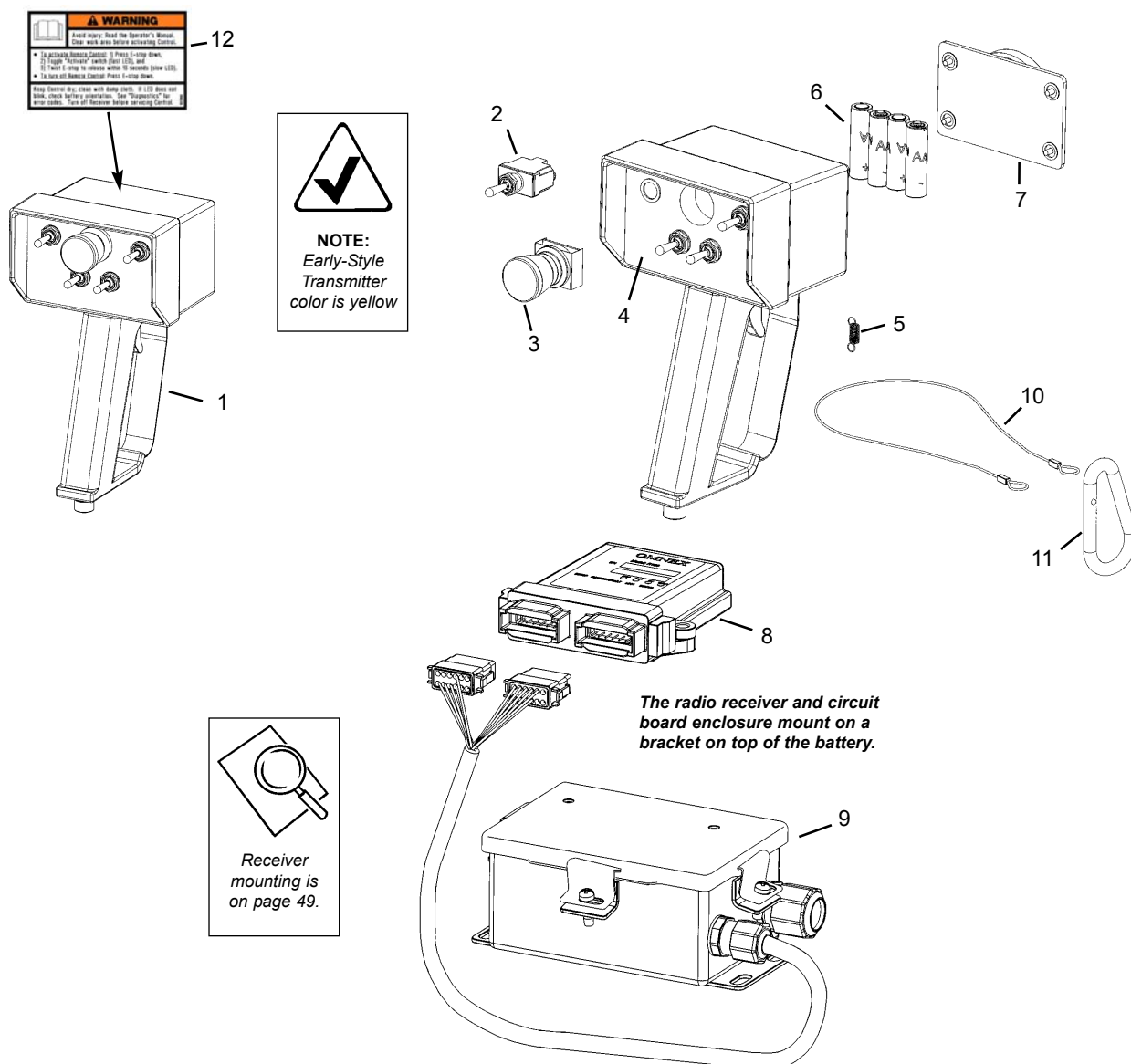
The radio receiver mounts on a bracket on top of the battery.

| Item No.        | Part No. | Description                      | Qty. Req. | Item No. | Part No. | Description                                                                                                                                                                      | Qty. Req. |
|-----------------|----------|----------------------------------|-----------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| --              | 50380274 | RADIO REMOTE, SYSTEM . . . . .   | 1         | 10       | L50051   | 1/4" WHIZNUT . . . . .                                                                                                                                                           | 2         |
|                 |          | (Includes all items shown)       |           | 11       | 50380825 | DECAL, REMOTE TRANSMITTER. 1                                                                                                                                                     |           |
| 01 <sup>a</sup> | 50220629 | REMOTE TRANSMITTER. . . . .      | 1         |          |          | (not included with item 1)                                                                                                                                                       |           |
| 02              | NSS      | HOUSING . . . . .                | 1         |          |          | -- ITEMS NOT SHOWN --                                                                                                                                                            |           |
| 03              | 50220628 | SWITCH, TOGGLE 2-POS. . . . .    | 1         | --       | 103099   | FUSE, MINI 15 AMP . . . . .                                                                                                                                                      | 1         |
| 04              | 50220627 | SWITCH, TOGGLE 3-POS. . . . .    | 4         | --       | 50380175 | HARNESS, RADIO REMOTE . . . . .                                                                                                                                                  | 1         |
| 05              | 50220626 | BUTTON, RADIO E-STOP . . . . .   | 1         | --       | 50380838 | DECAL, REMOTE SYS. WARN. . . . .                                                                                                                                                 | 1         |
| 06              | 103476   | SNAP RING, LANYARD . . . . .     | 1         |          |          |                                                                                                                                                                                  |           |
| 07              | 103475   | LANYARD (wire cable) . . . . .   | 1         |          |          |                                                                                                                                                                                  |           |
| 08              | 650426   | 1/4"X1-1/4" BOLT . . . . .       | 2         |          |          |                                                                                                                                                                                  |           |
| 09              | 50220630 | RECEIVER, RADIO REMOTE . . . . . | 1         | a        |          | Requires programming; refer to Radio Remote Operator's Manual and Parts Manual (50960060), included with the Radio Remote Control at the time of purchase, for more information. |           |

## Telescopic Handler

## Personnel Work Platform

### ***Radio Remote (Option) - Transmitter and Receiver - (Early Style)***



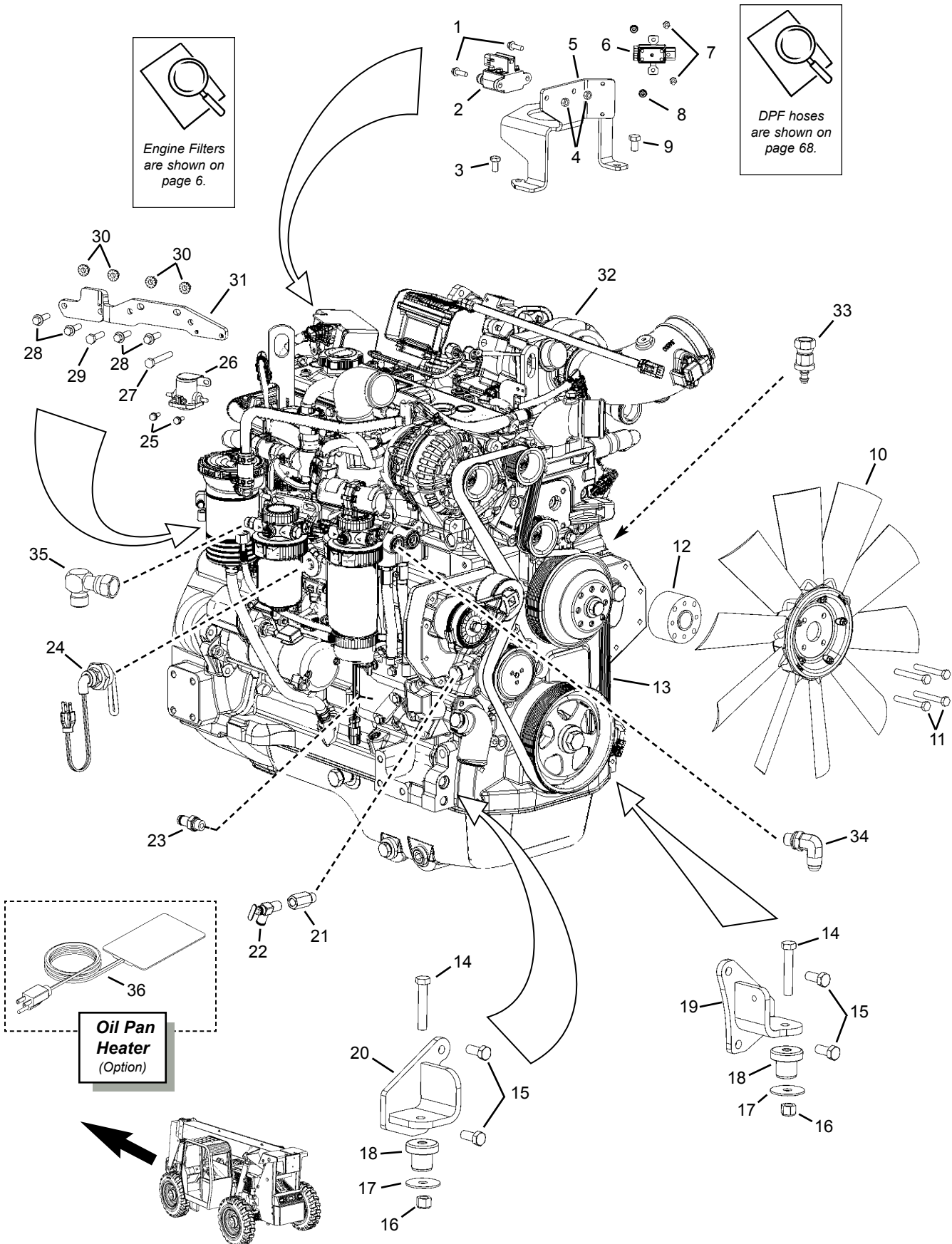
| Item No.        | Part No. | Description                               | Qty. Req. | Item No. | Part No. | Description                                               | Qty. Req. |
|-----------------|----------|-------------------------------------------|-----------|----------|----------|-----------------------------------------------------------|-----------|
| --              | 103744   | RADIO REMOTE, COMPLETE. . . . .           | 1         | 12       | 102968   | DECAL, REMOTE TRANSMITTER. 1                              | 1         |
|                 |          | <i>(Includes all items shown)</i>         |           |          |          | <i>(not included with item 1)</i>                         |           |
| 01 <sup>a</sup> | 103479   | REMOTE TRANSMITTER. . . . .               | 1         |          |          |                                                           |           |
| 02              | 103482   | SWITCH, TOGGLE 3 POS. MIL . . .           | 4         |          |          | <b>-- ITEMS NOT SHOWN --</b>                              |           |
| 03              | 210867   | SWITCH, E-STOP <i>(push-button)</i> . . . | 1         | --       | 103099   | FUSE, MINI 15 AMP . . . . .                               | 1         |
| 04              | 104675   | LABEL <i>(not shown-switch functions)</i> | 1         | --       | 103424   | HARNESS, RADIO REMOTE . . . . .                           | 1         |
| 05              | 106965   | SPRING, TRIGGER. . . . .                  | 1         |          |          | <i>(Connects to existing PWP wire</i>                     |           |
| 06              | NSS      | AA BATTERY. . . . .                       | 4         |          |          | <i>harness.)</i>                                          |           |
| 07              | 50220061 | COVER w/MAGNET & SCREWS . .               | 1         |          |          |                                                           |           |
| 08              | 103480   | REMOTE RECEIVER . . . . .                 | 1         | a        |          | <i>Requires programming; refer to Radio Remote</i>        |           |
| 09              | 210777   | ENCLOSURE / CIRCUIT BOARD. .              | 1         |          |          | <i>Operator's Manual an Parts Manual (913236),</i>        |           |
|                 |          | <i>(includes wire harness)</i>            |           |          |          | <i>included with the Radio Remote Control at the time</i> |           |
| 10              | 103475   | LANYARD <i>(wire cable)</i> . . . . .     | 1         |          |          | <i>of purchase, for more information.</i>                 |           |
| 11              | 103476   | SNAP RING, LANYARD . . . . .              | 1         |          |          |                                                           |           |



# Engine

## External Components

# RS Series



## Telescopic Handler

## Engine

### *External Components*

| Ref. No.        | Part No. | Description                                   | Qty. Req. | Ref. No. | Part No. | Description                                   | Qty. Req. |
|-----------------|----------|-----------------------------------------------|-----------|----------|----------|-----------------------------------------------|-----------|
| 01              | 651695   | CS FL M801.25x25 C8.8 ZY . . . . .            | 2         | 24       | L65570   | ENGINE BLOCK HEATER . . . . .                 | 1         |
| 02 <sup>a</sup> | NSS      | SENSOR, DELTA PRESSURE . . . . .              | 1         | 25       | 072916   | CS FL LOCK 1/4x3/4 C5ZY . . . . .             | 2         |
| 03              | 656006   | CS M10-1.5x20 C8.8 ZY . . . . .               | 1         | 26       | L41179   | RELAY, ENGINE STARTER . . . . .               | 1         |
| 04              | 656048   | HN M8-1.25 C8 ZY . . . . .                    | 2         | 27       | 656131   | CS M10-1.5x80 C8.8 . . . . .                  | 1         |
| 05              | 50380239 | BRACKET, DELTA PRESSURE . . . . .             | 1         | 28       | 651698   | CS FL M10-1.50x35 C8.8 . . . . .              | 4         |
| 06 <sup>a</sup> | NSS      | SENSOR, BLOCK TEMP. . . . .                   | 1         | 29       | 656010   | CS M10-1.5x40 C8.8 ZY . . . . .               | 1         |
| 07              | 650663   | CS 1/4x5/8 C5ZY . . . . .                     | 2         | 30       | 071043   | LN SER FL M10-1.50 C10 ZY . . . . .           | 4         |
| 08              | L50051   | FLANGE LOCK NUT, 1/4-20 . . . . .             | 2         | 31       | 50380094 | BRACKET, FUEL FILTER MOUNT . . . . .          | 1         |
| 09              | 651404   | CS M12-1.75x20 C8.8 ZY . . . . .              | 1         | 32       | NSS      | ENGINE, 4045HFC92 . . . . .                   | 1         |
| 10              | 104454   | FAN, SUCTION 22" . . . . .                    | 1         | 33       | 50380518 | ST FFS04 HBO4-PUSHLOK . . . . .               | 1         |
| 11              | 656117   | CS M10-1.5x75 C8.8 . . . . .                  | 4         |          |          | <i>(used w/inj. pump fuel return hose)</i>    |           |
| 12              | L70521   | SPACER, FAN 2" . . . . .                      | 1         | 34       | 50300778 | ADAP., 90 MJ06-MMA12 . . . . .                | 1         |
| 13              |          | FAN BELT . . . . .                            | 1         | 35       | 210047   | ADAP., -6MFS -6FFSS 90° . . . . .             | AR        |
|                 | 50220187 | <i>(Standard)</i>                             |           | 36       | 50381157 | HEATER/250W <i>(option)</i> . . . . .         | 1         |
|                 | 50220188 | <i>(A/C equipped)</i>                         |           |          |          | <i>(attaches to bottom of engine oil pan)</i> |           |
| 14              | 650695   | 5/8"-11X3-1/2" BOLT . . . . .                 | 2         |          |          | <b>-- ITEMS NOT SHOWN --</b>                  |           |
| 15              | L50305   | M16-2X35M BOLT GR8.8 . . . . .                | 4         |          |          | <b><i>(Electrical)</i></b>                    |           |
| 16              | 067823   | 5/8"-11 NYLON INSERT NUT . . . . .            | 2         | --       | 50380149 | WIRE HARNESS, ECU . . . . .                   | 1         |
| 17              | L64197   | WASHER, ISOLATOR MOUNT . . . . .              | 2         | --       | 50380315 | WIRE HARNESS, ENGINE 14" . . . . .            | 1         |
| 18              | L64124   | MOUNT, VIBRATION ISOLATOR . . . . .           | 2         | --       | 50380463 | WIRE HARNESS, ENGINE 6" . . . . .             | 1         |
| 19              | 50380261 | ENGINE MOUNT <i>(right)</i> . . . . .         | 1         | --       | 50380309 | HARNESS <i>(Throttle)</i> . . . . .           | 1         |
| 20              | 50380260 | ENGINE MOUNT <i>(left)</i> . . . . .          | 1         |          |          | <b><i>(Fuel Line)</i></b>                     |           |
| 21              | 210049   | ADAP., M18 -6NPTF STR <i>(long)</i> . . . . . | 1         | --       | 104341   | HOSE END, -5 JICF PUSHON . . . . .            | AR        |
| 22              | L99966   | SHUTOFF, MANUAL/WATER . . . . .               | 1         | --       | 50380316 | HOSE, -6 K6/K6 82" <i>(supply)</i> . . . . .  | 1         |
| 23              | L447005  | ADAP., M18 10 BEAD STR . . . . .              | 1         | --       | 104114   | HOSE, 1/4" X 100" <i>(return)</i> . . . . .   | 1         |

a Contact John Deere parts department to order a replacement part.

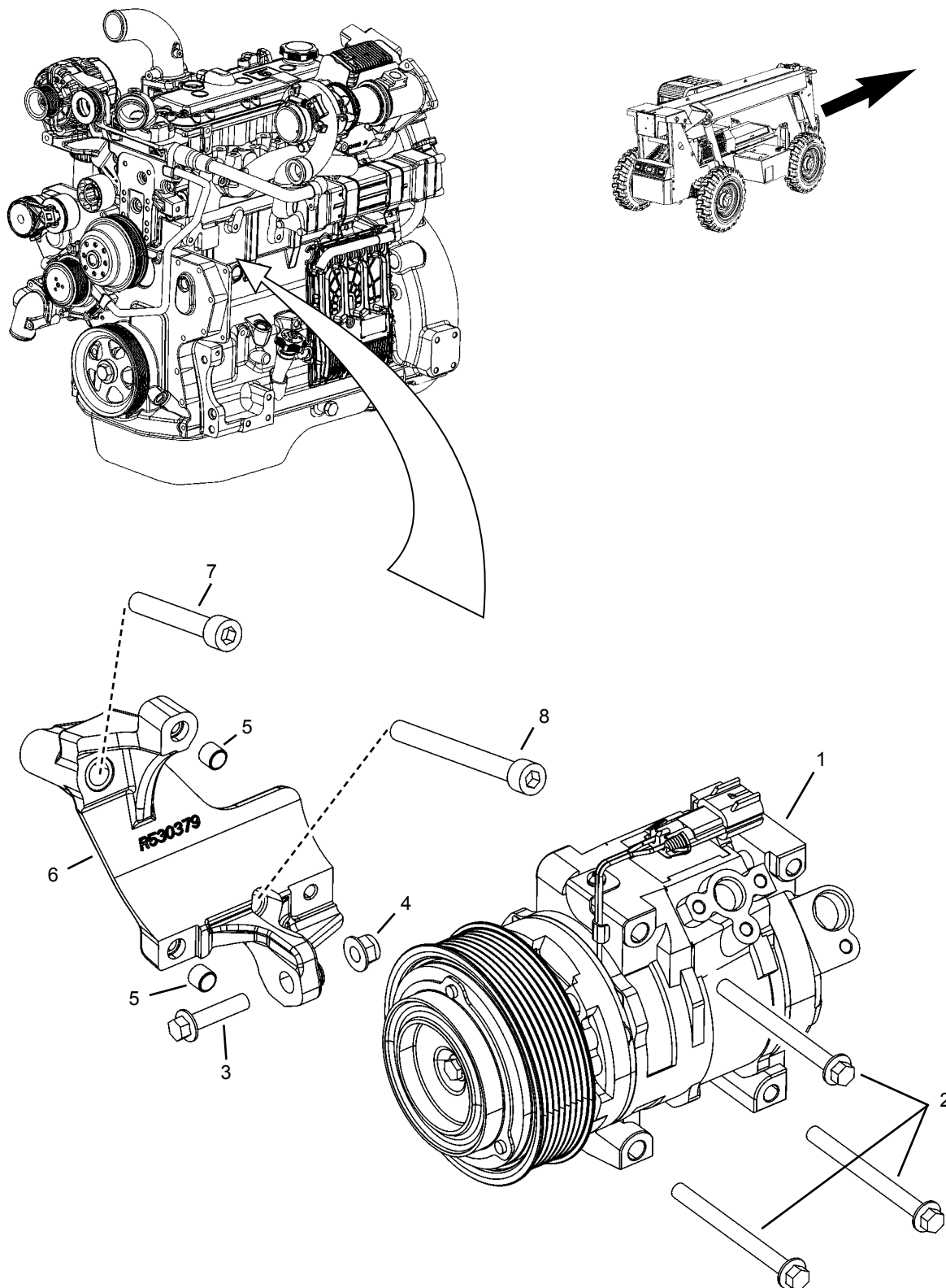




## Engine

### A/C Compressor - (Option)

## RS Series





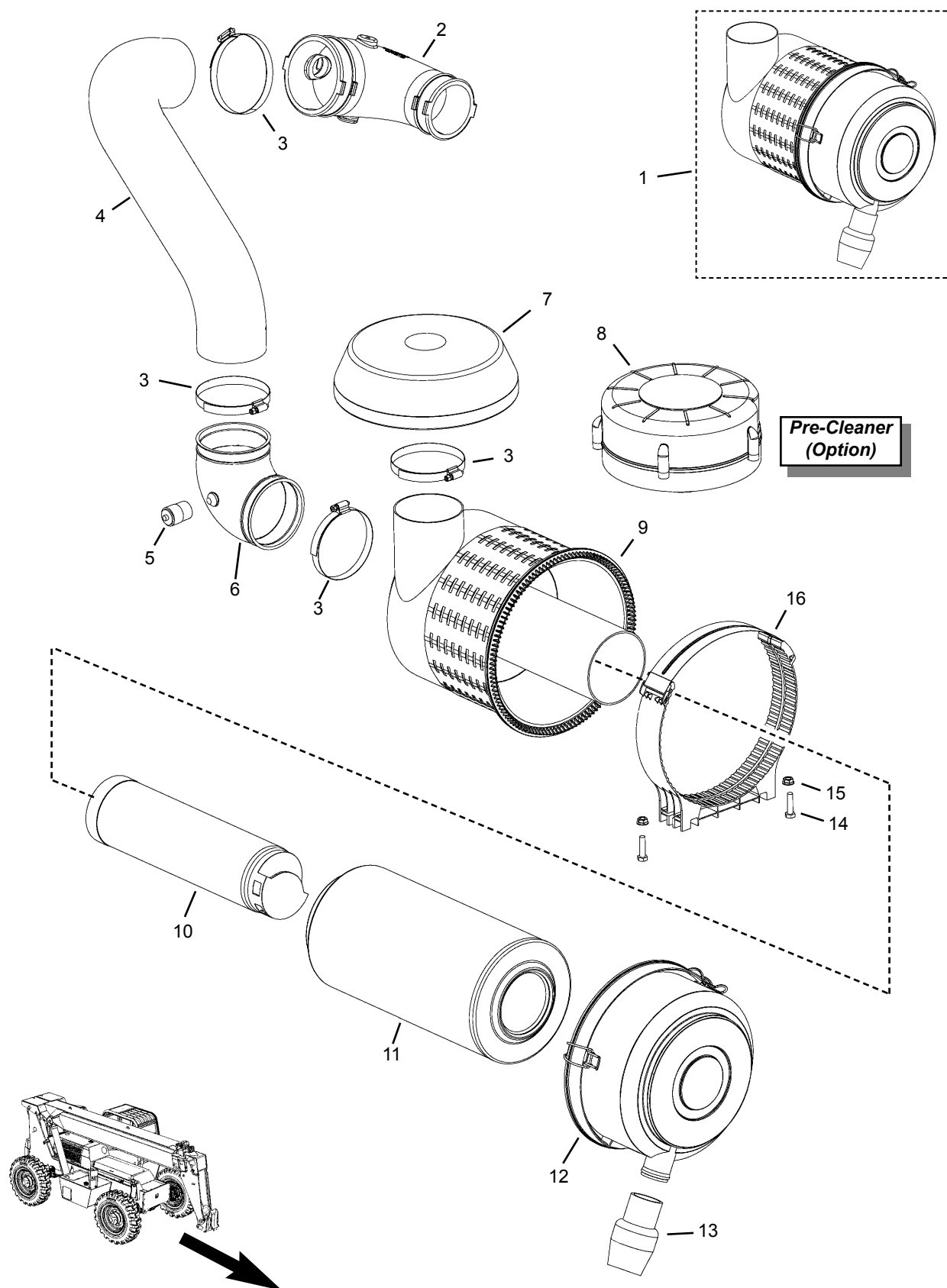
## Telescopic Handler

## Engine

### *A/C Compressor - (Option)*

| Ref.<br>No. | Part<br>No. | Description                         | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                          | Qty.<br>Req. |
|-------------|-------------|-------------------------------------|--------------|-------------|-------------|--------------------------------------|--------------|
| 01          | 50380423    | A/C COMPRESSOR . . . . .            | 1            | 07          | 651789      | SHCS M10-1.5x5 C12.9 OCG. . . . .    | 1            |
| 02          | 651697      | CS FL M8-1.25x90 C8.8 ZY . . . . .  | 3            | 08          | 656150      | SHCS M10-1.5x100 C12.9 OCG . . . . . | 1            |
| 03          | 651720      | CS FL M8-1.25x35 C8.8 ZY . . . . .  | 1            |             |             |                                      |              |
| 04          | 651706      | LN INST FL M8-1.25 C8 ZY . . . . .  | 1            |             |             |                                      |              |
| 05          | 210213      | BUSHING, COMPRESSOR PILOT . . . . . | 2            |             |             |                                      |              |
| 06          | 50380424    | A/C COMPRESSOR MOUNT . . . . .      | 1            |             |             |                                      |              |
|             |             |                                     |              |             |             | <b>-- ITEMS NOT SHOWN --</b>         |              |
|             |             |                                     |              | 00          | 50220188    | FAN BELT (A/C equipped). . . . .     | 1            |

## RS Series





## Telescopic Handler

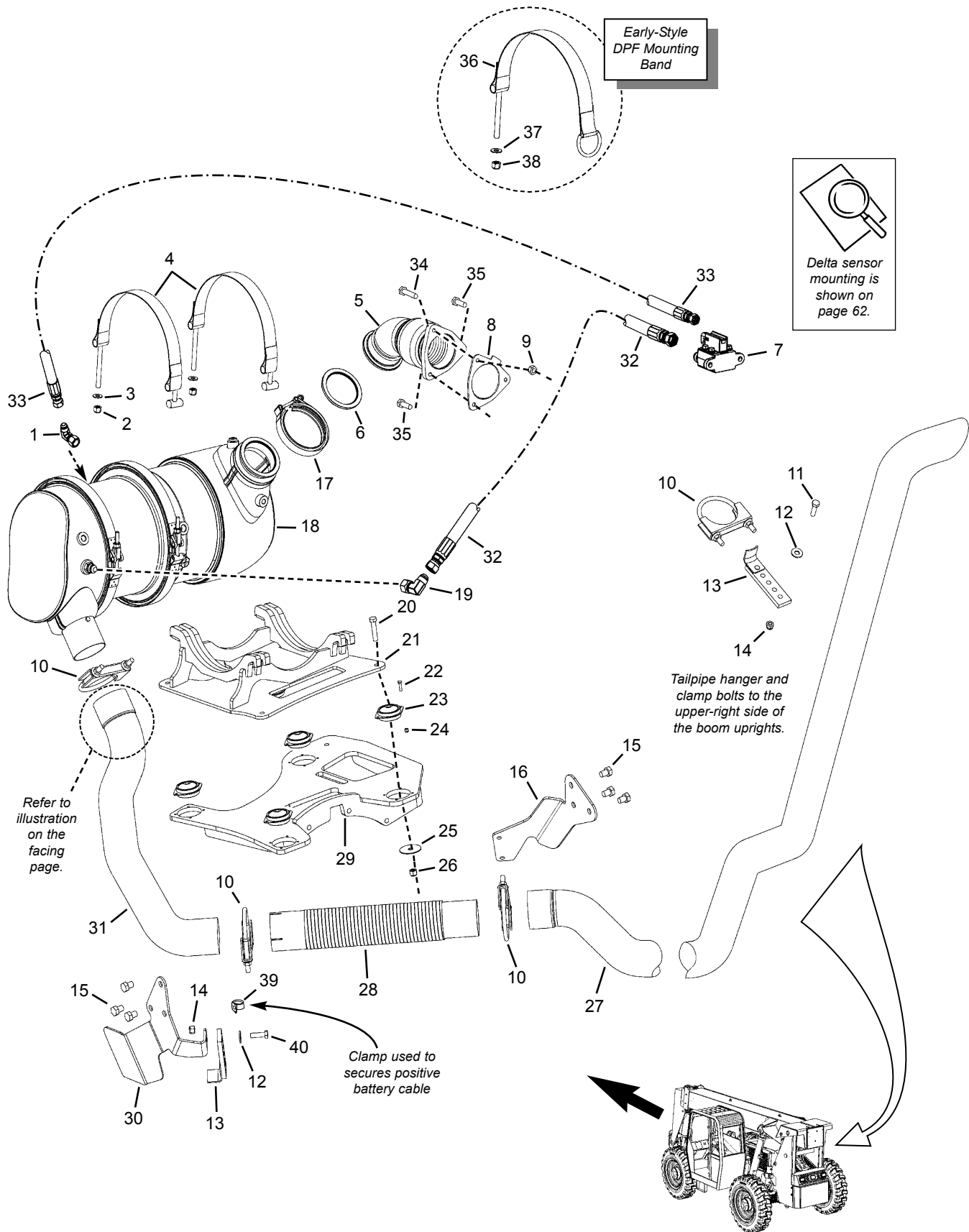
## Engine Air Intake

| Ref. No.        | Part No. | Description                                           | Qty. Req. | Ref. No.                                                                  | Part No. | Description                  | Qty. Req. |
|-----------------|----------|-------------------------------------------------------|-----------|---------------------------------------------------------------------------|----------|------------------------------|-----------|
| 01              | 105073   | AIR CLEANER ASSEMBLY. ....1<br><i>(includes 9-13)</i> |           | 10                                                                        | 105071   | ELEMENT, SECONDARY ....1     |           |
| 02 <sup>a</sup> | NSS      | ELBOW, AIR INTAKE .....1                              |           | 11                                                                        | 105070   | ELEMENT, PRIMARY .....1      |           |
| 03              | 079769   | ADJUST. CLAMP, #72 .....AR                            |           | 12                                                                        | NSS      | END CAP .....1               |           |
| 04              | 50380001 | AIR INTAKE TUBE .....1                                |           | 13                                                                        | 137659   | EJECTOR/DUST .....1          |           |
| 05              | 183629   | INDICATOR, RESTRICTION 30 in. .1                      |           | 14                                                                        | 650545   | 5/6"X1-1/4" BOLT .....2      |           |
| 06              | 105065   | 90° RUBBER ELBOW, 4" DIA. ....1                       |           | 15                                                                        | L50056   | 5/16" NUT .....2             |           |
| 07              | 105075   | INLET HOOD/CAP <i>(standard)</i> ....1                |           | 16                                                                        | 105059   | CLAMP, AIR CLEANER MOUNT ..1 |           |
| 08              | 192587   | PRE-CLEANER <i>(option)</i> .....1                    |           | <i>a Contact John Deere parts department to order a replacement part.</i> |          |                              |           |
| 09              | NSS      | HOUSING, AIR CLEANER .....1                           |           |                                                                           |          |                              |           |



## Engine Exhaust

## RS Series





## Telescopic Handler

Engine  
Exhaust

| Ref. No.        | Part No. | Description                       | Qty. Req. |
|-----------------|----------|-----------------------------------|-----------|
| 01              | 50300238 | 90 MJ06-FJS06 SS . . . . .        | 1         |
| 02 <sup>e</sup> | 656049   | HN M10-1.5 C8 ZY DIN934 . . . . . | 2         |
| 03              | 656133   | FW M10 ZY DIN125 . . . . .        | 2         |
| 04              | 50380007 | BAND, DPF MOUNTING . . . . .      | 2         |
| 05              | 211257   | COUPLER, FLEX EXHAUST . . . . .   | 1         |
| 06              | 50220190 | SEALING RING . . . . .            | 1         |
| 07 <sup>a</sup> | NSS      | SENSOR, DELTA PRESSURE . . . . .  | 1         |
| 08              | 50220191 | EXHAUST GASKET . . . . .          | 1         |
| 09              | 656049   | HN M10-1.5 C8 ZY DIN934 . . . . . | 1         |
| 10              | 131951   | CLAMP, MUFFLER 3" . . . . .       | 4         |
| 11              | 650491   | CS 3/8x1-1/4" C5ZY . . . . .      | 1         |
| 12              | 654006   | FW 3/8 AWZY . . . . .             | 2         |
| 13              | L64764   | HANGER, TAILPIPE . . . . .        | 2         |
| 14              | L520005  | CS INST 3/8" . . . . .            | 2         |
| 15              | 651668   | CS M12-1.75x16 C8.8 ZY . . . . .  | 6         |
| 16              | 50380063 | BRACKET, EXHAUST PIPE . . . . .   | 1         |
| 17              | 50220192 | CLAMP, EXHAUST . . . . .          | 1         |
| 18 <sup>a</sup> | NSS      | DPF . . . . .                     | 1         |
| 19              | 50300240 | 90 MJ08-FJS08 SS . . . . .        | 1         |
| 20              | 650579   | CS 3/8x1-3/4 C5ZY . . . . .       | 4         |
| 21              |          | BRACKET, DPF MOUNTING . . . . .   | 1         |
|                 | 50380500 | Note b                            |           |
|                 | 50380166 | Note c                            |           |
| 22              | 651202   | HHM USL #10-24x3/4 C2ZY . . . . . | 8         |
| 23              | 211241   | ISOLATION MOUNT . . . . .         | 4         |
| 24              | 084175   | HLN INST #10-24 CZY . . . . .     | 8         |
| 25              | 50380017 | FW 3/8" SNUBBING . . . . .        | 4         |
| 26              | L520005  | CS INST 3/8" . . . . .            | 4         |
| 27              | 211178   | TAILPIPE . . . . .                | 1         |
| 28              | 105211   | EXHAUST, FLEX PIPE . . . . .      | 1         |

| Ref. No.        | Part No. | Description                          | Qty. Req. |
|-----------------|----------|--------------------------------------|-----------|
| 29              |          | BRACKET, DPF . . . . .               | 1         |
|                 | 50380303 | Note x                               |           |
|                 | 50380302 | Note y                               |           |
| 30              | 50380059 | BRACKET, EXHAUST PIPE . . . . .      | 1         |
| 31              |          | EXHAUST PIPE . . . . .               | 1         |
|                 | 50380064 | Note x (without expansion slots)     |           |
|                 | 50380502 | Note x (with expansion slots)        |           |
|                 | 50380077 | Note y (without expansion slots)     |           |
|                 | 50380494 | Note y (with expansion slots)        |           |
| 32              | 50380300 | HOSE, 0.50" A8/A8 15" . . . . .      | 1         |
| 33              | 50380301 | HOSE, 0.375" A6/A6 28" . . . . .     | 1         |
| 34              | 656010   | CS M10-1.5x40 C8.8 ZY . . . . .      | 1         |
| 35              | 656008   | CS M10-1.5x30 C8.8 ZY . . . . .      | 2         |
| 36 <sup>d</sup> | NSS      | BAND, DPF MOUNTING (early) . . . . . | 0         |
| 37              | 654049   | FW 3/8 ANZY . . . . .                | 2         |
| 38 <sup>f</sup> | L520005  | HN INST 3/8" . . . . .               | 2         |
| 39              | L41859   | CLAMP, HOSE 0.56 x 0.41 . . . . .    | 1         |
| 40              | 650533   | CS 3/8x1-1/2" C5ZY . . . . .         | 1         |

a Contact John Deere parts department to order this component part.

b Used with #2 size DPF; order this item if item #31 exhaust pipe has expansion slots (shown below).

c Used with #3 size DPF; order this item if item #31 exhaust pipe does not have expansion slots (refer to illustration below).

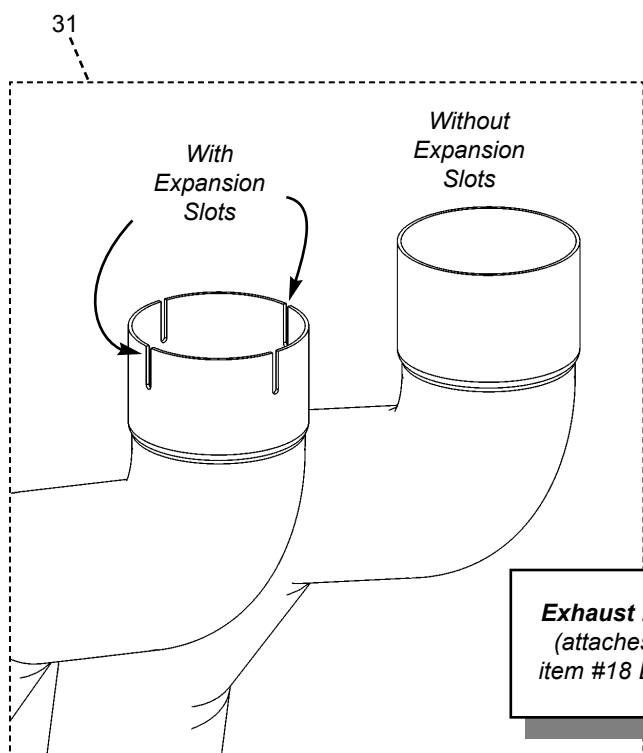
d Early-style mounting band is no longer available; order item #4, which is a direct replacement. Item #4 also includes a metric nut item #2.

e Included with item #4; be aware this is a metric nut.

f This is an SAE nut, do not use this with item #4.

x Only RS6-42 and RS8-42/44

y Only RS10-44/55 and RS12-42



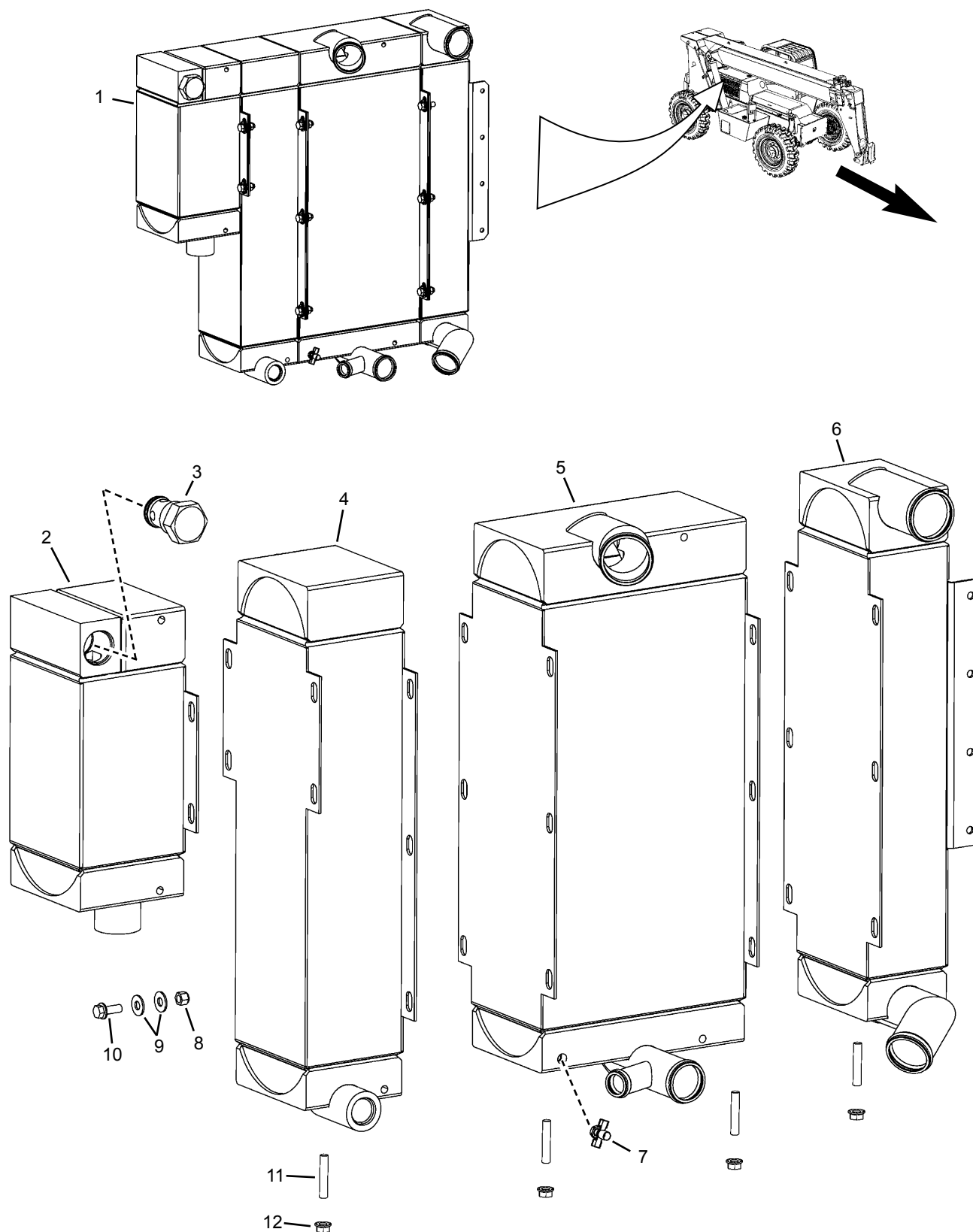
**NOTE:** Early machines were equipped with a size #3 DPF; later machines are equipped with a size #2 DPF. Inspect the exhaust pipe where it attaches to the DPF. If the exhaust pipe has expansion slots similar to those shown in the illustration to the left, then the machine is equipped with a size #2 DPF—otherwise, the machine is equipped with a size #3 DPF.



## Engine

### Radiator, Coolers, and Surge Tank

## RS Series

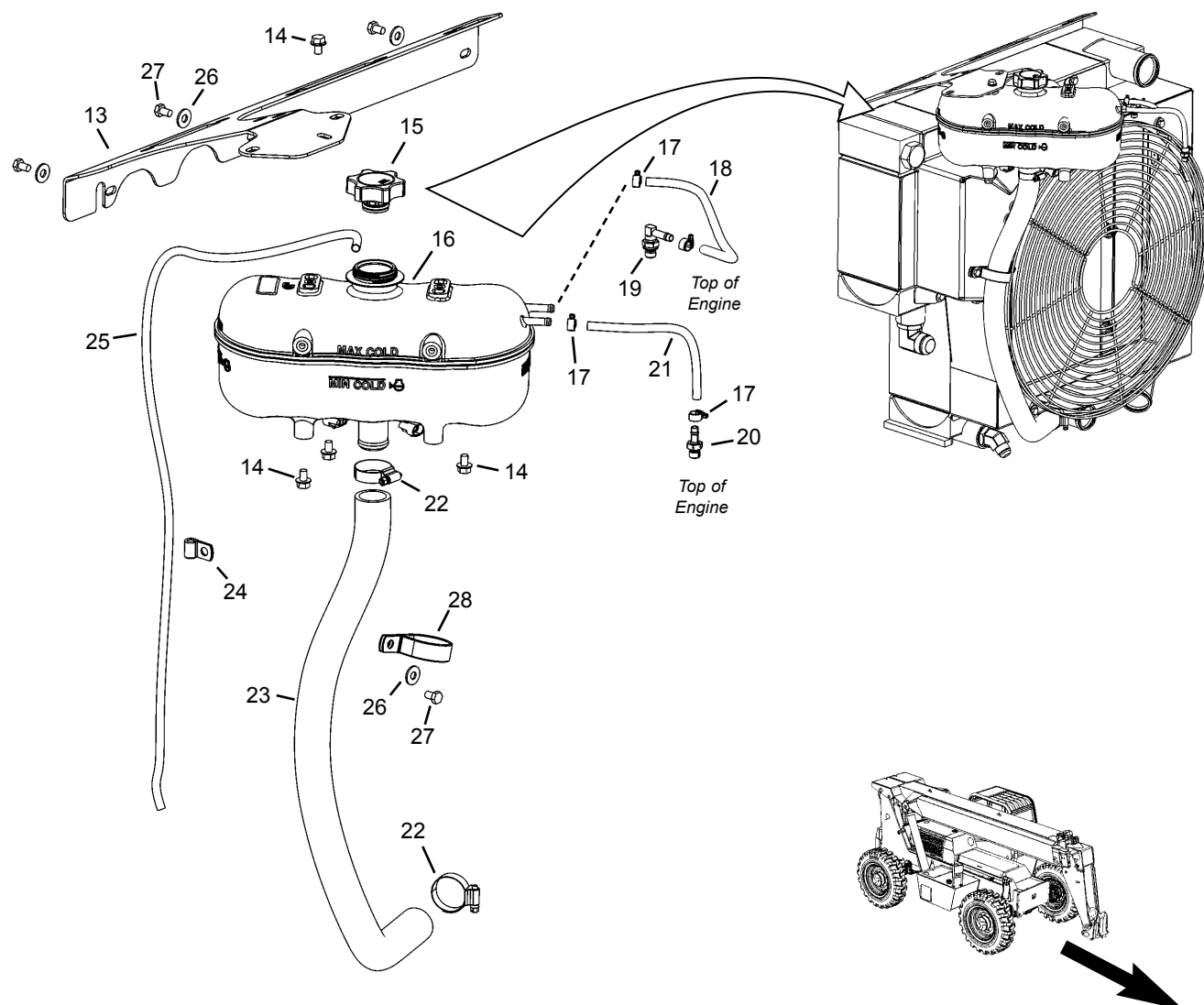




## Telescopic Handler

## Engine

### *Radiator, Coolers, and Surge Tank*

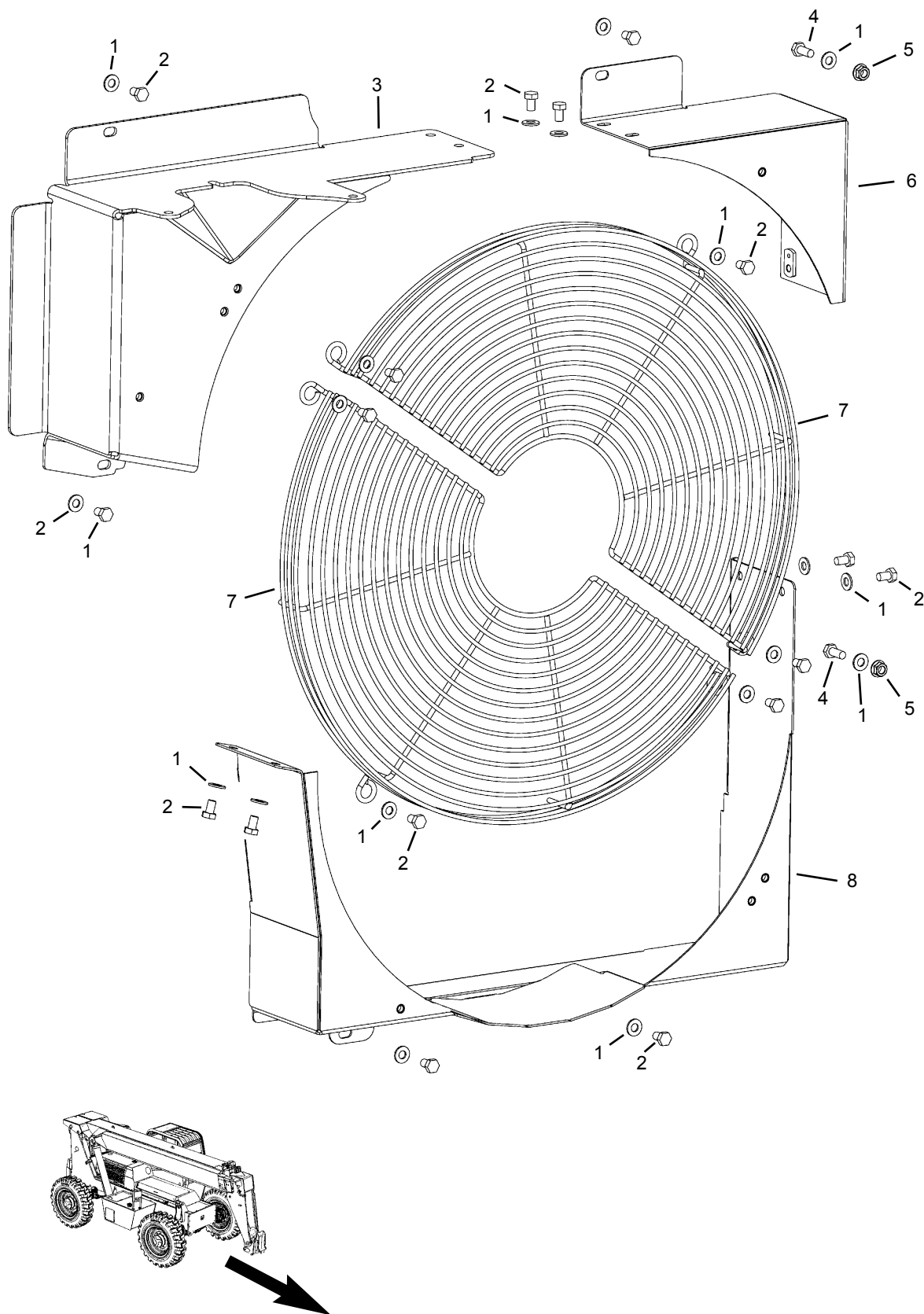
[illegible]





# Engine Radiator Shrouds and Guards

## RS Series





## Telescopic Handler

## Engine

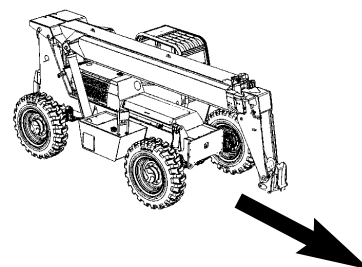
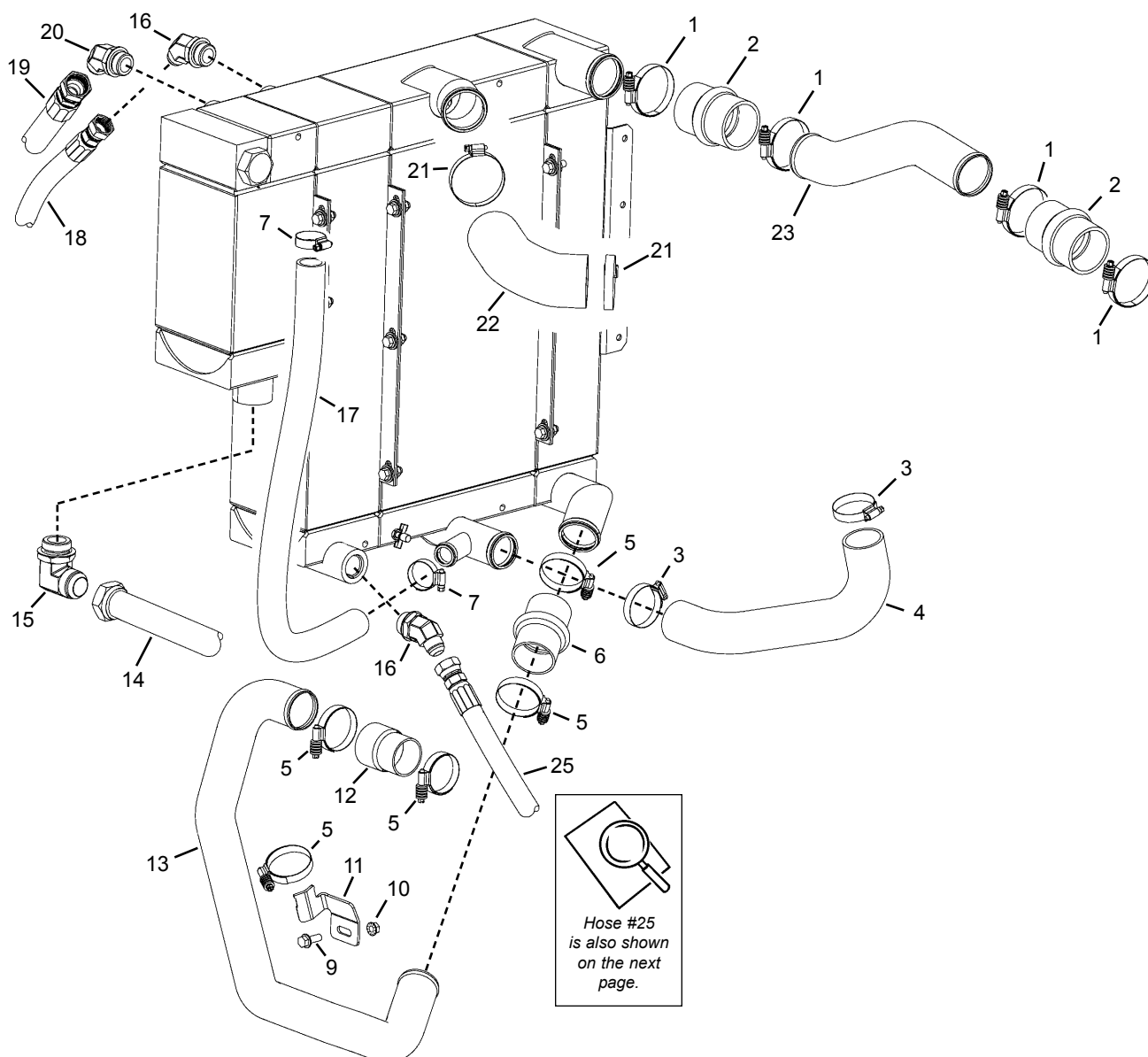
### *Radiator Shrouds and Guards*

| Ref. No. | Part No. | Description              | Qty. Req. | Ref. No. | Part No. | Description                  | Qty. Req. |
|----------|----------|--------------------------|-----------|----------|----------|------------------------------|-----------|
| 01       | 654004   | FW 5/16 AWZY .....       | AR        | 05       | L50056   | FLANGE LOCK NUT 5/16"-18 ... | 2         |
| 02       | 650484   | CS 5/16"x1/2" C5ZY ..... | AR        | 06       | 50380279 | SHROUD, LOWER LH .....       | 1         |
| 03       | 50380277 | SHROUD, UPPER RH .....   | 1         | 07       | 104455   | FAN GUARD .....              | 2         |
| 04       | 650486   | CS 5/16"x3/4" c5zy ..... | 2         | 08       | 50380278 | SHROUD, LOWER .....          | 1         |



## Engine Radiator/Cooler Hoses

## RS Series





## Telescopic Handler

## Engine Radiator/Cooler Hoses

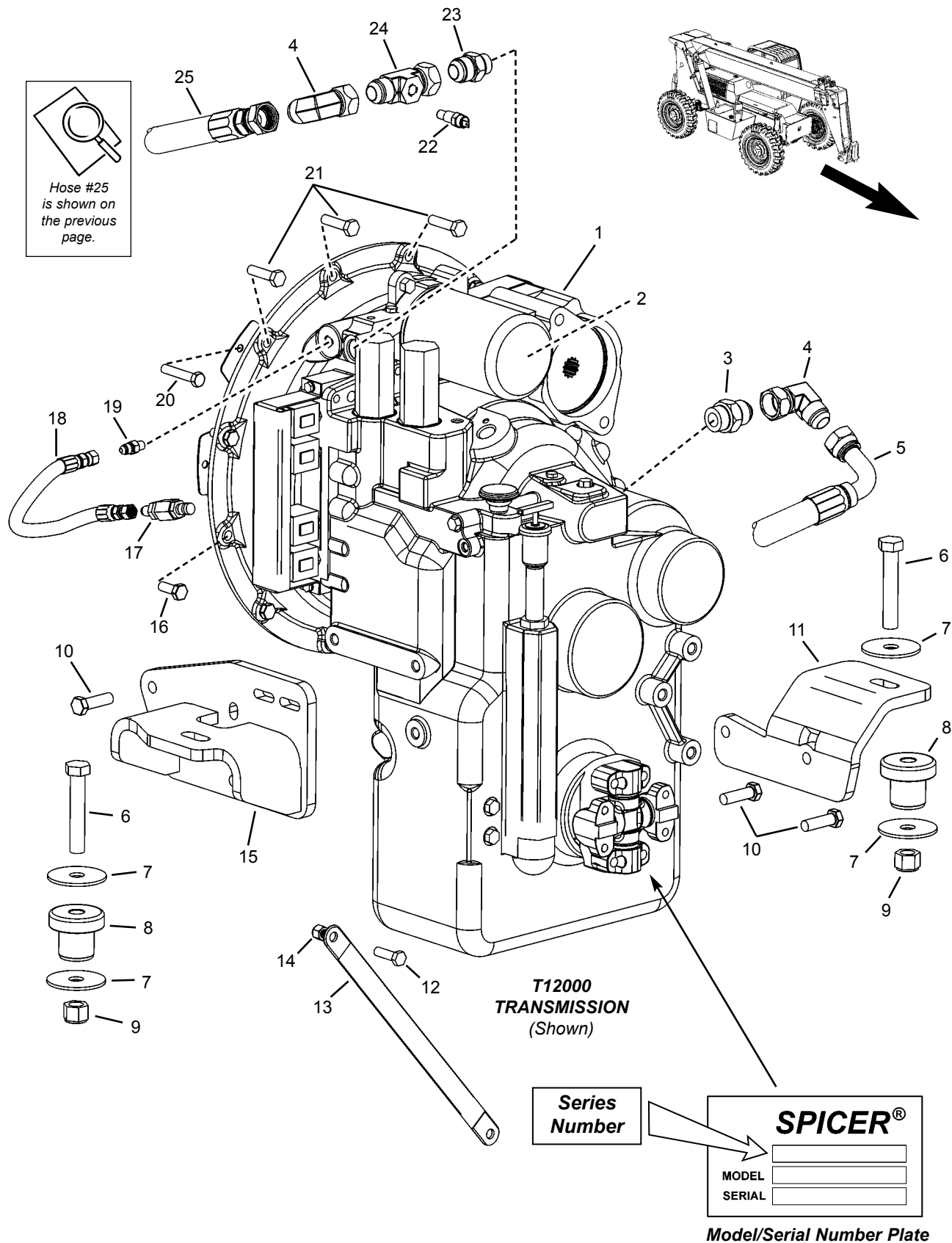
| Ref.<br>No. | Part<br>No. | Description                             | Qty.<br>Req. | Ref.<br>No.     | Part<br>No. | Description                                                                                      | Qty.<br>Req. |
|-------------|-------------|-----------------------------------------|--------------|-----------------|-------------|--------------------------------------------------------------------------------------------------|--------------|
| 01          | 50300170    | CLAMP, TENSION HOSE #40 . . . .         | 4            | 15              | 127349      | 90 MJ20-MAORB20 . . . . .                                                                        | 1            |
| 02          | 211151      | HOSE, SILICONE 2.50" . . . . .          | 1            | 16              | 121773      | 45 MJ120MAORB16 . . . . .                                                                        | 2            |
| 03          | L76020      | CLAMP, HOSE #32 . . . . .               | 2            | 17              | 50380293    | HOSE, COOLANT FILL . . . . .                                                                     | 1            |
| 04          | 105763      | HOSE, LOWER RADIATOR . . . . .          | 1            | 18 <sup>a</sup> | L63406      | HOSE, -12 A12/DS12 114" . . . . .                                                                | 1            |
| 05          | 105175      | CLAMP, TENSION HOSE #36 . . . .         | 5            |                 |             | (to transmission—left side)                                                                      |              |
| 06          | 104452      | HOSE, SILICONE 2.25" . . . . .          | 1            | 19              | 102849      | HOSE, -16 A16/A16 42" . . . . .                                                                  | 1            |
| 07          | 061946      | CLAMP, HOSE #24 . . . . .               | 2            |                 |             | (to main hydraulic control valve)                                                                |              |
| 09          | 076589      | CS FL LOCK 3/8"x1" C5ZY . . . . .       | 1            | 20              | 079029      | 45 MJ16-MAORB16 . . . . .                                                                        | 1            |
| 10          | 090666      | HN FL SLOC 3/8" CZY . . . . .           | 1            | 21              | 087850      | CLAMP, HOSE #40 . . . . .                                                                        | 2            |
| 11          | 50380071    | BRACKET, CAC TUBE . . . . .             | 1            | 22              | 211307      | HOSE, UPPER RADIATOR . . . . .                                                                   | 1            |
| 12          | 104885      | HOSE, SILICONE 2"—2-1/4" . . . .        | 1            | 23              | 211154      | TUBE, UPPER CAC . . . . .                                                                        | 1            |
| 13          | 211176      | TUBE, LOWER CAC . . . . .               | 1            | 25 <sup>a</sup> | 271276      | HOSE, MP -12 x50" . . . . .                                                                      | 1            |
| 14          | 50380024    | TUBE, Hydraulic FILTER . . . . .        | 1            |                 |             | (to transmission—right side: refer to<br>the next page for hose location on<br>the transmission) |              |
|             |             | (to hydraulic filter in hydraulic tank) |              |                 |             |                                                                                                  |              |



## Transmission

## RS Series

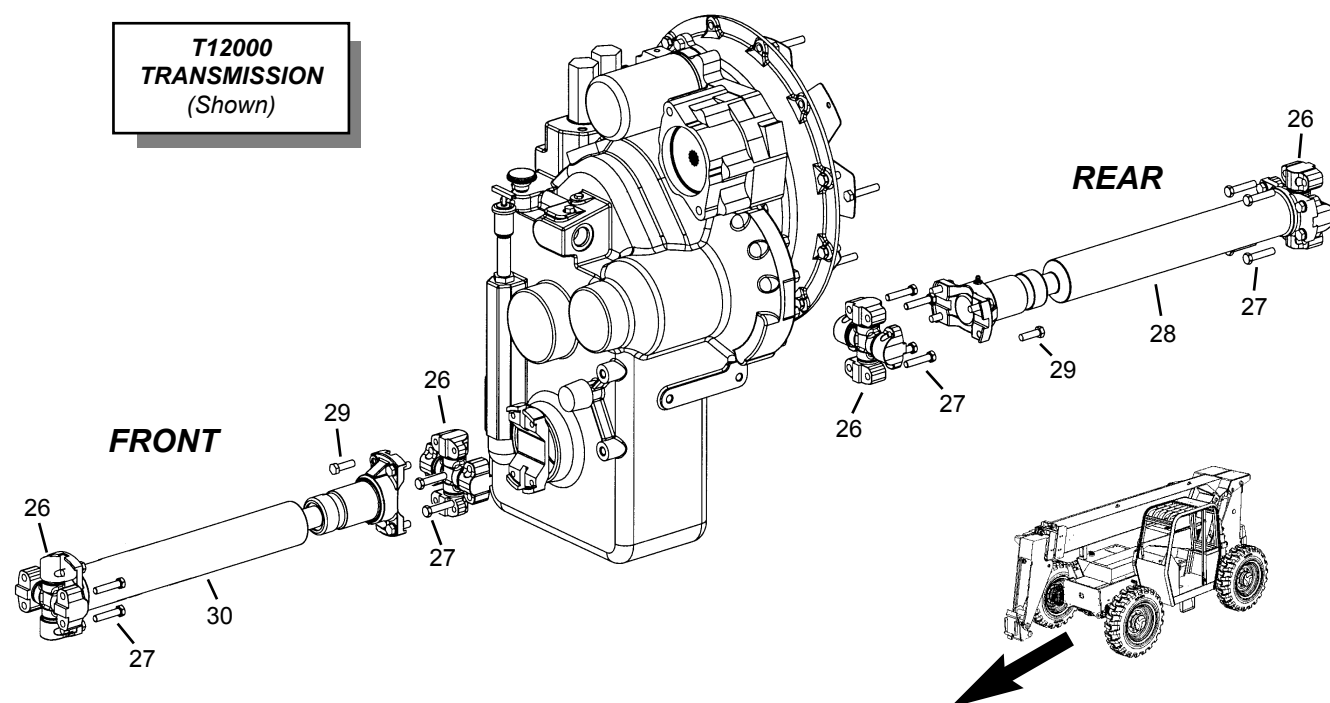
### External Components and Driveshafts



## Telescopic Handler

## Transmission

### *External Components and Driveshafts*



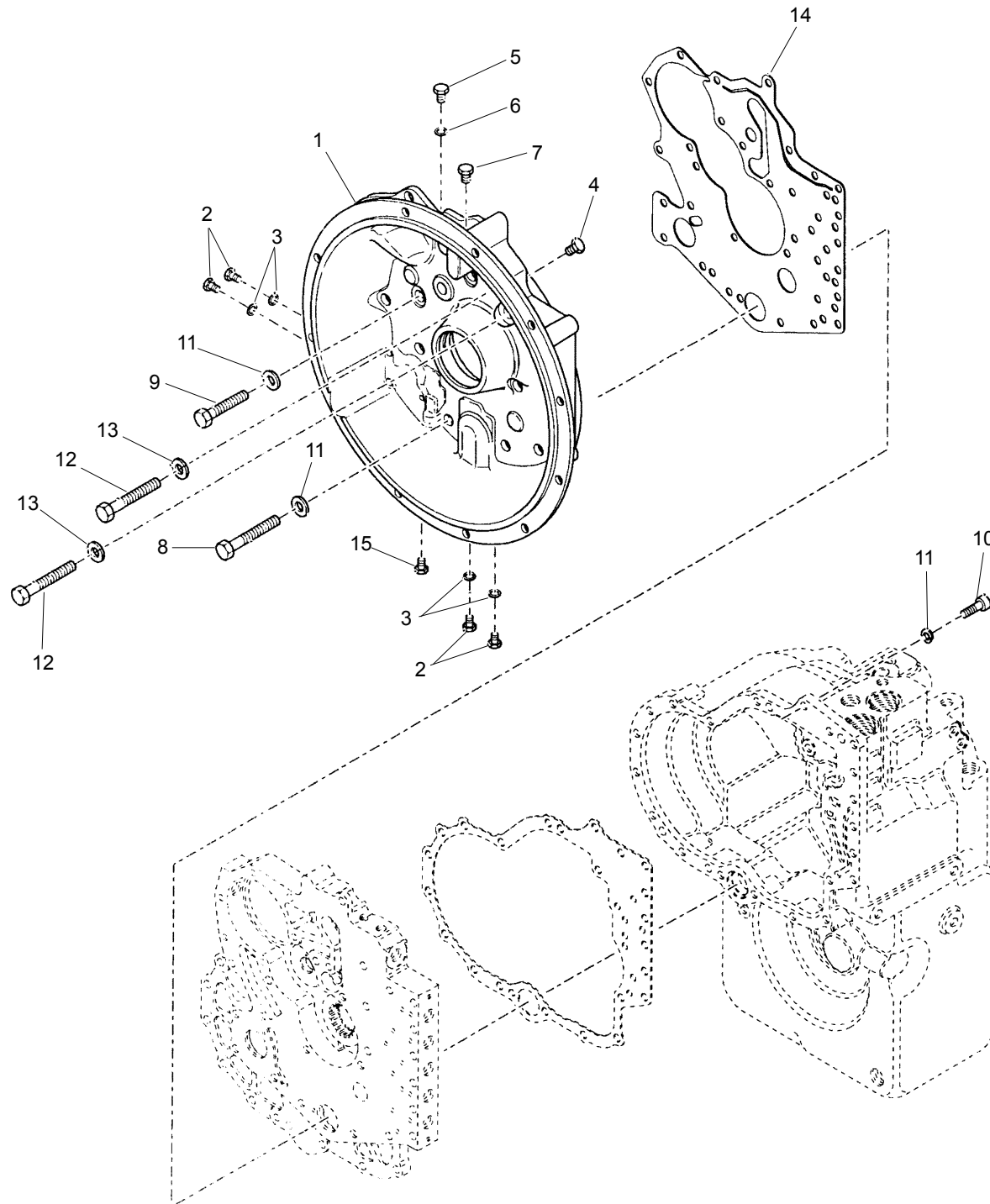
| Ref. No.        | Part No.  | Description                           | Qty. Req. | Ref. No.        | Part No. | Description                                                              | Qty. Req. |
|-----------------|-----------|---------------------------------------|-----------|-----------------|----------|--------------------------------------------------------------------------|-----------|
| 01              |           | TRANSMISSION . . . . .                | 1         | 22              | L66965   | SENDER, TEMP 250° . . . . .                                              | 1         |
|                 | 102654    | <i>Note x (T12000)</i>                |           | 23              | 054819   | ST MJ12-MORB10 . . . . .                                                 | 1         |
|                 | 210397    | <i>Note y (T13000)</i>                |           | 24              | 50380387 | TEE MJ12-FJS12-FP04 . . . . .                                            | 1         |
| 02              | L99184    | FILTER, TRANSMISSION OIL . . . .      | 1         | 25 <sup>e</sup> | 271276   | HOSE, MP -12 x50" . . . . .                                              | 1         |
| 03              | 072587    | ADAP., -12ORM -12JICM STR . . . .     | 1         |                 |          | <i>(to hyd. cooler—lower port)</i>                                       |           |
| 04              | 075235    | ADAP., -12JICM -12JICFS 90° . . . .   | 2         | 26              | L99182   | UNIVERSAL JOINT <i>(incls. bolts)</i> . . . .                            | 4         |
| 05 <sup>e</sup> | L63406    | HOSE, -12 A12/DS12 114" . . . . .     | 1         | 27 <sup>a</sup> | L50468   | 3/8"-24X1-3/4" GR8 BOLT . . . . .                                        | 16        |
|                 |           | <i>(to hyd. cooler—upper port)</i>    |           | 28              |          | DRIVESHAFT, REAR . . . . .                                               | 1         |
| 06              | 650695    | CS 5/8"-11 x 3-1/2" . . . . .         | 2         |                 | 102212   | <i>(Note x) (includes u-joints)</i>                                      |           |
| 07              | L64197    | WASHER, ISOLATOR MOUNT . . . .        | 4         |                 | L68549   | <i>(Note y) (includes u-joints)</i>                                      |           |
| 08              | L64124    | MOUNT, VIBRATION ISOLATOR . . . .     | 2         | 29 <sup>b</sup> | 650965   | 3/8"-24X1-1/4" GR 8 BOLT . . . . .                                       | 8         |
| 09              | L520007   | 5/8"-11 NYLON INSERT NUT . . . .      | 2         |                 | 654026   | 3/8" LOCK WASHER . . . . .                                               | 8         |
| 10              | L50704    | M12X1.75X40mm BOLT . . . . .          | 5         | 30              | 102211   | DRIVESHAFT, FRONT . . . . .                                              | 1         |
| 11              | 50380295  | TRANS. MOUNT (LH) . . . . .           | 1         |                 |          | <i>(Includes u-joints; all models use the same front driveshaft.)</i>    |           |
| 12              | 650491    | CS 3/8" x1-1/4" C5ZY . . . . .        | 1         | a               |          | <i>Used to fasten universal joint to transmission and to axle yokes.</i> |           |
| 13              | L630004   | GROUND STRAP . . . . .                | 1         | b               |          | <i>Used to fasten universal joint to driveshaft.</i>                     |           |
| 14              | L520005   | NIN 3/8"-16 . . . . .                 | 1         | c               |          | <i>Used to fasten flex plate to flywheel.</i>                            |           |
| 15              | 50380294  | TRANS. MOUNT (RH) . . . . .           | 1         | d               |          | <i>Used to fasten wire harness bracket to transmission.</i>              |           |
| 16              |           | BOLT . . . . .                        | 9         | e               |          | <i>Refer to previous page for hose location</i>                          |           |
|                 | L50952    | <i>Note x—CS M10-1.5x25 C8.8</i>      |           |                 |          |                                                                          |           |
|                 | 656012    | <i>Note y—CS M10-1.5x50 C8.8</i>      |           |                 |          |                                                                          |           |
| 17              | L62834    | TEST PORT FITTING . . . . .           | 1         | x               |          | <i>Only RS6-42 and RS8-42/44</i>                                         |           |
|                 | L62840    | DUST CAP <i>(not shown)</i> . . . . . | 1         | y               |          | <i>Only RS10-44/55 and RS12-42</i>                                       |           |
| 18              | 104111    | HOSE, -4 A4/A4 18" . . . . .          | 1         |                 |          |                                                                          |           |
| 19              | 230-20033 | ST MJ04-MP02 . . . . .                | 1         |                 |          |                                                                          |           |
| 20 <sup>c</sup> | L50833    | 3/8"-24X2" GRADE 8 BOLT . . . . .     | 8         |                 |          |                                                                          |           |
| 21              |           | BOLT . . . . .                        | 3         |                 |          |                                                                          |           |
|                 | 651400    | <i>Note x—CS M10-1.5x40 C8.8</i>      |           |                 |          |                                                                          |           |
|                 | 656013    | <i>Note y—CS M10-1.5x60 C8.8</i>      |           |                 |          |                                                                          |           |



## Transmission

## RS Series

### Torque Converter Housing - (RS6 and RS8 Models)



RS6 and RS8 Models Only



Telescopic Handler

Transmission

Torque Converter Housing - (RS6 and RS8 Models)

| Ref. No. | Part No. | Description                 | Qty. Req. | Ref. No. | Part No. | Description                    | Qty. Req. |
|----------|----------|-----------------------------|-----------|----------|----------|--------------------------------|-----------|
| 01       | L99286   | HOUSING/CONVERTER . . . . . | 1         | 09       | L99260   | SCREW . . . . .                | 3         |
| 02       | L99283   | PLUG . . . . .              | 4         | 10       | L99261   | SCREW . . . . .                | 1         |
| 03       | L99284   | O-RING / PLUG . . . . .     | 4         | 11       | L99029   | WASHER/LOCK . . . . .          | 10        |
| 04       | L99246   | PLUG . . . . .              | 1         | 12       | L99260   | SCREW . . . . .                | 13        |
| 05       | L99283   | PLUG . . . . .              | 1         | 13       | L99029   | WASHER/LOCK . . . . .          | 13        |
| 06       | L99284   | O-RING / PLUG . . . . .     | 1         | 14       | L98938   | GASKET/HSG. TO PLATE . . . . . | 1         |
| 07       | L99262   | PLUG . . . . .              | 1         | 15       | L99249   | PLUG/TEMP PICKUP . . . . .     | 1         |
| 08       | L99285   | SCREW . . . . .             | 6         |          |          |                                |           |

RS6 and RS8 Models Only



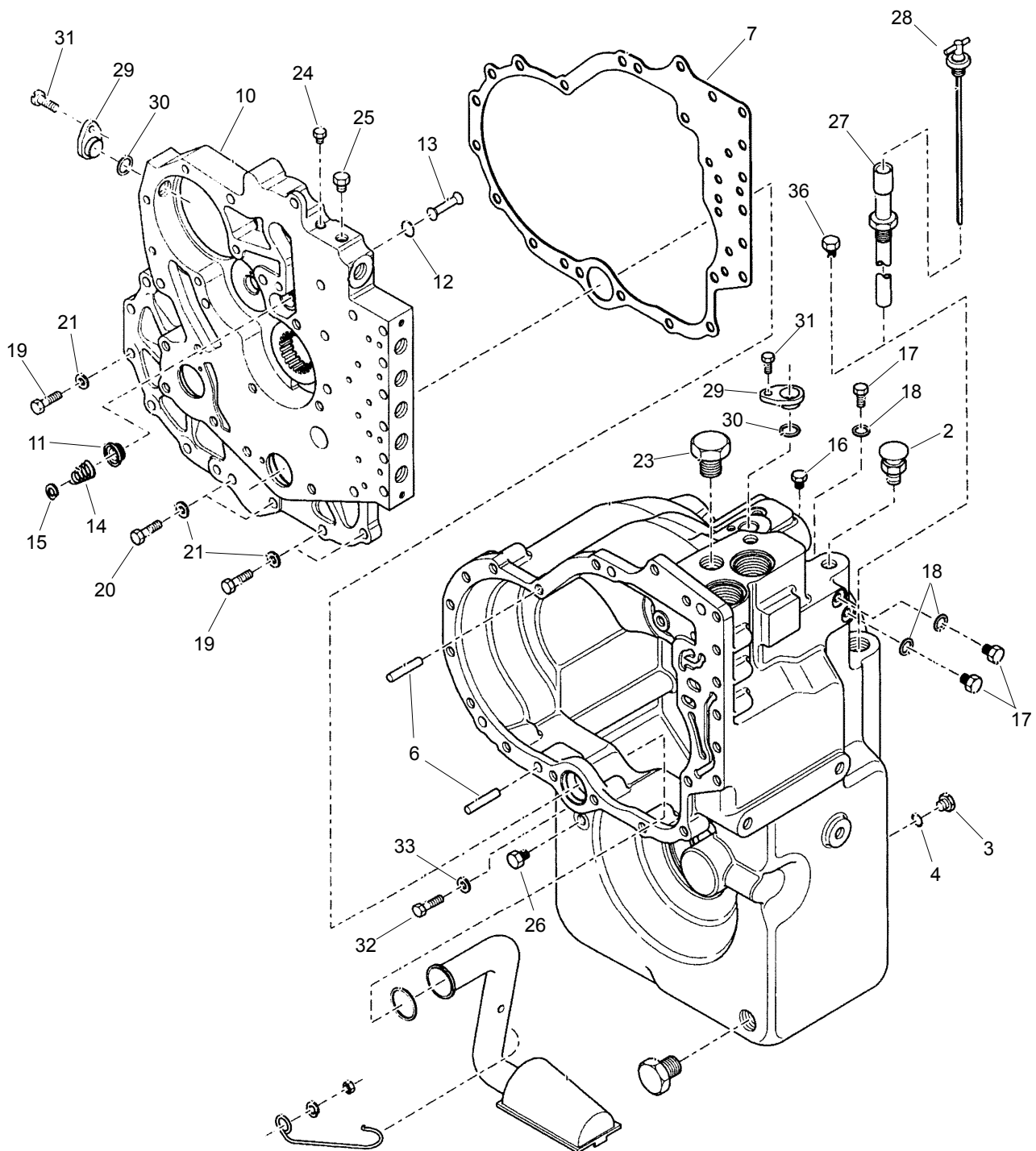


## Transmission

## RS Series

### Case and Plate - (RS6 and RS8 Models)

RS6 and RS8 Models Only



**Telescopic Handler****Transmission****Case and Plate - (RS6 and RS8 Models)**

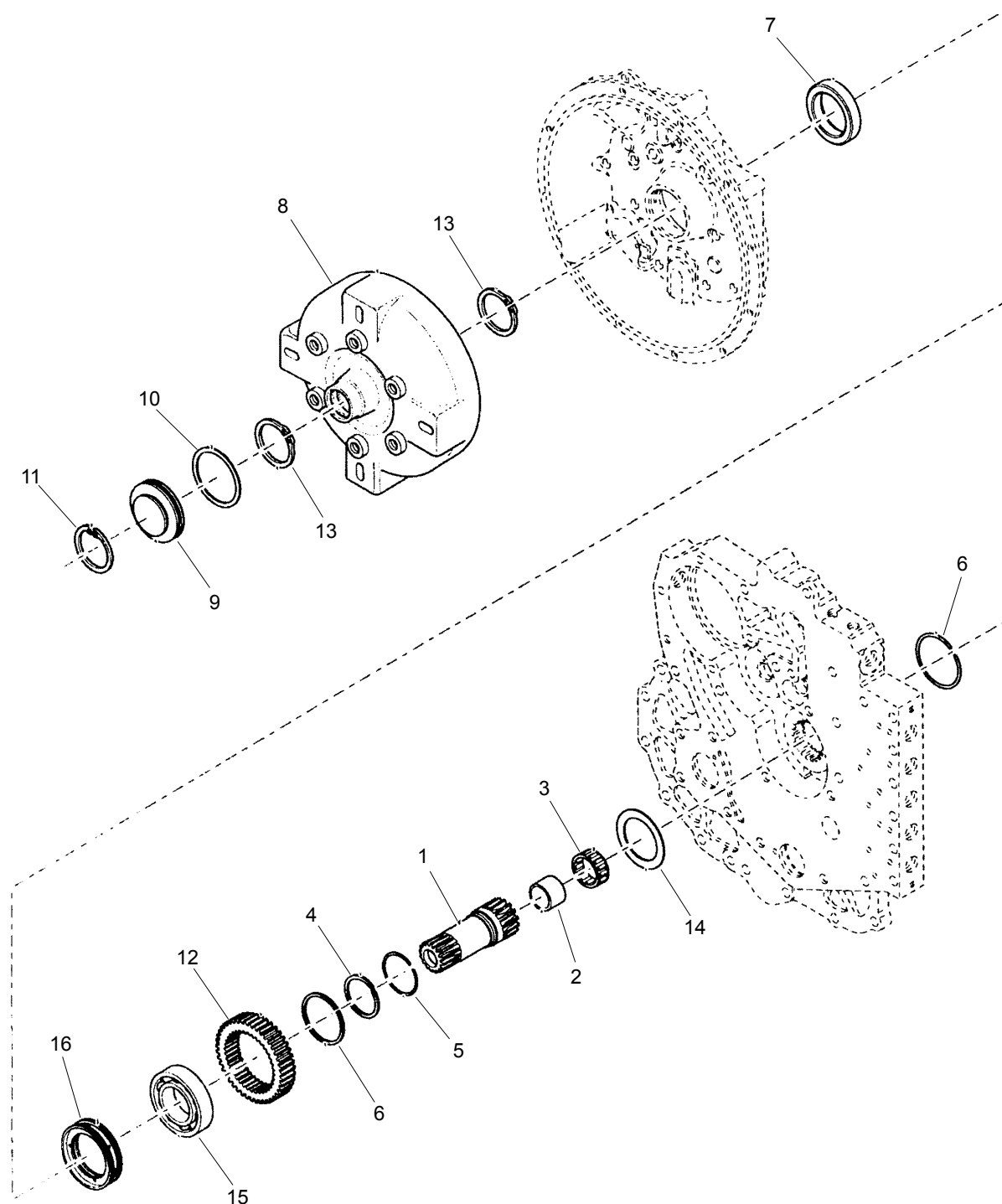
| Ref. No. | Part No. | Description                   | Qty. Req. | Ref. No. | Part No. | Description               | Qty. Req. |
|----------|----------|-------------------------------|-----------|----------|----------|---------------------------|-----------|
| 01       | NSS      | CASE-TRANSMISSION .....       | 1         | 18       | L99284   | O-RING/PLUG .....         | 3         |
| 02       | L94824   | BREATHER/AIR .....            | 1         | 19       | L99018   | SCREW .....               | 7         |
| 03       | L99251   | PLUG .....                    | 2         | 20       | L99045   | SCREW .....               | 2         |
|          |          | (includes item 4)             |           | 21       | L99029   | WASHER/LOCK .....         | 9         |
| 04       | L99013   | O-RING/PLUG .....             | 2         | 22       | L98184   | ASSY/TUBE & SCREEN .....  | 1         |
|          |          | (part of item item 3)         |           | 23       | L99274   | PLUG .....                | 1         |
| 05       | L99253   | PLUG/MAGNETIC DRAIN .....     | 1         | 24       | L99246   | PLUG .....                | 1         |
| 06       | L98927   | PIN/DOWEL PLATE TO CASE ..... | 2         | 25       | L99262   | PLUG .....                | 1         |
| 07       | L98926   | GASKET/PLATE TO CASE .....    | 1         | 26       | 106175   | PLUG .....                | 1         |
| 08       | L98185   | RING/TUBE SEAL .....          | 1         | 27       | L98734   | TUBE/TRANS DIPSTICK ..... | 1         |
| 09       | L98176   | CLIP/OIL TUBE RETAINER .....  | 1         | 28       | L98735   | TRANS DIPSTICK TUBE ..... | 1         |
| 10       | 102949   | PLATE, SPACER .....           | 1         | 29       | L99287   | PLUG .....                | 2         |
| 11       | L98935   | SEAT/SAFETY VALVE .....       | 1         | 30       | L99312   | O-RING .....              | 2         |
| 12       | L98932   | SNAP RING .....               | 1         | 31       | L99288   | SCREW .....               | 2         |
| 13       | L98226   | POPPET/SAFETY VALVE .....     | 1         | 32       | L99285   | SCREW .....               | 1         |
| 14       | L98218   | SPRING .....                  | 1         | 33       | L99294   | WASHER/SEAL .....         | 1         |
| 15       | L98217   | WASHER/POPPET .....           | 1         | 34       | L99295   | WASHER/SCREW .....        | 1         |
| 16       | L99246   | PLUG .....                    | 1         | 35       | L99296   | NUT .....                 | 1         |
| 17       | L99283   | PLUG .....                    | 3         |          |          |                           |           |



## Transmission

## RS Series

### Torque Converter - (RS6 and RS8 Models)



RS6 and RS8 Models Only



Telescopic Handler

Transmission

Torque Converter - (RS6 and RS8 Models)

| Ref. No. | Part No. | Description                     | Qty. Req. | Ref. No. | Part No. | Description                      | Qty. Req. |
|----------|----------|---------------------------------|-----------|----------|----------|----------------------------------|-----------|
| 01       | L98203   | ASSY/STATOR SUPPORT . . . . .   | 1         | 09       | L98189   | PLUG/BORE . . . . .              | 1         |
| 02       | L98204   | BUSHING . . . . .               | 1         | 10       | L97525   | O-RING/BORE PLUG . . . . .       | 1         |
| 03       | L98197   | BEARING/FRONT . . . . .         | 1         | 11       | L97526   | RING/RET. BORE PLUG . . . . .    | 1         |
| 04       | L98201   | RING/PISTON . . . . .           | 1         | 12       | L98199   | IMPELLER/HUB GEAR . . . . .      | 1         |
| 05       | L98202   | EXPANDER/RING . . . . .         | 1         | 13       | L98191   | SNAP RING/IMPELLER HUB . . . . . | 2         |
| 06       | L98200   | RING/SNAP . . . . .             | 2         | 14       | L98205   | WASHER/HUB GEAR . . . . .        | 1         |
| 07       | L98194   | SEAL/OIL CONV. HSG. . . . .     | 1         | 15       | L98198   | BEARING/TORQUE CONVERTER. 1      |           |
| 08       | L99313   | ASSY/TORQUE CONVERTER . . . . . | 1         | 16       | L98196   | RING/OIL DISTRIBUTOR . . . . .   | 1         |

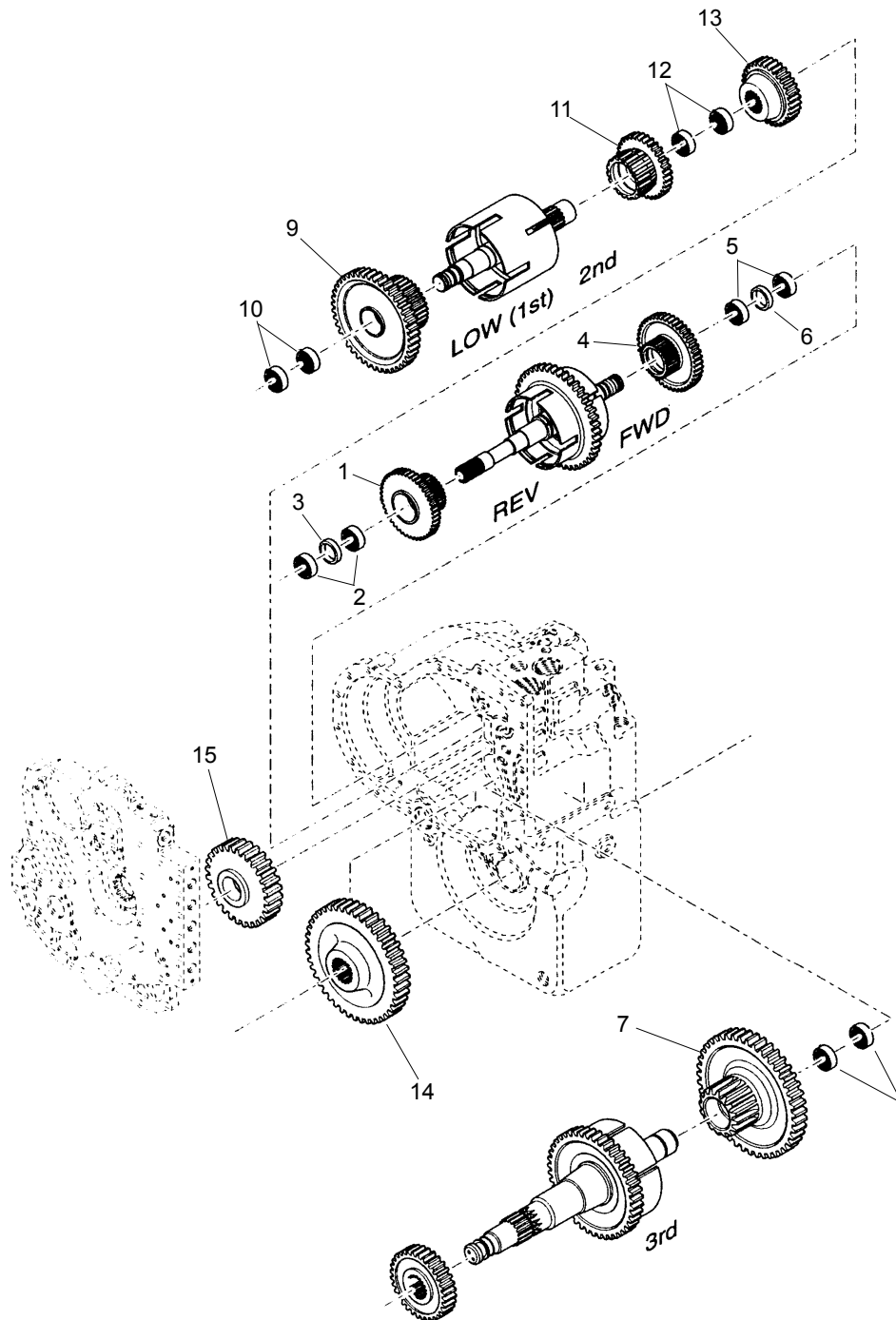
RS6 and RS8 Models Only



## Transmission

## RS Series

### Gear Assembly - (RS6 and RS8 Models)



RS6 and RS8 Models Only

**Telescopic Handler****Transmission*****Gear Assembly - (RS6 and RS8 Models)***

| Ref. No. | Part No. | Description                                                         | Qty. Req. | Ref. No.        | Part No. | Description                                                   | Qty. Req. |
|----------|----------|---------------------------------------------------------------------|-----------|-----------------|----------|---------------------------------------------------------------|-----------|
| 01       | NSS      | ASSY/REV. GEAR & BEARING . . . 1<br><i>(includes items 2 and 3)</i> |           | 09              | L98968   | 1st CLUTCH GEAR/BRG. ASSY . . . 1<br><i>(includes item 9)</i> |           |
| 02       | L98253   | BEARING/NEEDLE . . . . . 2<br><i>(part of item 1)</i>               |           | 10              | L98253   | BEARING/NEEDLE . . . . . 2<br><i>(part of item 9)</i>         |           |
| 03       | L98254   | SPACER/CLUTCH GEAR . . . . . 1<br><i>(part of item 1)</i>           |           | 11              | L98276   | 2nd CLUTCH GEAR/BRG. ASSY . . 1<br><i>(includes item 12)</i>  |           |
| 04       | NSS      | ASSY/FOR. GEAR & BEARING . . . 1<br><i>(includes items 5 and 6)</i> |           | 12              | L98253   | BEARING/NEEDLE . . . . . 2<br><i>(part of item 11)</i>        |           |
| 05       | L98253   | BEARING/NEEDLE . . . . . 2<br><i>(part of item 4)</i>               |           | 13              | L98277   | GEAR/THIRD DRIVEN - 18T . . . . 1                             |           |
| 06       | L98254   | SPACER/CLUTCH GEAR . . . . . 1<br><i>(part of item 4)</i>           |           | 14 <sup>a</sup> | L98284   | GEAR/OUTPUT SHAFT - 40T . . . . 1                             |           |
| 07       | L500407  | ASY. 3RD CLUTCH GEAR . . . . . 1<br><i>(includes item 8)</i>        |           | 15 <sup>b</sup> | L98955   | GEAR/REVERSE IDLER - 28T . . . . 1                            |           |
| 08       | L500408  | BEARING-3RD CLUTCH GEAR . . . 2<br><i>(part of item 7)</i>          |           | 16              | L500409  | GEAR/FIRST DRIVEN - 27T . . . . 1                             |           |

*a Refer to section "Output Shaft" for more information.*

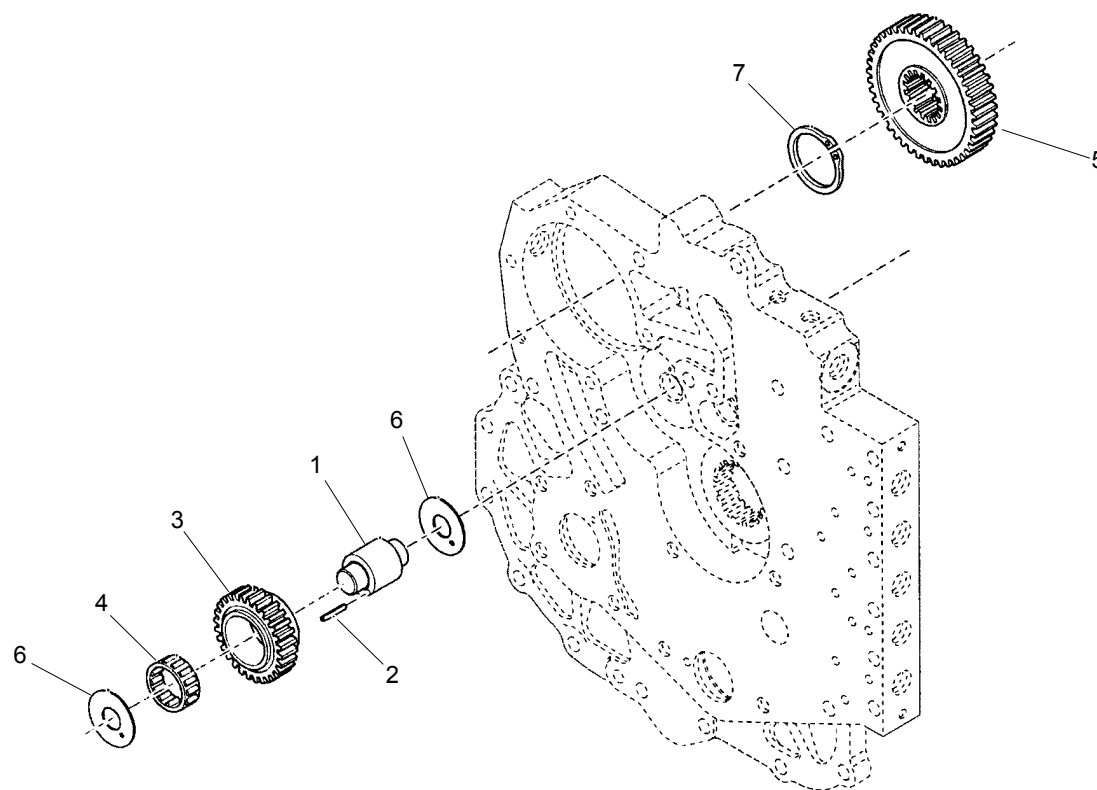
*b Refer to section "Reverse Idler" for more information.*



## Transmission

## RS Series

### Pump Drive - (RS6 and RS8 Models)



RS6 and RS8 Models Only

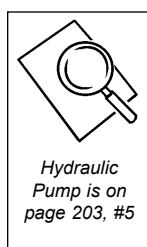
| Ref. No. | Part No. | Description                                    | Qty. Req. | Ref. No. | Part No. | Description                | Qty. Req. |
|----------|----------|------------------------------------------------|-----------|----------|----------|----------------------------|-----------|
| 01       | L98945   | IDLER/SHAFT & PIN. .... 1<br>(includes item 2) | 1         | 04       | L98943   | BEARING/IDLER GEAR ..... 1 | 1         |
| 02       | L98947   | ROLL PIN ..... 1<br>(part of item 1)           | 1         | 05       | L98211   | GEAR/DRIVE. .... 1         | 1         |
| 03       | L98944   | GEAR/IDLER,PUMP DRIVE ..... 1                  | 1         | 06       | L98942   | WASHER/THRUST ..... 2      | 2         |
|          |          |                                                |           | 07       | L98212   | RING/SNAP ..... 1          | 1         |



# Telescopic Handler

# Transmission

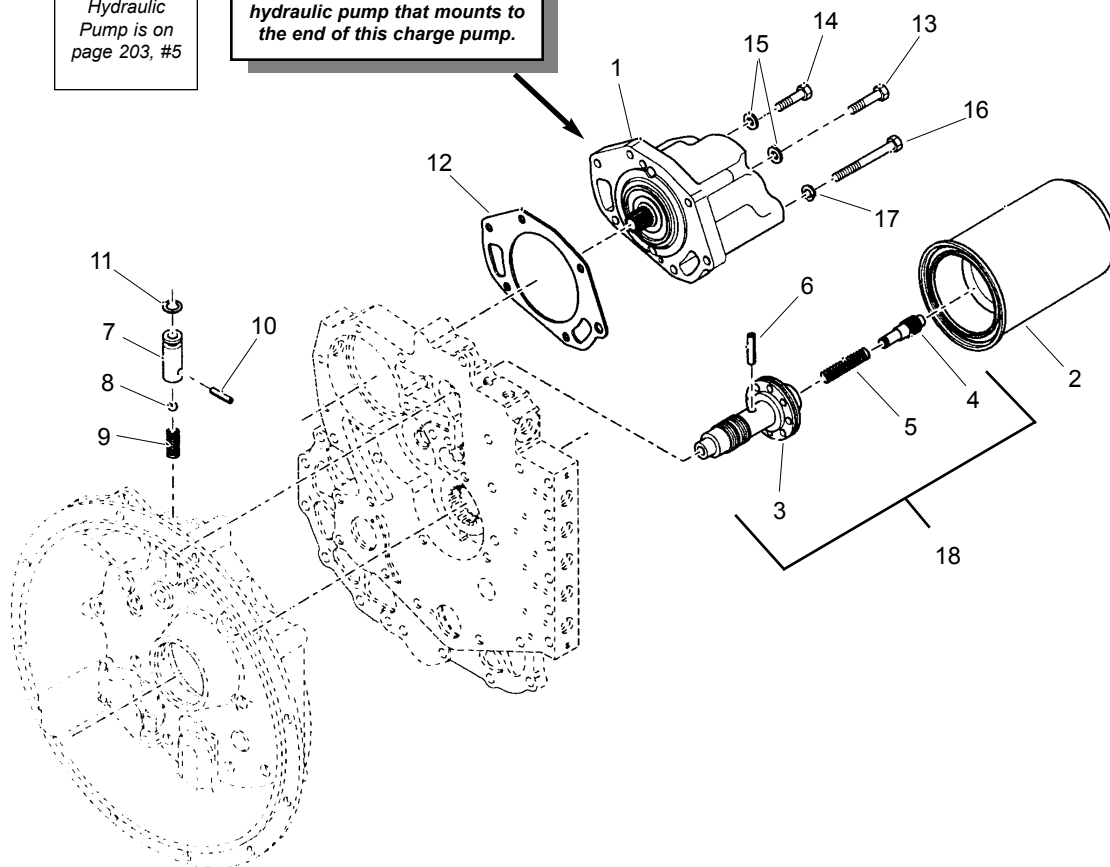
## Charge Pump - (RS6 and RS8 Models)



Hydraulic  
Pump is on  
page 203, #5

### CHARGE PUMP

Not to be confused with the  
hydraulic pump that mounts to  
the end of this charge pump.



RS6 and RS8 Models Only

| Ref. No. | Part No. | Description                | Qty. Req. | Ref. No. | Part No. | Description           | Qty. Req. |
|----------|----------|----------------------------|-----------|----------|----------|-----------------------|-----------|
| 01       | L98220   | CHARGE PUMP / T12000       | 1         | 10       | L98214   | PIN                   | 1         |
| 02       | L99184   | TRANSMISSION FILTER        | 1         | 11       | L98948   | O-RING                | 1         |
| 03       | L98953   | SLEEVE                     | 1         | 12       | L98219   | GASKET/CHARGE PUMP    | 1         |
| 04       | L98950   | PISTON                     | 1         | 13       | L99025   | SCREW                 | 4         |
| 05       | L98951   | SPRING                     | 1         | 14       | L99023   | SCREW                 | 1         |
| 06       | L98224   | PIN/CLARK TRANS.           | 1         | 15       | L99020   | WASHER/LOCK           | 5         |
| 07       | L98949   | ASSY/BALL CHECK VALVE      | 1         | 16       | L99027   | SCREW                 | 1         |
|          |          | (includes items 8 thru 11) |           | 17       | L99029   | WASHER/LOCK           | 1         |
| 08       | L98215   | BALL                       | 1         | 18       | L98954   | ASY., REGULATOR VALVE | 1         |
| 09       | L98216   | SPRING                     | 1         |          |          | (includes items 3-6)  |           |

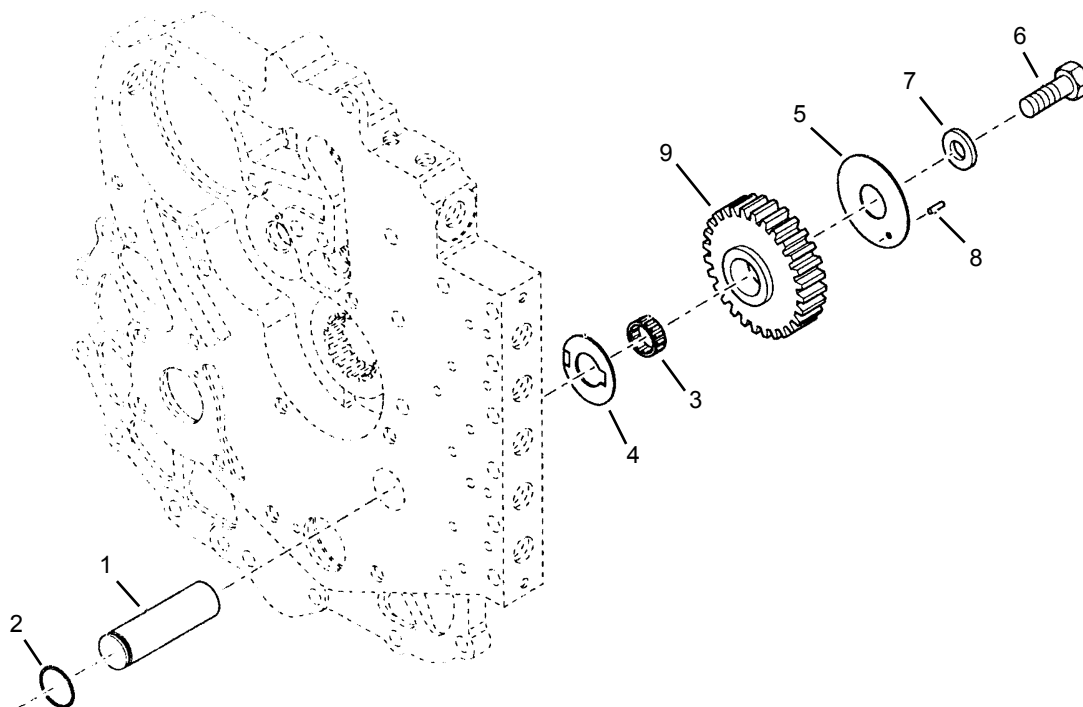




## Transmission

## RS Series

### *Reverse Idler - (RS6 and RS8 Models)*



RS6 and RS8 Models Only



Telescopic Handler

Transmission

Reverse Idler - (RS6 and RS8 Models)

| Ref. No. | Part No. | Description                      | Qty. Req. | Ref. No. | Part No. | Description          | Qty. Req. |
|----------|----------|----------------------------------|-----------|----------|----------|----------------------|-----------|
| 01       | L98229   | SHAFT IDLER & PILOT . . . . .    | 1         | 06       | L99031   | CAPSCREW . . . . .   | 1         |
| 02       | L98228   | RING/SNAP . . . . .              | 1         | 07       | L99032   | WASHER . . . . .     | 1         |
| 03       | L98231   | BEARING/REV IDLER GEAR . . . . . | 1         | 08       | L98233   | END PLATE . . . . .  | 1         |
| 04       | L98230   | WASHER/THRUST . . . . .          | 1         | 09       | L98955   | GEAR (24T) . . . . . | 1         |
| 05       | L98232   | END PLATE . . . . .              | 1         |          |          |                      |           |

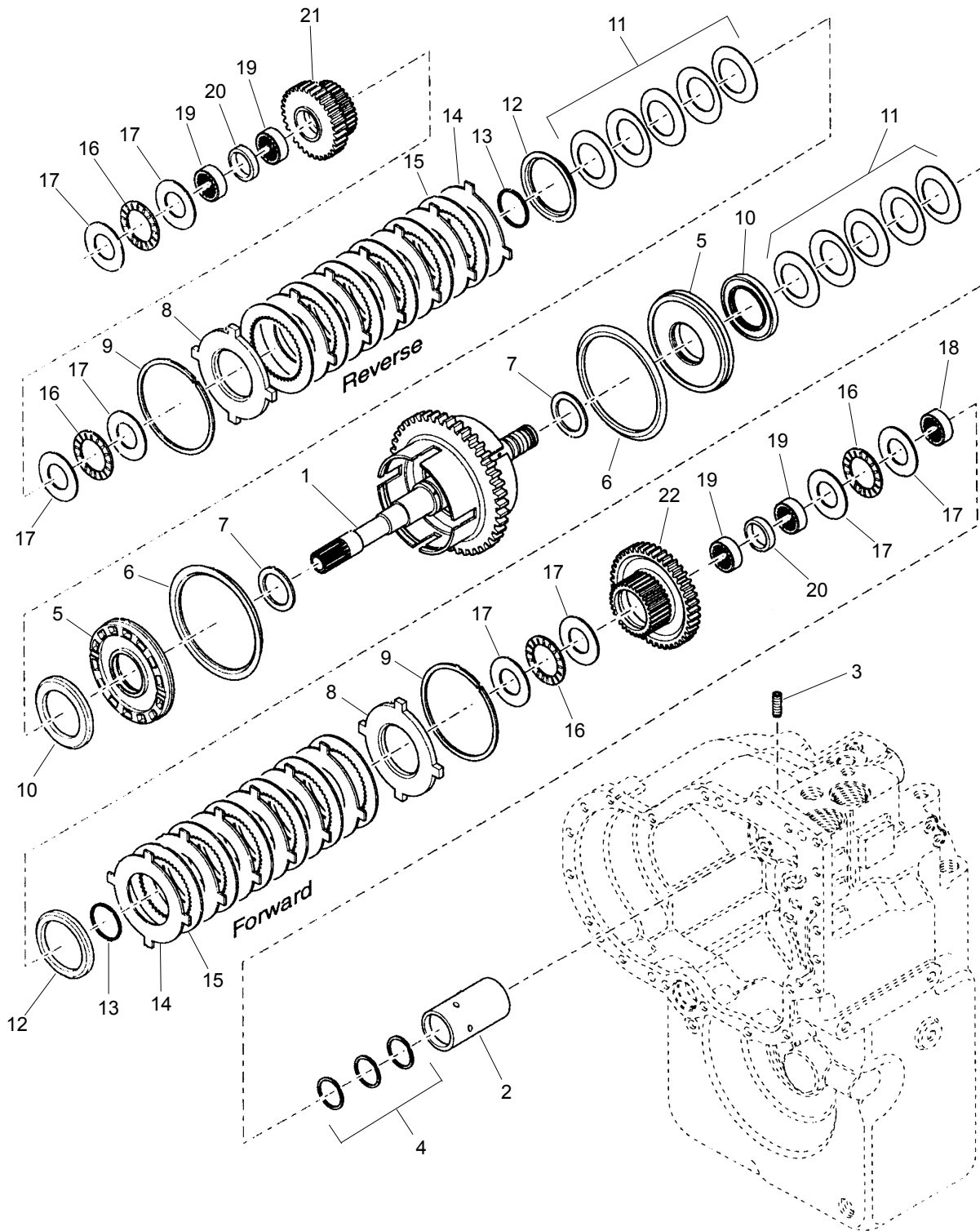
RS6 and RS8 Models Only



## Transmission

## RS Series

### *Forward and Reverse - (RS6 and RS8 Models)*



RS6 and RS8 Models Only

**Telescopic Handler****Transmission****Forward and Reverse - (RS6 and RS8 Models)**

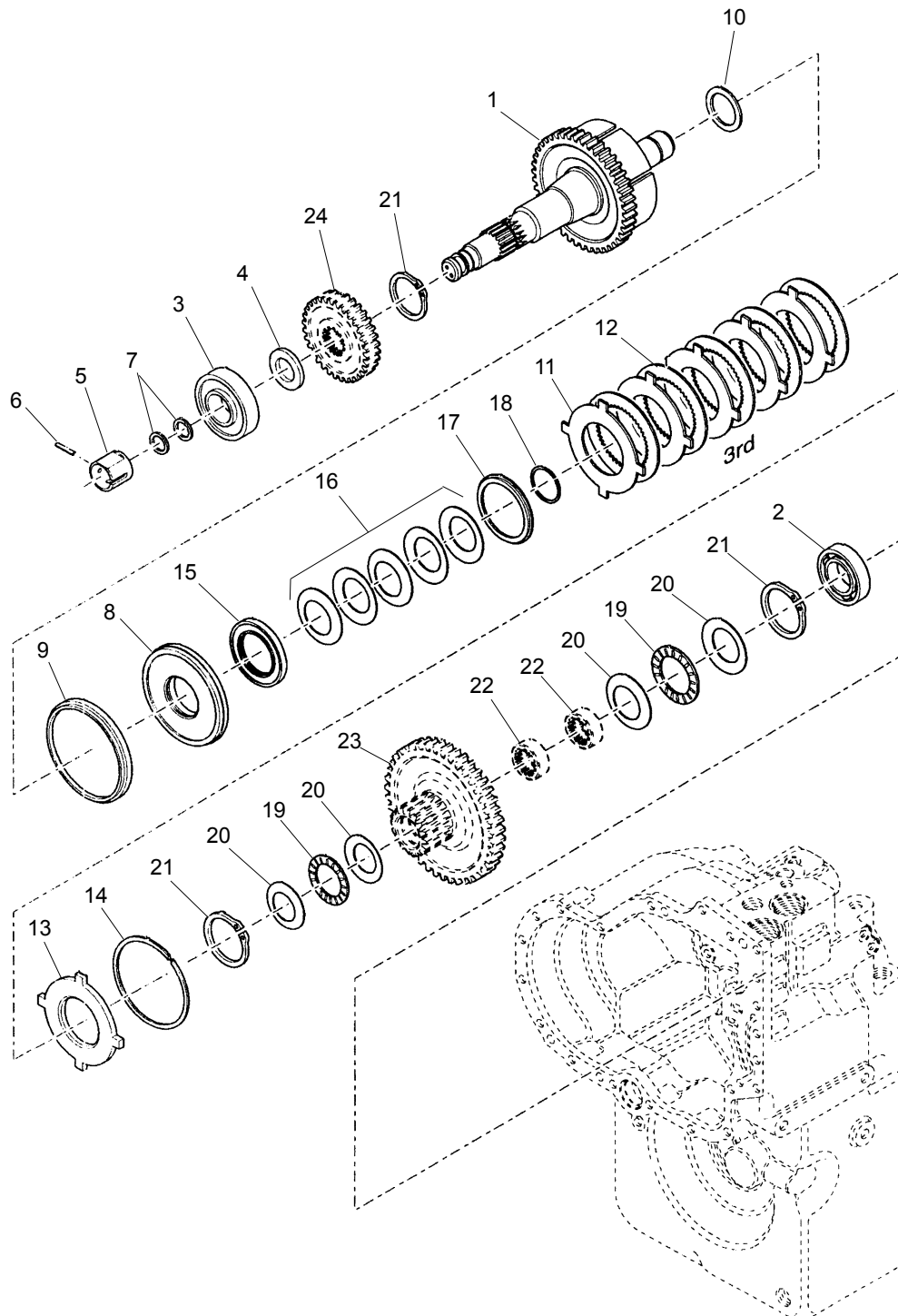
| Ref.<br>No. | Part<br>No. | Description                     | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                       | Qty.<br>Req. |
|-------------|-------------|---------------------------------|--------------|-------------|-------------|-----------------------------------|--------------|
| 01          | L98248      | ASY/TURB SHFT DRUM & PLUG .     | 1            | 12          | L98242      | RETAINER.....                     | 2            |
| 02          | L98251      | SLEEVE/OIL DISTRIBUTOR.....     | 1            | 13          | L98241      | RETAINER/SNAP RING .....          | 2            |
| 03          | L98252      | SCREW .....                     | 1            | 14          | L98240      | CLUTCH/OUTER FWD.....             | 12           |
| 04          | L98250      | RING/PISTON .....               | 3            | 15          | L98239      | CLUTCH/INNER FWD.....             | 12           |
| 05          | L99278      | ASY/PISTON .....                | 2            | 16          | L98236      | BEARING.....                      | 4            |
|             |             | <i>(includes items 6 and 7)</i> |              | 17          | L98235      | WASHER/THRUST .....               | 8            |
| 06          | L98246      | SEAL/OUTER PISTON .....         | 2            | 18          | L98249      | BEARING/REAR .....                | 1            |
|             |             | <i>(part of item 5)</i>         |              | 19          | L98253      | BEARING/CLUTCH GEAR .....         | 4            |
| 07          | L98247      | SEAL/INNER PISTON.....          | 2            | 20          | L98254      | SPACER/CLUTCH GEAR.....           | 2            |
|             |             | <i>(part of item 5)</i>         |              | 21          | L98962      | ASSY/REV. AND BRG. ....           | 1            |
| 08          | L98238      | PLATE/END .....                 | 2            |             |             | <i>(includes items 19 and 20)</i> |              |
| 09          | L98237      | RING/SNAP .....                 | 2            | 22          | L98255      | ASSY/FOR. GEAR AND BRG. ....      | 1            |
| 10          | L98244      | PLATE/WEAR .....                | 2            |             |             | <i>(includes items 19 and 20)</i> |              |
| 11          | L98961      | ASY/DISC SPRING Pkg 5.....      | 2            |             |             |                                   |              |



## Transmission

## RS Series

### Third Gear - (RS6 and RS8 Models)



RS6 and RS8 Models Only

**Telescopic Handler****Transmission*****Third Gear - (RS6 and RS8 Models)***

| Ref.<br>No. | Part<br>No. | Description                    | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                    | Qty.<br>Req. |
|-------------|-------------|--------------------------------|--------------|-------------|-------------|--------------------------------|--------------|
| 01          | L500410     | ASY-3RD SHAFT, DRUM & PLUG .   | 1            | 13          | L98238      | PLATE/END . . . . .            | 1            |
| 02          | L500411     | BEARING-ROLLER . . . . .       | 1            | 14          | L98237      | RING/SNAP . . . . .            | 1            |
| 03          | L500273     | ASSY/BEARING & SEAL . . . . .  | 1            | 15          | L98244      | RING/SNAP . . . . .            | 1            |
| 04          | L500412     | WASHER-BEARING SUPPORT . . .   | 1            | 16          | L98961      | ASY/DISC SPRG PKG 5 . . . . .  | 1            |
| 05          | L98258      | SLEEVE/OIL DISTRIBUTOR . . . . | 1            | 17          | L98242      | RETAINER . . . . .             | 1            |
| 06          | L98257      | SCREW/SLEEVE LOCK . . . . .    | 1            | 18          | L98241      | RETAINER/SNAP RING . . . . .   | 1            |
| 07          | L98250      | RING/PISTON . . . . .          | 2            | 19          | L500413     | BEARING-THRUST NEEDLE . . . .  | 2            |
| 08          | L99279      | ASSY/CLTCH PISTON & BALL . . . | 1            | 20          | L500414     | WASHER/CLTCH GEAR THRUST . .   | 4            |
| 09          | L98246      | SEAL/OUTER PISTON . . . . .    | 1            | 21          | L99696      | RING/SNAP . . . . .            | 3            |
| 10          | L98247      | SEAL/INNER PISTON . . . . .    | 1            | 22          | L500408     | BEARING-3RD CLUTCH GEAR . . .  | 2            |
| 11          | L98240      | CLUTCH/OUTER FWD . . . . .     | 5            | 23          | L500407     | ASY. 3RD CLUTCH GEAR . . . . . | 1            |
| 12          | L98239      | CLUTCH/INNER FWD . . . . .     | 5            | 24          | L500409     | GEAR-FIRST DRIVEN . . . . .    | 1            |

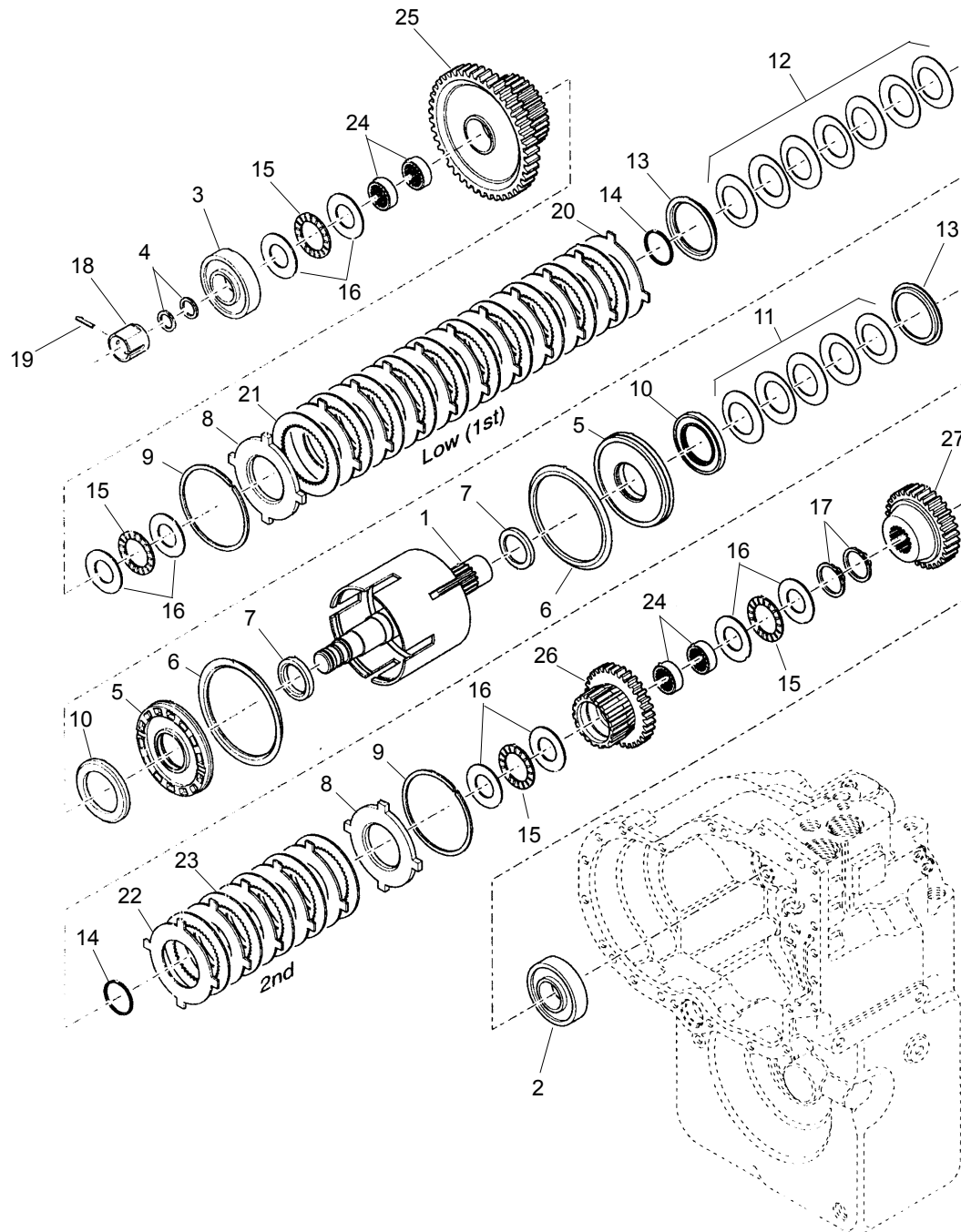
RS6 and RS8 Models Only



## Transmission

## RS Series

### *First and Second Gear - (RS6 and RS8 Models)*



RS6 and RS8 Models Only

**Telescopic Handler****Transmission*****First and Second Gear - (RS6 and RS8 Models)***

| Ref. No. | Part No. | Description                  | Qty. Req. | Ref. No. | Part No. | Description                 | Qty. Req. |
|----------|----------|------------------------------|-----------|----------|----------|-----------------------------|-----------|
| 01       | L98274   | ASY-1ST 2ND SHAFT.....       | 1         | 16       | L98235   | WASHER/THRUST.....          | 8         |
| 02       | L98275   | BEARING/REAR.....            | 1         | 17       | L98260   | RING/SNAP.....              | 2         |
| 03       | L500273  | ASSY/BEARING & SEAL.....     | 1         | 18       | L98272   | SLEEVE/OIL DISTRIBUTOR..... | 1         |
| 04       | L98250   | RING/PISTON.....             | 2         | 19       | L98257   | SCREW/SLEEVE LOCK.....      | 1         |
| 05       | L99038   | PISTON/CLUTCH & SEALS.....   | 2         | 20       | L98240   | CLUTCH/OUTER FWD.....       | 10        |
| 06       | L98246   | SEAL/OUTER PISTON.....       | 2         | 21       | L98239   | CLUTCH/INNER FWD.....       | 10        |
| 07       | L98247   | SEAL/INNER PISTON.....       | 2         | 22       | L98240   | CLUTCH/OUTER FWD.....       | 5         |
| 08       | L98238   | PLATE/END.....               | 2         | 23       | L98239   | CLUTCH/INNER FWD.....       | 5         |
| 09       | L98237   | RING/SNAP.....               | 2         | 24       | L98253   | BEARING/CLUTCH GEAR.....    | 4         |
| 10       | L98244   | PLATE/WEAR.....              | 2         | 25       | L98968   | 1ST CLUTCH GEAR/BRG ASSY .. | 1         |
| 11       | L98961   | ASSY/DISC SPRG PKG 5.....    | 1         |          |          | <i>(includes item 24)</i>   |           |
| 12       | L500416  | SPRING/DISC ASSY PKG (7).... | 1         | 26       | L98276   | 2ND CLUTCH GEAR/BRG ASSY .. | 1         |
| 13       | L98242   | RETAINER.....                | 2         |          |          | <i>(includes item 24)</i>   |           |
| 14       | L98241   | RETAINER/SNAP RING.....      | 2         | 27       | L98277   | GEAR/3RD DRIVEN.....        | 1         |
| 15       | L98236   | BEARING.....                 | 4         |          |          |                             |           |

RS6 and RS8 Models Only

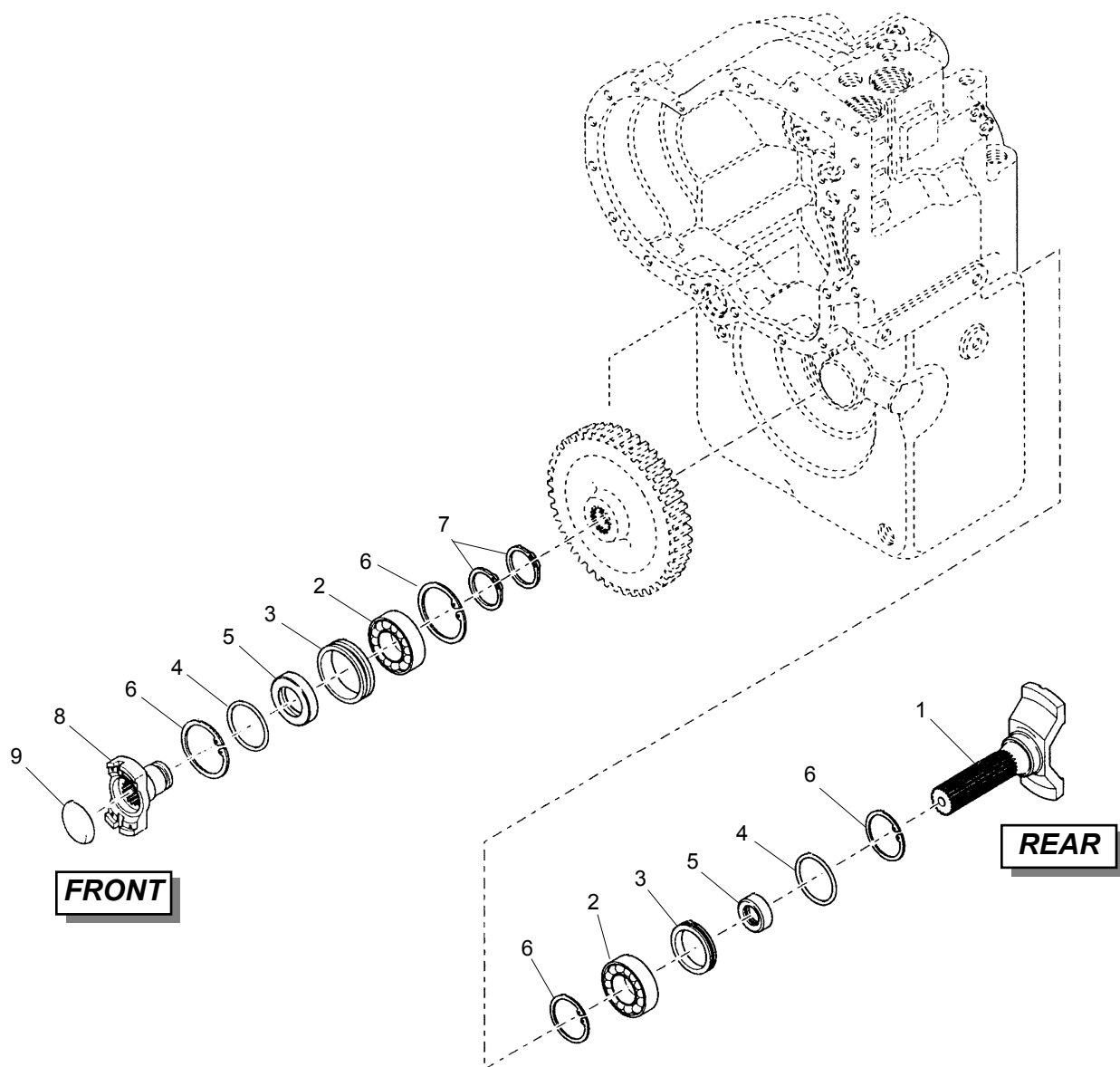




## Transmission

## RS Series

### Output Shaft - (RS6 and RS8 Models)



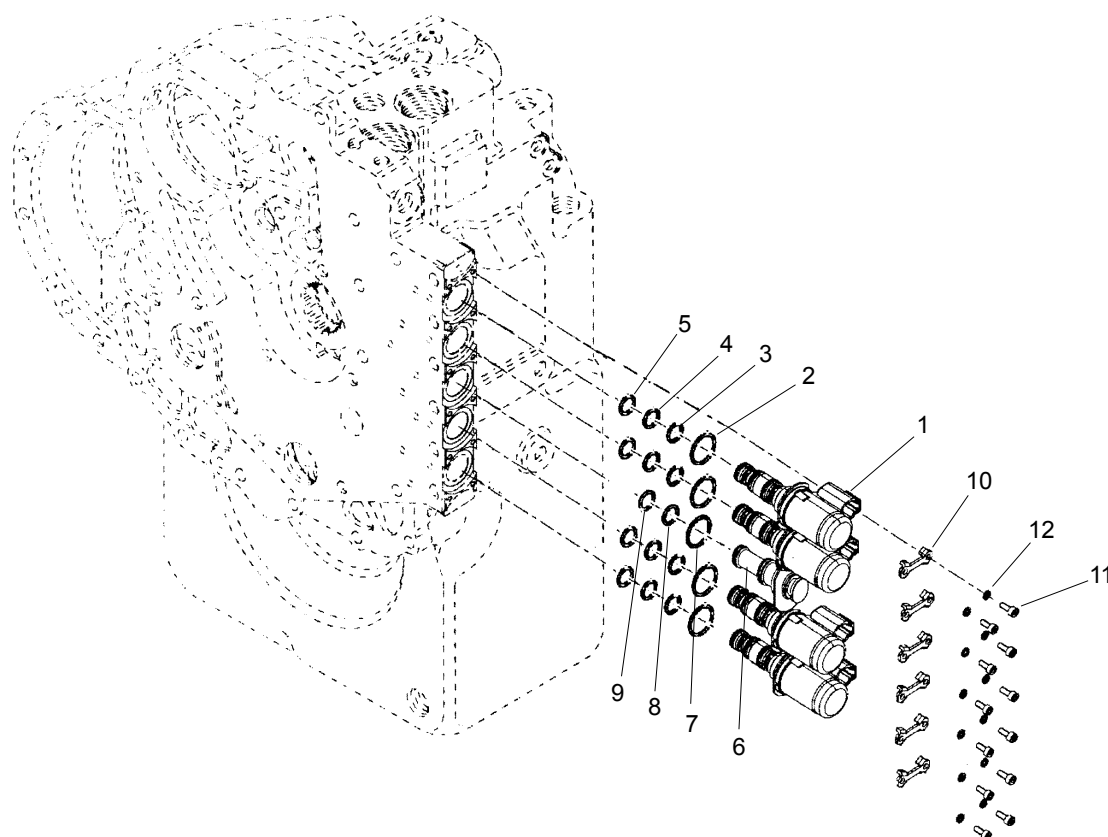
| Ref. No. | Part No. | Description                 | Qty. Req. | Ref. No. | Part No. | Description                 | Qty. Req. |
|----------|----------|-----------------------------|-----------|----------|----------|-----------------------------|-----------|
| 01       | L500274  | SHAFT/OUTPUT .....          | 1         | 06       | L98264   | RING/SNAP .....             | 4         |
| 02       | L98282   | BEARING/SHAFT .....         | 2         | 07       | L98266   | RING/SNAP .....             | 2         |
| 03       | L98281   | SLEEVE/OIL SEAL .....       | 2         | 08       | L98279   | FLANGE/OUTPUT & PLUG ASSY . | 1         |
| 04       | L98268   | O-RING/SLEEVE .....         | 2         | 09       | L98278   | PLUG/FLANGE .....           | 1         |
| 05       | L96053   | SEAL/OUTPUT SHAFT OIL ..... | 2         |          |          |                             |           |



# Telescopic Handler

# Transmission

## Electronic Controllers - (RS6 and RS8 Models)



RS6 and RS8 Models Only

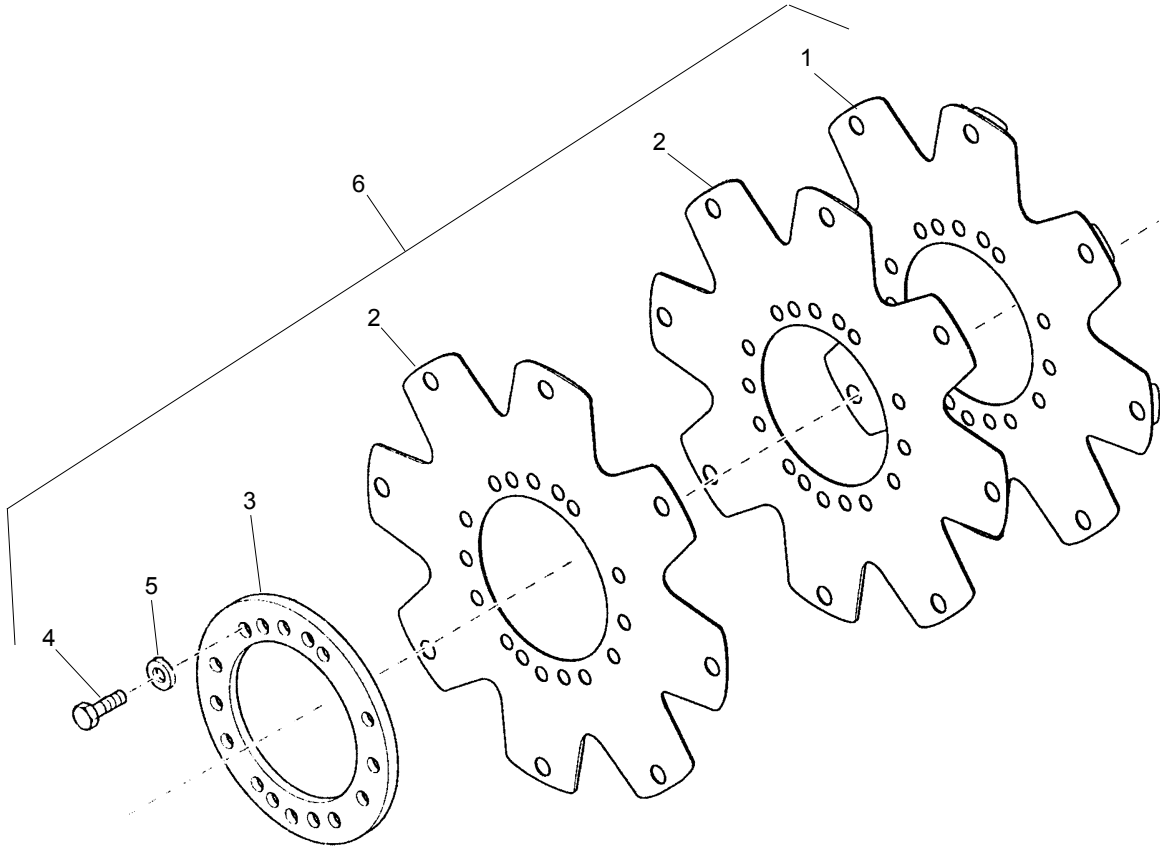
| Ref. No. | Part No. | Description                                                    | Qty. Req. | Ref. No. | Part No. | Description                                                 | Qty. Req. |
|----------|----------|----------------------------------------------------------------|-----------|----------|----------|-------------------------------------------------------------|-----------|
| 01       | 102950   | SOLENOID, W / DEUTSCH CON. . . 4<br>(includes items 2 thru 5)  | 4         | 07       | 102956   | O-RING, 18.0 X 2.20MM . . . . . 1<br>(included with item 6) | 1         |
| 02       | 102951   | O-RING, 21.5 X 1.5MM . . . . . 4<br>(included with item 1)     | 4         | 08       | 102952   | O-RING, 15.1 X 1.60MM . . . . . 1<br>(included with item 6) | 1         |
| 03       | 102952   | O-RING, 15.1 X 1.60MM . . . . . 4<br>(included with item 1)    | 4         | 09       | 102954   | O-RING, 12.1 X 1.60MM . . . . . 1<br>(included with item 6) | 1         |
| 04       | 102953   | O-RING, 14.1 X 1.60MM . . . . . 4<br>(included with item 1)    | 4         | 10       | 102957   | CLAMP, SOLENOID . . . . . 6                                 | 6         |
| 05       | 102954   | O-RING, 12.1 X 1.60MM . . . . . 4<br>(included with item 1)    | 4         | 11       | 106259   | CAPSCREW . . . . . 12                                       | 12        |
| 06       | 102955   | PLUG, SOLENOID BORE . . . . . 1<br>(includes items 7, 8 and 9) | 1         | 12       | 102959   | WASHER, PLAIN. . . . . 12                                   | 12        |



# Transmission

# RS Series

## Drive Plate - (RS6 and RS8 Models)



RS6 and RS8 Models Only

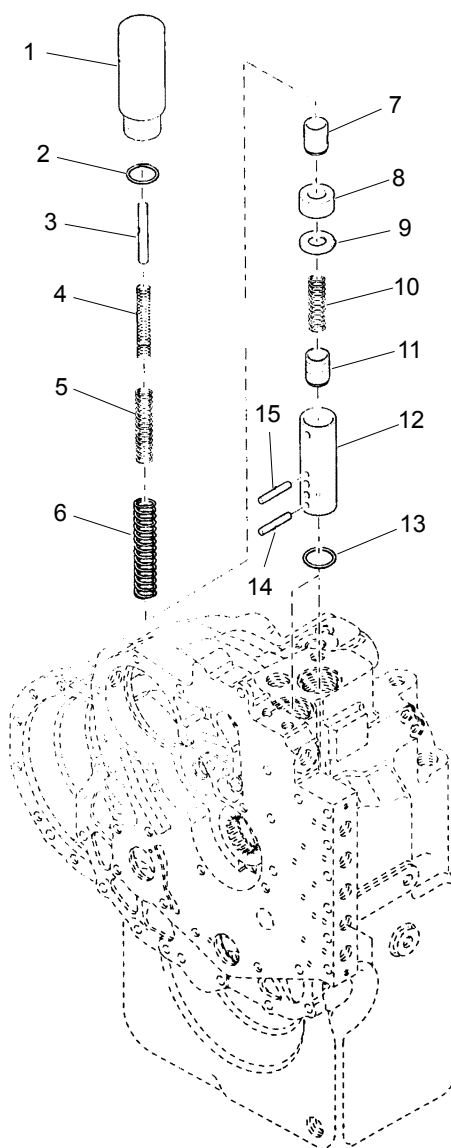
| Ref. No. | Part No. | Description                    | Qty. Req. | Ref. No. | Part No. | Description                   | Qty. Req. |
|----------|----------|--------------------------------|-----------|----------|----------|-------------------------------|-----------|
| 01       | NSS      | ASSY/DRIVE PLATE..... 1        |           | 04       | L99785   | SCREW/DRIVE PLATE MNTG .... 6 |           |
|          |          | (included in item 6)           |           | 05       | L99030   | LOCKWASHER/DRIVEPLATE .... 6  |           |
| 02       | NSS      | DRIVE PLATE ..... 2            |           | 06       | L98317   | KIT/DRIVE PLATE ASSY ..... 1  |           |
|          |          | (included in item 6)           |           |          |          | (includes items 1 thru 5)     |           |
| 03       | L98316   | RING/DRIVE PLATE BACKING ... 1 |           |          |          |                               |           |



# Telescopic Handler

# Transmission

## Modulation Valve - (RS6 and RS8 Models)



RS6 and RS8 Models Only

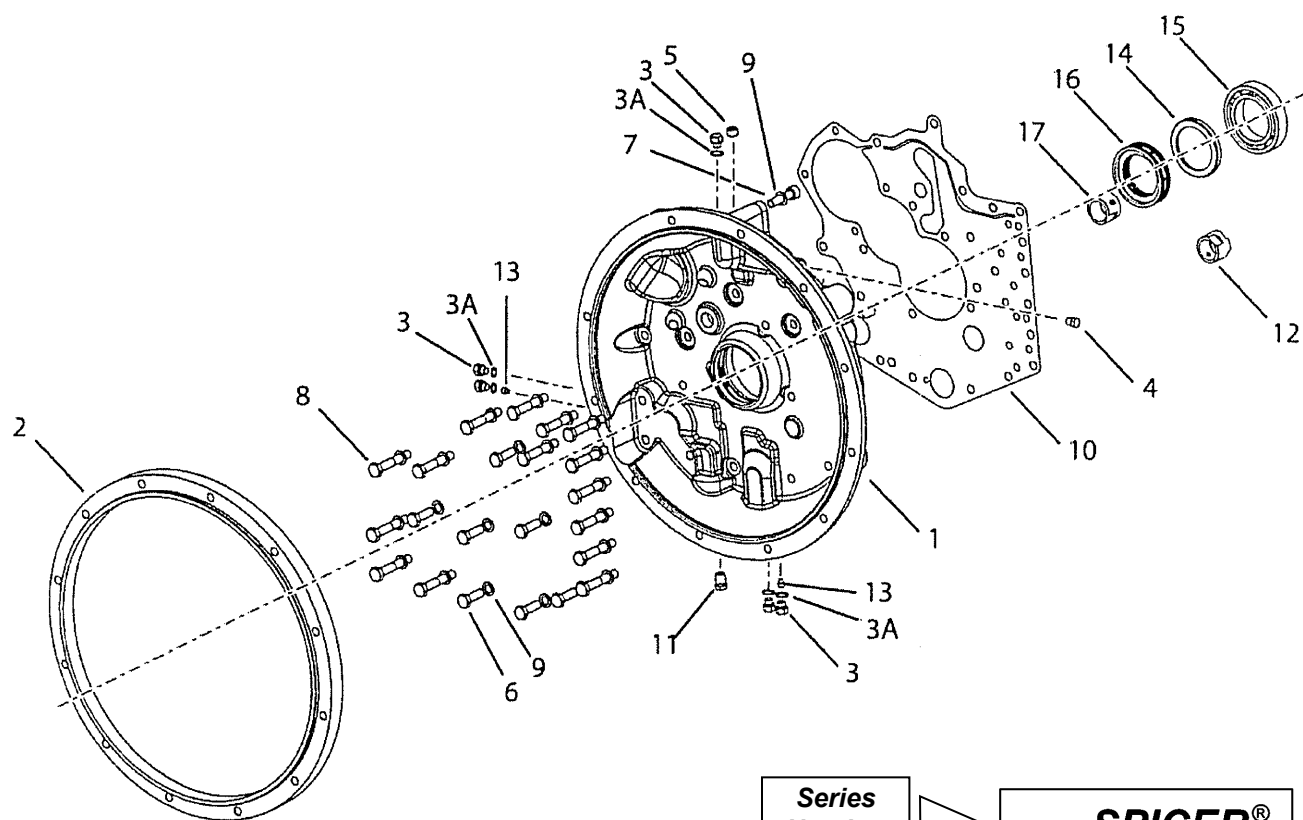
| Ref. No. | Part No. | Description                   | Qty. Req. | Ref. No. | Part No. | Description                   | Qty. Req. |
|----------|----------|-------------------------------|-----------|----------|----------|-------------------------------|-----------|
| 01       | L98291   | HOUSING MODULATOR VALVE . . . | 2         | 09       | L98301   | SPACER . . . . .              | 2         |
| 02       | L98292   | O-RING . . . . .              | 2         | 10       | L98300   | SPRING . . . . .              | 2         |
| 03       | L98293   | PIN STOP . . . . .            | 2         | 11       | L98958   | SPOOL . . . . .               | 2         |
| 04       | L98294   | SPRING INNER . . . . .        | 2         | 12       | L98298   | SLEEVE-MODULATION VALVE . . . | 2         |
| 05       | L98295   | SPRING MIDDLE . . . . .       | 2         | 13       | L98307   | O-RING . . . . .              | 2         |
| 06       | L98304   | SPRING OUTER . . . . .        | 2         | 14       | L98957   | PIN-LOWER . . . . .           | 2         |
| 07       | L98303   | SPOOL ACCUMULATOR . . . . .   | 2         | 15       | L98956   | PIN-UPPER . . . . .           | 2         |
| 08       | L98302   | RETAINER . . . . .            | 2         |          |          |                               |           |



# Transmission

# RS Series

## Torque Converter Housing - (RS10 and RS12 Models)



Series  
Number

**SPICER®**

MODEL  
SERIAL

The model/serial number plate is located on the front of transmission case—see page 76.

| Ref. No. | Part No. | Description                 | Qty. Req. | Ref. No. | Part No. | Description            | Qty. Req. |
|----------|----------|-----------------------------|-----------|----------|----------|------------------------|-----------|
| 01       | 106163   | CONVERTER HOUSING . . . . . | 1         | 07       | L99261   | SCREW . . . . .        | 1         |
|          | 50220019 | Series Number: 863/54       |           | 08       | L99260   | SCREW . . . . .        | 16        |
|          |          | Series Number: 863/57       |           | 09       | L99029   | LOCK WASHER . . . . .  | 23        |
| 02       |          | SPACER . . . . .            | 1         | 10       | L98938   | GASKET . . . . .       | 1         |
|          | 106164   | Series Number: 863/54       |           | 11       | L99249   | PLUG . . . . .         | 1         |
|          | NA       | Series Number: 863/57       |           | 12       | 106171   | SLEEVE, OIL . . . . .  | 1         |
| 03       | L99283   | PLUG . . . . .              | 5         | 13       | L98257   | SCREW . . . . .        | 2         |
|          | L99284   | O-RING . . . . .            | 5         | 14       | L98194   | SEAL . . . . .         | 1         |
| 04       | L99246   | PLUG, REGULATOR PRESS SIDE  | 1         | 15       | L98198   | BALL BEARING . . . . . | 1         |
| 05       | L99262   | PLUG, CHECK VALVE . . . . . | 1         | 16       | L98196   | RING . . . . .         | 1         |
| 06       | L99285   | SCREW . . . . .             | 6         | 17       | L98272   | SLEEVE, OIL . . . . .  | 1         |

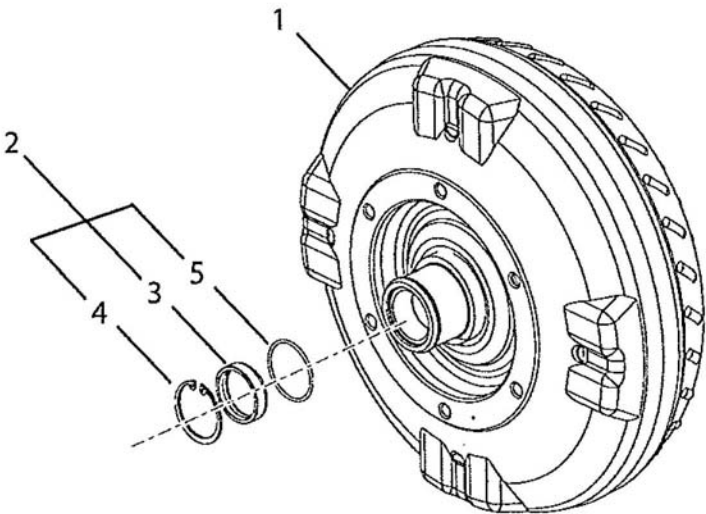
RS10 and RS12 Models Only



Telescopic Handler

Transmission

Torque Converter - (RS10 and RS12 Models)



| Ref. No. | Part No. | Description                                                 | Qty. Req. | Ref. No. | Part No. | Description         | Qty. Req. |
|----------|----------|-------------------------------------------------------------|-----------|----------|----------|---------------------|-----------|
| 01       | 106190   | TORQUE CONVERTER . . . . .                                  | 1         | 03       | 106192   | PLUG . . . . .      | 1         |
| 02       | 50220012 | KIT, TORQUE CONVERTER PLUG 1<br>(includes items 3, 4 and 5) |           | 04       | 106194   | SNAP RING . . . . . | 1         |
|          |          |                                                             |           | 05       | 106193   | O-RING . . . . .    | 1         |

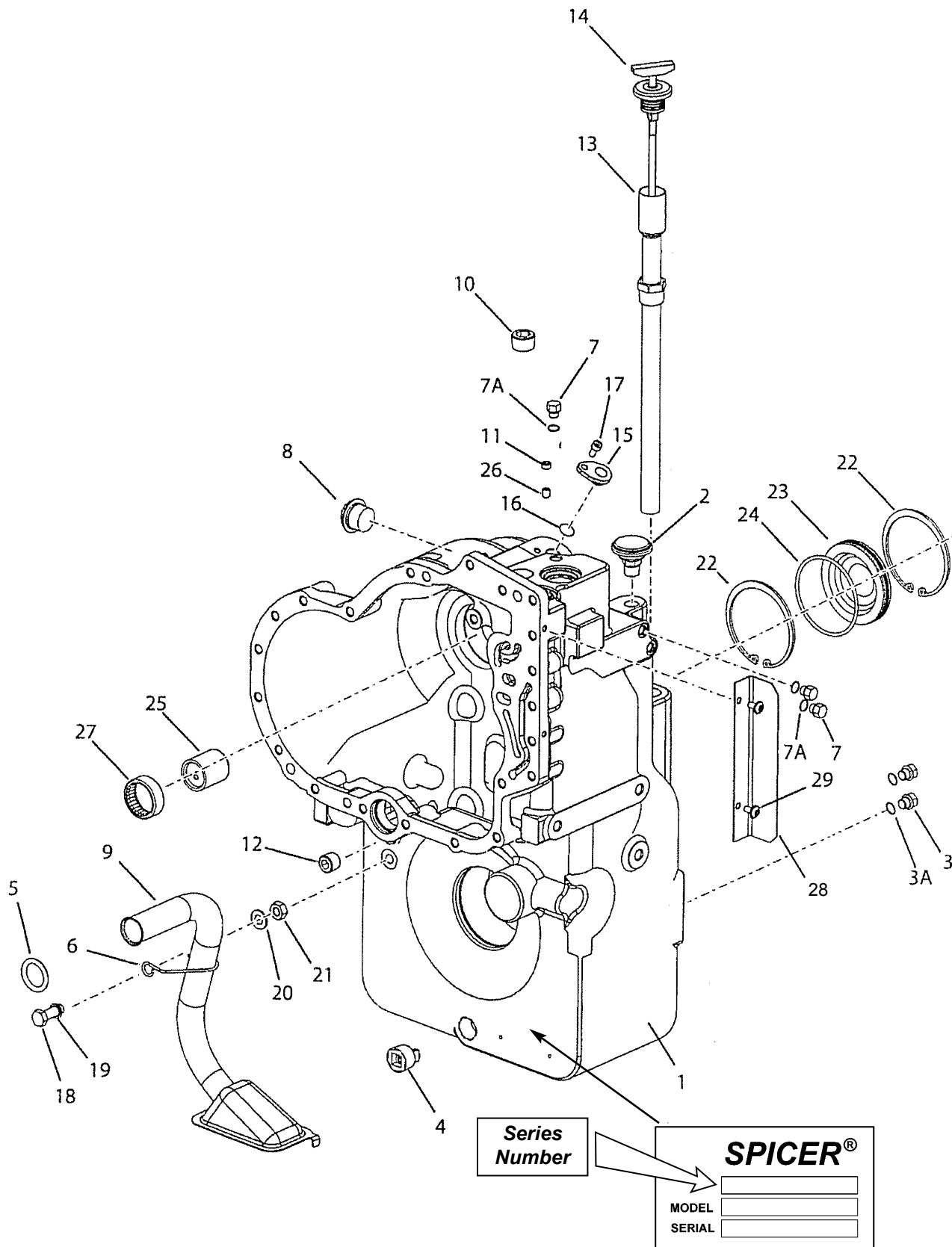
RS10 and RS12 Models Only



# Transmission

# RS Series

Case - (RS10 and RS12 Models)



The model/serial number plate is located on the front of transmission case—see page 76.

RS10 and RS12 Models Only

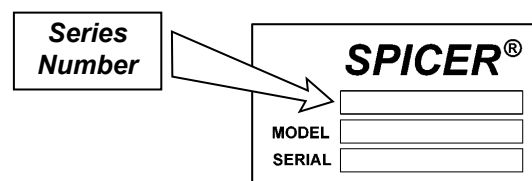


## Telescopic Handler

## Transmission

### Case - (RS10 and RS12 Models)

| Ref. No. | Part No. | Description                     | Qty. Req. | Ref. No. | Part No. | Description                    | Qty. Req. |
|----------|----------|---------------------------------|-----------|----------|----------|--------------------------------|-----------|
| 01       |          | CASE-TRANSMISSION . . . . .     | 1         | 14       | L98735   | DIPSTICK ASSEMBLY . . . . .    | 1         |
|          | 106172   | Series Number: 863/54           |           | 15       | 106176   | PLUG, SPEED SENSOR . . . . .   | 1         |
|          | 50220010 | Series Number: 863/57           |           | 16       | 106177   | O-RING, SPEED SENSOR . . . . . | 1         |
| 02       | L94824   | AIR BREATHER, VENT. . . . .     | 1         | 17       | L99288   | SCREW . . . . .                | 1         |
| 03       | L99251   | PLUG . . . . .                  | 2         | 18       | L99285   | BOLT . . . . .                 | 1         |
|          | L99013   | O-RING . . . . .                | 2         | 19       | L99294   | SEALING WASHER . . . . .       | 1         |
| 04       | L99253   | PLUG, MAGNETIC . . . . .        | 1         | 20       | L99295   | WASHER . . . . .               | 1         |
| 05       | L98185   | RING, OIL SUPPLY TUBE . . . . . | 1         | 21       | L99296   | NUT . . . . .                  | 1         |
| 06       | L98176   | CLIP, OIL SUPPLY TUBE . . . . . | 1         | 22       | 106180   | SNAP RING . . . . .            | 2         |
| 07       | L99283   | PLUG . . . . .                  | 3         | 23       | L99280   | PLUG . . . . .                 | 1         |
|          | L99284   | O-RING . . . . .                | 3         | 24       | L98268   | O-RING . . . . .               | 1         |
| 09       | L98184   | TUBE, SCREEN ASSEMBLY . . . . . | 1         | 25       | L98251   | SLEEVE . . . . .               | 1         |
| 10       | L99274   | PLUG . . . . .                  | 1         | 26       | L98252   | SET SCREW . . . . .            | 1         |
| 11       |          | PLUG . . . . .                  | 1         | 27       |          | BEARING . . . . .              | 1         |
|          | L99770   | Series Number: 863/54           |           |          | L98249   | Series Number: 863/54          |           |
|          | L99246   | Series Number: 863/57           |           |          | 50220011 | Series Number: 863/57          |           |
| 12       | 106175   | PLUG . . . . .                  | 1         | 28       | 106181   | PLATE . . . . .                | 1         |
| 13       | L98734   | TUBE, DIPSTICK . . . . .        | 1         | 29       | 106182   | BOLT, SOCKET HEAD M6 . . . . . | 2         |



The model/serial number plate is located on the front of transmission case—see page 76.

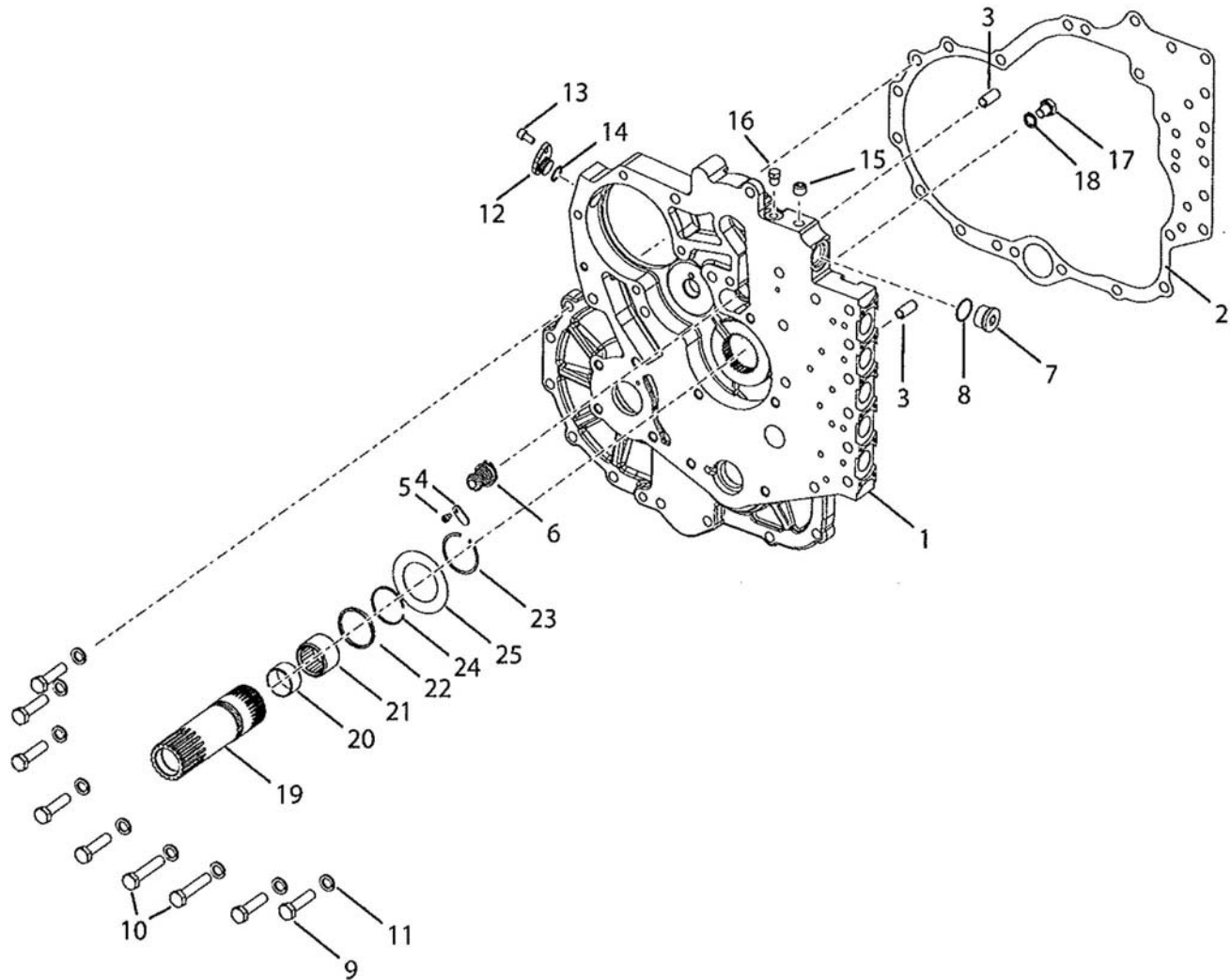




## Transmission

## RS Series

### Spacer Plate - (RS10 and RS12 Models)



RS10 and RS12 Models Only



Telescopic Handler

Transmission

Spacer Plate - (RS10 and RS12 Models)

| Ref. No. | Part No. | Description                 | Qty. Req. | Ref. No. | Part No. | Description                | Qty. Req. |
|----------|----------|-----------------------------|-----------|----------|----------|----------------------------|-----------|
| 01       | 106183   | PLATE, SPACER.....          | 1         | 14       | 106177   | O-RING, SPEED SENSOR.....  | 1         |
| 02       | L98926   | GASKET.....                 | 1         | 15       | L99246   | PIPE PLUG.....             | 1         |
| 03       | L98927   | PIN, ROLL.....              | 2         | 16       | L99262   | PLUG.....                  | 1         |
| 04       | 106184   | PLATE, LOCK.....            | 1         | 17       | 106189   | BOLT.....                  | 1         |
| 05       | 106185   | BOLT.....                   | 1         | 18       | L99294   | WASHER.....                | 1         |
| 06       | 106186   | SAFETY VALVE ASSEMBLY.....  | 1         | 19       | 106190   | STATOR SUPPORT ASSEMBLY .. | 1         |
| 07       | 106187   | PLUG (includes item 8)..... | 1         |          |          | (includes items 3 and 4)   |           |
| 08       | 106188   | O-RING.....                 | 1         | 20       | L98204   | BUSHING.....               | 1         |
| 09       | L99018   | BOLT.....                   | 7         | 21       | L98197   | BEARING, NEEDLE.....       | 1         |
| 10       | L99045   | BOLT.....                   | 2         | 22       | L98201   | RING, PISTON.....          | 1         |
| 11       | L99029   | LOCK WASHER.....            | 9         | 23       | L98200   | SNAP RING.....             | 1         |
| 12       | 106176   | PLUG, SPEED SENSOR.....     | 1         | 24       | L98202   | EXPANDER SPRING.....       | 1         |
| 13       | L99288   | BOLT.....                   | 1         | 25       | L98205   | WASHER, THRUST.....        | 1         |

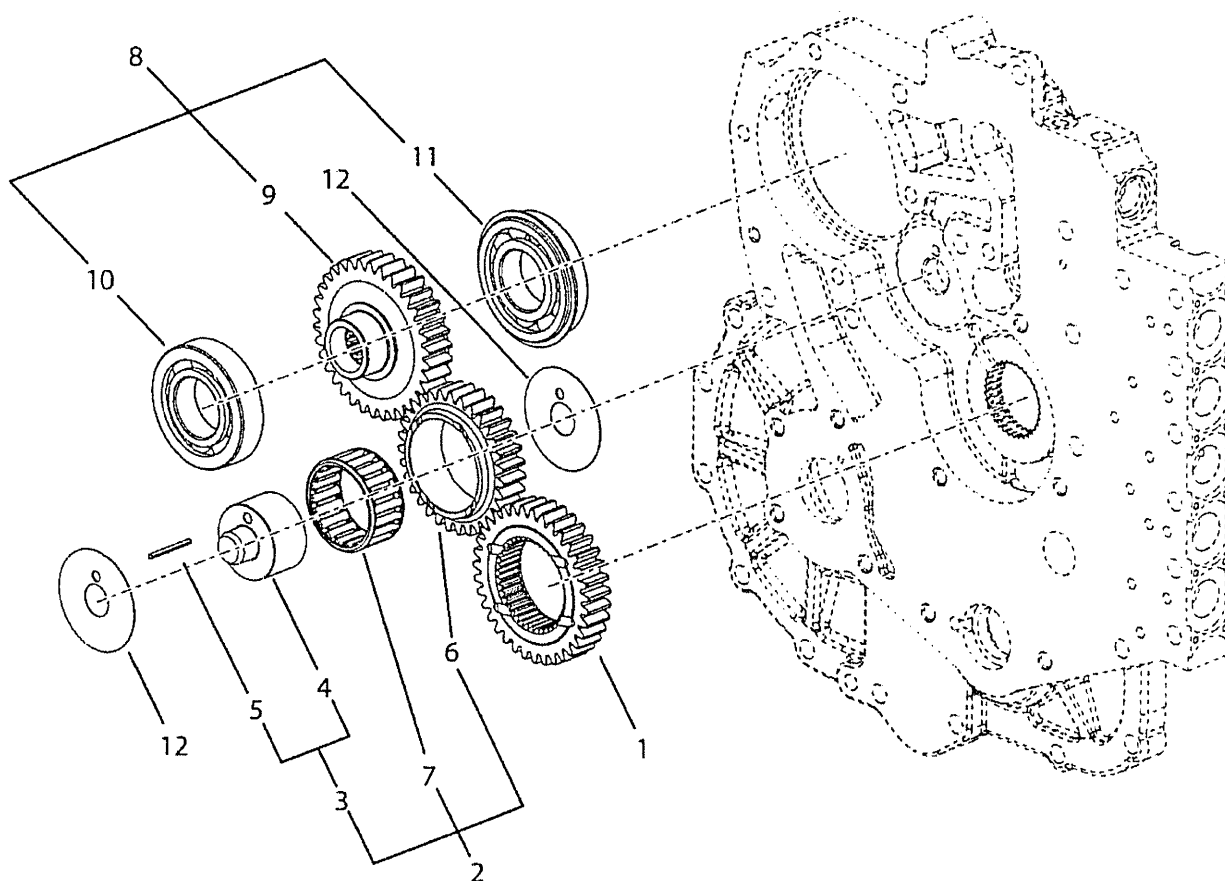
RS10 and RS12 Models Only



## Transmission

## RS Series

### Pump Drive - (RS10 and RS12 Models)



| Ref. No. | Part No. | Description                  | Qty. Req. | Ref. No. | Part No. | Description                   | Qty. Req. |
|----------|----------|------------------------------|-----------|----------|----------|-------------------------------|-----------|
| 01       | L98954   | GEAR, IMPELLER.....          | 1         | 07       | L98943   | BEARING , NEEDLE.....         | 1         |
| 02       | 106196   | PUMP DRIVE IDLER.....        | 1         | 08       | 106201   | PUMP DRIVE GEAR.....          | 1         |
|          |          | (includes items 3, 6 and 7)  |           |          |          | (includes items 9, 10 and 11) |           |
| 03       | 106197   | PUMP DRIVE SHAFT.....        | 1         | 09       | 106202   | GEAR, PUMP DRIVE.....         | 1         |
|          |          | (includes items 4 and 5)     |           | 10       | 106203   | BEARING, BALL.....            | 1         |
| 04       | 106198   | SHAFT, PUMP DRIVE IDLER..... | 1         | 11       | 106213   | BEARING, BALL.....            | 1         |
| 05       | 106199   | PIN, ROLL.....               | 1         | 12       | L98942   | WASHER, THRUST.....           | 2         |
| 06       | 106200   | GEAR, PUMP DRIVE (31T).....  | 1         |          |          |                               |           |

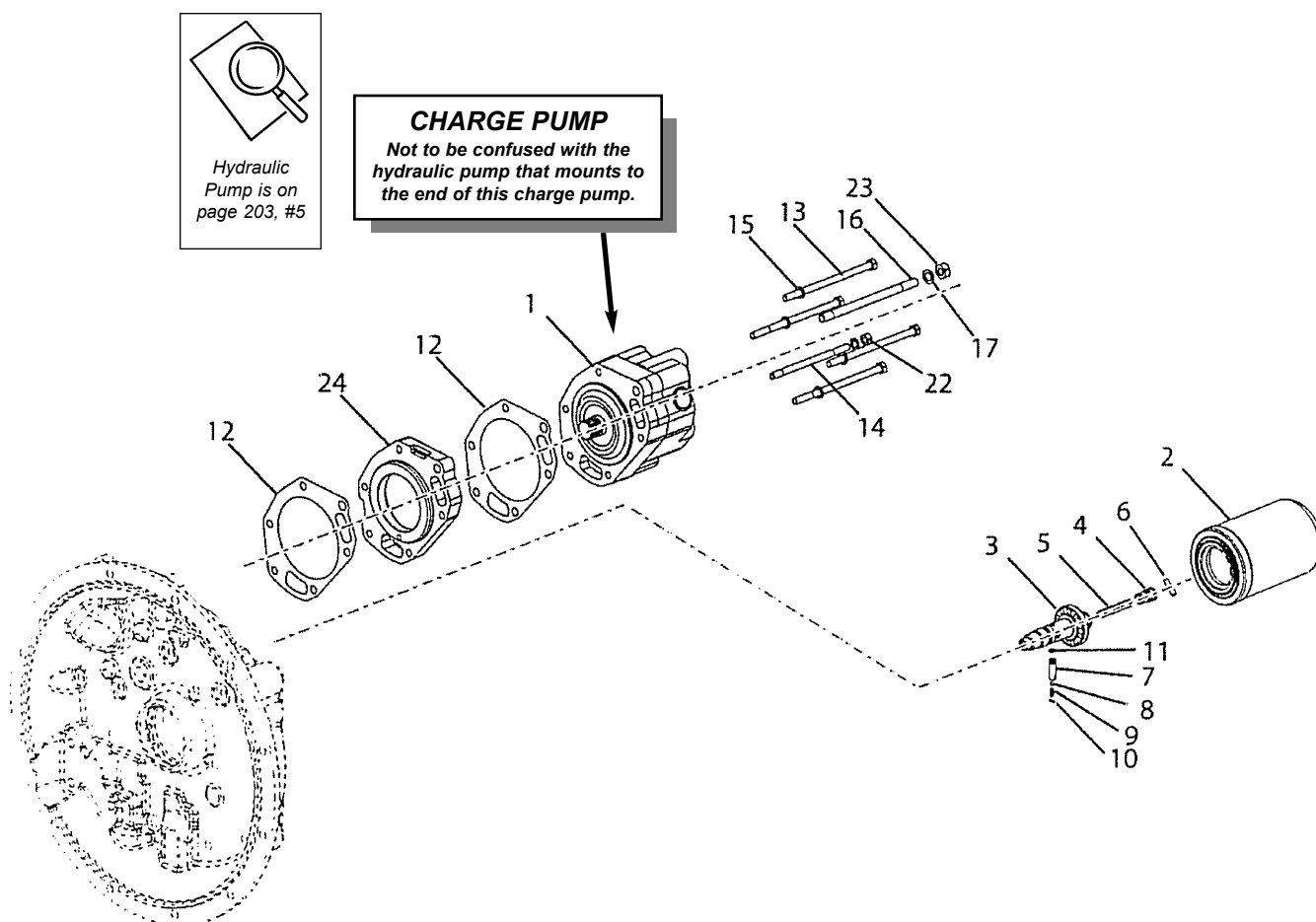
RS10 and RS12 Models Only



## Telescopic Handler

## Transmission

## Charge Pump - (RS10 and RS12 Models)



| Ref. No.        | Part No. | Description                 | Qty. Req. |
|-----------------|----------|-----------------------------|-----------|
| 01 <sup>a</sup> | L98220   | CHARGE PUMP .....           | 1         |
| 02              | L99184   | TRANSMISSION FILTER .....   | 1         |
| 03              | 106206   | REGULATOR VALVE .....       | 1         |
|                 |          | (includes items 4-6)        |           |
| 04              | 106207   | PISTON, REGULATOR VALVE.... | 1         |
| 05              | L98951   | SPRING.....                 | 1         |
| 06              | L98224   | NEEDLE, ROLLER .....        | 1         |
| 07              | L98949   | BALL CHECK VALVE .....      | 1         |
|                 |          | (includes items 8-11)       |           |
| 08              | L98215   | BALL .....                  | 1         |
| 09              | L98216   | SPRING.....                 | 1         |
| 10              | L98214   | PIN, ROLL .....             | 1         |
| 11              | L98948   | O-RING .....                | 1         |

| Ref. No. | Part No. | Description                | Qty. Req. |
|----------|----------|----------------------------|-----------|
| 12       | L98219   | GASKET, CHARGE PUMP .....  | 1         |
| 13       | 106209   | BOLT .....                 | 4         |
| 14       | 106210   | STUD .....                 | 1         |
| 15       | L99020   | LOCK WASHER .....          | 5         |
| 16       | 106212   | STUD.....                  | 1         |
| 17       | L99029   | LOCK WASHER .....          | 1         |
| 22       | 106216   | NUT .....                  | 1         |
| 23       | L99296   | NUT .....                  | 1         |
| 24       | 106217   | ADAPTER, PUMP TO PLATE.... | 1         |

<sup>a</sup> **NOTE:** This is the charge pump for the transmission, not the hydraulic pump for the hydraulic system; refer to the Hydraulic section for information regarding the hydraulic pump.

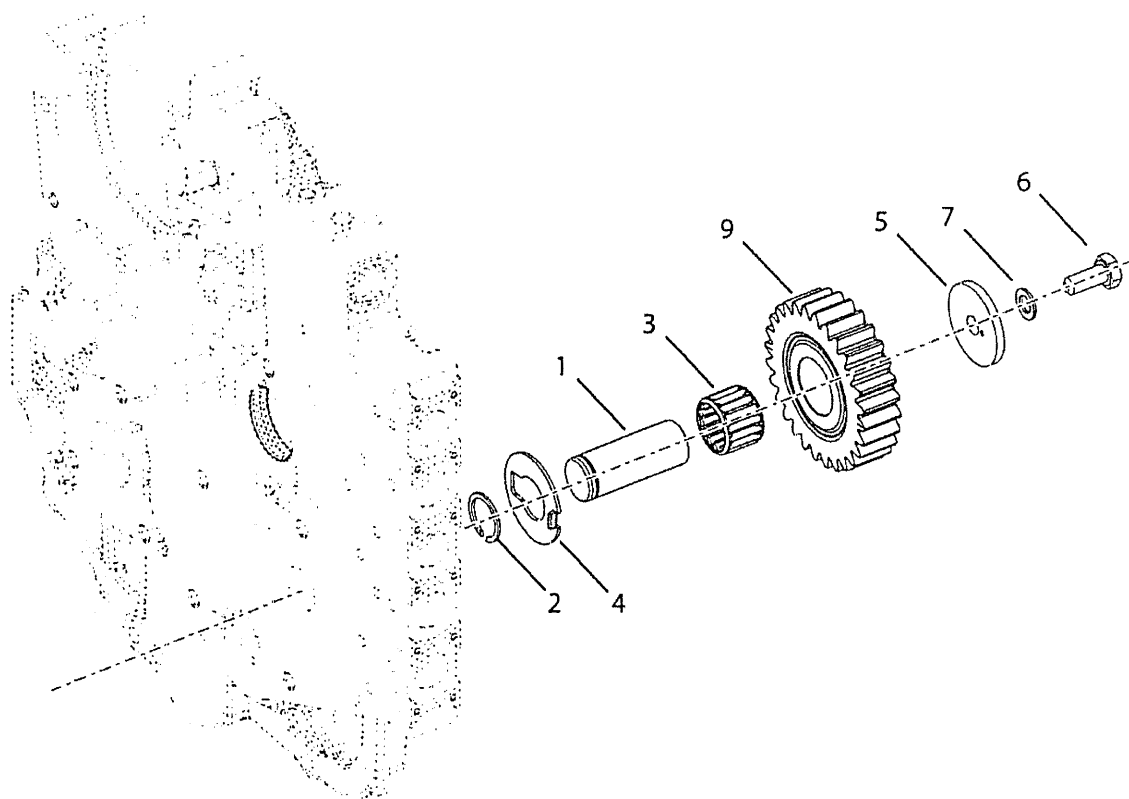
RS10 and RS12 Models Only



Transmission

Reverse Idler - (RS10 and RS12 Models)

RS Series



RS10 and RS12 Models Only

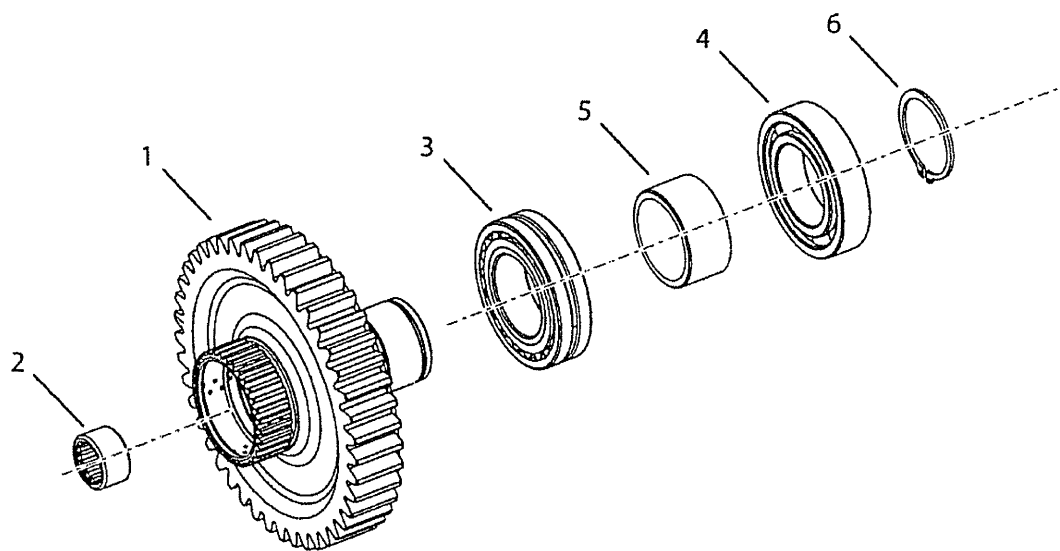
| Ref. No. | Part No. | Description                      | Qty. Req. | Ref. No. | Part No. | Description                         | Qty. Req. |
|----------|----------|----------------------------------|-----------|----------|----------|-------------------------------------|-----------|
| 01       | L98229   | SHAFT IDLER & PILOT . . . . .    | 1         | 06       | L99031   | CAPSCREW . . . . .                  | 1         |
| 02       | L98228   | RING/SNAP . . . . .              | 1         | 07       | L99032   | WASHER . . . . .                    | 1         |
| 03       | L98231   | BEARING/REV IDLER GEAR . . . . . | 1         | 09       | 106220   | GEAR, REVERSE IDLER (28T) . . . . . | 1         |
| 04       | L98230   | WASHER/THRUST . . . . .          | 1         |          |          |                                     |           |
| 05       | L98232   | END PLATE . . . . .              | 1         |          |          |                                     |           |



Telescopic Handler

Transmission

Clutch Gear - 3rd Gear - (RS10 and RS12 Models)



| Ref. No. | Part No. | Description                      | Qty. Req. | Ref. No. | Part No. | Description               | Qty. Req. |
|----------|----------|----------------------------------|-----------|----------|----------|---------------------------|-----------|
| 01       | 106237   | GEAR, 3RD CLUTCH (43T) . . . . . | 1         | 04       | 106239   | BEARING. . . . .          | 1         |
| 02       | L98263   | BEARING, NEEDLE . . . . .        | 1         | 05       | 106240   | SPACER, BEARING . . . . . | 1         |
| 03       | 106238   | SPHERICAL BEARING. . . . .       | 1         | 06       | L98266   | SNAP RING. . . . .        | 1         |

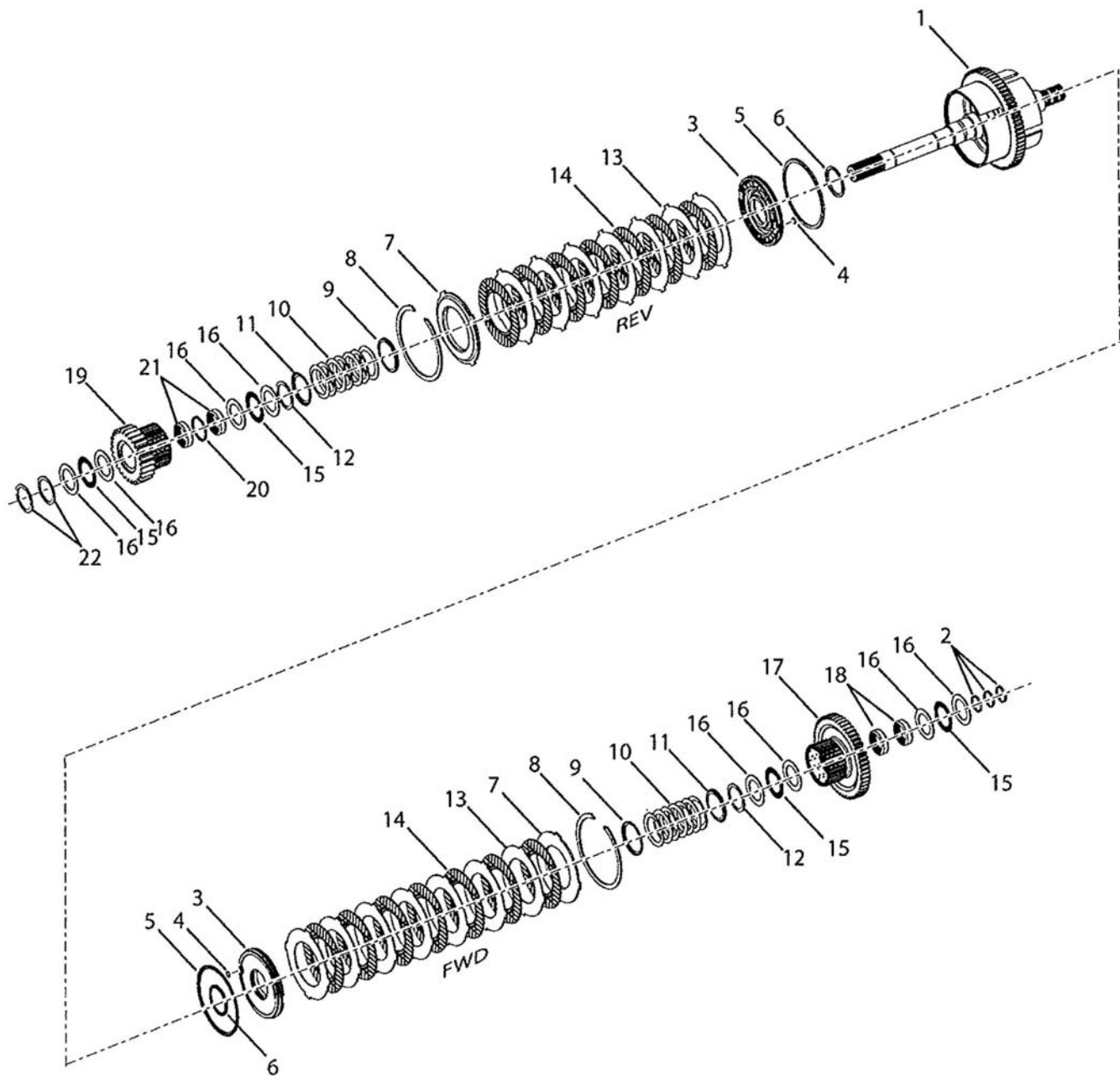
RS10 and RS12 Models Only



## Transmission

## RS Series

### Forward and Reverse Shaft - (RS10 and RS12 Models)

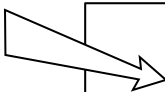


RS10 and RS12 Models Only

**Telescopic Handler****Transmission****Forward and Reverse Shaft - (RS10 and RS12 Models)**

| Ref. No. | Part No. | Description                                                       | Qty. Req. | Ref. No. | Part No. | Description                                                       | Qty. Req. |
|----------|----------|-------------------------------------------------------------------|-----------|----------|----------|-------------------------------------------------------------------|-----------|
| 01       | 106221   | TURBO SHFT DRUM & PLUG . . . . 1                                  |           | 14       |          | DISC, INNER. . . . . 14                                           |           |
|          | 50220013 | Series Number: 863/54                                             |           |          |          | (Seven discs in forward clutch and seven discs in reverse clutch) |           |
| 02       | L98250   | RING, PISTON. . . . . 3                                           |           |          | L98239   | Series Number: 863/54                                             |           |
| 03       | L99278   | CLUTCH PISTON . . . . . 2                                         |           |          | 50220014 | Series Number: 863/57                                             |           |
|          |          | (includes items 4 -6)                                             |           | 15       | L98236   | BEARING, THRUST . . . . . 4                                       |           |
| 04       | NSS      | SCREEN . . . . . 1                                                |           | 16       | L98235   | WASHER, THRUST . . . . . 8                                        |           |
| 05       | L98246   | SEAL . . . . . 1                                                  |           | 17       |          | CLUTCH FWD GEAR & BEARING. 1                                      |           |
| 06       | L98247   | SEAL . . . . . 1                                                  |           |          |          | (includes item 18)                                                |           |
| 07       | 106223   | PLATE, END . . . . . 2                                            |           |          | 106225   | Series Number: 863/54                                             |           |
| 08       | L98237   | INTERNAL SNAP RING . . . . . 2                                    |           |          | 50220015 | Series Number: 863/57                                             |           |
| 09       | L98244   | PLATE, CLUTCH PISTON WEAR. . 2                                    |           | 18       | L98253   | BEARING, NEEDLE . . . . . 2                                       |           |
| 10       | L500416  | DISC SPRING (7 springs). . . . . 2                                |           | 19       | 106226   | REVERSE GEAR ASSY. . . . . 1                                      |           |
| 11       | L98242   | RETAINER, SNAP RING. . . . . 2                                    |           |          |          | (includes items 20 and 21)                                        |           |
| 12       | L98241   | SNAP RING, RETAINER. . . . . 2                                    |           | 20       | 106227   | SPACER . . . . . 1                                                |           |
| 13       | 106224   | DISC, OUTER . . . . . 14                                          |           | 21       | L98253   | BEARING, NEEDLE . . . . . 2                                       |           |
|          |          | (Seven discs in forward clutch and seven discs in reverse clutch) |           | 22       | 106195   | SNAP RING. . . . . 2                                              |           |

**Series Number**



**SPICER®**  
MODEL   
SERIAL

The model/serial number plate is located on the front of transmission case—see page 76.

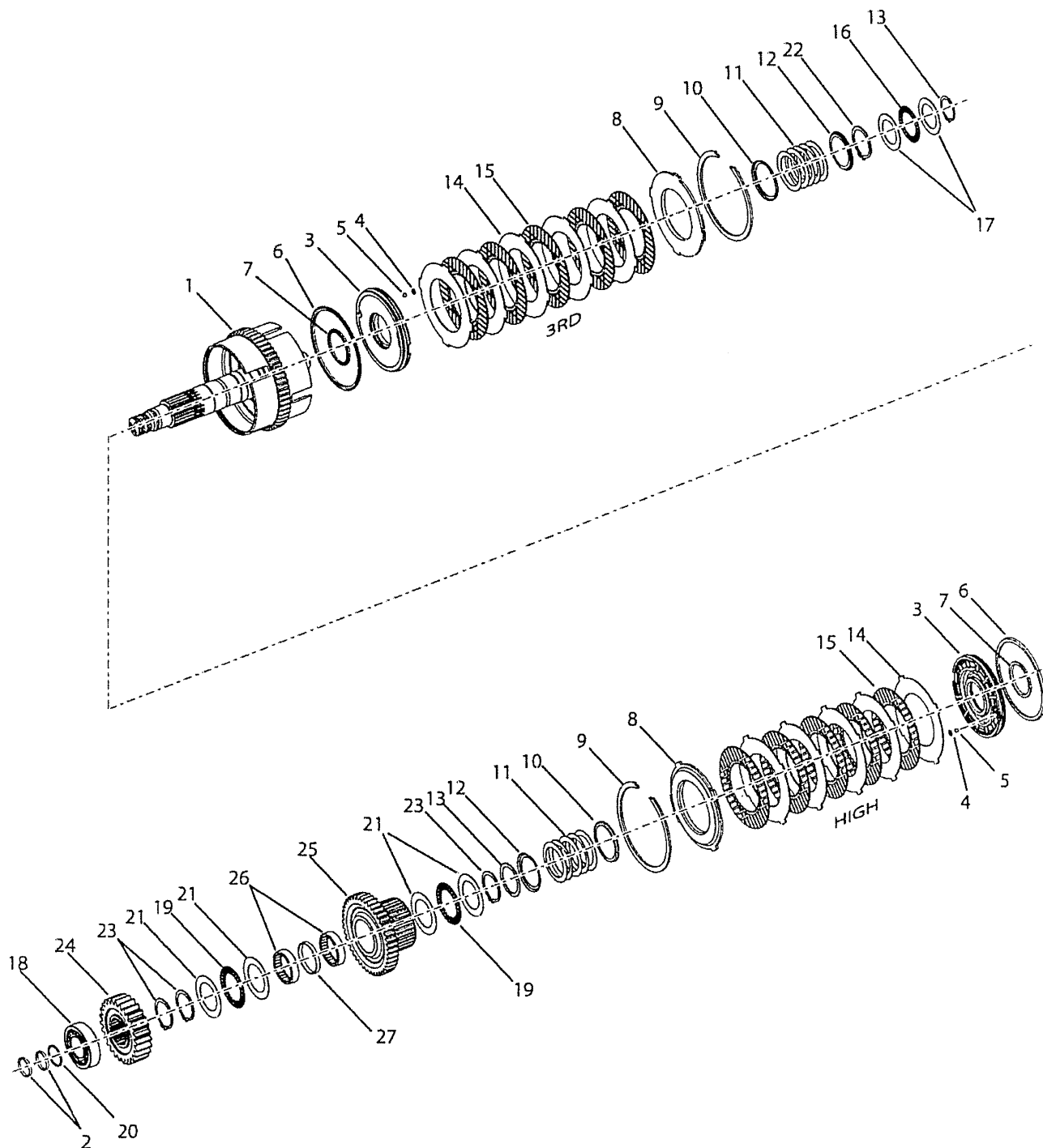




## Transmission

## RS Series

### High and Third Gear Shaft - (RS10 and RS12 Models)

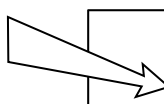


RS10 and RS12 Models Only

**Telescopic Handler****Transmission****High and Third Gear Shaft - (RS10 and RS12 Models)**

| Ref. No. | Part No. | Description                                              | Qty. Req. | Ref. No. | Part No. | Description                                              | Qty. Req. |
|----------|----------|----------------------------------------------------------|-----------|----------|----------|----------------------------------------------------------|-----------|
| 01       | 106228   | HIGH AND THIRD SHAFT . . . . .                           | 1         | 15       |          | DISC, INNER. . . . .                                     | 10        |
| 02       | L98250   | RING, PISTON. . . . .                                    | 2         |          |          | (Five inner discs in high and five inner discs in third) |           |
| 03       | L99279   | CLUTCH PISTON . . . . .                                  | 2         |          |          | Series Number: 863/54                                    |           |
|          |          | (includes items 4-7)                                     |           |          | L98239   | Series Number: 863/57                                    |           |
| 04       | NSS      | SEAT, BALL. . . . .                                      | 1         |          | 50220014 |                                                          |           |
| 05       | NSS      | BALL . . . . .                                           | 1         | 16       | L98236   | BEARING, THRUST . . . . .                                | 1         |
| 06       | L98246   | SEAL . . . . .                                           | 1         | 17       | L98235   | WASHER, THRUST . . . . .                                 | 2         |
| 07       | L98247   | SEAL . . . . .                                           | 1         | 18       | 106230   | BEARING, ROLLER . . . . .                                | 1         |
| 08       | 106223   | PLATE, END . . . . .                                     | 2         | 19       | L500413  | BEARING, THRUST . . . . .                                | 2         |
| 09       | L98237   | INTERNAL SNAP RING . . . . .                             | 2         | 20       | 106231   | RING, PISTON. . . . .                                    | 1         |
| 10       | L98244   | PLATE, CLUTCH PISTON . . . . .                           | 2         | 21       | L500414  | WASHER, CLUTCH GEAR. . . . .                             | 4         |
| 11       | L98961   | DISC SPRING . . . . .                                    | 2         | 22       | 106232   | SNAP RING. . . . .                                       | 1         |
|          |          | (includes 5 disc-springs)                                |           | 23       | L99696   | SNAP RING, EXTERNAL . . . . .                            | 3         |
| 12       | L98242   | RETAINER, SNAP RING. . . . .                             | 2         | 24       | 106233   | GEAR, FIRST DRIVE (27T) . . . . .                        | 1         |
| 13       | L98241   | SNAP RING, RETAINER . . . . .                            | 2         | 25       | 106234   | HIGH GEAR . . . . .                                      | 1         |
| 14       | 106224   | DISC, OUTER . . . . .                                    | 10        |          |          | (includes items 26 and 27)                               |           |
|          |          | (Five outer discs in high and five outer discs in third) |           | 26       | 106235   | BEARING, NEEDLE . . . . .                                | 2         |
|          |          |                                                          |           | 27       | 106236   | SPACER . . . . .                                         | 1         |

**Series Number**



**SPICER®**  
MODEL   
SERIAL

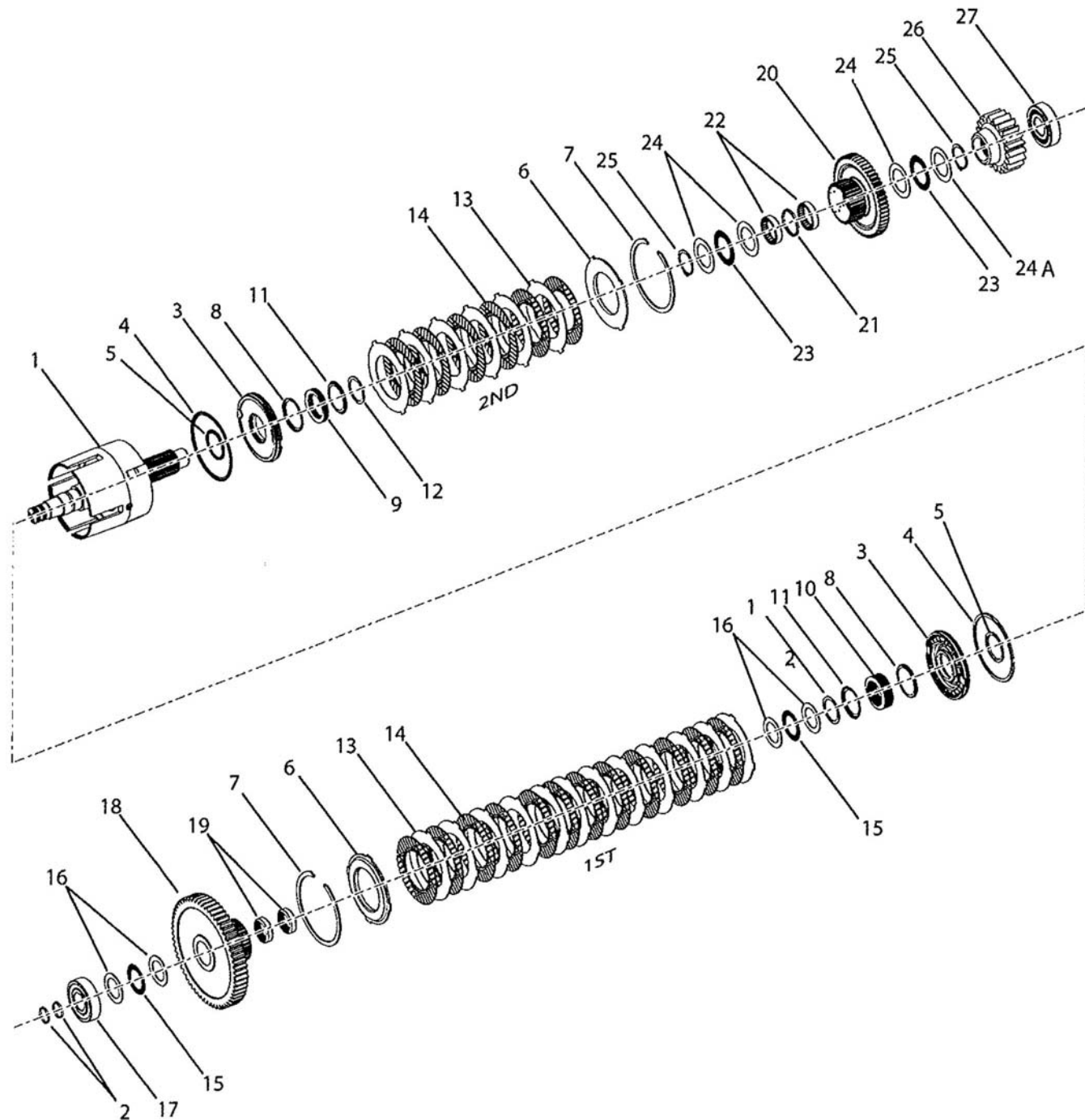
The model/serial number plate is located on the front of transmission case—see page 76.



## Transmission

## RS Series

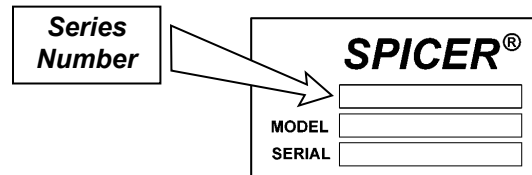
### *First and Second Gear - (RS10 and RS12 Models)*



RS10 and RS12 Models Only

**Telescopic Handler****Transmission****First and Second Gear - (RS10 and RS12 Models)**

| Ref. No. | Part No. | Description                    | Qty. Req. | Ref. No. | Part No. | Description                     | Qty. Req. |
|----------|----------|--------------------------------|-----------|----------|----------|---------------------------------|-----------|
| 01       | 106242   | 1ST-2ND SHAFT . . . . .        | 1         | 17       | L500273  | BEARING AND SEAL . . . . .      | 1         |
|          | 50220016 | Series Number: 863/54          |           | 18       | 106244   | 1ST CLUTCH GEAR . . . . .       | 1         |
|          |          | Series Number: 863/57          |           |          |          | (includes item 18)              |           |
| 02       | L98250   | RING, PISTON . . . . .         | 2         | 19       | L98253   | BEARING , NEEDLE . . . . .      | 1         |
| 03       | L99038   | CLUTCH PISTON . . . . .        | 2         | 20       | 106245   | 2ND CLUTCH GEAR. . . . .        | 1         |
| 04       | L98246   | SEAL, CLUTCH PISTON OUTER. .   | 1         |          |          | (includes items 21 and 22)      |           |
| 05       | L98247   | SEAL, CLUTCH PISTON INNER . .  | 1         | 21       | 106246   | SPACER . . . . .                | 1         |
| 06       | 106223   | PLATE, END . . . . .           | 2         | 22       | 106235   | BEARING, NEEDLE . . . . .       | 2         |
| 07       | L98237   | INTERNAL SNAP RING . . . . .   | 2         | 23       | L500413  | BEARING, THRUST . . . . .       | 2         |
| 08       | L98244   | PLATE, CLUTCH PISTON . . . . . | 2         | 24       | L500414  | WASHER, CLUTCH GEAR             |           |
| 09       | L98961   | DISC SPRING . . . . .          | 1         |          |          | Series Number: 863/54 . . . . . | 4         |
| 10       | 106243   | DISC SPRING . . . . .          | 1         |          |          | Series Number: 863/57 . . . . . | 3         |
| 11       | L98242   | RETAINER, SNAP RING. . . . .   | 1         | 24A      | 50220017 | WASHER, CLUTCH GEAR             |           |
| 12       | L98241   | SNAP RING, RETAINER . . . . .  | 1         |          |          | Series Number: 863/57 . . . . . | 1         |
| 13       | 106224   | DISC, OUTER . . . . .          | 18        | 25       | L99696   | SNAP RING EXTERNAL. . . . .     | 2         |
| 14       |          | DISC, INNER. . . . .           | 18        | 26       |          | GEAR, 3RD DRIVEN (21T). . . . . | 1         |
|          | L98239   | Series Number: 863/54          |           |          | 106247   | Series Number: 863/54           |           |
|          | 50220014 | Series Number: 863/57          |           |          | 50220018 | Series Number: 863/57           |           |
| 15       | L98236   | BEARING, THRUST . . . . .      | 2         | 27       | L98275   | BEARING, ROLLER . . . . .       | 1         |
| 16       | L98235   | WASHER, THRUST . . . . .       | 2         |          |          |                                 |           |



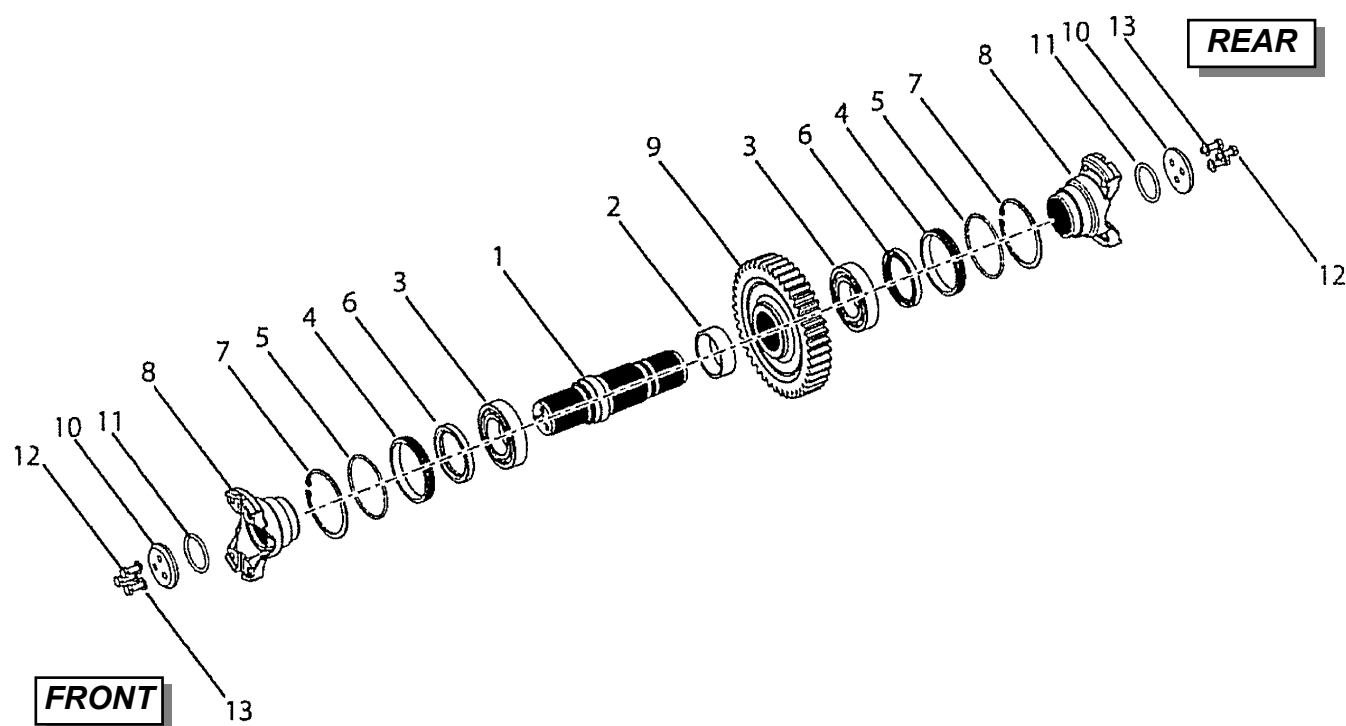
The model/serial number plate is located on the front of transmission case—see page 76.



## Transmission

## RS Series

### Output Shaft - (RS10 and RS12 Models)



RS10 and RS12 Models Only

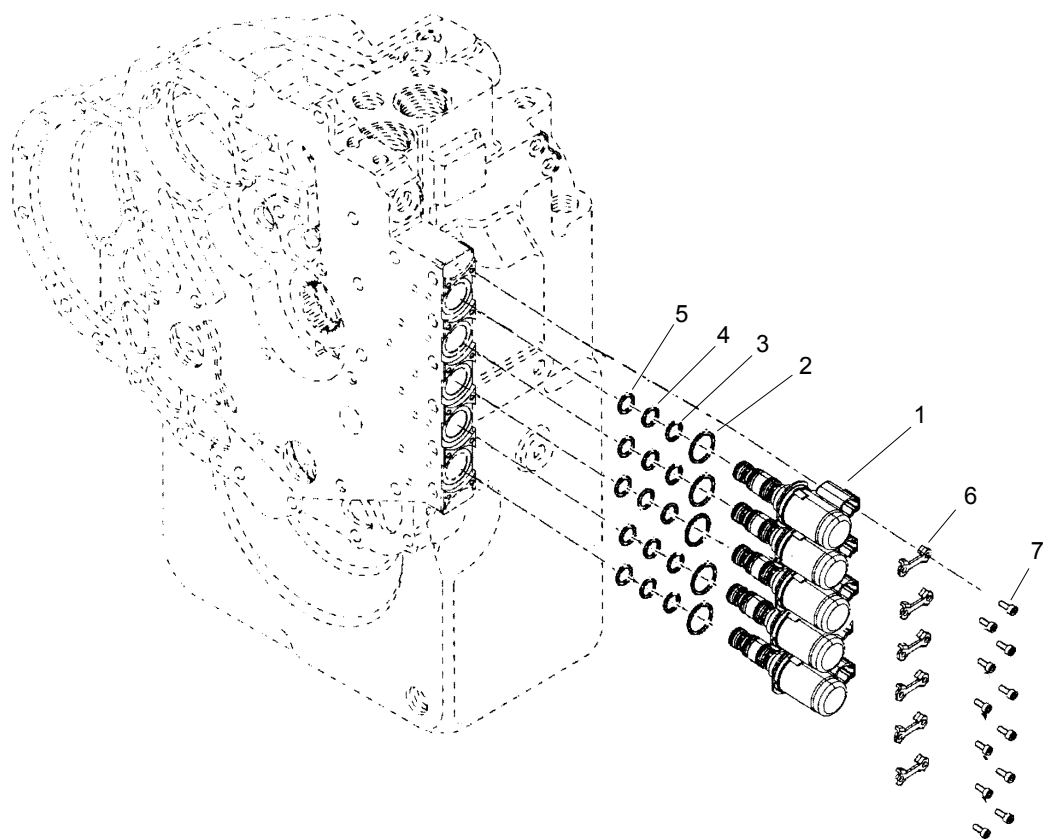
| Ref. No. | Part No. | Description                | Qty. Req. | Ref. No. | Part No. | Description                  | Qty. Req. |
|----------|----------|----------------------------|-----------|----------|----------|------------------------------|-----------|
| 01       | 106248   | SHAFT, OUTPUT .....        | 1         | 08       | 106250   | FLANGE, OUTPUT SHAFT.....    | 2         |
| 02       | 106249   | SPACER, GEAR TO SHAFT..... | 1         | 09       | 106251   | GEAR, OUTPUT SHAFT (43T).... | 1         |
| 03       | 106239   | BEARING.....               | 2         | 10       | 106252   | PLATE, OUTPUT FLANGE.....    | 2         |
| 04       | L98281   | SLEEVE, OIL SEAL.....      | 2         | 11       | 106253   | O-RING OUTPUT SHAFT.....     | 2         |
| 05       | L98268   | O-RING .....               | 2         | 12       | 106254   | BOLT .....                   | 6         |
| 06       | L96053   | SEAL, OIL .....            | 2         | 13       | 106255   | WASHER.....                  | 6         |
| 07       | 106180   | SNAP RING.....             | 2         |          |          |                              |           |



Telescopic Handler

Transmission

Electronic Controllers - (RS10 and RS12 Models)



| Ref. No. | Part No. | Description                                                        | Qty. Req. | Ref. No. | Part No. | Description                                                        | Qty. Req. |
|----------|----------|--------------------------------------------------------------------|-----------|----------|----------|--------------------------------------------------------------------|-----------|
| 01       | 102950   | SOLENOID, W / DEUTSCH CON. . 5<br><i>(includes items 2 thru 5)</i> |           | 04       | 102953   | O-RING, 14.1 X 1.60MM . . . . . 5<br><i>(included with item 1)</i> |           |
| 02       | 102951   | O-RING, 21.5 X 1.5MM . . . . . 5<br><i>(included with item 1)</i>  |           | 05       | 102954   | O-RING, 12.1 X 1.60MM . . . . . 5<br><i>(included with item 1)</i> |           |
| 03       | 102952   | O-RING, 15.1 X 1.60MM . . . . . 5<br><i>(included with item 1)</i> |           | 06       | 102957   | CLAMP, SOLENOID . . . . . 6                                        |           |
|          |          |                                                                    |           | 07       | 106256   | BOLT, FLANGED . . . . . 12                                         |           |

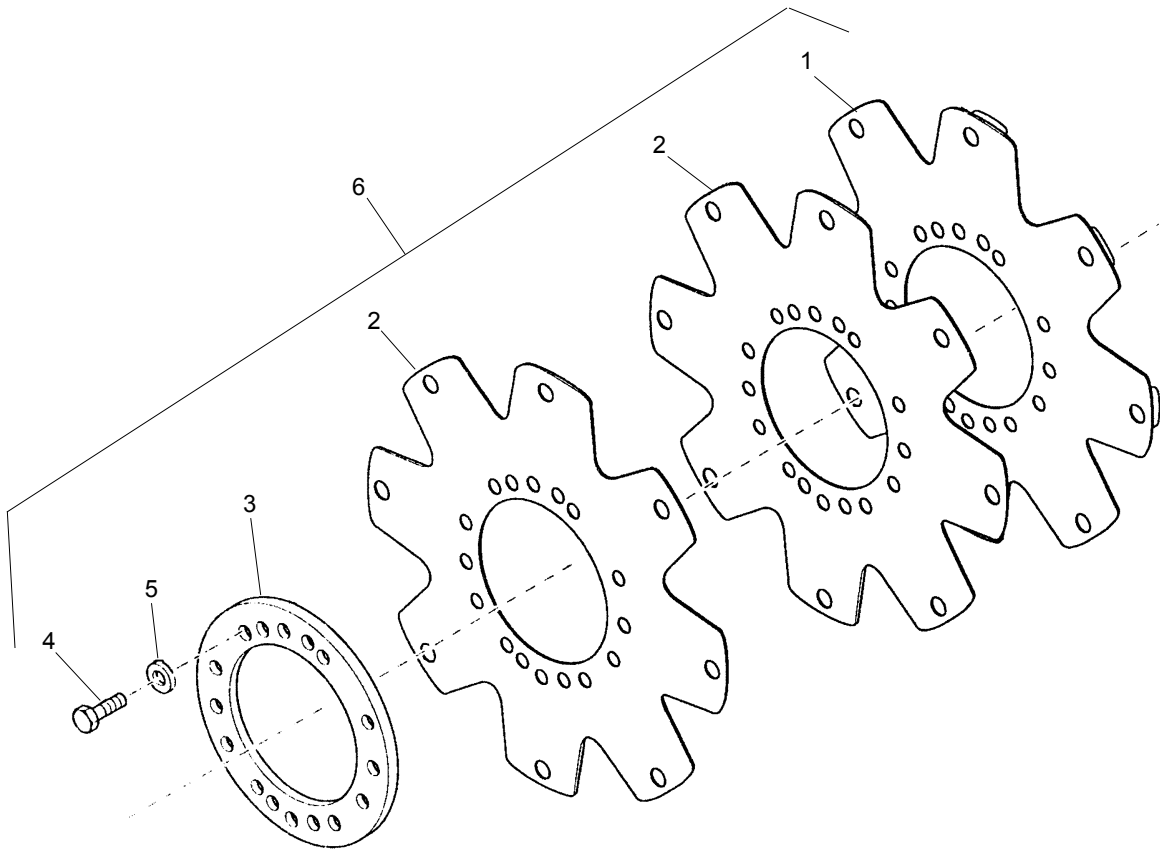
RS10 and RS12 Models Only



Transmission

RS Series

Drive Plate - (RS10 and RS12 Models)



RS10 and RS12 Models Only

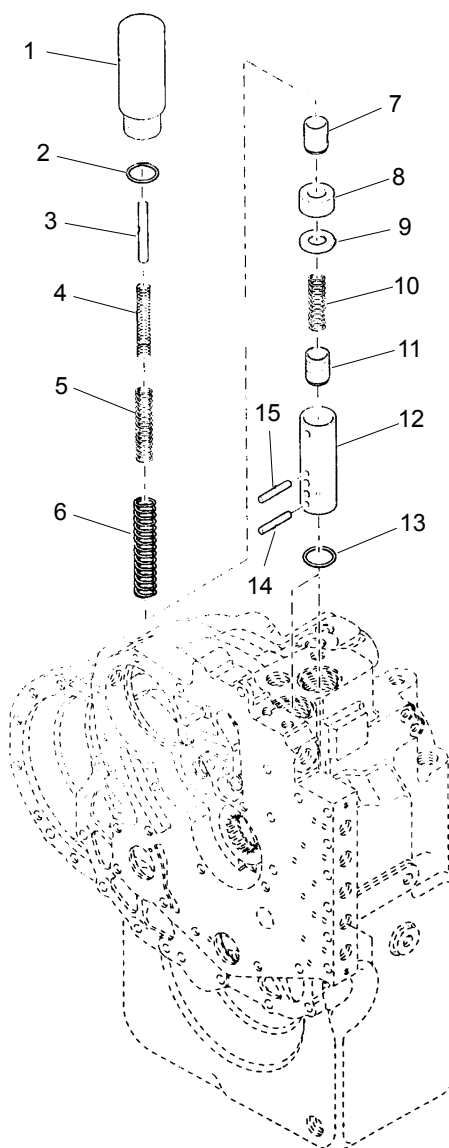
| Ref. No. | Part No. | Description                       | Qty. Req. | Ref. No. | Part No. | Description                       | Qty. Req. |
|----------|----------|-----------------------------------|-----------|----------|----------|-----------------------------------|-----------|
| 01       | NSS      | DRIVE PLATE ASSEMBLY . . . . . 1  |           | 04       | L99785   | SCREW, DRIVE PLATE MNTG. . . . 6  |           |
|          |          | (included in item 6)              |           | 05       | L99030   | LOCKWASHER/DRIVEPLATE . . . . 6   |           |
| 02       | NSS      | DRIVE PLATE . . . . . 2           |           | 06       | L98317   | KIT, DRIVE PLATE ASSEMBLY . . . 1 |           |
|          |          | (included in item 6)              |           |          |          | (includes items 1 thru 5)         |           |
| 03       | L98316   | RING, DRIVE PLATE BACKING . . . 1 |           |          |          |                                   |           |



# Telescopic Handler

# Transmission

## Modulation Valve - (RS10 and RS12 Models)



| Ref. No. | Part No. | Description                   | Qty. Req. | Ref. No. | Part No. | Description                   | Qty. Req. |
|----------|----------|-------------------------------|-----------|----------|----------|-------------------------------|-----------|
| 01       | L98291   | HOUSING MODULATOR VALVE . . . | 2         | 09       | L98301   | SPACER . . . . .              | 2         |
| 02       | L98292   | O-RING . . . . .              | 2         | 10       | L98300   | SPRING . . . . .              | 2         |
| 03       | L98293   | PIN STOP . . . . .            | 2         | 11       | L98958   | SPOOL . . . . .               | 2         |
| 04       | L98294   | SPRING INNER. . . . .         | 2         | 12       | L98298   | SLEEVE-MODULATION VALVE . . . | 2         |
| 05       | L98295   | SPRING MIDDLE . . . . .       | 2         | 13       | L98297   | O-RING, SLEEVE . . . . .      | 2         |
| 06       | L98304   | SPRING OUTER. . . . .         | 2         | 14       | L98957   | PIN-LOWER . . . . .           | 2         |
| 07       | L98303   | SPOOL ACCUMULATOR . . . . .   | 2         | 15       | L98956   | PIN-UPPER . . . . .           | 2         |
| 08       | L98302   | RETAINER. . . . .             | 2         |          |          |                               |           |

RS10 and RS12 Models Only

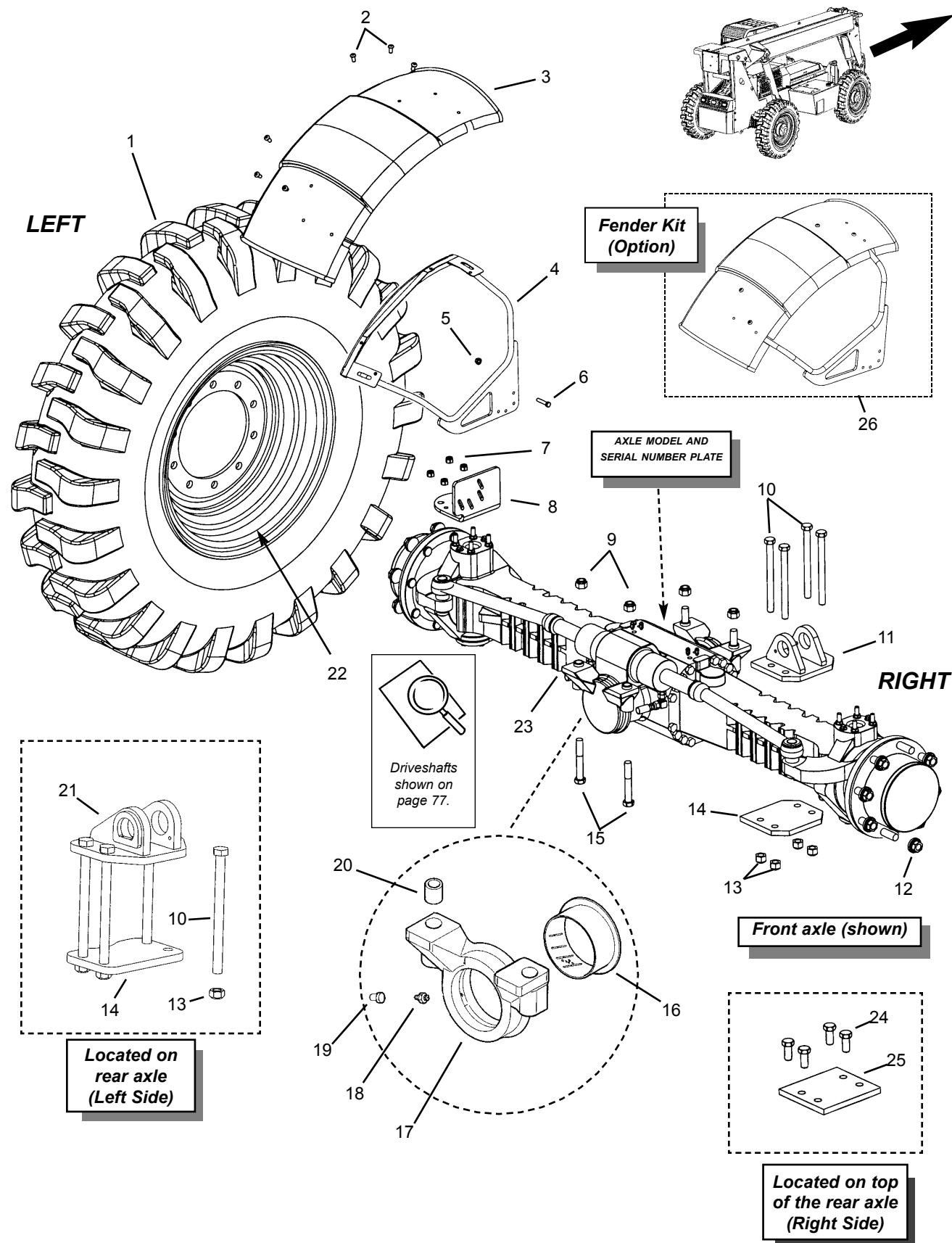




## Axles

## RS6-42/RS8-42/RS8-44

### Mounts, Tires, and Fenders - (RS6 and RS8 Models Only)





# Telescopic Handler

# Axles

## Mounts, Tires, and Fenders - (RS6 and RS8 Models Only)

| Ref. No.        | Part No. | Description                                | Qty. Req. | Ref. No.        | Part No. | Description                                                                                                                                                                                                                                                         | Qty. Req. |
|-----------------|----------|--------------------------------------------|-----------|-----------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 01              |          | TIRE.....                                  | 4         | 20              | L500542  | REDUCTION BUSING .....                                                                                                                                                                                                                                              | 4         |
|                 | L47270   | 13.00X24                                   |           | 21              | 210168   | STABILIZER MOUNT ( <i>rear axle</i> )..                                                                                                                                                                                                                             | 1         |
|                 | L71758   | 13.00X24 ( <i>Rock</i> )                   |           | 22              | L69114   | WHEEL RIM 24X9.00 .....                                                                                                                                                                                                                                             | 4         |
| 01 <sup>a</sup> | 210133   | 13X24 SOLID TIRE/WHEEL SET ..              | 4         | 23 <sup>b</sup> |          | AXLE ASSEMBLY, 212 HY .....                                                                                                                                                                                                                                         |           |
| 02              | L50253   | 3/8"-16 BUTTON HD BOLT .....               | 6         |                 | 102122   | FRONT ( <i>with internal park brake</i> ) ..                                                                                                                                                                                                                        | 1         |
| 03              | L99951   | FENDER .....                               | 1         |                 | 102123   | REAR. ....                                                                                                                                                                                                                                                          | 1         |
| 04              | 105202   | FENDER MOUNT (LF/RR) .....                 | 1         | 24              | 656035   | M16-20x20 8.8 BOLT .....                                                                                                                                                                                                                                            | 4         |
| 05              | 090666   | 3/8"-16 FLANGE LOCK NUT .....              | 4         | 25              | 210167   | SPACER, AXLE STOP .....                                                                                                                                                                                                                                             | 1         |
| 06              | L50836   | 3/8"-16X1-3/4" BOLT .....                  | 4         | 26 <sup>c</sup> | 820530   | FENDER KIT ( <i>option</i> ) .....                                                                                                                                                                                                                                  | 1         |
| 07              | 102587   | NUT .....                                  | 4         |                 |          |                                                                                                                                                                                                                                                                     |           |
| 08              | 102569   | MOUNT (LF/RR) ( <i>LF is standard</i> ) .. | 1         |                 |          | <b>-- ITEMS NOT SHOWN --</b>                                                                                                                                                                                                                                        |           |
|                 | 102570   | MOUNT (LR/RF - <i>optional</i> ) .....     | AR        | --              | L63222   | VALVE STEM .....                                                                                                                                                                                                                                                    | AR        |
| 09              | L50201   | M20-2.5 CLASS 10 LOCK NUT ...              | 4         |                 |          |                                                                                                                                                                                                                                                                     |           |
| 10              | L50712   | 3/4"-10X9" GR8 BOLT .....                  | 8         |                 |          |                                                                                                                                                                                                                                                                     |           |
| 11              | 210558   | FRAME LEVEL MNT ( <i>front axle</i> )..    | 1         | a               |          | When ordering, specify right or left side.                                                                                                                                                                                                                          |           |
| 12              | L69734   | M22-1.5 WHEEL NUT .....                    | AR        |                 |          |                                                                                                                                                                                                                                                                     |           |
| 13              | L50084   | 3/4"-10 GR8 LOCK NUT .....                 | 8         | b               |          | Axle only; does not include any of the other items shown in the illustration.                                                                                                                                                                                       |           |
| 14              | 210572   | PLATE, MOUNT .....                         | 2         |                 |          |                                                                                                                                                                                                                                                                     |           |
| 15              | 651543   | M20-2.50X130 C10.9 BOLT .....              | 4         | c               |          | Includes three fender assemblies, mounts, and hardware to install two fenders on the rear axle and one fender on the front axle; the machines comes factory equipped with a fender on the left-side front axle. Must be ordered through the Whole Goods Department. |           |
| 16              | L500543  | THRUST BUSHING .....                       | 2         |                 |          |                                                                                                                                                                                                                                                                     |           |
| 17              | L500544  | SUPPORT .....                              | 2         |                 |          |                                                                                                                                                                                                                                                                     |           |
| 18              | L98355   | GREASE FITTING .....                       | 2         |                 |          |                                                                                                                                                                                                                                                                     |           |
| 19              | L500496  | PLUG .....                                 | 2         |                 |          |                                                                                                                                                                                                                                                                     |           |

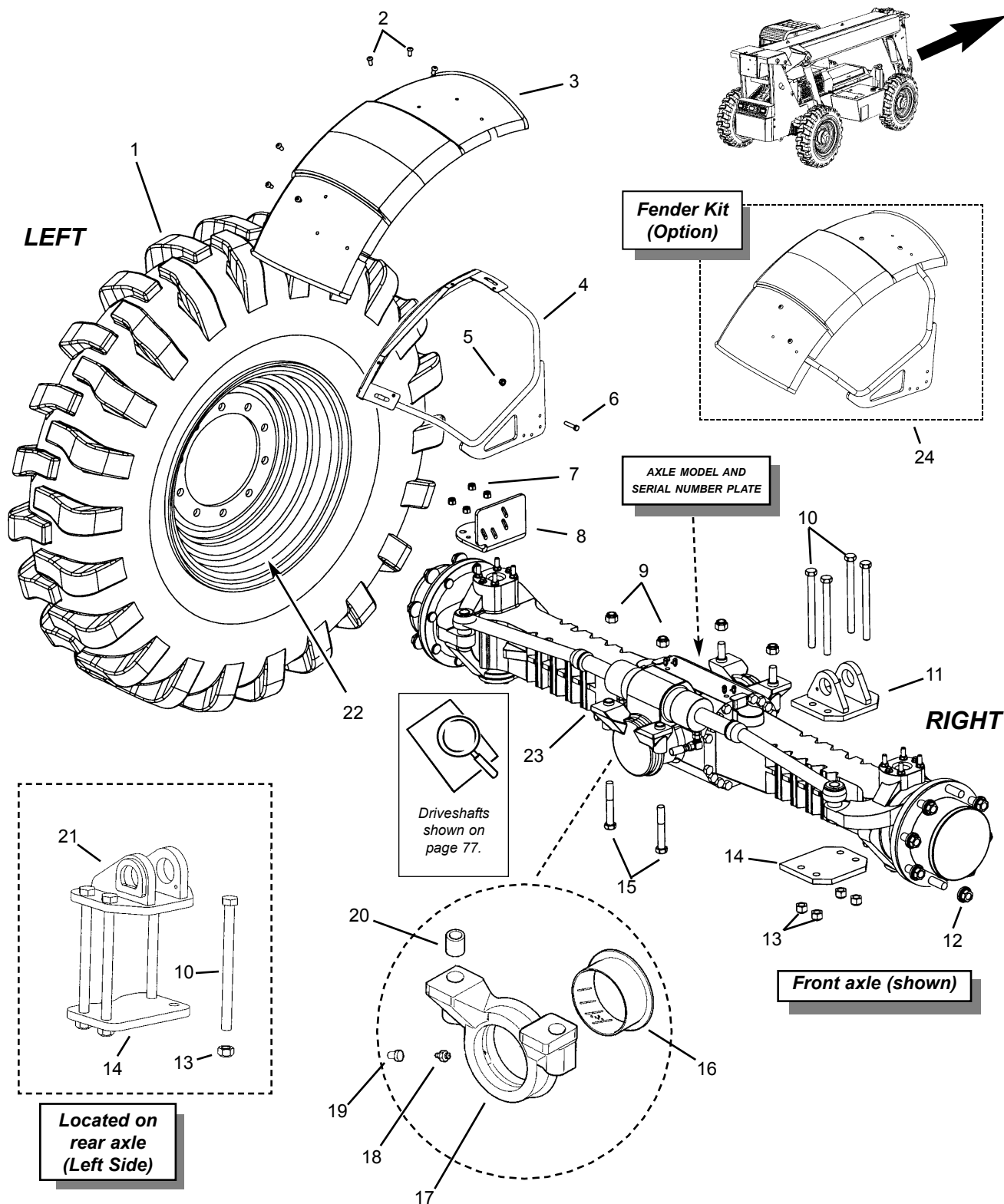
RS6 and RS8 Models Only



## Axles

## RS10-44 / RS10-55 / RS12-42

### Mounts, Tires, and Fenders - (RS10 and RS12 Models Only)





## Telescopic Handler

## Axles

### Mounts, Tires, and Fenders - (RS10 and RS12 Models Only)

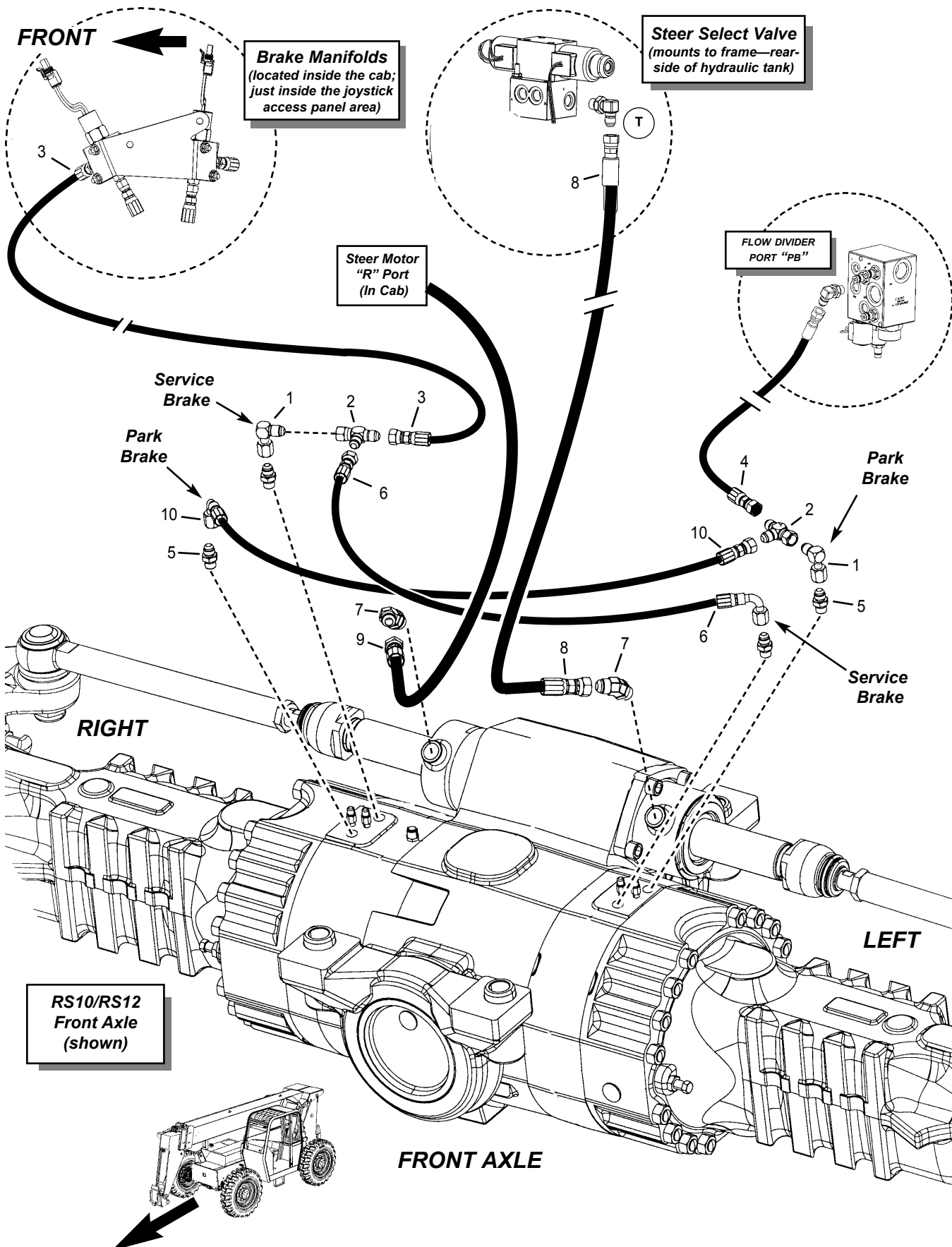
| Ref. No.        | Part No. | Description                                 | Qty. Req. | Ref. No.        | Part No. | Description                                                                                                                                                                                                                                                        | Qty. Req. |
|-----------------|----------|---------------------------------------------|-----------|-----------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 01 <sup>a</sup> |          | 14.00X24 TIRE SET                           |           | 20              | L500542  | REDUCTION BUSHING . . . . .                                                                                                                                                                                                                                        | 4         |
|                 | L60198   | TIRE/14.00X24TG 12PLY . . . . .             | 4         | 21              | 210198   | STABILIZER MOUNT ( <i>rear axle</i> ) . . .                                                                                                                                                                                                                        | 1         |
|                 | L69114   | WHEEL/24 X 9.00 GR . . . . .                | 4         | 22              | L69114   | WHEEL RIM 24X9.00 . . . . .                                                                                                                                                                                                                                        | 4         |
| 01 <sup>a</sup> | L70646   | 14.00X24 TIRE/WHEEL . . . . .               | 4         | 23 <sup>b</sup> |          | AXLE ASSEMBLY, 223 . . . . .                                                                                                                                                                                                                                       |           |
| 01 <sup>a</sup> | 210152   | 13X24 SOLID TIRE/WHEEL SET . .              | 4         |                 | 210093   | FRONT ( <i>with internal park brake</i> ) . .                                                                                                                                                                                                                      | 1         |
| 02              | L50253   | 3/8"-16 BUTTON HD BOLT . . . . .            | 6         |                 | 210094   | REAR . . . . .                                                                                                                                                                                                                                                     | 1         |
| 03              | L99951   | FENDER . . . . .                            | 1         | 24 <sup>c</sup> | 820530   | FENDER KIT ( <i>option</i> ) . . . . .                                                                                                                                                                                                                             | 1         |
| 04              | 105202   | FENDER MOUNT (LF/RR) . . . . .              | 1         |                 |          |                                                                                                                                                                                                                                                                    |           |
| 05              | 090666   | 3/8"-16 FLANGE LOCK NUT . . . .             | 4         |                 |          | <b>-- ITEMS NOT SHOWN --</b>                                                                                                                                                                                                                                       |           |
| 06              | L50836   | 3/8"-16X1-3/4" BOLT . . . . .               | 4         | --              | L63222   | VALVE STEM . . . . .                                                                                                                                                                                                                                               | AR        |
| 07              | 102587   | NUT . . . . .                               | 4         |                 |          |                                                                                                                                                                                                                                                                    |           |
| 08              | 102569   | MOUNT (LF/RR) ( <i>LF is standard</i> ) . . | 1         |                 |          |                                                                                                                                                                                                                                                                    |           |
|                 | 102570   | MOUNT (LR/RF - <i>optional</i> ) . . . .    | AR        | a               |          | When ordering, specify right or left side.                                                                                                                                                                                                                         |           |
| 09              | 102781   | NUT, 1"-8 LOCK CLASS C . . . . .            | 8         | b               |          | Axle only; does not include any of the other items shown in the illustration.                                                                                                                                                                                      |           |
| 10              | 651567   | 3/4"-10X10" GR8 BOLT . . . . .              | 8         |                 |          |                                                                                                                                                                                                                                                                    |           |
| 11              | 210173   | FRAME LEVEL MNT ( <i>front axle</i> ) . .   | 1         | c               |          | Includes three fender assemblies, mounts, and hardware to install two fenders on the rear axle and one fender on the front axle; the machine comes factory equipped with a fender on the left-side front axle. Must be ordered through the Whole Goods Department. |           |
| 12              | L69734   | M22-1.5 WHEEL NUT . . . . .                 | AR        |                 |          |                                                                                                                                                                                                                                                                    |           |
| 13              | L50084   | 3/4"-10 GR8 LOCK NUT . . . . .              | 8         |                 |          |                                                                                                                                                                                                                                                                    |           |
| 14              | 210421   | PLATE, MOUNT . . . . .                      | 2         |                 |          |                                                                                                                                                                                                                                                                    |           |
| 15              | 102779   | BOLT, 1"-8 X 5-1/2" GR8 . . . . .           | 8         |                 |          |                                                                                                                                                                                                                                                                    |           |
| 16              | L500543  | THRUST BUSHING . . . . .                    | 2         |                 |          |                                                                                                                                                                                                                                                                    |           |
| 17              | L500544  | SUPPORT . . . . .                           | 2         |                 |          |                                                                                                                                                                                                                                                                    |           |
| 18              | L98355   | GREASE FITTING . . . . .                    | 2         |                 |          |                                                                                                                                                                                                                                                                    |           |
| 19              | L500496  | PLUG . . . . .                              | 2         |                 |          |                                                                                                                                                                                                                                                                    |           |



## Axles

## RS Series

### Front Axle - Brake and Steering Circuit





# Telescopic Handler

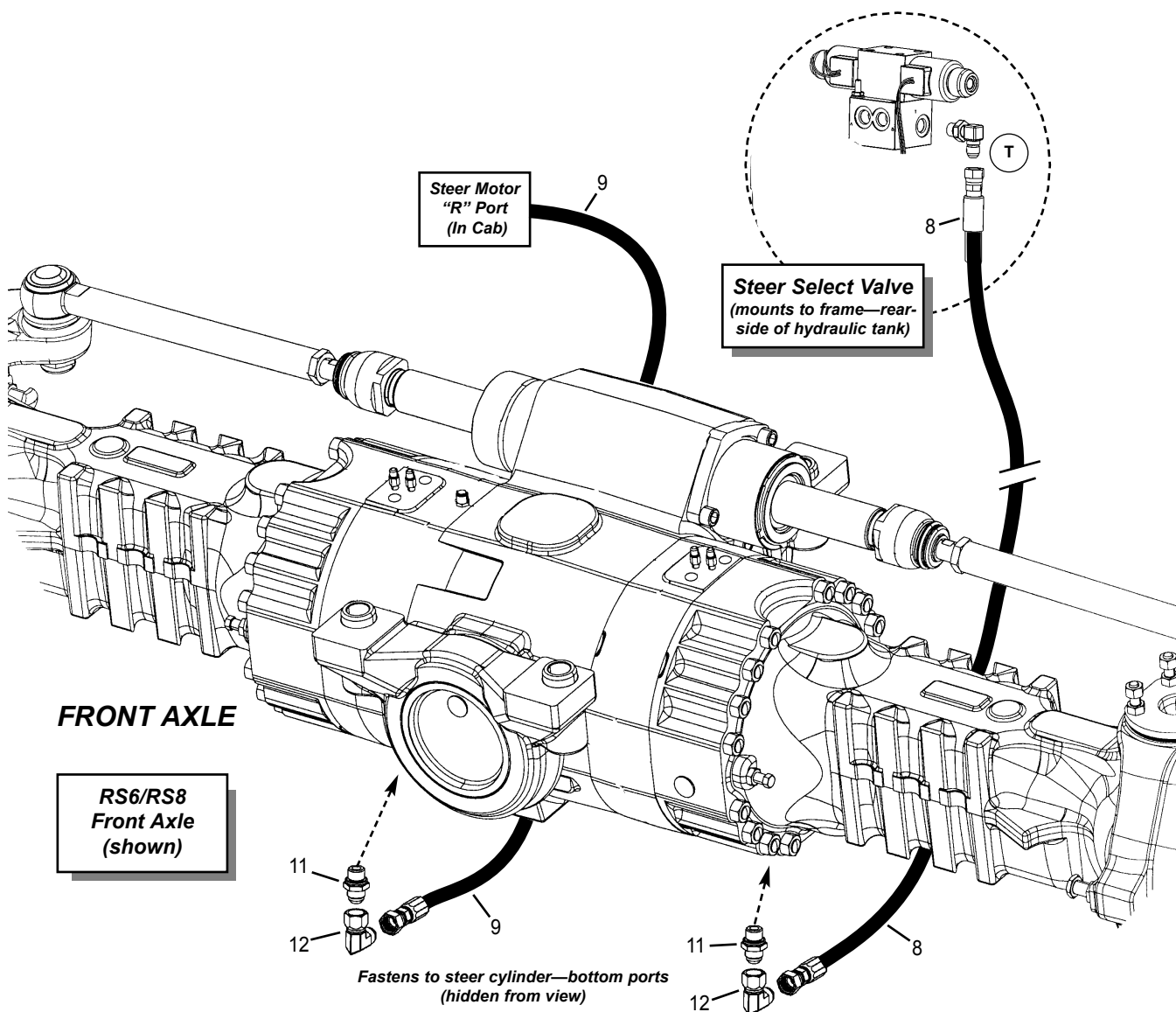
## Axles

### Front Axle - Brake and Steering Circuit

| Ref. No.        | Part No. | Description                         | Qty. Req. | Ref. No.        | Part No. | Description                        | Qty. Req. |
|-----------------|----------|-------------------------------------|-----------|-----------------|----------|------------------------------------|-----------|
| 01              | 091039   | ADAP., -6JICFS -6JICM 90° . . . . . | 2         | 10              | L69903   | HOSE, -4 A6/DS6 17" . . . . .      | 1         |
| 02              | 072806   | ADAP., -6 SWIVEL RUN TEE . . . . .  | 2         | 11 <sup>x</sup> | 100011   | ADAP., M18ORM 8JICM STR . . . . .  | 2         |
| 03 <sup>a</sup> | 102842   | HOSE, -4 A4/A6 66" . . . . .        | 1         | 12 <sup>x</sup> | 088442   | ADAP., 08JICFS 08JICM90° . . . . . | 2         |
| 04              | 102839   | HOSE, -6 A6/A6 57" . . . . .        | 1         |                 |          |                                    |           |
| 05              | L66139   | ADAP., M14X1.5 -6-JICM . . . . .    | 4         |                 |          |                                    |           |
| 06              | L69903   | HOSE, -4 A6/DS6 17" . . . . .       | 1         |                 |          |                                    |           |
| 07 <sup>y</sup> | 076880   | ADAP., -8ORM -8JICM 45° . . . . .   | 2         |                 |          |                                    |           |
| 08              |          | HOSE, -6 A6/A8 . . . . .            | 1         |                 |          |                                    |           |
|                 | 102848   | (Note x)—48" long                   |           |                 |          |                                    |           |
|                 | L69933   | (Note y)—56" long                   |           |                 |          |                                    |           |
| 09              |          | HOSE, -6 A8/DS8 . . . . .           | 1         |                 |          |                                    |           |
|                 | 102847   | (Note x)—82" long                   |           |                 |          |                                    |           |
|                 | 210460   | (Note y)—98" long                   |           |                 |          |                                    |           |



**NOTE:** The brake manifold and brake hoses—shown on facing page—are used on all models; however, the steering hoses and steering hose fittings are different between the various models.



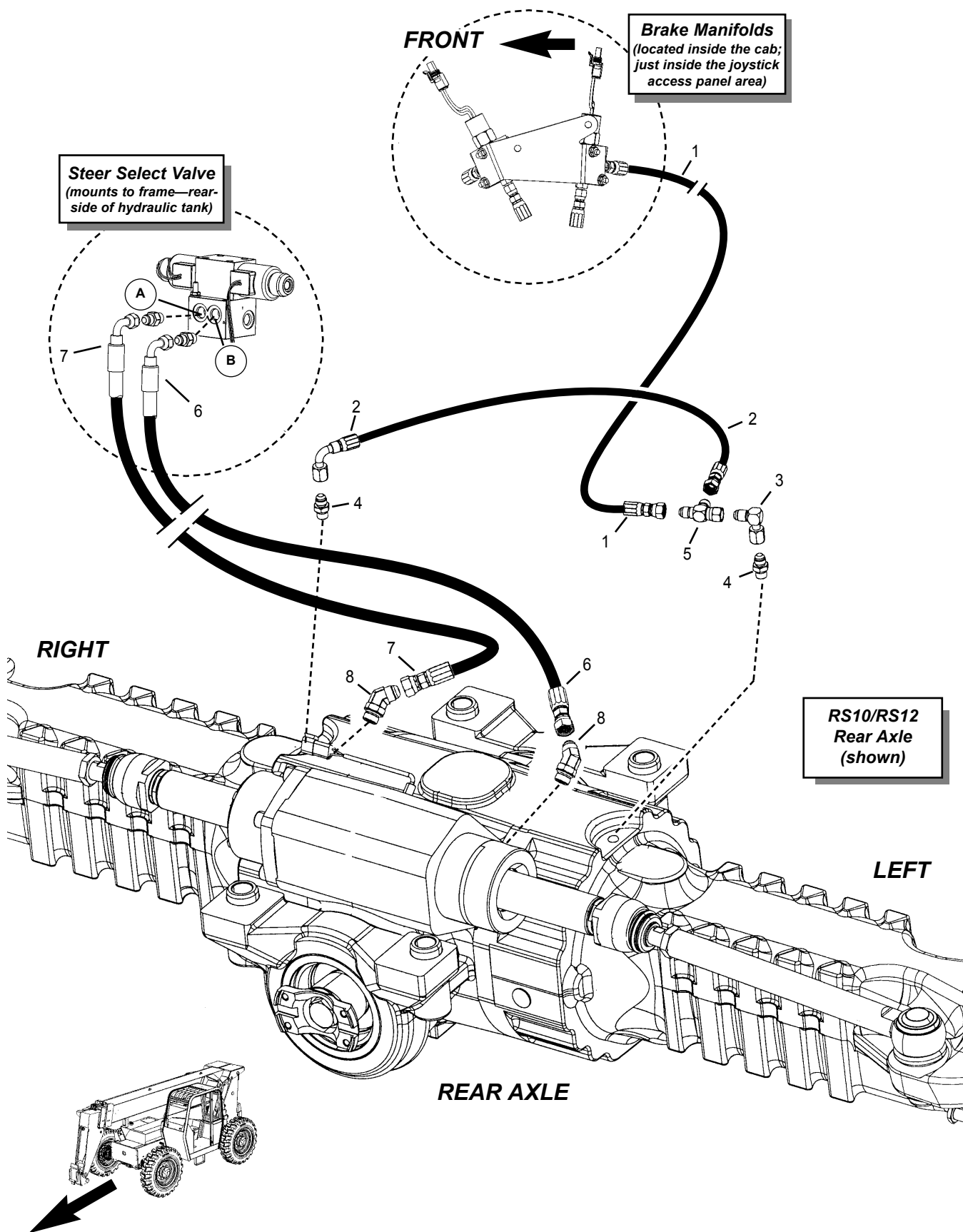




## Axles

## RS Series

### Rear Axle - Brake and Steering Circuit





# Telescopic Handler

## Axles

### Rear Axle - Brake and Steering Circuit

| Ref. No.        | Part No. | Description                         | Qty. Req. | Ref. No.        | Part No. | Description                        | Qty. Req. |
|-----------------|----------|-------------------------------------|-----------|-----------------|----------|------------------------------------|-----------|
| 01 <sup>a</sup> | 102840   | HOSE, -4 A4/A6 90" . . . . .        | 1         | 07              | L69936   | HOSE, -6 A6/A8 100" . . . . .      | 1         |
| 02              | L69904   | HOSE, -4 A6/DS6 20" . . . . .       | 1         | 08 <sup>y</sup> | 076880   | ADAP., -8ORM -8JICM 45° . . . . .  | 2         |
| 03              | 091039   | ADAP., -6JICFS -6JICM 90° . . . . . | 1         | 09 <sup>x</sup> | 100011   | ADAP., M18ORM 8JICM STR. . . . .   | 2         |
| 04              | L66139   | ADAP., M14X1.5 -6-JICM . . . . .    | 2         | 10 <sup>x</sup> | 088442   | ADAP., 08JICFS 08JICM90° . . . . . | 2         |
| 05              | 072806   | ADAP., -6 SWIVEL RUN TEE . . . . .  | 1         |                 |          |                                    |           |
| 06              | L69936   | HOSE, -6 A6/A8 100" . . . . .       | 1         |                 |          |                                    |           |

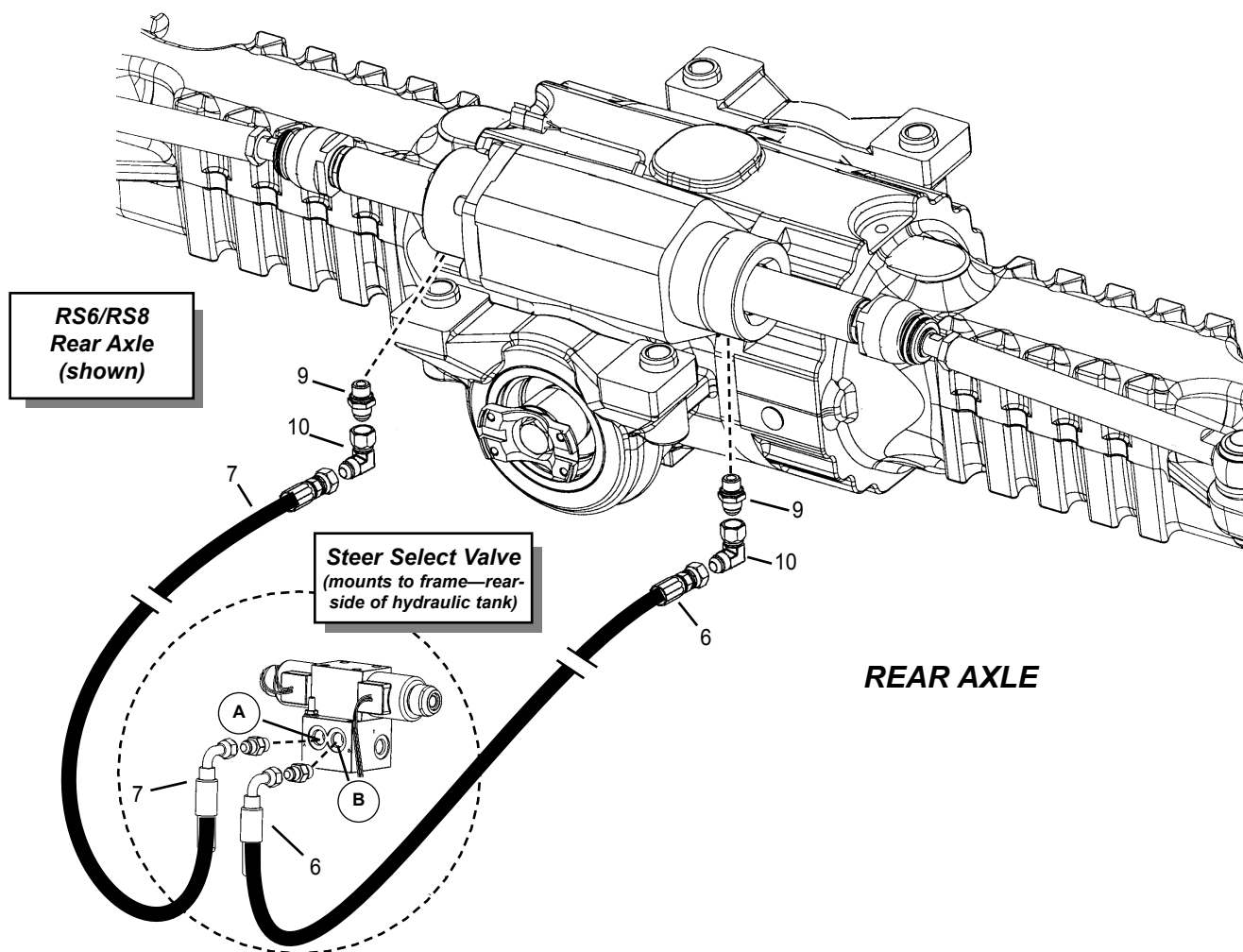
*a* Hose attaches to the front brake manifold, located in the cab, just inside of the joystick access panel.

*x* Only RS6-42 and RS8-42/44

*y* Only RS10-44/55 and RS12-42



**NOTE:** The brake manifold and brake hoses—shown on facing page—are used on all models; however, the steering hoses and steering hose fittings are different between the various models.





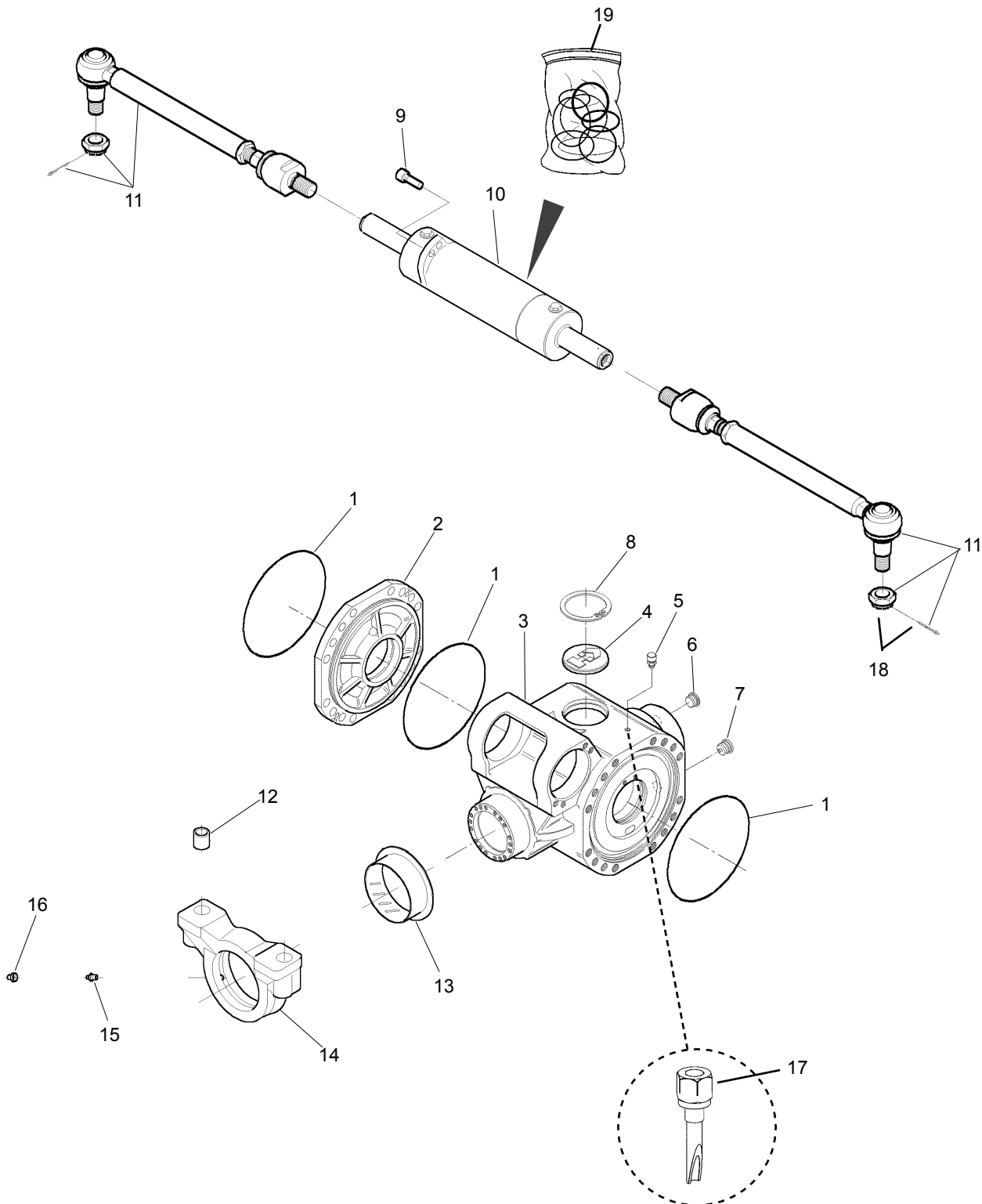


## Axles

## RS Series

### Tie Rods, Steer Cylinder, and Center Housing - Front and Rear

(RS6 and RS8 Models)



RS6 and RS8 Models Only

**Telescopic Handler****Axles*****Tie Rods, Steer Cylinder, and Center Housing - Front and Rear***

| Ref. No. | Part No. | Description                            | Qty. Req. | Ref. No. | Part No. | Description                           | Qty. Req. |
|----------|----------|----------------------------------------|-----------|----------|----------|---------------------------------------|-----------|
| 01       | 104485   | O-RING .....                           | 3         | 12       | L500542  | REDUCTION BUSHING .....               | 4         |
| 02       |          | INTERMEDIATE COVER .....               | 1         | 13       | L500543  | THRUST BUSHING.....                   | 2         |
|          | 50220246 | Front Axle SN: P-ITA-771550 and up     |           | 14       | L500544  | SUPPORT .....                         | 2         |
|          | L500451  | Front Axle SN: P-ITA-771549 and before |           | 15       | L98355   | GREASE FITTING.....                   | 2         |
|          | L500451  | Rear Axle                              |           | 16       | L500496  | PLUG .....                            | 2         |
| 03       | 102573   | HOUSING .....                          | 1         | 17       | 103788   | BREATHER TUBE.....                    | 1         |
| 04       | 104518   | PLUG.....                              | 1         | 18       | 104431   | NUT AND COTTER PIN KIT .... AR        |           |
| 05       | 50220030 | VENT.....                              | 1         |          |          | (included with item # 11)             |           |
| 06       | 102575   | PLUG.....                              | 1         | 19       |          | SEAL KIT, STEER CYLINDER .... 2       |           |
| 07       | 102576   | MAGNETIC PLUG.....                     | 1         |          |          | (one for the front; one for the rear) |           |
| 08       | L98373   | SNAP RING .....                        | 1         |          | 50220267 | Note a                                |           |
| 09       | L500539  | CYLINDER BOLT .....                    | 4         |          | 103118   | Note b                                |           |
| 10       |          | CYLINDER, STEER .....                  | 1         |          |          |                                       |           |
|          | 50220264 | Note a                                 |           | a        |          | Front Axle SN R-ITA-776153 and up     |           |
|          | 102577   | Note b                                 |           |          |          | Rear Axle SN R-ITA-775513 and up      |           |
| 11       | 102578   | ARTICULATED TIE ROD .....              | 2         | b        |          | Front Axle SN R-ITA-776152 and before |           |
|          |          |                                        |           |          |          | Rear Axle SN R-ITA-775512 and before  |           |

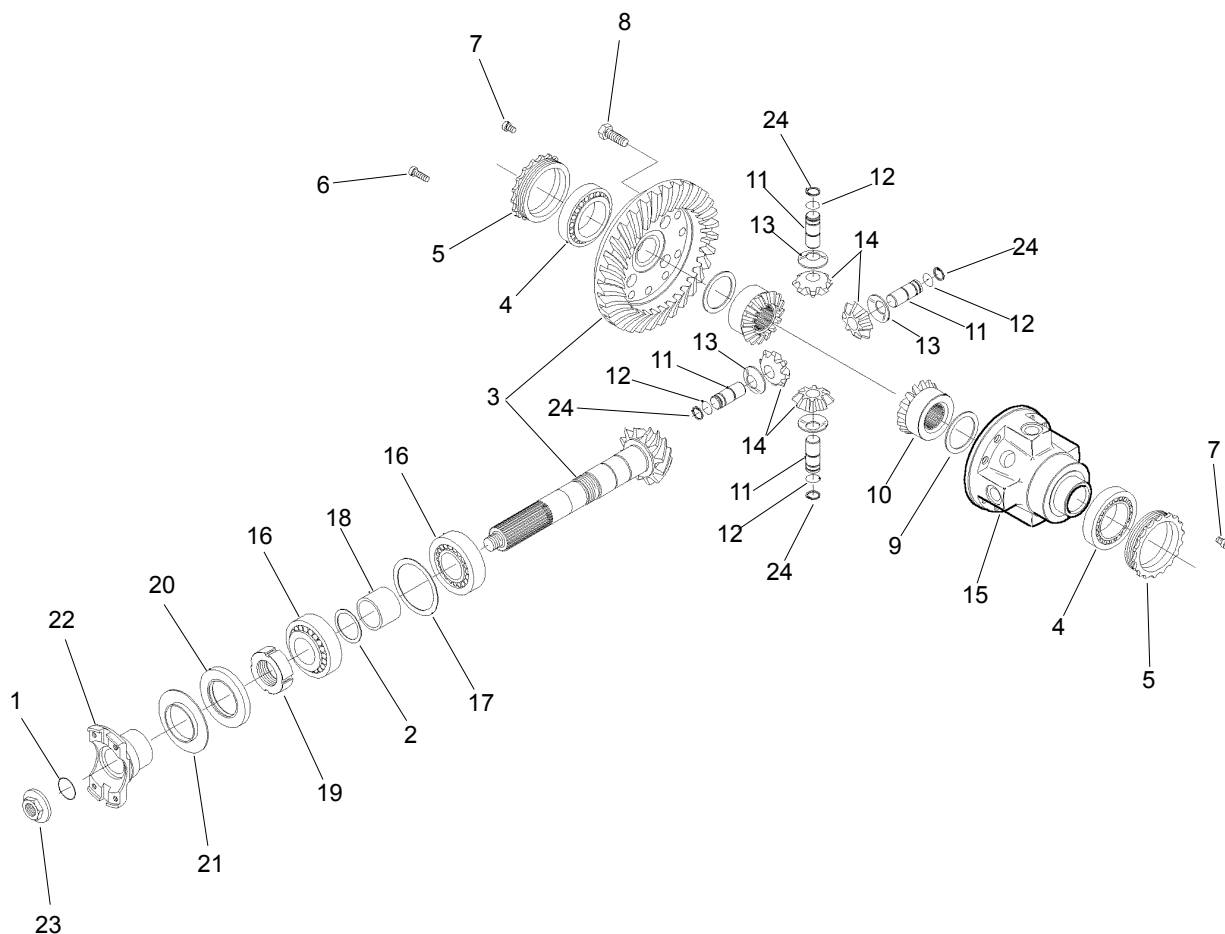
**NOTE:** Quantities shown are for one axle.



## Axles

## RS Series

### *Differential - Front and Rear - (RS6 and RS8 Models)*



RS6 and RS8 Models Only

**Telescopic Handler****Axles*****Differential - Front and Rear - (RS6 and RS8 Models)***

| Ref. No. | Part No. | Description                  | Qty. Req. | Ref. No. | Part No. | Description                            | Qty. Req. |
|----------|----------|------------------------------|-----------|----------|----------|----------------------------------------|-----------|
| 01       | L500457  | O-RING .....                 | 1         | 12       | L500471  | SNAP RING .....                        | 4         |
| 02       | L500459  | SHIM .....                   | 1         | 13       | L500472  | FRICTION WASHER .....                  | 4         |
|          | L500460  | SHIM .....                   | 1         | 14       | L500473  | DIFFERENTIAL PINION .....              | 4         |
|          | L500461  | SHIM .....                   | 1         | 15       | L500474  | DIFFERENTIAL CARRIER .....             | 1         |
|          | L98414   | SHIM .....                   | 1         | 16       | L500771  | TAPER ROLLER BEARING .....             | 2         |
|          | 50220247 | SHIM .....                   | 1         | 17       | L98404   | SHIM .....                             | 1         |
|          | 50220248 | SHIM .....                   | 1         |          | L98406   | SHIM .....                             | 1         |
| 03       |          | BEVEL GEAR SET .....         | 1         |          | L500476  | SHIM .....                             | 1         |
|          | 102579   | (Front Axle) .....           | 1         |          | L500477  | SHIM .....                             | 1         |
|          | 102580   | (Rear Axle) .....            | 1         | 18       | L500478  | SPACER .....                           | 1         |
| 04       | L98380   | TAPER ROLLER BEARING .....   | 2         | 19       | L98396   | RING NUT .....                         | 1         |
| 05       | L500464  | RING NUT .....               | 2         | 20       |          | SEAL .....                             | 1         |
| 06       | L500465  | CYLINDER BOLT .....          | 4         |          | L98395   | Front Axle SN: P-ITA-771549 and before |           |
| 07       | L500466  | CYLINDER BOLT .....          | 2         |          |          | Rear Axle SN: P-ITA-771563 and before  |           |
| 08       | L500467  | BOLT .....                   | 12        |          | 50220249 | Front Axle SN: P-ITA-771550 and up     |           |
| 09       | L500468  | FRICTION WASHER .....        | 2         |          |          | Rear Axle SN: P-ITA-771564 and up      |           |
| 10       | L500469  | DIFFERENTIAL SIDE GEAR ..... | 2         | 21       | L98394   | COVER PLATE .....                      | 1         |
| 11       |          | PIN .....                    | AR        | 22       | 102863   | FLANGE .....                           | 1         |
|          |          | (includes item #12)          |           | 23       | L500480  | NUT .....                              | 1         |
|          | L500470  | (front axle) .....           | 2         | 24       | L500481  | SNAP RING .....                        | 4         |
|          | 103402   | (rear axle) .....            | 2         |          |          |                                        |           |

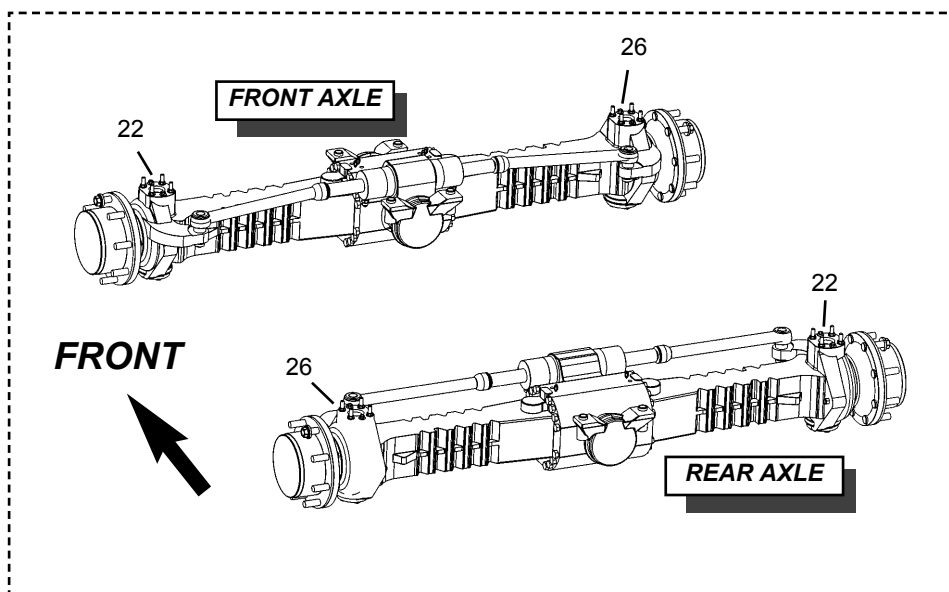
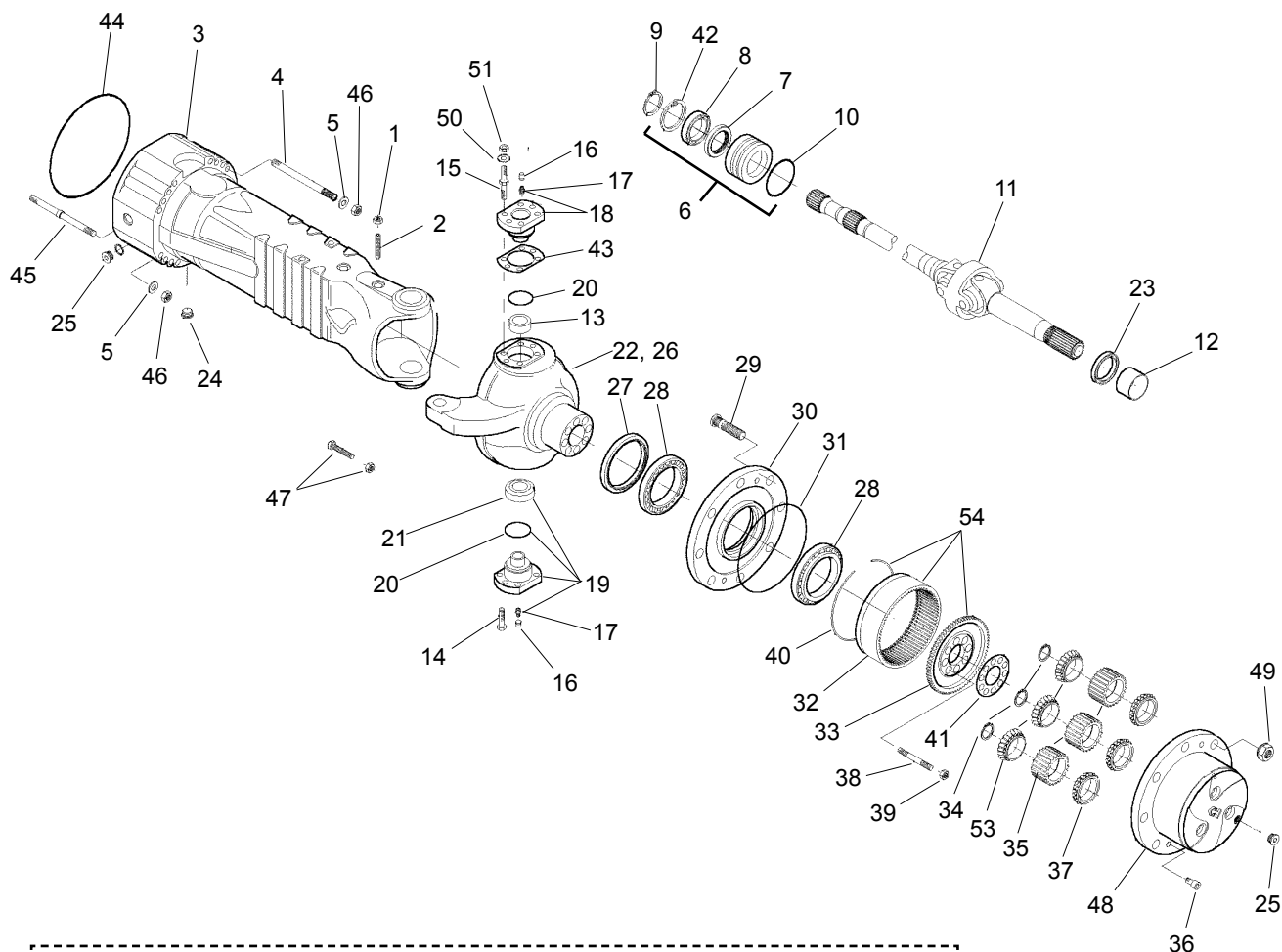
**NOTE:** Quantities shown are for one axle.**RS6 and RS8 Models Only**



## Axles

## RS Series

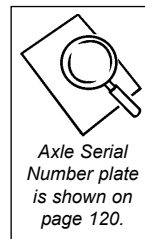
### Outer End - Front and Rear - (RS6 and RS8 Models)



RS6 and RS8 Models Only

**Telescopic Handler****Axles****Outer End - Front and Rear - (RS6 and RS8 Models)**

| Ref. No.                                 | Part No. | Description                                     | Qty. Req. | Ref. No. | Part No. | Description                           | Qty. Req. |
|------------------------------------------|----------|-------------------------------------------------|-----------|----------|----------|---------------------------------------|-----------|
| <b>NOTE: All quantities are per axle</b> |          |                                                 |           | 28       | 102600   | BEARING.....                          | 4         |
| 01                                       | L500483  | NUT.....                                        | 2         | 29       | 102601   | WHEEL STUD.....                       | 20        |
| 02                                       | 102581   | BOLT.....                                       | 2         | 30       | 102602   | WHEEL HUB.....                        | 2         |
| 03                                       |          | AXLE CASE.....                                  | 2         | 31       | 102603   | O-RING.....                           | 2         |
|                                          | 102582   | Front Axle SN                                   |           | 32       |          | RING GEAR.....                        | 2         |
|                                          | 50220252 | Rear Axle SN: P-ITA-771564 and up               |           |          | 102604   | Front Axle                            |           |
|                                          | 102582   | Rear Axle SN:P-ITA-771563 and before            |           |          | 50220057 | Rear Axle SN: P-ITA-771564 and up     |           |
| 04                                       |          | STUD                                            |           |          | 102604   | Rear Axle SN: P-ITA-771563 and before |           |
|                                          | 102584   | Front Axle SN.....                              | 24        | 33       | 102605   | RING GEAR SUPPORT.....                | 2         |
|                                          | 102584   | Rear Axle SN:P-ITA-771563 and before            | 24        | 34       | 102606   | SNAP RING.....                        | 6         |
|                                          | 50220253 | Rear Axle SN: P-ITA-771564 and up ..            | 32        | 35       | 102607   | DIFFERENTIAL PINION.....              | 6         |
| 05                                       | L500487  | WASHER.....                                     | 32        | 36       | 104504   | COUNTERSUNK BOLT.....                 | 4         |
| 06                                       | L500488  | REDUCTION BUSHING.....                          | 2         | 37       | 102900   | BEARING.....                          | 6         |
|                                          |          | (incl. 7, 8, 10 and 42)                         |           | 38       | L500517  | STUD.....                             | 20        |
| 07                                       | L500489  | SEAL.....                                       | 2         | 39       | L500518  | NUT.....                              | 20        |
| 08                                       | L98371   | BALL BEARING.....                               | 2         | 40       | 102608   | SNAP RING.....                        | 2         |
| 09                                       | L98372   | SNAP RING.....                                  | 2         | 41       | 102609   | LOCKING PLATE.....                    | 2         |
| 10                                       | L500490  | O-RING.....                                     | 2         | 42       | L98373   | SNAP RING.....                        | 2         |
| 11                                       |          | SHAFT ASSEMBLY.....                             | 2         | 43       | 102610   | SHIM.....                             | 2         |
|                                          | 50220751 | Front Axle SN: S-ITA-776599 and up              |           |          | 102611   | SHIM.....                             | 2         |
|                                          | 102586   | Front Axle SN: S-ITA-776598 and before          |           |          | 102612   | SHIM.....                             | 2         |
|                                          | 50220751 | Rear Axle SN: S-ITA-776265 and up               |           | 44       | 104485   | O-RING.....                           | 2         |
|                                          | 50220254 | Rear Axle SN: P-ITA-771564 through S-ITA-776264 |           | 45       | 102614   | STUD                                  |           |
|                                          | 102586   | Rear Axle SN: P-ITA-771563 and before           |           |          |          | Front Axle.....                       | 8         |
| 12                                       | 102588   | THRUST BUSHING.....                             | 2         |          |          | Rear Axle SN: P-ITA-771564 and up ... | 0         |
| 13                                       | 102589   | BUSHING.....                                    | 2         | 46       | 102615   | Rear Axle SN: P-ITA-771563 and before | 8         |
| 14                                       | L500467  | BOLT.....                                       | 12        |          |          | NUT.....                              | 32        |
| 15                                       | 50220056 | STUD.....                                       | 8         | 47       | 104546   | STEERING ADJUST BOLT ASY...           | 4         |
| 16                                       | L500496  | PLUG.....                                       | 4         | 48       | 102616   | PLANET GEAR CARRIER.....              | 2         |
| 17                                       | L98355   | GREASE FITTING.....                             | 4         | 49       | L69734   | WHEEL NUT.....                        | 20        |
| 18                                       | 102590   | PIVOT PIN.....                                  | 2         | 50       | 102583   | WASHER.....                           | 8         |
| 19                                       | 102591   | PIVOT PIN.....                                  | 2         | 51       | 102587   | NUT.....                              | 8         |
| 20                                       | 102592   | DUST EXCLUDER.....                              | 4         | 53       | 102899   | BEARING.....                          | 6         |
| 21                                       | 102593   | BEARING.....                                    | 2         | 54       | 50220251 | RING GEAR SUPPORT.....                | 2         |
| 22                                       | 102594   | STEERING CASE.....                              | 2         |          |          | (includes 32, 33, and 40)             |           |
|                                          |          | (includes item 12)                              |           |          |          | Front Axle SN: P-ITA-771550 and up    |           |
| 23                                       | 102595   | SEAL.....                                       | 2         |          |          | Rear Axle SN: P-ITA-771564 and up     |           |
| 24                                       | 102576   | MAGNET PLUG.....                                | 2         |          |          |                                       |           |
| 25                                       | 102575   | PLUG.....                                       | 4         |          |          |                                       |           |
| 26                                       | 102598   | STEERING CASE.....                              | 2         |          |          |                                       |           |
|                                          |          | (includes item 12)                              |           |          |          |                                       |           |
| 27                                       | 102599   | SEAL.....                                       | 2         |          |          |                                       |           |

**NOTE:** Quantities shown are for one axle.

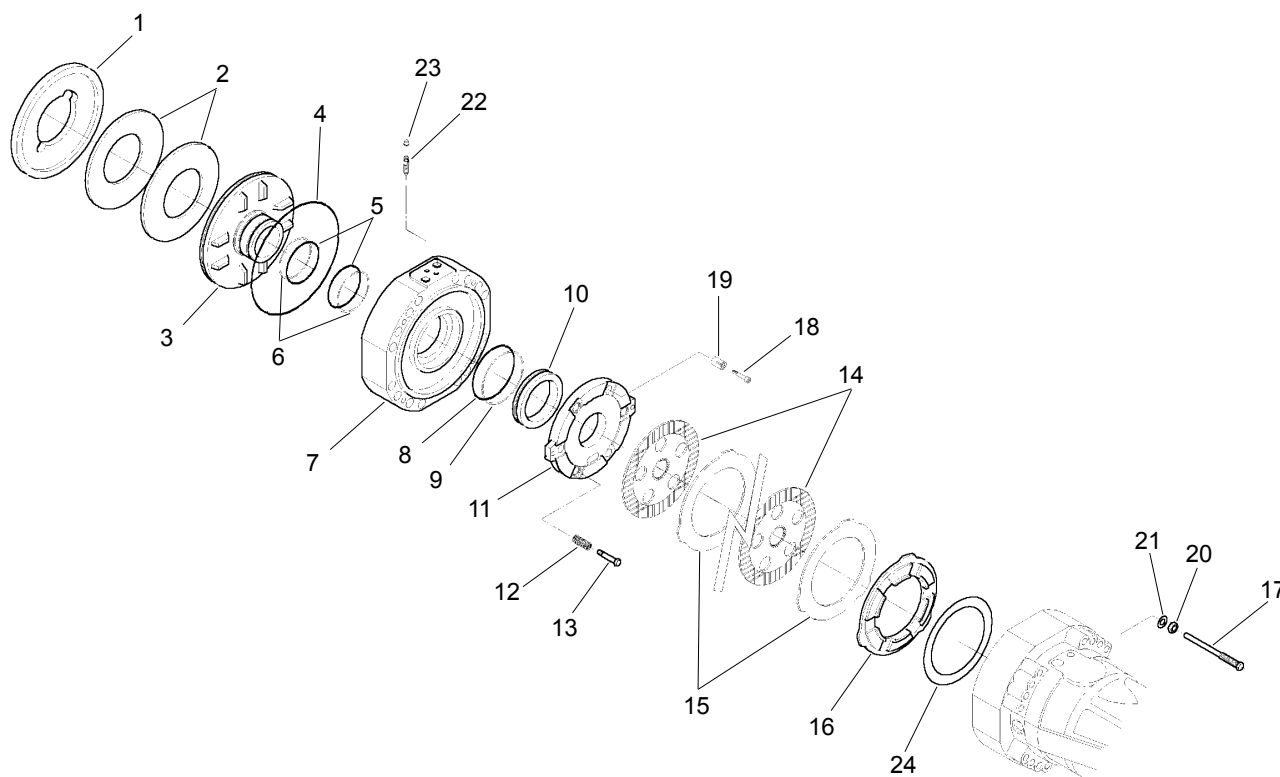


## Axles

## RS Series

### Brakes - Front - (RS6 and RS8 Models)

RS6 and RS8 Models Only





Telescopic Handler

Axles

Brakes - Front - (RS6 and RS8 Models)

| Ref. No. | Part No. | Description                   | Qty. Req. | Ref. No. | Part No. | Description                   | Qty. Req. |
|----------|----------|-------------------------------|-----------|----------|----------|-------------------------------|-----------|
| 01       | 102617   | SPACER .....                  | 2         | 14       | L500527  | BRAKE DISC .....              | 8         |
| 02       | 102618   | SPRING .....                  | 4         | 15       | L500536  | INTERMEDIATE BRAKE DISC ..... | 8         |
| 03       | 102619   | PISTON .....                  | 2         | 16       | 102629   | SPACER .....                  | 2         |
| 04       | 102620   | O-RING .....                  | 2         | 17       | 102630   | BOLT .....                    | 4         |
| 05       | 102621   | O-RING .....                  | 4         | 18       | 102631   | ADJUSTING BOLT .....          | 6         |
| 06       | 102622   | BACKUP RING .....             | 4         | 19       | 102632   | SPRING .....                  | 6         |
| 07       | 102623   | COVER .....                   | 2         | 20       | 102633   | NUT .....                     | 4         |
| 08       | L98368   | O-RING .....                  | 2         | 21       | 102634   | LOCK WASHER .....             | 4         |
| 09       | 102624   | BACKUP RING .....             | 2         | 22       | 104655   | BLEEDING BOLT .....           | 4         |
| 10       | 102625   | PISTON .....                  | 2         | 23       | L500496  | PLUG .....                    | 4         |
| 11       | 102626   | INTERMEDIATE BRAKE DISC ..... | 2         | 24       | 102635   | SHIM (20mm) .....             | 2         |
| 12       | 102627   | SPRING .....                  | 6         |          | 102636   | SHIM (30mm) .....             | 2         |
| 13       | 102628   | ADJUSTING BOLT .....          | 6         |          | 102637   | SHIM (50mm) .....             | 2         |



NOTE: Quantities shown are for one axle.

RS6 and RS8 Models Only



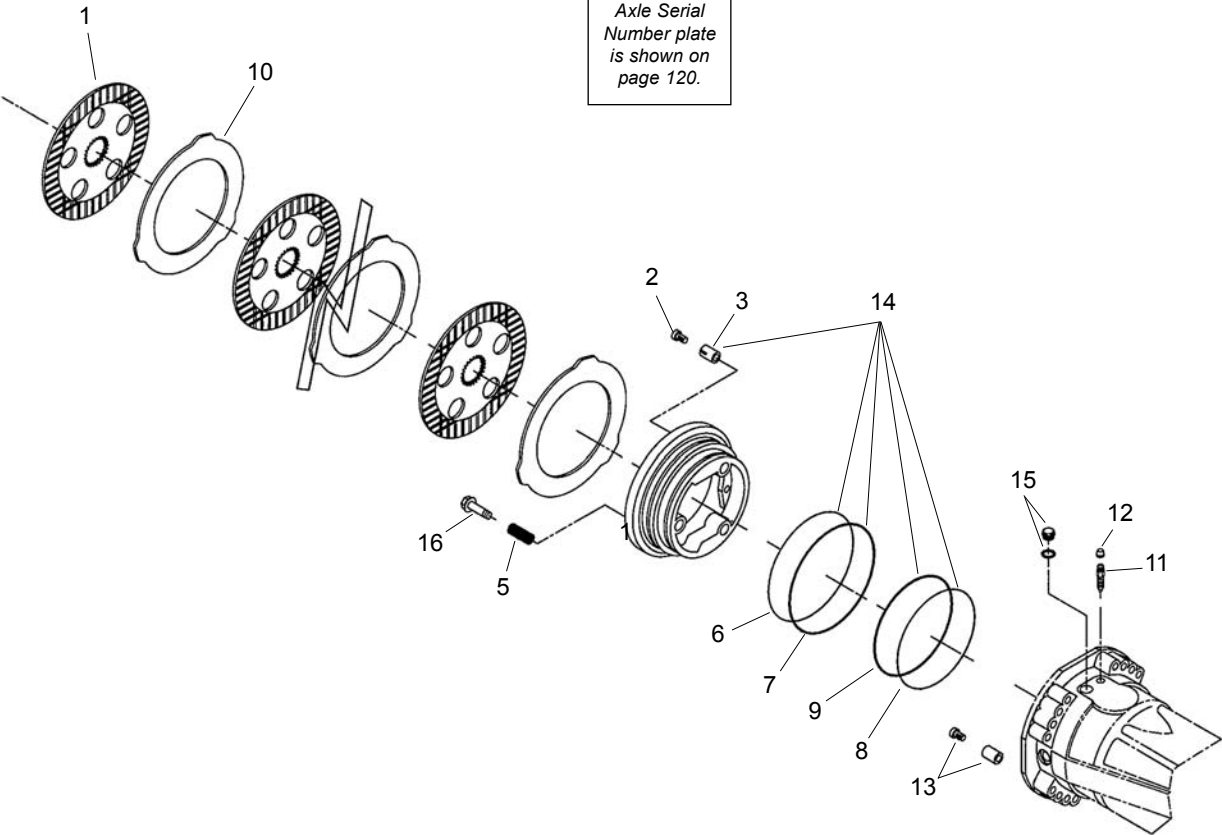


# Axles

# RS Series

## Brakes - Rear - (RS6 and RS8 Models)

Rear Axle SN P-ITA-771564 and up



RS6 and RS8 Models Only

| Ref. No. | Part No. | Description                              | Qty. Req. | Ref. No. | Part No. | Description                     | Qty. Req. |
|----------|----------|------------------------------------------|-----------|----------|----------|---------------------------------|-----------|
| 01       | L500527  | BRAKE DISC . . . . .                     | 8         | 11       | 104655   | BLEEDING BOLT . . . . .         | 2         |
| 02       | 102897   | ADJUSTING BOLT . . . . .                 | 6         | 12       | L500496  | PLUG . . . . .                  | 2         |
| 03       | 102632   | SPRING . . . . .                         | 6         | 13       | 106097   | PILOT BOLT . . . . .            | 2         |
| 04       | NSS      | PISTON (included with item 14) . . . . . | 2         | 14       | 50220256 | PISTON . . . . .                | 2         |
| 05       | 102627   | SPRING . . . . .                         | 6         |          |          | (includes items, 3, 4, and 6-9) |           |
| 06       | L500532  | BACK-UP RING . . . . .                   | 2         | 15       | 50220068 | PLUG and WASHER . . . . .       | 2         |
| 07       | L500533  | O-RING . . . . .                         | 2         | 16       | 102628   | ADJUSTING BOLT . . . . .        | 6         |
| 08       | L500534  | BACK-UP RING . . . . .                   | 2         |          |          |                                 |           |
| 09       | L500535  | O-RING . . . . .                         | 2         |          |          |                                 |           |
| 10       | L500536  | INTERMEDIATE BRAKE DISC . . . . .        | 10        |          |          |                                 |           |



NOTE: Quantities shown are for one axle.

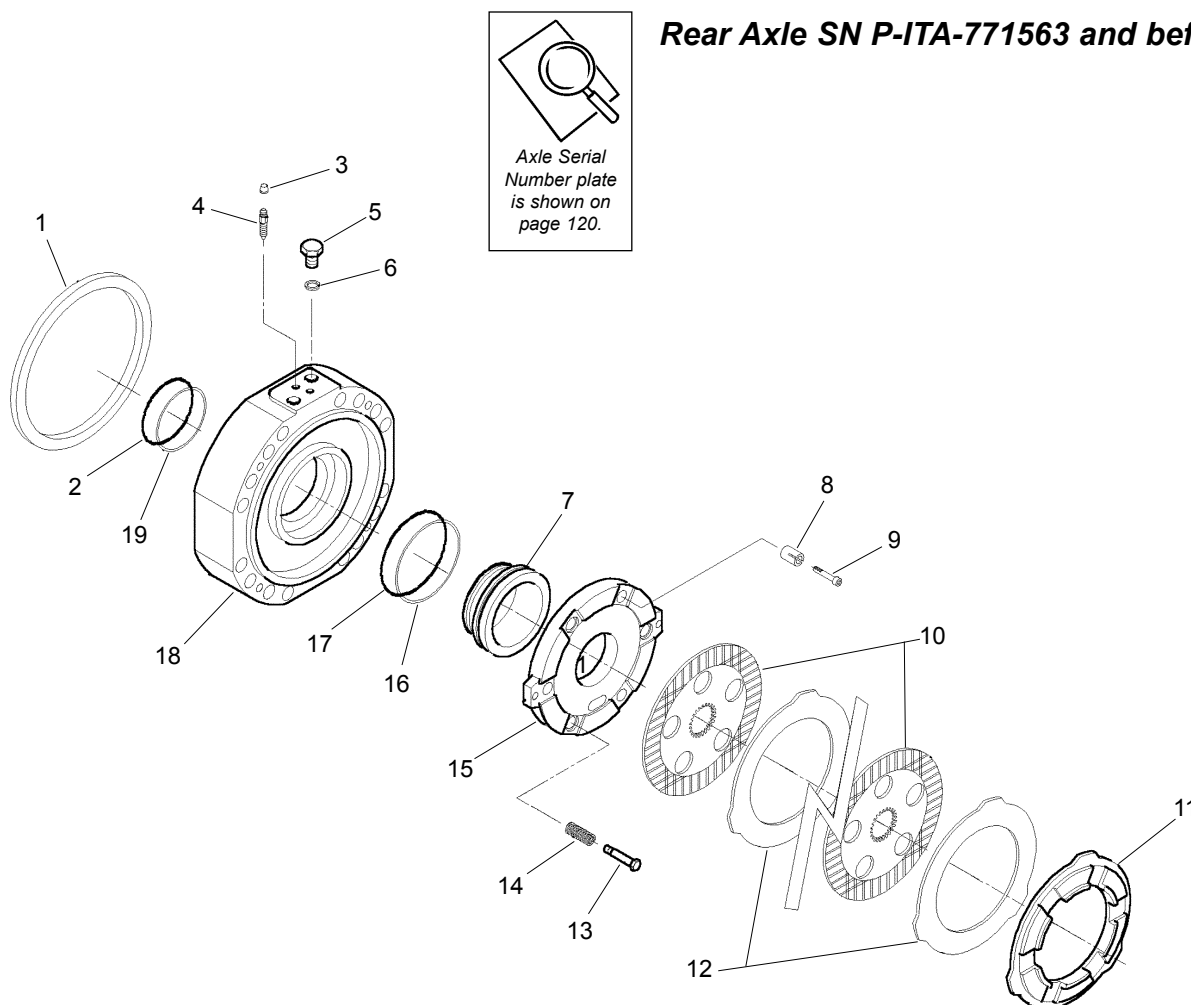


# Telescopic Handler

## Axles

### Brakes - Rear - (RS6 and RS8 Models)

Rear Axle SN P-ITA-771563 and before



RS6 and RS8 Models Only

| Ref. No. | Part No. | Description            | Qty. Req. | Ref. No. | Part No. | Description                 | Qty. Req. |
|----------|----------|------------------------|-----------|----------|----------|-----------------------------|-----------|
| 01       | 102644   | SPACER .....           | 2         | 11       | 102629   | SPACER .....                | 2         |
| 02       | 102622   | BACK-UP RING.....      | 2         | 12       | L500536  | INTERMEDIATE BRAKE DISC.... | 8         |
| 03       | L500496  | PLUG.....              | 2         | 13       | 102628   | ADJUSTING BOLT .....        | 6         |
| 04       | 104655   | BLEEDING BOLT .....    | 2         | 14       | 102627   | SPRING .....                | 6         |
| 05       | 50220068 | PLUG ASSEMBLY: .....   | 2         | 15       | 102626   | INTERMEDIATE BRAKE DISC.... | 2         |
|          |          | (includes item 6)      |           | 16       | 102624   | BACKUP RING .....           | 2         |
| 06       | NSS      | SEAL WASHER.....       | 2         | 17       | L98368   | O-RING .....                | 2         |
|          |          | (included with item 5) |           | 18       | 102898   | COVER .....                 | 2         |
| 07       | 102642   | PISTON .....           | 2         | 19       | 102621   | O-RING .....                | 2         |
| 08       | 102632   | SPRING.....            | 6         |          |          |                             |           |
| 09       | 102897   | ADJUSTING BOLT .....   | 6         |          |          |                             |           |
| 10       | L500527  | BRAKE DISC.....        | 8         |          |          |                             |           |



NOTE: Quantities shown are for one axle.

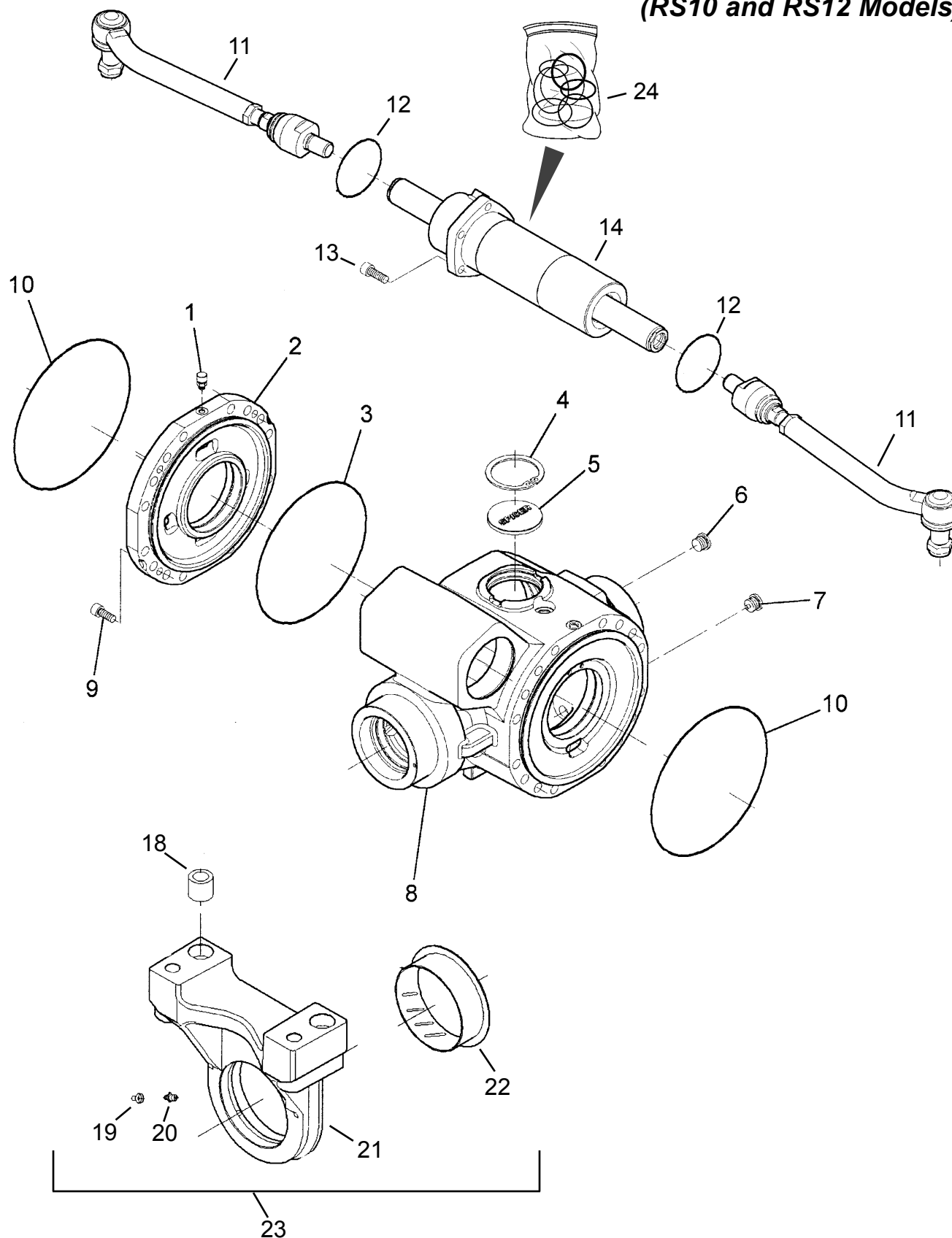


## Axle

## RS Series

### Front and Rear Axle - Steer Cylinder, Central Housing, and Trunion

(RS10 and RS12 Models)



RS10 and RS12 Models Only



# Telescopic Handler

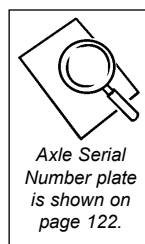
# Axle

## Front and Rear Axle - Steer Cylinder, Central Housing, and Trunion

| Ref. No. | Part No. | Description                            | Qty. Req. | Ref. No. | Part No. | Description                                                                                                                                                             | Qty. Req. |
|----------|----------|----------------------------------------|-----------|----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 01       |          | VENT/ PLUG . . . . .                   | 1         | 19       | L500496  | PLUG . . . . .                                                                                                                                                          | 2         |
|          | 50220030 | <i>Note a - Vent (shown)</i>           |           | 20       | L98355   | GREASE FITTING . . . . .                                                                                                                                                | 2         |
|          | 50220030 | <i>Note b - Vent (shown)</i>           |           | 21       | 106080   | SUPPORT, AXLE . . . . .                                                                                                                                                 | 2         |
|          | L98419   | <i>Note c - Plug (not shown)</i>       |           | 22       | 106079   | THRUST BUSHING . . . . .                                                                                                                                                | 2         |
| 02       | 106002   | INTERMEDIATE COVER . . . . .           | 1         | 23       | 106081   | SUPPORT ASSEMBLY . . . . .                                                                                                                                              | 2         |
| 03       | 106003   | O-RING . . . . .                       | 1         |          |          | <i>(includes items 18-22)</i>                                                                                                                                           |           |
| 04       | L98373   | SNAP RING . . . . .                    | 1         | 24       | 106124   | SEAL KIT, STEER CYLINDER . . . .                                                                                                                                        | 1         |
| 05       |          | PLUG . . . . .                         | 1         |          |          |                                                                                                                                                                         |           |
|          | 104518   | <i>(Front Axle)</i>                    |           | a        |          | <i>Used only on the rear axle.</i>                                                                                                                                      |           |
|          | L98424   | <i>(Rear Axle)</i>                     |           | b        |          | <i>Machines with axle S/N S-ITA-703390 and before use a vent in this location.</i>                                                                                      |           |
| 06       | 104568   | PLUG . . . . .                         | 1         | c        |          | <i>Machines with axle S/N S-ITA-703391 and up use a plug in this location—the axle vent for these units is located on the axle housing; refer to page 143, item 69.</i> |           |
| 07       | 104569   | MAGNETIC PLUG . . . . .                | 1         |          |          |                                                                                                                                                                         |           |
| 08       | 106115   | HOUSING . . . . .                      | 1         |          |          |                                                                                                                                                                         |           |
| 09       | 106005   | BOLT . . . . .                         | 4         |          |          |                                                                                                                                                                         |           |
| 10       | 106006   | O-RING . . . . .                       | 2         |          |          |                                                                                                                                                                         |           |
| 11       | 106076   | TIE ROD . . . . .                      | 2         |          |          |                                                                                                                                                                         |           |
|          | 106871   | NUT <i>(sold separately)</i> . . . . . | AR        |          |          |                                                                                                                                                                         |           |
| 12       | 106075   | O-RING . . . . .                       | 2         |          |          |                                                                                                                                                                         |           |
| 13       | 106077   | BOLT . . . . .                         | 5         |          |          |                                                                                                                                                                         |           |
| 14       | 106074   | STEER CYLINDER . . . . .               | 1         |          |          |                                                                                                                                                                         |           |
| 18       | 106078   | BUSHING . . . . .                      | 4         |          |          |                                                                                                                                                                         |           |



**NOTE:** Quantities shown are for one axle.





## Axle

## RS Series

### Front Axle - Differential - (RS10 and RS12 Models)

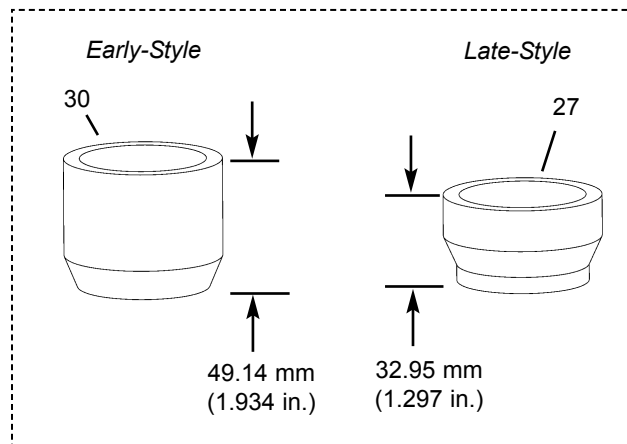
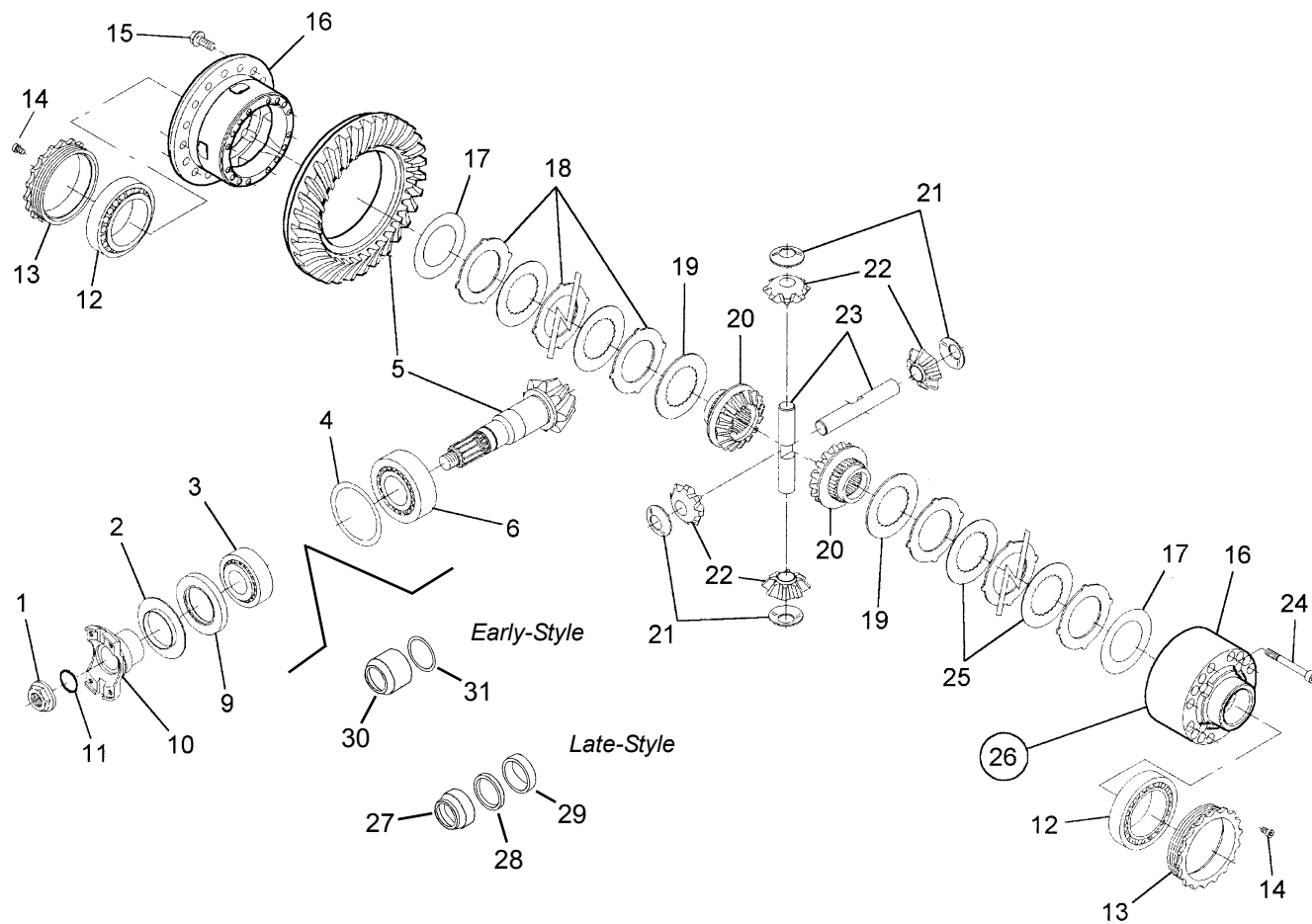


Figure 1.

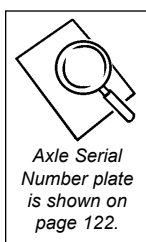


## Telescopic Handler

## Axle

## Front Axle - Differential - (RS10 and RS12 Models)

| Ref. No.        | Part No. | Description                  | Qty. Req. | Ref. No.         | Part No.                                                                                                                                                                                                                                                         | Description                 | Qty. Req. |
|-----------------|----------|------------------------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|
| 01              | 106007   | NUT .....                    | 1         | 27 <sup>a</sup>  | 50220045                                                                                                                                                                                                                                                         | PINION BEARING SPACER ..... | 1         |
| 02              | 106008   | COVER PLATE .....            | 1         |                  |                                                                                                                                                                                                                                                                  | (32.95 mm—length)           |           |
| 03              | 106009   | TAPER ROLLER BEARING .....   | 1         | 28 <sup>ac</sup> |                                                                                                                                                                                                                                                                  | SPACER .....                | AR        |
| 04              |          | SHIM .....                   | AR        |                  | 50220041                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 5.0 mm    |           |
|                 | 106010   | SHIM                         |           |                  | 50220042                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 5.025 mm  |           |
|                 | 106011   | SHIM                         |           |                  | 50220043                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 5.05 mm   |           |
|                 | 106012   | SHIM                         |           |                  | 50220044                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 5.075 mm  |           |
|                 | 106013   | SHIM                         |           | 29 <sup>ac</sup> |                                                                                                                                                                                                                                                                  | SPACER .....                | AR        |
| 05              | 106116   | BEVEL GEAR SET .....         | 1         |                  | 50220031                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 11.8 mm   |           |
| 06              | 106015   | TAPER ROLLER BEARING .....   | 1         |                  | 50220032                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 11.9 mm   |           |
| 09              | 106102   | SEAL .....                   | 1         |                  | 50220033                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.0 mm   |           |
| 10              | 106023   | FLANGE .....                 | 1         |                  | 50220034                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.1 mm   |           |
| 11              | 106024   | O-RING .....                 | 1         |                  | 50220035                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.2 mm   |           |
| 12              | 106025   | TAPER ROLLER BEARING .....   | 2         |                  | 50220036                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.3 mm   |           |
| 13              | 106026   | RING NUT .....               | 2         |                  | 50220037                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.4 mm   |           |
| 14              | L500466  | BOLT .....                   | 2         |                  | 50220038                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.5 mm   |           |
| 15              | L500467  | BOLT .....                   | 16        |                  | 50220039                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.6 mm   |           |
| 16              |          | DIFFERENTIAL CARRIER .....   | 1         |                  | 50220040                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.7 mm   |           |
|                 | 50220049 | Note a                       |           | 30 <sup>be</sup> | NA                                                                                                                                                                                                                                                               | PINION BEARING SPACER ..... | 0         |
|                 | 106027   | Note b                       |           |                  |                                                                                                                                                                                                                                                                  | (49.14 mm—length)           |           |
| 17 <sup>a</sup> | 50220046 | CLUTCH DISC .....            | 2         | 31 <sup>bd</sup> |                                                                                                                                                                                                                                                                  | SHIM .....                  | AR        |
| 17 <sup>b</sup> |          | SHIM .....                   | 2         |                  | 106016                                                                                                                                                                                                                                                           | SHIM, 60 x 50 x 0.15 mm     |           |
|                 | 106028   | SHIM                         |           |                  | 106017                                                                                                                                                                                                                                                           | SHIM, 60 x 50 x 0.20 mm     |           |
|                 | 106029   | SHIM                         |           |                  | 106018                                                                                                                                                                                                                                                           | SHIM, 60 x 50 x 0.30 mm     |           |
|                 | 106030   | SHIM                         |           |                  | 106019                                                                                                                                                                                                                                                           | SHIM, 60 x 50 x 0.40 mm     |           |
| 18              | 106031   | DISC .....                   | 10        |                  | 106020                                                                                                                                                                                                                                                           | SHIM, 60 x 50 x 0.50 mm     |           |
| 19              | 106032   | DISC .....                   | 2         |                  |                                                                                                                                                                                                                                                                  |                             |           |
| 20              | 106033   | DIFFERENTIAL SIDE GEAR ..... | 2         |                  |                                                                                                                                                                                                                                                                  |                             |           |
| 21              |          | FRICTION WASHER .....        | 4         |                  |                                                                                                                                                                                                                                                                  |                             |           |
|                 | 50220054 | Note a                       |           | a                | Axle SN N-ITA-749223 and up *                                                                                                                                                                                                                                    |                             |           |
|                 | 106034   | Note b                       |           | b                | Axle SN N-ITA-749222 and before *                                                                                                                                                                                                                                |                             |           |
| 22              | 106035   | DIFFERENTIAL PINION .....    | 4         |                  |                                                                                                                                                                                                                                                                  |                             |           |
| 23              |          | DIFFERENTIAL SHAFT/PIN ..... | 2         | c                | Use only with pinion bearing spacer item 27.                                                                                                                                                                                                                     |                             |           |
|                 | 50220055 | Note a                       |           |                  |                                                                                                                                                                                                                                                                  |                             |           |
|                 | 106036   | Note b                       |           | d                | Use only with pinion bearing spacer item 30.                                                                                                                                                                                                                     |                             |           |
| 24              | 106037   | BOLT .....                   | 16        |                  |                                                                                                                                                                                                                                                                  |                             |           |
| 25              | 106038   | DISC .....                   | 8         | e                | Early-style pinion bearing spacer—no longer available, replaced by item 27. If ordering item 27, it will also be necessary to order items 28 and 29 as needed to achieve proper spacing and bearing pre-load; refer to axle service manual for more information. |                             |           |
| 26              |          | DIFFERENTIAL .....           | 1         |                  |                                                                                                                                                                                                                                                                  |                             |           |
|                 |          | (includes items 16-25)       |           |                  |                                                                                                                                                                                                                                                                  |                             |           |
|                 | 50220051 | Note a                       |           |                  |                                                                                                                                                                                                                                                                  |                             |           |
|                 | 106039   | Note b                       |           |                  |                                                                                                                                                                                                                                                                  |                             |           |



\*



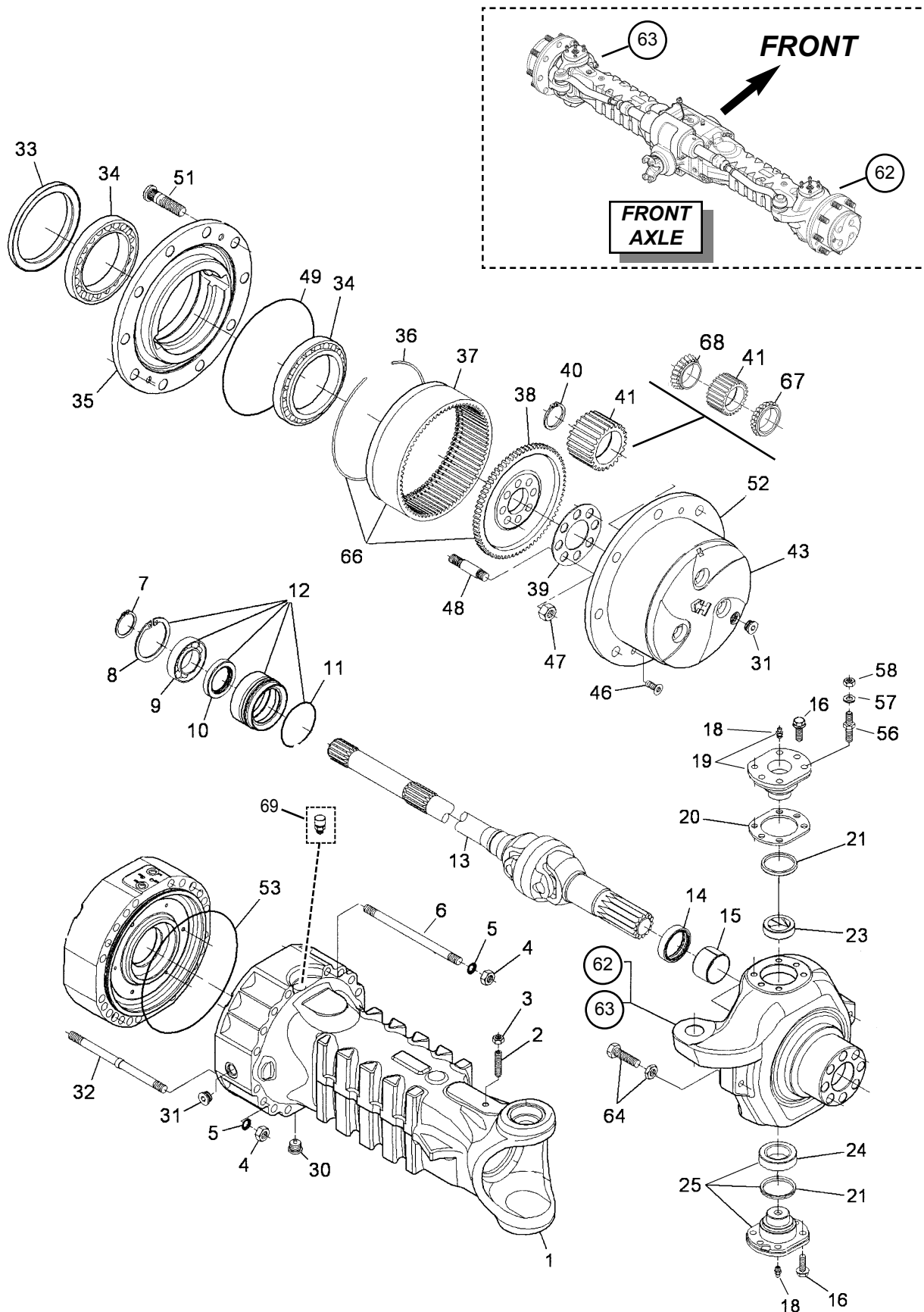
**IMPORTANT:** Before ordering replacement spacers or shims (items 27-31) be sure to measure the length of the pinion bearing spacer; refer to the measurements shown in Figure 1 on the facing page. The shims and spacers for the pinion bearing spacers are not interchangeable.



## Axle

## RS Series

### Front Axle - Hub Reduction - (RS10 and RS12 Models)



RS10 and RS12 Models Only



**Telescopic Handler****Axle****Front Axle - Hub Reduction - (RS10 and RS12 Models)**

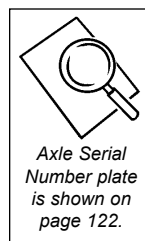
| Ref. No. | Part No. | Description                  | Qty. Req. | Ref. No.        | Part No. | Description                    | Qty. Req. |
|----------|----------|------------------------------|-----------|-----------------|----------|--------------------------------|-----------|
| 01       |          | AXLE CASE.....               | 2         | 43              | 106053   | PLANET GEAR CARRIER .....      | 2         |
|          | 50220624 | Note c                       |           | 46              | 104504   | COUNTER-SUNK BOLT .....        | 4         |
|          | 106117   | Note d                       |           | 47              | 106121   | NUT .....                      | 16        |
| 02       | 102581   | BOLT .....                   | 2         | 48              | 106055   | STUD .....                     | 16        |
| 03       | L500483  | NUT .....                    | 2         | 49              | 102603   | O-RING .....                   | 2         |
| 04       | 102615   | NUT .....                    | 32        | 51              | 102601   | WHEEL STUD .....               | 20        |
| 05       | L500487  | WASHER .....                 | 32        | 52              | 106122   | PLANET GEAR CARRIER .....      | 2         |
| 06       | 106118   | STUD .....                   | 8         |                 |          | (includes items 36-38 & 40-43) |           |
| 07       | L98372   | SNAP RING .....              | 2         | 53              | 106006   | O-RING .....                   | 2         |
| 08       | L98373   | SNAP RING .....              | 2         | 56              | 50220056 | STUD .....                     | 8         |
| 09       | L98371   | BALL BEARING .....           | 2         | 57              | 102583   | WASHER .....                   | 8         |
| 10       | L500489  | SEAL .....                   | 2         | 58              | 102587   | NUT .....                      | 8         |
| 11       | L500490  | O-RING .....                 | 2         | 62 <sup>a</sup> | 106110   | STEERING CASE .....            | 1         |
| 12       | L500488  | REDUCTION BUSHING .....      | 2         |                 |          | (includes item 15)             |           |
| 13       | 106119   | DOUBLE UNIVERSAL JOINT ..... | 2         | 63 <sup>a</sup> | 106111   | STEERING CASE .....            | 1         |
| 14       | 102595   | SEAL .....                   | 2         |                 |          | (includes item 15)             |           |
| 15       | 102588   | THRUST BUSHING .....         | 1         | 64              | 104546   | STEERING BOLT & NUT .....      | 4         |
| 16       | L500467  | BOLT .....                   | 8         | 66              | 106112   | RING GEAR SUPPORT .....        | 2         |
| 18       | L98355   | GREASE FITTING .....         | 4         |                 |          | (includes items 36-38)         |           |
| 19       | 102590   | PIVOT PIN .....              | 2         | 67              | 106113   | TAPER ROLLER BEARING .....     | 8         |
| 20       |          | SHIM .....                   | 2         | 68              | 106114   | ROLLER BEARING .....           | 8         |
|          | 102610   | SHIM                         |           | 69 <sup>b</sup> | 50220030 | VENT .....                     | 1         |
|          | 102611   | SHIM                         |           |                 |          |                                |           |
|          | 102612   | SHIM                         |           |                 |          |                                |           |
| 21       | 106043   | DUST EXCLUDER .....          | 2         |                 |          |                                |           |
| 23       | 102589   | BUSHING .....                | 2         |                 |          |                                |           |
| 24       | 102593   | BEARING .....                | 2         |                 |          |                                |           |
| 25       | 102591   | PIVOT PIN .....              | 2         |                 |          |                                |           |
| 30       | 104569   | MAGNETIC PLUG .....          | 2         |                 |          |                                |           |
| 31       | 104568   | PLUG .....                   | 3         |                 |          |                                |           |
| 32       | 106120   | STUD .....                   | 24        |                 |          |                                |           |
| 33       | 104517   | SEAL .....                   | 2         |                 |          |                                |           |
| 34       | 106045   | TAPER ROLLER BEARING .....   | 4         |                 |          |                                |           |
| 35       | 106046   | WHEEL HUB .....              | 2         |                 |          |                                |           |
| 36       | 102608   | SNAP RING .....              | 2         |                 |          |                                |           |
| 37       | 106105   | RING GEAR .....              | 2         |                 |          |                                |           |
| 38       | 106106   | RING GEAR SUPPORT .....      | 2         |                 |          |                                |           |
| 39       | 106049   | LOCKING PLATE .....          | 2         |                 |          |                                |           |
| 40       | 106107   | SNAP RING .....              | 8         |                 |          |                                |           |
| 41       | 106108   | PLANET GEAR .....            | 8         |                 |          |                                |           |

a When ordering, refer to inset illustration "Front Axle" on facing page to determine correct steering case (e.g., left-side or right-side).

b Used in only one axle case (as shown), and only on axles in the axle S/N range S-ITA-703391 and up; the other side (axle case) uses a plug (PN L98419) in place of this vent.

c Axle SN S-ITA-703391 and up

d Axle SN S-ITA-703390 and before







## Axle

## RS Series

### Rear Axle - Differential - (RS10 and RS12 Models)

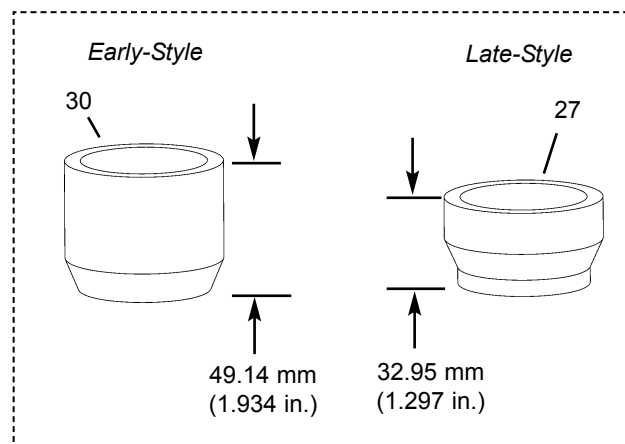
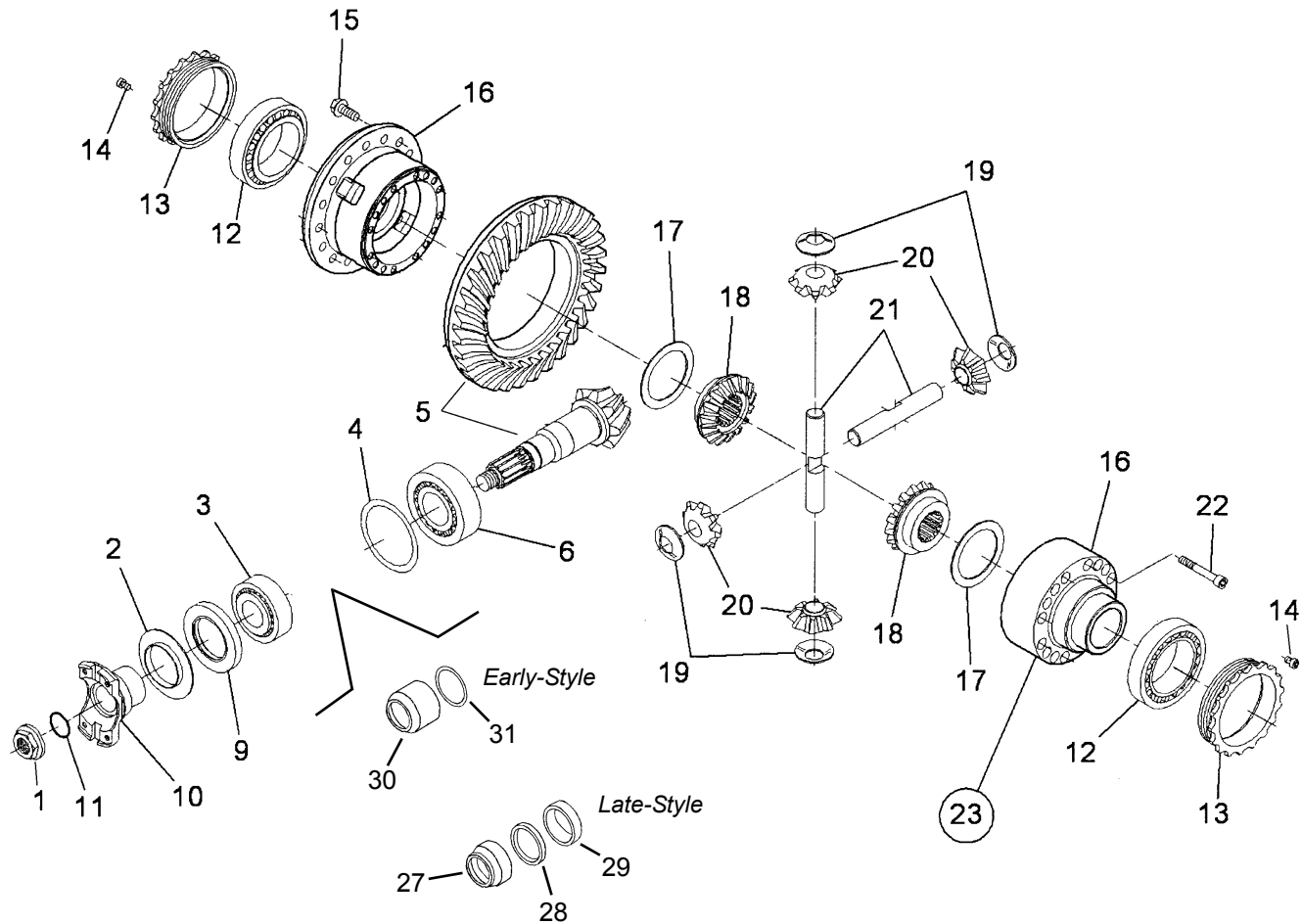


Figure 2.



## Telescopic Handler

## Axle

## Rear Axle - Differential - (RS10 and RS12 Models)

| Ref. No. | Part No. | Description                  | Qty. Req. | Ref. No.         | Part No.                                                                                                                                                                                                                                                         | Description                 | Qty. Req. |
|----------|----------|------------------------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|
| 01       | 106007   | NUT .....                    | 1         | 27 <sup>a</sup>  | 50220045                                                                                                                                                                                                                                                         | PINION BEARING SPACER ..... | 1         |
| 02       | 106008   | COVER PLATE .....            | 1         |                  |                                                                                                                                                                                                                                                                  | (32.95 mm—length)           |           |
| 03       | 106009   | TAPER ROLLER BEARING .....   | 1         | 28 <sup>ac</sup> |                                                                                                                                                                                                                                                                  | SPACER .....                | AR        |
| 04       |          | SHIM .....                   | AR        |                  | 50220041                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 5.0 mm    |           |
|          | 106010   | SHIM                         |           |                  | 50220042                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 5.025 mm  |           |
|          | 106011   | SHIM                         |           |                  | 50220043                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 5.05 mm   |           |
|          | 106012   | SHIM                         |           |                  | 50220044                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 5.075 mm  |           |
|          | 106013   | SHIM                         |           | 29 <sup>ac</sup> |                                                                                                                                                                                                                                                                  | SPACER .....                | AR        |
| 05       | 106259   | BEVEL GEAR SET .....         | 1         |                  | 50220031                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 11.8 mm   |           |
| 06       | 106015   | TAPER ROLLER BEARING .....   | 1         |                  | 50220032                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 11.9 mm   |           |
| 09       | 106102   | SEAL .....                   | 1         |                  | 50220033                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.0 mm   |           |
| 10       | 106023   | FLANGE .....                 | 1         |                  | 50220034                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.1 mm   |           |
| 11       | 106024   | O-RING .....                 | 1         |                  | 50220035                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.2 mm   |           |
| 12       | 106025   | TAPER ROLLER BEARING .....   | 2         |                  | 50220036                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.3 mm   |           |
| 13       | 106026   | RING NUT .....               | 2         |                  | 50220037                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.4 mm   |           |
| 14       | L500466  | BOLT .....                   | 2         |                  | 50220038                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.5 mm   |           |
| 15       | L500467  | BOLT .....                   | 16        |                  | 50220039                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.6 mm   |           |
| 16       |          | DIFFERENTIAL CARRIER .....   | 1         |                  | 50220040                                                                                                                                                                                                                                                         | SPACER, 60 x 50 x 12.7 mm   |           |
|          | 50220048 | Note a                       |           | 30 <sup>be</sup> | NA                                                                                                                                                                                                                                                               | PINION BEARING SPACER ..... | 0         |
|          | 106083   | Note b                       |           |                  |                                                                                                                                                                                                                                                                  | (49.14 mm—length)           |           |
| 17       |          | FRICTION WASHER .....        | 2         | 31 <sup>bd</sup> |                                                                                                                                                                                                                                                                  | SHIM .....                  | AR        |
|          | 50220052 | Note a                       |           |                  | 106016                                                                                                                                                                                                                                                           | SHIM, 60 x 50 x 0.15 mm     |           |
|          | 106084   | Note b                       |           |                  | 106017                                                                                                                                                                                                                                                           | SHIM, 60 x 50 x 0.20 mm     |           |
| 18       |          | DIFFERENTIAL SIDE GEAR ..... | 2         |                  | 106018                                                                                                                                                                                                                                                           | SHIM, 60 x 50 x 0.30 mm     |           |
|          | 50220053 | Note a                       |           |                  | 106019                                                                                                                                                                                                                                                           | SHIM, 60 x 50 x 0.40 mm     |           |
|          | 106085   | Note b                       |           |                  | 106020                                                                                                                                                                                                                                                           | SHIM, 60 x 50 x 0.50 mm     |           |
| 19       |          | FRICTION WASHER .....        | 4         |                  |                                                                                                                                                                                                                                                                  |                             |           |
|          | 50220054 | Note a                       |           |                  |                                                                                                                                                                                                                                                                  |                             |           |
|          | 106034   | Note b                       |           |                  |                                                                                                                                                                                                                                                                  |                             |           |
| 20       | 106035   | DIFFERENTIAL PINON .....     | 4         | a                | Axle SN N-ITA-749220 and up *                                                                                                                                                                                                                                    |                             |           |
| 21       |          | PIN .....                    | 2         | b                | Axle SN N-ITA-749219 and before *                                                                                                                                                                                                                                |                             |           |
|          | 50220055 | Note a                       |           |                  |                                                                                                                                                                                                                                                                  |                             |           |
|          | 106036   | Note b                       |           |                  |                                                                                                                                                                                                                                                                  |                             |           |
| 22       |          | BOLT .....                   | 15        | c                | Use only with pinion bearing spacer item 27.                                                                                                                                                                                                                     |                             |           |
|          | 50220029 | Note a                       |           |                  |                                                                                                                                                                                                                                                                  |                             |           |
|          | 106086   | Note b                       |           | d                | Use only with pinion bearing spacer item 30.                                                                                                                                                                                                                     |                             |           |
| 23       |          | DIFFERENTIAL .....           | 1         | e                | Early-style pinion bearing spacer—no longer available, replaced by item 27. If ordering item 27, it will also be necessary to order items 28 and 29 as needed to achieve proper spacing and bearing pre-load; refer to axle service manual for more information. |                             |           |
|          |          | (includes items 16-22)       |           |                  |                                                                                                                                                                                                                                                                  |                             |           |
|          | 50220050 | Note a                       |           |                  |                                                                                                                                                                                                                                                                  |                             |           |
|          | 106087   | Note b                       |           |                  |                                                                                                                                                                                                                                                                  |                             |           |



Axle Serial  
Number plate  
is shown on  
page 122.

\*



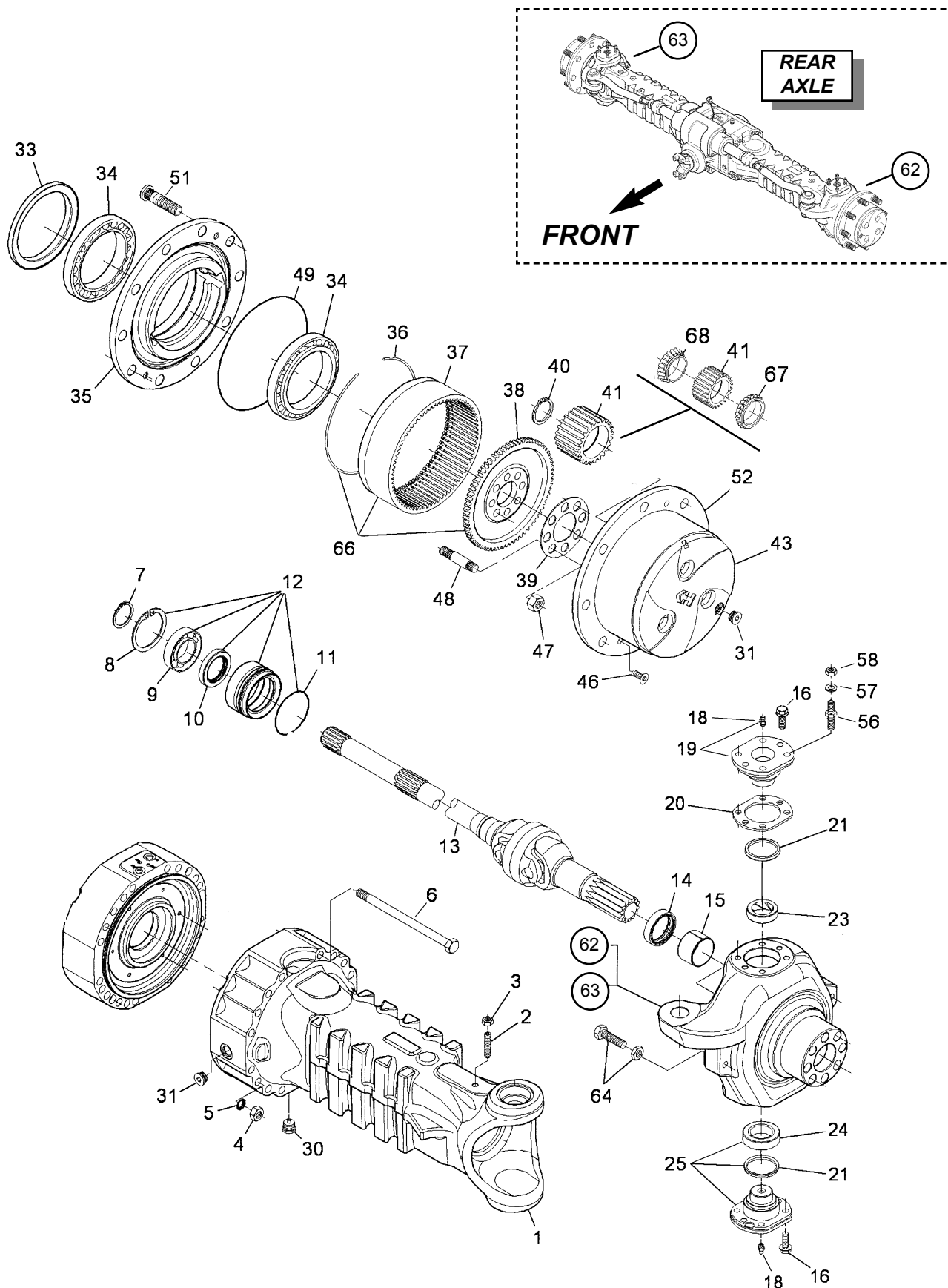
**IMPORTANT:** Before ordering replacement spacers or shims (items 27-31) be sure to measure the length of the pinion bearing spacer; refer to the measurements shown in Figure 2 on the facing page. The shims and spacers for the pinion bearing spacers are not interchangeable.

RS10 and RS12 Models Only

## Axle

## RS Series

### ***Rear Axle - Hub Reduction - (RS10 and RS12 Models)***

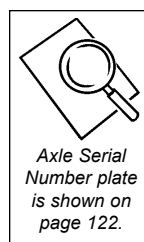


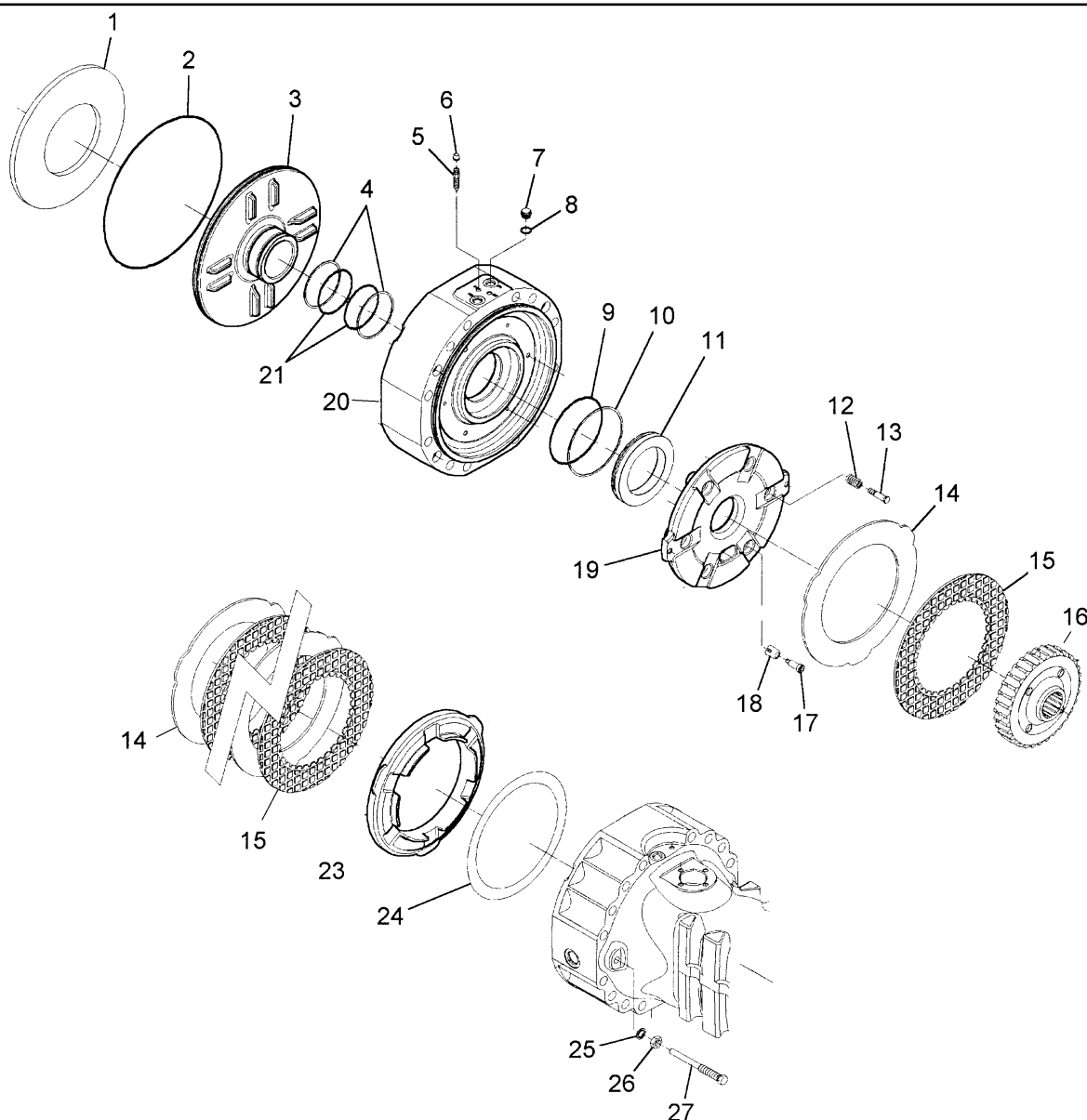
**Telescopic Handler****Axle****Rear Axle - Hub Reduction - (RS10 and RS12 Models)**

| Ref. No. | Part No. | Description                 | Qty. Req. | Ref. No.        | Part No. | Description                               | Qty. Req. |
|----------|----------|-----------------------------|-----------|-----------------|----------|-------------------------------------------|-----------|
| 01       | 106103   | AXLE CASE.....              | 2         | 37              | 106105   | RING GEAR .....                           | 2         |
| 02       | 102581   | BOLT .....                  | 2         | 38              | 106106   | RING GEAR SUPPORT .....                   | 2         |
| 03       | L500483  | NUT .....                   | 2         | 39              | 106049   | LOCKING PLATE .....                       | 2         |
| 06       | 106089   | BOLT .....                  | 32        | 40              | 106107   | SNAP RING.....                            | 8         |
| 07       | L98372   | SNAP RING .....             | 2         | 41              | 106108   | PLANET GEAR .....                         | 8         |
| 08       | L98373   | SNAP RING .....             | 2         | 43              | 106109   | PLANET GEAR CARRIER .....                 | 2         |
| 09       | L98371   | BALL BEARING.....           | 2         | 46              | 104504   | COUNTER-SUNK BOLT .....                   | 4         |
| 10       | L500489  | SEAL .....                  | 2         | 47              | 106054   | NUT .....                                 | 16        |
| 11       | L500490  | O-RING .....                | 2         | 48              | 106055   | STUD .....                                | 16        |
| 12       | L500488  | REDUCTION BUSHING .....     | 2         | 49              | 102603   | O-RING .....                              | 2         |
| 13       | 106104   | DOUBLE UNIVERSAL JOINT..... | 2         | 51              | 102601   | WHEEL STUD .....                          | 20        |
| 14       | 102595   | SEAL .....                  | 2         | 52              | 106056   | PLANET GEAR CARRIER .....                 | 2         |
| 15       | 102588   | THRUST BUSHING .....        | 1         |                 |          | <i>(includes items 36-38 &amp; 40-43)</i> |           |
| 16       | L500467  | BOLT .....                  | 8         | 56              | 50220056 | STUD .....                                | 8         |
| 18       | L98355   | GREASE FITTING.....         | 4         | 57              | 102583   | WASHER.....                               | 8         |
| 19       | 102590   | PIVOT PIN.....              | 2         | 58              | 102587   | NUT .....                                 | 8         |
| 20       |          | SHIM .....                  | 2         | 62 <sup>a</sup> | 106110   | STEERING CASE .....                       | 1         |
|          | 102610   | SHIM                        |           |                 |          | <i>(includes item 15)</i>                 |           |
|          | 102611   | SHIM                        |           | 63 <sup>a</sup> | 106111   | STEERING CASE .....                       | 1         |
|          | 102612   | SHIM                        |           |                 |          | <i>(includes item 15)</i>                 |           |
| 21       | 106043   | DUST EXCLUDER .....         | 2         | 64              | 104546   | STEERING BOLT & NUT .....                 | 4         |
| 23       | 102589   | BUSHING .....               | 2         | 66              | 106112   | RING GEAR SUPPORT .....                   | 2         |
| 24       | 102593   | BEARING.....                | 2         |                 |          | <i>(includes items 36-38)</i>             |           |
| 25       | 102591   | PIVOT PIN.....              | 2         | 67              | 106113   | TAPER ROLLER BEARING .....                | 8         |
| 30       | 104569   | MAGNETIC PLUG.....          | 2         | 68              | 106114   | ROLLER BEARING.....                       | 8         |
| 31       | 104568   | PLUG .....                  | 3         |                 |          |                                           |           |
| 33       | 104517   | SEAL .....                  | 2         |                 |          |                                           |           |
| 34       | 106045   | TAPER ROLLER BEARING .....  | 4         |                 |          |                                           |           |
| 35       | 106046   | WHEEL HUB .....             | 2         |                 |          |                                           |           |
| 36       | 102608   | SNAP RING .....             | 2         |                 |          |                                           |           |

**a**

When ordering, refer to inset illustration "Rear Axle" on facing page to determine correct steering case (e.g., left-side or right-side).



**Axle****RS Series****Front Axle - Brakes - (RS10 and RS12 Models)**

RS10 and RS12 Models Only

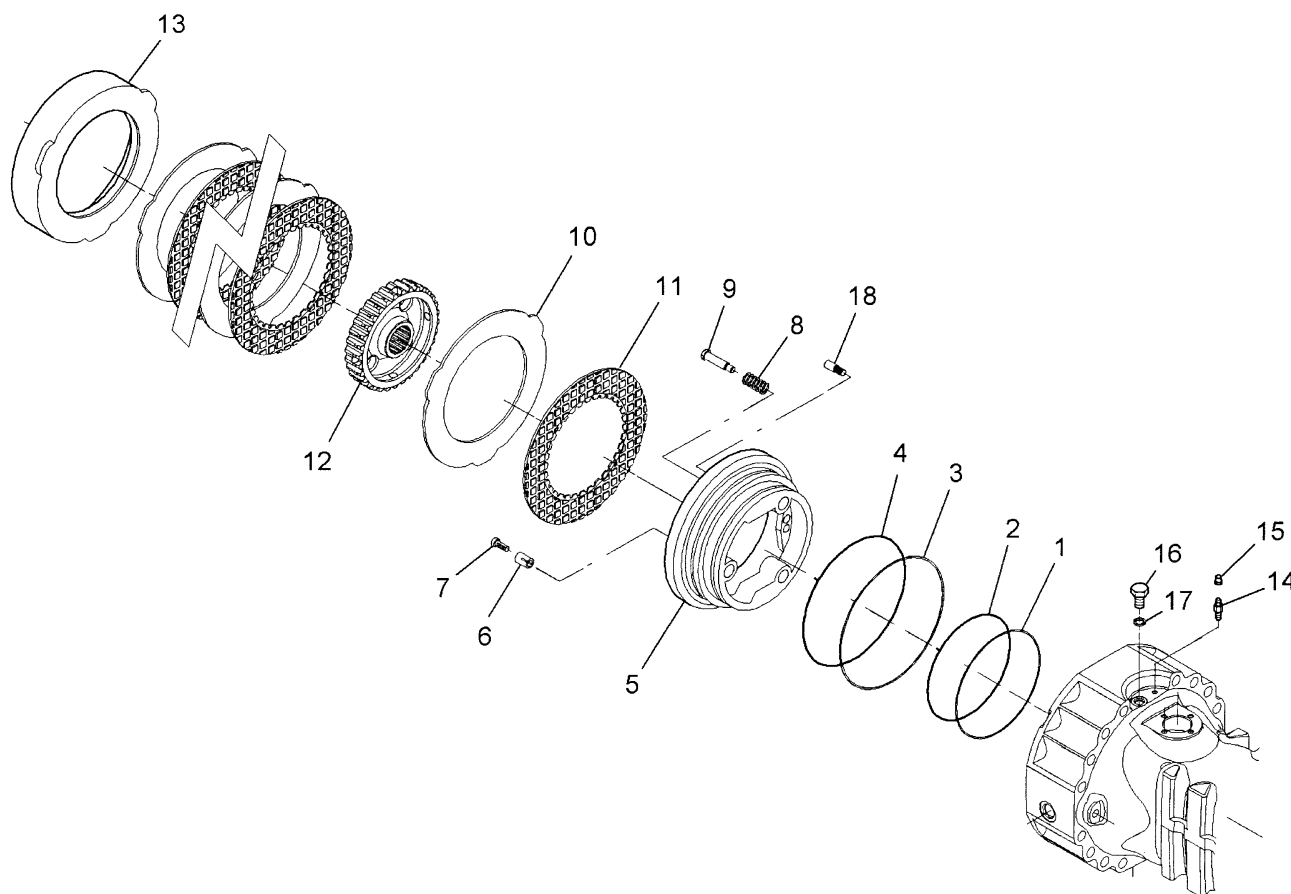
| Ref. No. | Part No. | Description                     | Qty. Req. | Ref. No. | Part No. | Description                 | Qty. Req. |
|----------|----------|---------------------------------|-----------|----------|----------|-----------------------------|-----------|
| 01       | 106061   | SPRING.....                     | 2         | 16       | 106066   | REDUCTION BUSHING .....     | 2         |
| 02       | 106006   | O-RING .....                    | 2         | 17       | 102631   | ADJUSTING BOLT .....        | 6         |
| 03       | 106062   | PISTON .....                    | 2         | 18       | 102632   | SPRING .....                | 6         |
| 04       | 102622   | BACK-UP RING.....               | 4         | 19       | 106067   | INTERMEDIATE BRAKE DISC.... | 2         |
| 05       | 104655   | BLEED SCREW .....               | 4         | 20       | 106123   | INTERMEDIATE COVER .....    | 2         |
| 06       | L500496  | PLUG.....                       | 4         | 21       | 102621   | O-RING .....                | 4         |
| 07       | 50220068 | PLUG ASSEMBLY (includes #8)...  | 2         | 23       | 106070   | SPACER .....                | 2         |
| 08       | NSS      | SEAL WASHER (included w/ #7) .. | 2         | 24       |          | SHIM .....                  | 2         |
| 09       | 104657   | O-RING .....                    | 2         |          | 106071   | SHIM                        |           |
| 10       | 104658   | BACK-UP RING.....               | 2         |          | 106072   | SHIM                        |           |
| 11       | 106063   | PISTON .....                    | 2         |          | 106073   | SHIM                        |           |
| 12       | 102627   | SPRING.....                     | 6         | 25       | 102634   | LOCK WASHER .....           | 4         |
| 13       | 102628   | ADJUSTING BOLT .....            | 6         | 26       | 102633   | NUT .....                   | 4         |
| 14       | 106064   | INTERMEDIATE BRAKE DISC....     | 6         | 27       | 103391   | BOLT .....                  | 4         |
| 15       | 106065   | BRAKE DISC.....                 | 6         |          |          |                             |           |



# Telescopic Handler

## Axle

### Rear Axle - Brakes - (RS10 and RS12 Models)



| Ref. No. | Part No. | Description          | Qty. Req. | Ref. No. | Part No. | Description                     | Qty. Req. |
|----------|----------|----------------------|-----------|----------|----------|---------------------------------|-----------|
| 01       | 106091   | BACK-UP RING.....    | 2         | 10       | 106064   | INTERMEDIATE BRAKE DISC....     | 6         |
| 02       | 106092   | O-RING .....         | 2         | 11       | 106065   | BRAKE DISC.....                 | 6         |
| 03       | 106093   | BACK-UP RING.....    | 2         | 12       | 106066   | REDUCTION BUSHING .....         | 2         |
| 04       | 106094   | O-RING .....         | 2         | 13       | 106096   | SPACER .....                    | 2         |
| 05       | 106095   | PISTON .....         | 2         | 14       | 104655   | BLEED SCREW .....               | 2         |
| 06       | 102632   | SPRING.....          | 6         | 15       | L500496  | PLUG.....                       | 2         |
| 07       | 102897   | ADJUSTING BOLT ..... | 6         | 16       | 50220068 | PLUG ASSEMBLY (includes #17) .. | 2         |
| 08       | 102627   | SPRING.....          | 6         | 17       | NSS      | SEAL WASHER (included w/ #16) . | 2         |
| 09       | 102628   | ADJUSTING BOLT ..... | 6         | 18       | 106097   | PILOT BOLT .....                | 2         |

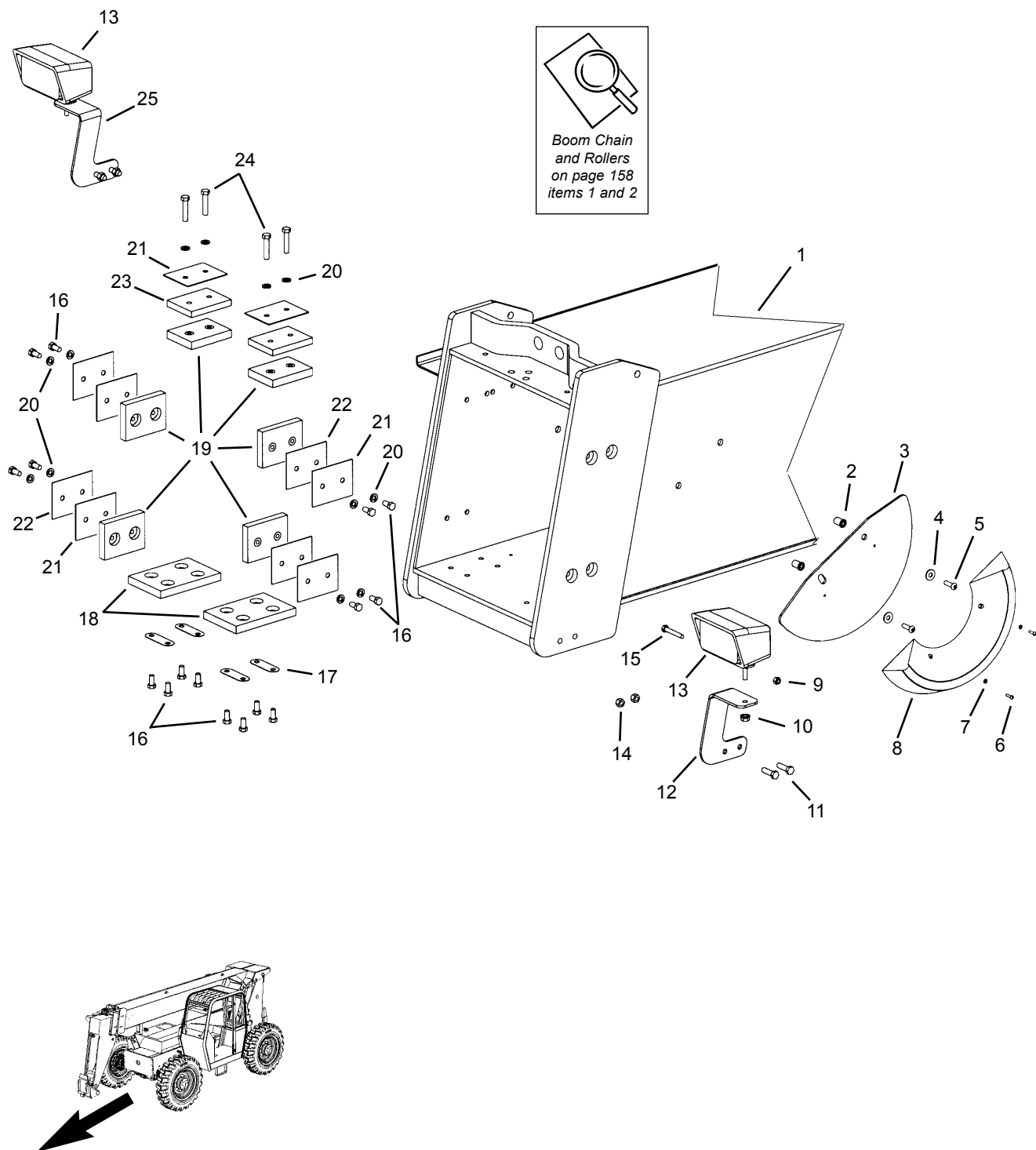
RS10 and RS12 Models Only



## Boom

## RS Series

### 3-Section Boom - Outer - Front





**Telescopic Handler****Boom****3-Section Boom - Outer - Front**

| Ref. No. | Part No. | Description                                  | Qty. Req. | Ref. No. | Part No. | Description                                   | Qty. Req. |
|----------|----------|----------------------------------------------|-----------|----------|----------|-----------------------------------------------|-----------|
| 01       |          | OUTER BOOM WELDMENT . . . . .                | 1         | 13       | L70040   | WORK LIGHT . . . . .                          | 2         |
|          | 210434   | 3-section 42' boom                           |           |          | L70462   | LIGHT HARNESS ( <i>not shown</i> )            |           |
|          | 210123   | 3-section 44' boom                           |           | 14       | L520005  | 3/8"-16 NYLON INSERT NUT . . . . .            | 4         |
| 02       | L70242   | 5/16"-18 NUT INSERT . . . . .                | 2         | 15       | L50835   | 5/16"-18X2" BOLT . . . . .                    | 2         |
| 03       | L65640   | BOOM ANGLE IND. PLATE . . . . .              | 1         | 16       | 650488   | 3/8"-16X3/4" BOLT . . . . .                   | 16        |
| 04       | 650810   | 5/16" FLAT WASHER . . . . .                  | 2         | 17       | L62715   | FLAT-BOLT LOCK . . . . .                      | 4         |
| 05       | L52048   | 5/16"-18X1" BUTTON HD BOLT . . . . .         | 2         | 18       | L71020   | SLIDE PAD 4" x 6" . . . . .                   | 2         |
| 06       | 651271   | #8X3/8" RND HD MACH SCREW . . . . .          | 2         | 19       | L61709   | SLIDE PAD . . . . .                           | 6         |
| 07       | L50136   | #10 LOCK WASHER . . . . .                    | 2         | 20       | 654026   | 3/8" LOCK WASHER . . . . .                    | 12        |
| 08       | L65638   | INCLINOMETER - ANGLE IND. . . . .            | 1         | 21       | L62733   | 1/16"X3"X4" SHIM . . . . .                    | 6         |
| 09       | L520004  | 5/16"-18 NYLON INSERT NUT . . . . .          | 2         | 22       | L62734   | 1/8"X3"X4" SHIM . . . . .                     | 4         |
| 10       | 090666   | 3/8"-16 FLARE NUT . . . . .                  | 2         | 23       | L64132   | 3/8" PAD SPACER . . . . .                     | 2         |
| 11       | 651625   | 3/8"-16X1-1/4" BOLT . . . . .                | 4         | 24       | 650491   | 3/8"-16X1-1/4" BOLT . . . . .                 | 4         |
| 12       | L70639   | BOOM LIGHT BRACKET ( <i>left</i> ) . . . . . | 1         | 25       | L70635   | BOOM LIGHT BRACKET ( <i>right</i> ) . . . . . | 1         |

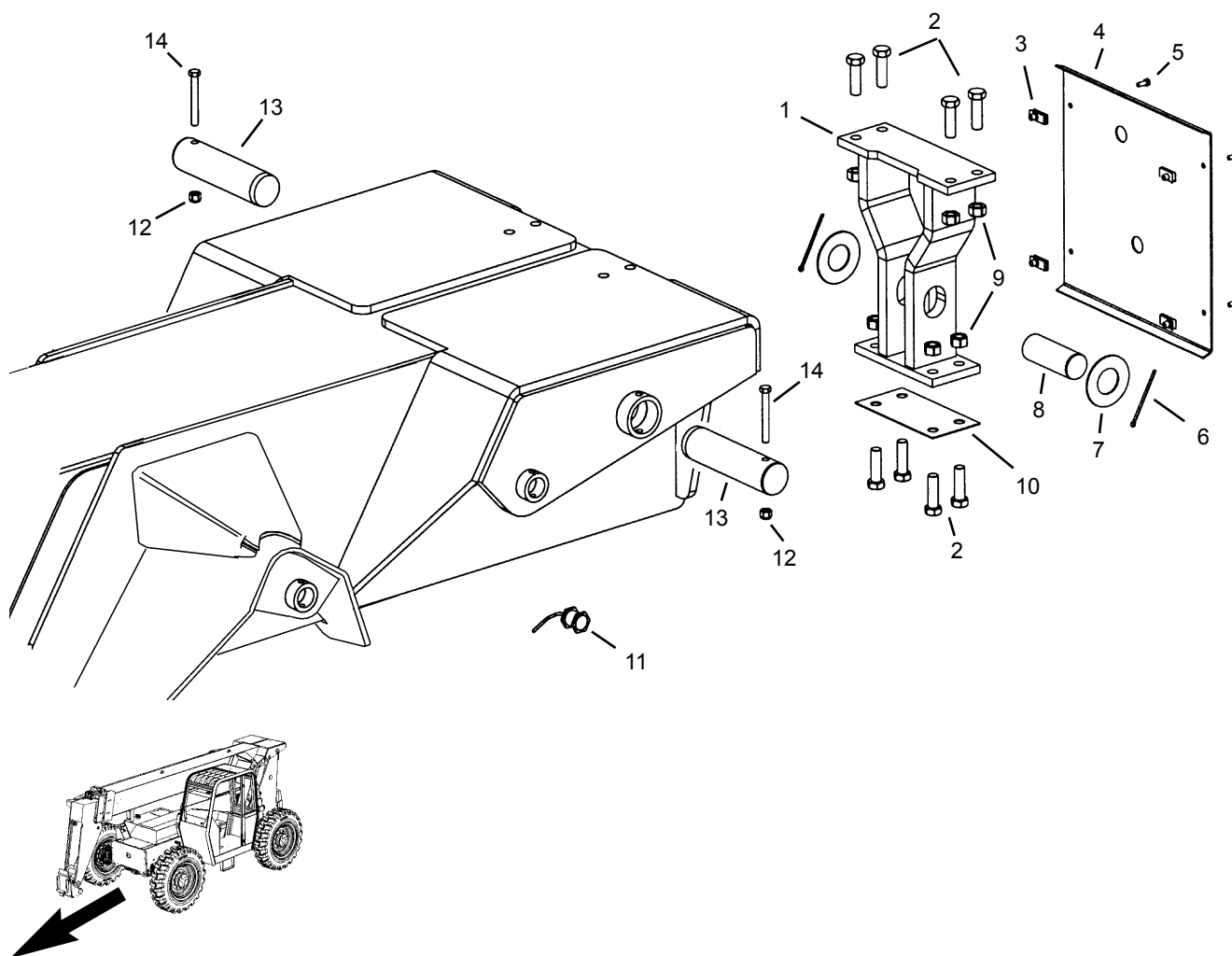




# Boom

## 3-Section Boom - Outer - Rear

# RS Series

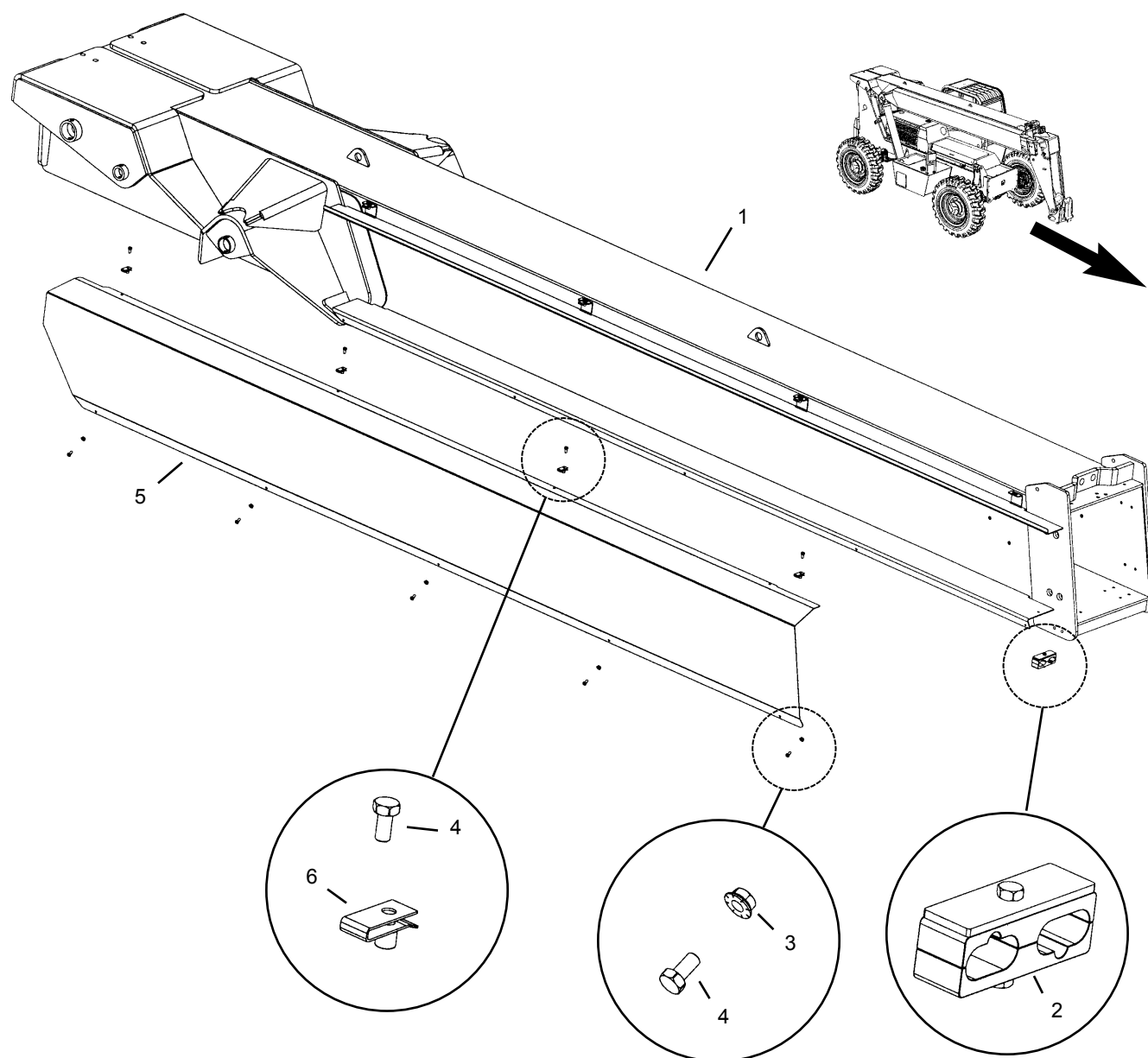


| Ref. No. | Part No. | Description                   | Qty. Req. | Ref. No.                     | Part No. | Description                       | Qty. Req. |
|----------|----------|-------------------------------|-----------|------------------------------|----------|-----------------------------------|-----------|
| 01       | 102335   | EXTEND CYLINDER, WELDMENT     | 1         | 10                           | L70420   | SHIM, TRUNNION.....               | 1         |
| 02       | 650711   | 3/4"-10X3" BOLT GR8.....      | 8         | 11                           | L71165   | SWITCH, PROXIMITY.....            | 1         |
| 03       | L530004  | 5/16" FASTENER, RETAINED .... | 4         | 12                           | L520019  | 1/2"-13 NYLON INSERT NUT .....    | 2         |
| 04       | 102710   | COVER, REAR BOOM .....        | 1         | 13                           | 210291   | PIN, BOOM .....                   | 2         |
| 05       | 650486   | 5/16"-18x3/4" BOLT .....      | 4         | 14                           | 650744   | 1/2"-13X4" BOLT .....             | 2         |
| 06       | L50608   | PIN, COTTER 3/16"X4".....     | 2         | <b>-- ITEMS NOT SHOWN --</b> |          |                                   |           |
| 07       | L400207  | WASHER, THRUST .....          | 2         |                              |          |                                   |           |
| 08       | L69994   | PIN, ROD END .....            | 1         | --                           | 270192   | CLIP, SMALL WIRE.....             | 4         |
| 09       | L50519   | 3/4"-10 NYLON INSERT NUTS.... | 8         |                              |          | (used with proximity switch wire) |           |



# Telescopic Handler

## Boom 3-Section Boom - Outer Side Cover



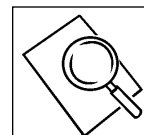
| Ref. No. | Part No. | Description                        | Qty. Req. | Ref. No. | Part No. | Description                        | Qty. Req. |
|----------|----------|------------------------------------|-----------|----------|----------|------------------------------------|-----------|
| 01       |          | OUTER BOOM WELDMENT . . . . . 1    |           | 05       |          | COVER, BOOM SIDE . . . . . 1       |           |
|          | 210434   | 3-section 42' boom                 |           |          | 105230   | 3-section 44' boom                 |           |
|          | 210123   | 3-section 44' boom                 |           |          | 210459   | 3-section 42' boom                 |           |
| 02       | L79167   | CLAMP ASSEMBLY . . . . . 1         |           | 06       | L530004  | 5/16" FASTENER, RETAINED . . . . 4 |           |
| 03       | L50056   | 5/16"-18 WHIZ LOCK NUT . . . . . 5 |           |          |          |                                    |           |
| 04       | 650485   | 5/16"-18X5/8" BOLT . . . . . 9     |           |          |          |                                    |           |



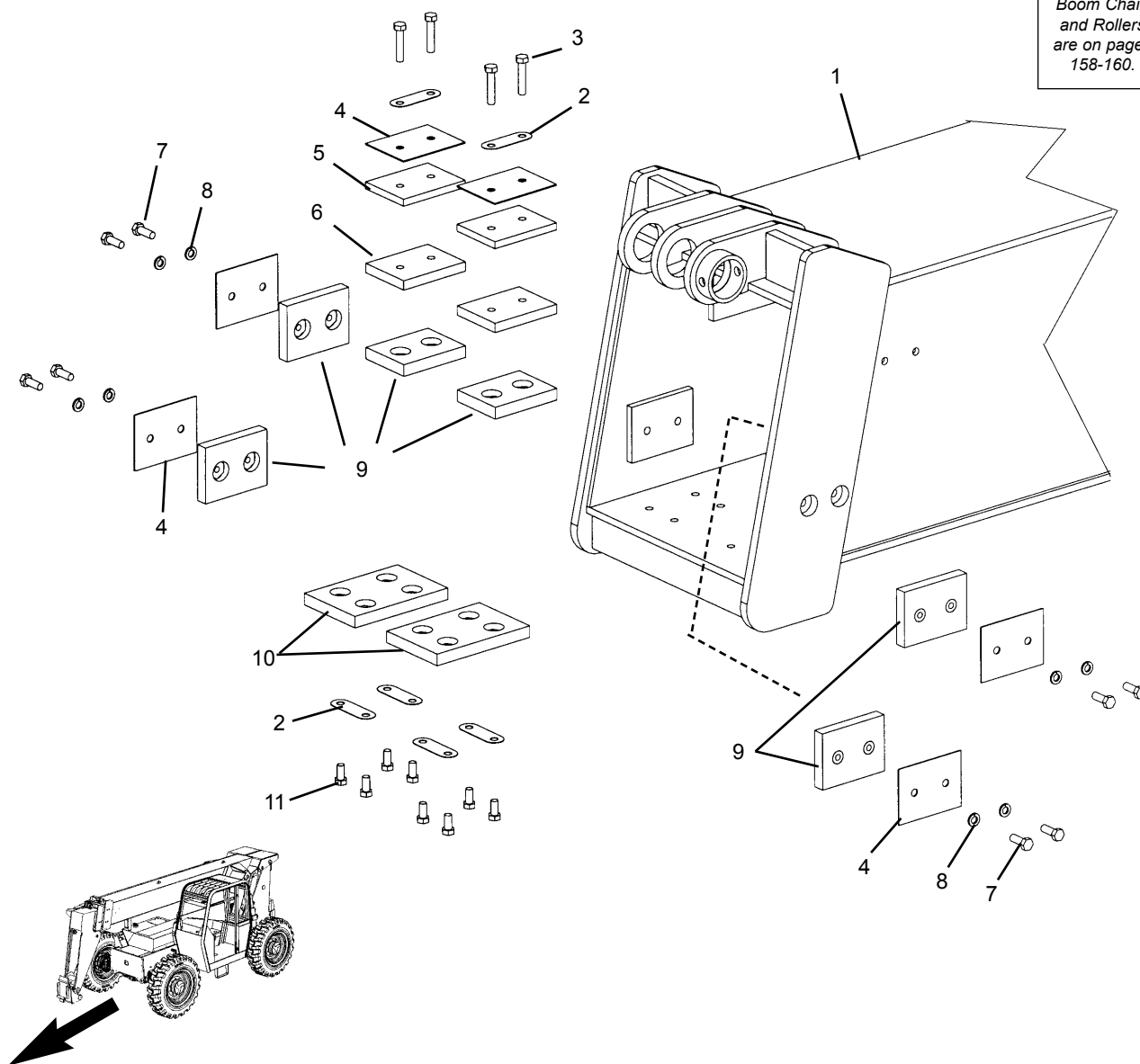
# Boom

## 3-Section Boom - Intermediate - Front

## RS Series



Boom Chain  
and Rollers  
are on pages  
158-160.



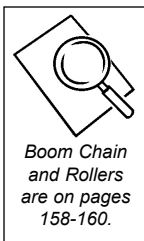
| Ref. No. | Part No. | Description                | Qty. Req. |
|----------|----------|----------------------------|-----------|
| 01       |          | INTERMEDIATE BOOM..... 1   |           |
|          | 102282   | 3-section 42' boom         |           |
|          | 102285   | 3-section 44' boom         |           |
| 02       | L62715   | FLAT-BOLT LOCK..... 6      |           |
| 03       | 650488   | 3/8"-16X1-1/2" BOLT..... 4 |           |
| 04       | L62733   | 1/16"X3"X4" SHIM..... 6    |           |
| 05       | L62734   | 1/8"X3"X4" SHIM..... 2     |           |

| Ref. No. | Part No. | Description              | Qty. Req. |
|----------|----------|--------------------------|-----------|
| 06       | L64143   | 1/2"X3"X4" SHIM..... 2   |           |
| 07       | 650490   | 3/8"-16X1" BOLT..... 8   |           |
| 08       | 654026   | 3/8" LOCK WASHER..... 8  |           |
| 09       | L61709   | SLIDE PAD..... 6         |           |
| 10       | L71020   | SLIDE PAD 4" x 6"..... 2 |           |
| 11       | 650488   | 3/8"-16X3/4" BOLT..... 8 |           |

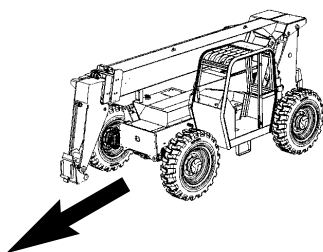
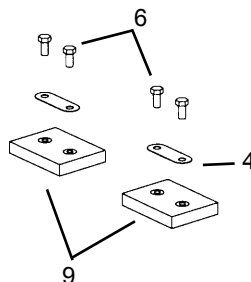
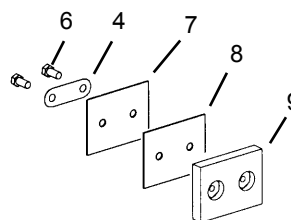
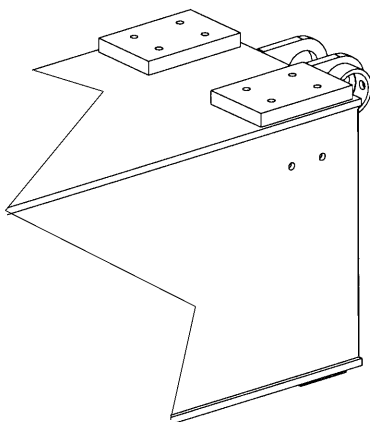
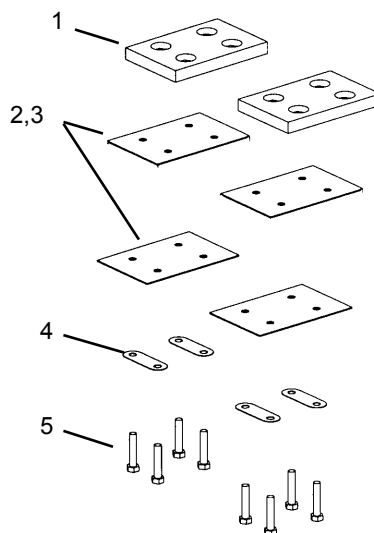
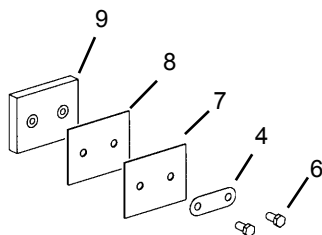


# Telescopic Handler

## Boom 3-Section Boom - Intermediate - Rear



Boom Chain  
and Rollers  
are on pages  
158-160.

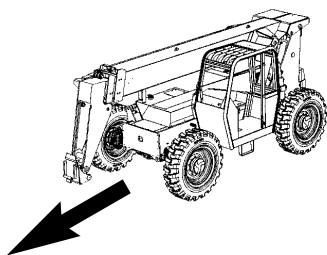


| Ref. No. | Part No. | Description               | Qty. Req. |
|----------|----------|---------------------------|-----------|
| 01       | L71020   | SLIDE PAD 4" x 6" .....   | 2         |
| 02       | L62731   | 1/16"X4"X6" SHIM .....    | AR        |
| 03       | L62732   | 1/8"X4"X6" SHIM .....     | AR        |
| 04       | L62715   | FLAT-BOLT LOCK .....      | 10        |
| 05       | 650491   | 3/8"-16X1-1/4" BOLT ..... | 8         |

| Ref. No. | Part No. | Description             | Qty. Req. |
|----------|----------|-------------------------|-----------|
| 06       | 650488   | 3/8"-16X3/4" BOLT ..... | 8         |
| 07       | L62733   | 1/16"X3"X4" SHIM .....  | 2         |
| 08       | L62734   | 1/8"X3"X4" SHIM .....   | 2         |
| 09       | L61709   | SLIDE PAD .....         | 4         |

### ***3-Section Boom - Intermediate Hose Tray***

## RS Series



**Telescopic Handler****Boom****3-Section Boom - Intermediate Hose Tray**

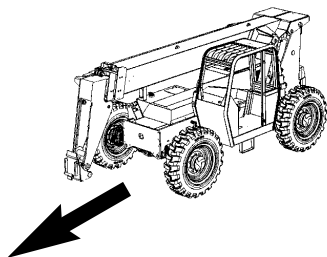
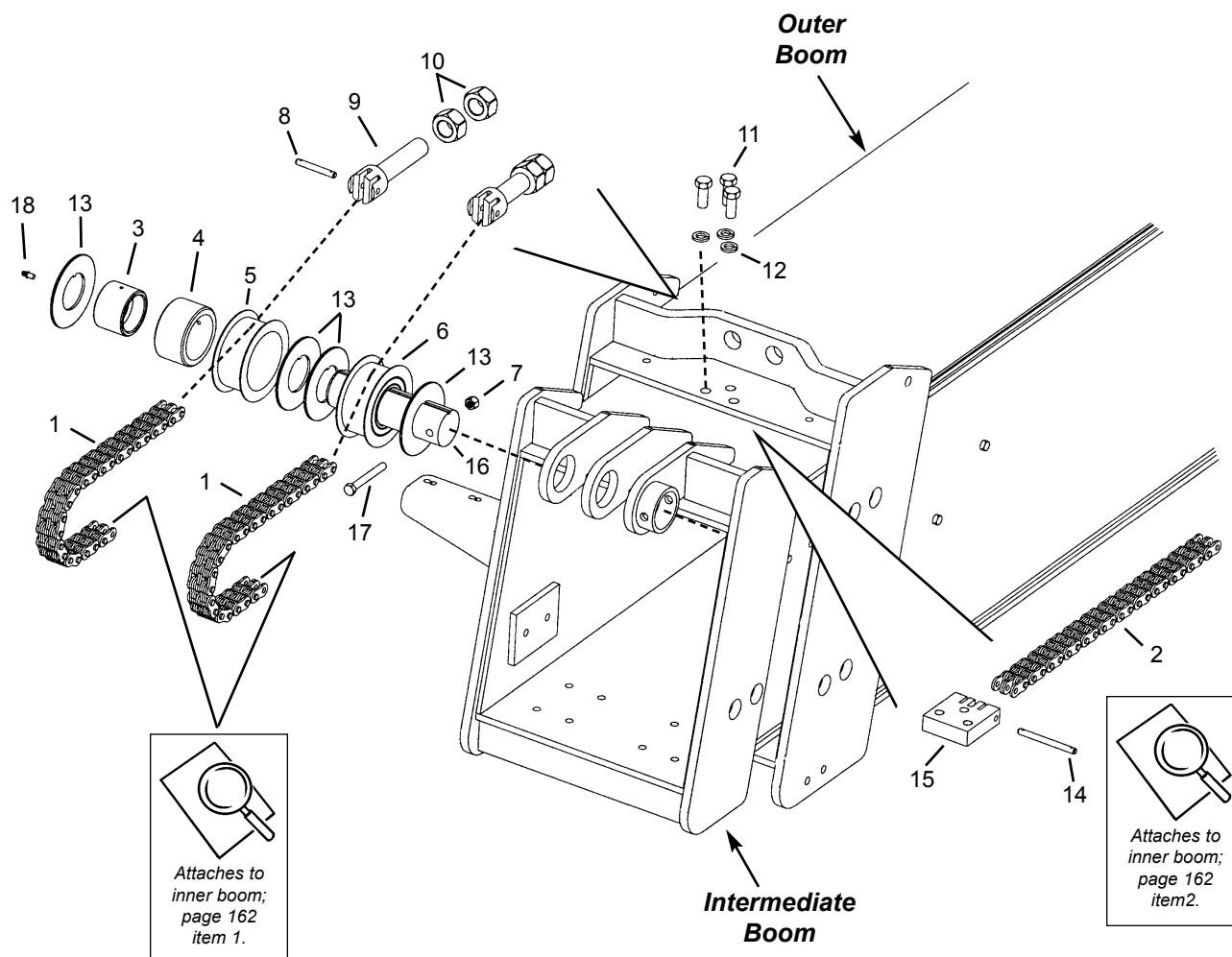
| Ref.<br>No. | Part<br>No. | Description                      | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                | Qty.<br>Req. |
|-------------|-------------|----------------------------------|--------------|-------------|-------------|----------------------------|--------------|
| 01          |             | INTERMEDIATE BOOM..... 1         |              | 07          | L61699      | 2"X3"X1" SLIDE PAD..... 1  |              |
|             | 102282      | 3-section 42' boom               |              | 08          | 654026      | 3/8" LOCK WASHER..... 1    |              |
|             | 102285      | 3-section 44' boom               |              | 09          | 650488      | 3/8"-16X3/4" BOLT ..... 1  |              |
| 02          | L520004     | 5/16"-18 NYLON INSERT NUT .... 2 |              | 10          | L50056      | 5/16"-18 FLARE NUT ..... 1 |              |
| 05          | 650485      | 5/16"-18X5/8" BOLT ..... 4       |              |             |             |                            |              |
| 06          |             | TRAY WELDMENT ..... 1            |              |             |             |                            |              |
|             | 210435      | 3-section 42' boom               |              |             |             |                            |              |
|             | 105227      | 3-section 44' boom               |              |             |             |                            |              |



## Boom

## RS Series

### 3-Section Boom - Chain and Rollers - Front





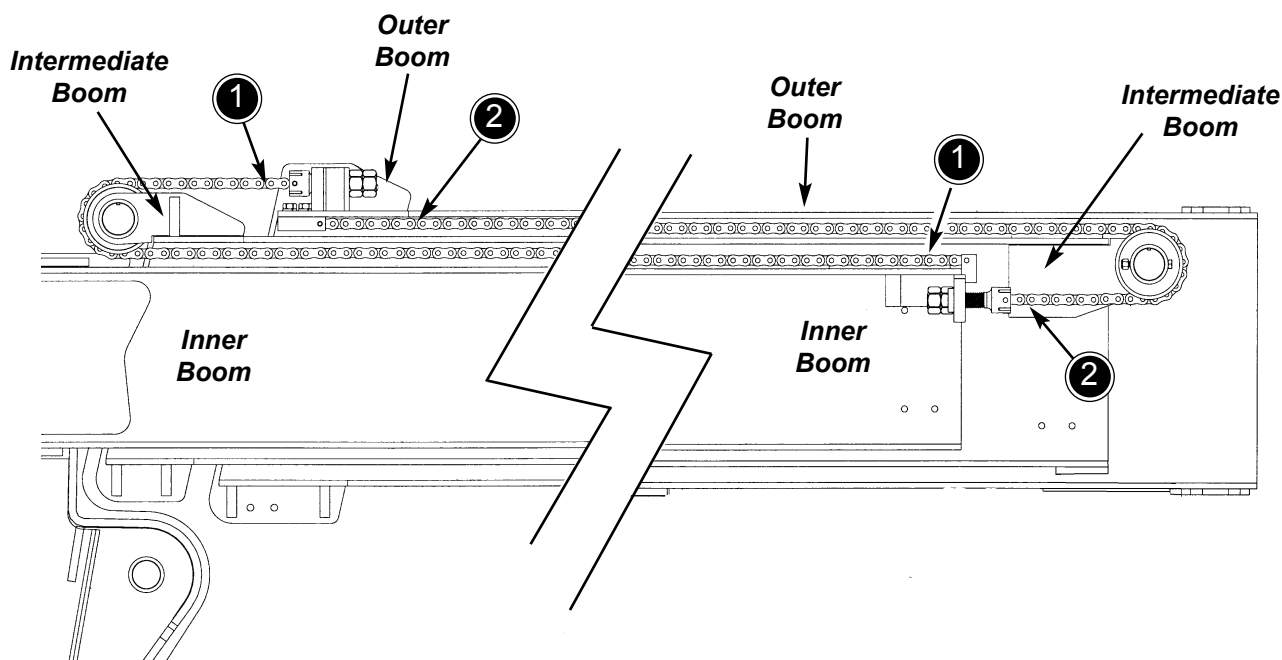
# Telescopic Handler

## Boom

### 3-Section Boom - Chain and Rollers - Front

| Ref. No.        | Part No. | Description                       | Qty. Req. | Ref. No.                                                                                                                                                                                                           | Part No. | Description                       | Qty. Req. |
|-----------------|----------|-----------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------|-----------|
| 01 <sup>a</sup> |          | LEAF CHAIN, BOOM . . . . .        | 2         | 10                                                                                                                                                                                                                 | L50092   | 1" NUT . . . . .                  | 4         |
|                 | 102245   | 3-section 42' boom                |           | 11                                                                                                                                                                                                                 | L50380   | 1/2" X 1-1/4" BOLT GR8 . . . . .  | 3         |
|                 | 102246   | 3-section 44' boom                |           | 12                                                                                                                                                                                                                 | L50152   | 1/2" LOCK WASHER . . . . .        | 3         |
| 02 <sup>a</sup> |          | LEAF CHAIN, BOOM . . . . .        | 1         | 13                                                                                                                                                                                                                 | L71205   | CHAIN SHEAVE WASHER . . . . .     | 4         |
|                 | 102245   | 3-section 42' boom                |           | 14                                                                                                                                                                                                                 | L64468   | PIN, LEAF CHAIN . . . . .         | 1         |
|                 | 102246   | 3-section 44' boom                |           |                                                                                                                                                                                                                    | L560003  | 3/32"X1-1/4" COTTER PIN . . . . . | 2         |
| 03              | L49619   | INNER RING . . . . .              | 2         | 15                                                                                                                                                                                                                 | L64384   | CLEVIS, REMOVABLE . . . . .       | 1         |
| 04              | L49618   | ROLLER BEARING . . . . .          | 2         | 16                                                                                                                                                                                                                 | L71204   | PIN, CHAIN SHEAVE . . . . .       | 1         |
| 05              | L64360   | CHAIN SHEAVE . . . . .            | 2         | 17                                                                                                                                                                                                                 | 650818   | 3/8" X 3" BOLT . . . . .          | 1         |
| 06              | NSS      | CHAIN SHEAVE ASSEMBLY . . . . .   | NA        | 18                                                                                                                                                                                                                 | L10465   | GREASE ZERK . . . . .             | 1         |
|                 |          | (order one of each: items 3-5)    |           |                                                                                                                                                                                                                    |          |                                   |           |
| 07              | L520005  | 3/8" NYLON INSERT NUT . . . . .   | 1         | <sup>a</sup> The three-section boom uses a total of three chains; for illustrative purposes the same chains are shown on this page and the next page. When ordering, be careful not to order duplicate quantities. |          |                                   |           |
| 08              | L64466   | PIN, ADJUSTABLE CLEVIS . . . . .  | 2         |                                                                                                                                                                                                                    |          |                                   |           |
|                 | L560003  | 3/32"X1-1/4" COTTER PIN . . . . . | 4         |                                                                                                                                                                                                                    |          |                                   |           |
| 09              | L64359   | CLEVIS, ADJUSTABLE . . . . .      | 2         |                                                                                                                                                                                                                    |          |                                   |           |

### Three-Section Boom



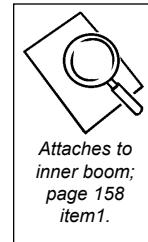
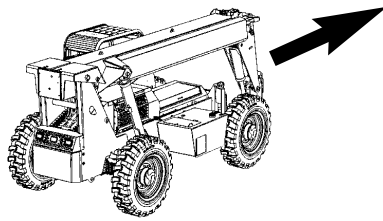




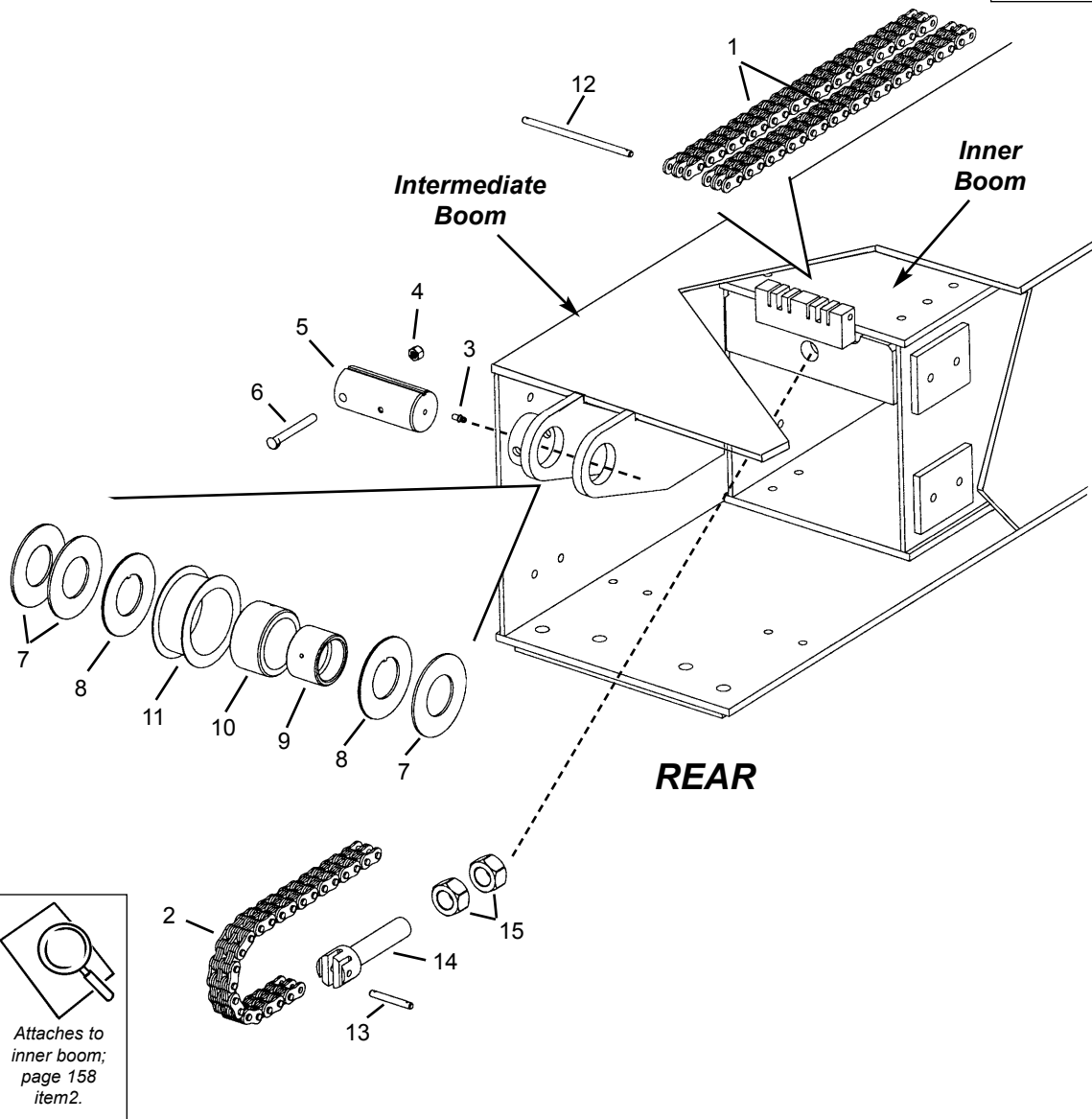
## Boom

## RS Series

### 3-Section Boom - Chain and Rollers - Rear



Attaches to  
inner boom;  
page 158  
item1.





# Telescopic Handler

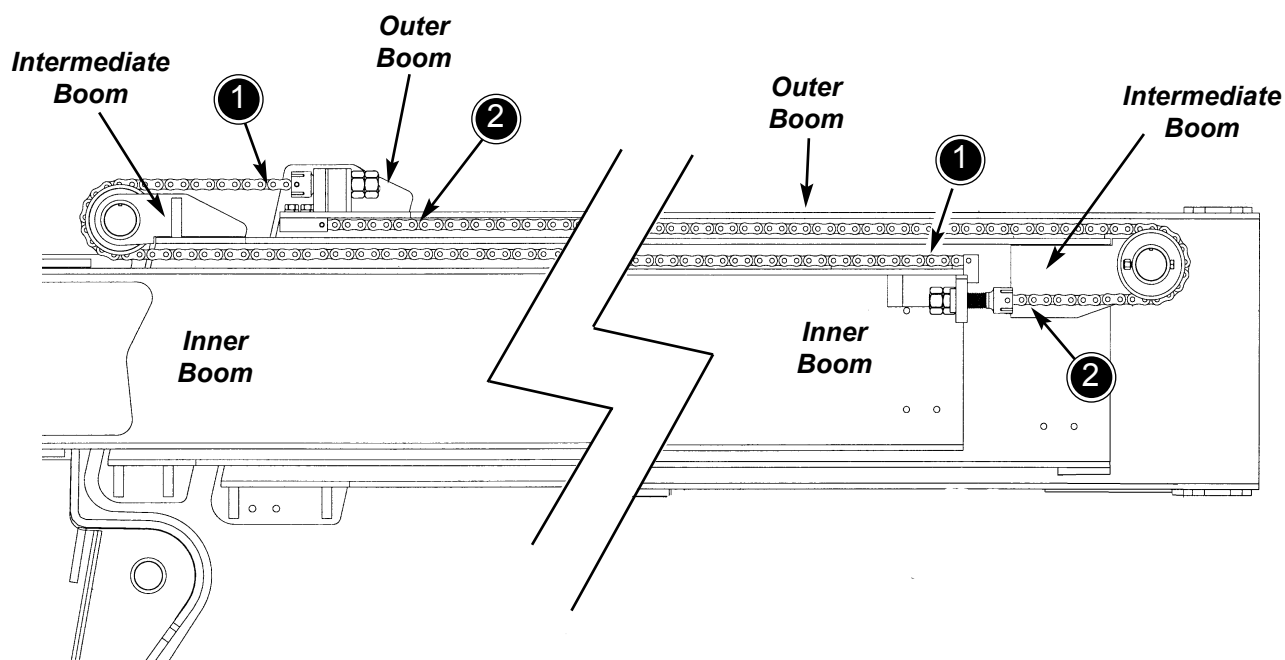
## Boom

### 3-Section Boom - Chain and Rollers - Rear

| Ref. No.        | Part No. | Description                   | Qty. Req. | Ref. No. | Part No. | Description                 | Qty. Req. |
|-----------------|----------|-------------------------------|-----------|----------|----------|-----------------------------|-----------|
| 01 <sup>a</sup> |          | LEAF CHAIN, BOOM .....        | 2         | 09       | L49619   | INNER RING .....            | 1         |
|                 | 102245   | 3-section 42' boom            |           | 10       | L49618   | ROLLER BEARING.....         | 1         |
|                 | 102246   | 3-section 44' boom            |           | 11       | L64360   | CHAIN SHEAVE .....          | 1         |
| 02 <sup>a</sup> |          | LEAF CHAIN, BOOM .....        | 1         | 12       | L64467   | PIN, FIXED CLEVIS .....     | 1         |
|                 | 102245   | 3-section 42' boom            |           |          | L560003  | 3/32X1-1/4 COTTER PIN ..... | 2         |
|                 | 102246   | 3-section 44' boom            |           | 13       | L64466   | CLEVIS PIN.....             | 1         |
| 03              | L10465   | 1/4-28 ZERK, STR.....         | 1         | 14       | L64359   | ADJUSTABLE CLEVIS .....     | 1         |
| 04              | L520005  | 3/8"-16 NYLON INSERT NUT..... | 1         | 15       | L50092   | 1"-8 NUT .....              | 2         |
| 05              | L71206   | PIN, SHEAVE .....             | 1         |          |          |                             |           |
| 06              | 650818   | 3/8"-16X3 BOLT .....          | 1         |          |          |                             |           |
| 07              | L400207  | THRUST WASHER .....           | 3         |          |          |                             |           |
| 08              | L71205   | CHAIN SHEAVE WASHER .....     | 2         |          |          |                             |           |

*a The three-section boom uses a total of three chains; for illustrative purposes the same chains are shown on this page and the previous page. When ordering, be careful not to order duplicate quantities.*

### Three-Section Boom

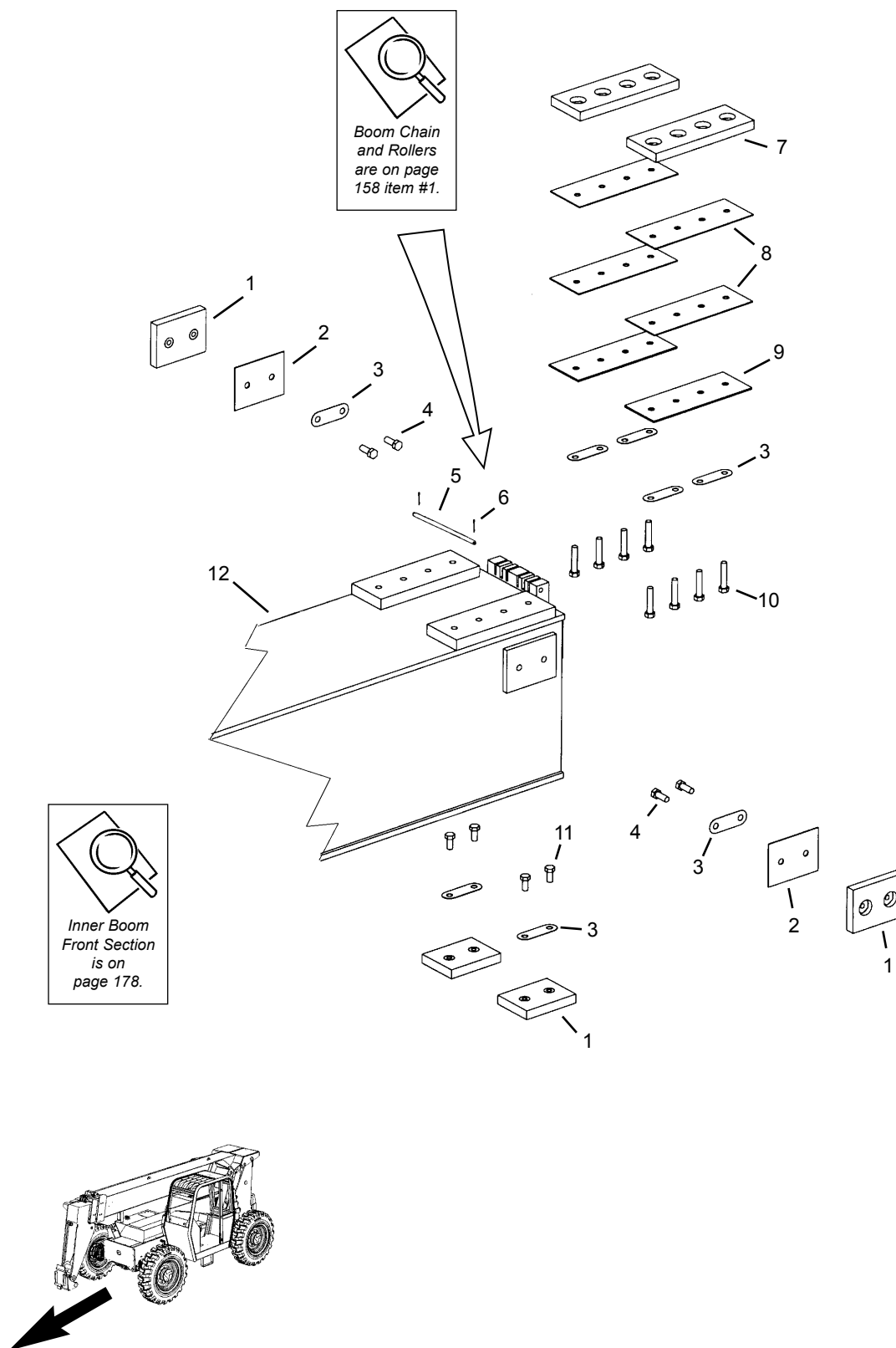




## Boom

## RS Series

### 3-Section Inner Boom - Rear





## Telescopic Handler

## Boom

### 3-Section Inner Boom - Rear

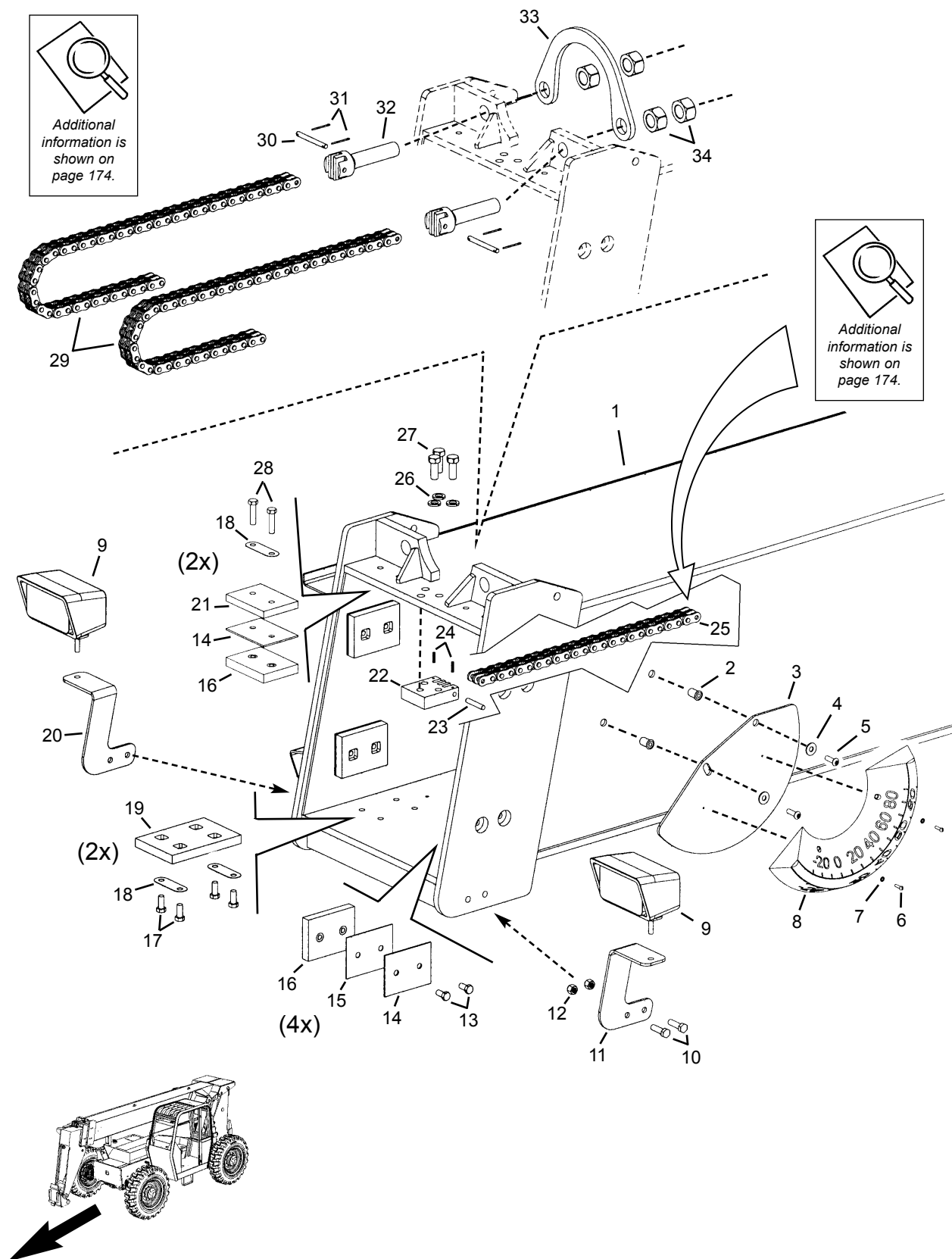
| Ref.<br>No. | Part<br>No. | Description                    | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description               | Qty.<br>Req. |
|-------------|-------------|--------------------------------|--------------|-------------|-------------|---------------------------|--------------|
| 01          | L61709      | SLIDE PAD .....                | 4            | 07          | L66780      | SLIDE PAD .....           | 2            |
| 02          | L62733      | 0.06"X3X4" SHIM .....          | 2            | 08          | L66782      | 0.06"X3"X8" SHIM .....    | 4            |
| 03          | L62715      | FLAT-BOLT LOCK .....           | 8            | 09          | L66783      | 0.105"X3"X8" SHIM .....   | 2            |
| 04          | L50367      | 3/8"X1" BOLT .....             | 4            | 10          | L50261      | 3/8"X1-1/2" BOLT .....    | 8            |
| 05          | L64467      | PIN, CHAIN REAR LOW INNER. . . | 1            | 11          | L50251      | 3/8"X3/4" BOLT .....      | 4            |
| 06          | L560003     | 3/32"X1-1/4" COTTER PIN .....  | 2            | 12          |             | INNER BOOM WELDMENT ..... | 1            |
|             |             |                                |              |             | 102283      | 3-section 42' boom        |              |
|             |             |                                |              |             | 102286      | 3-section 44' boom        |              |



## Boom

## RS Series

### 4-Section Boom - Outer - Front





## Telescopic Handler

## Boom

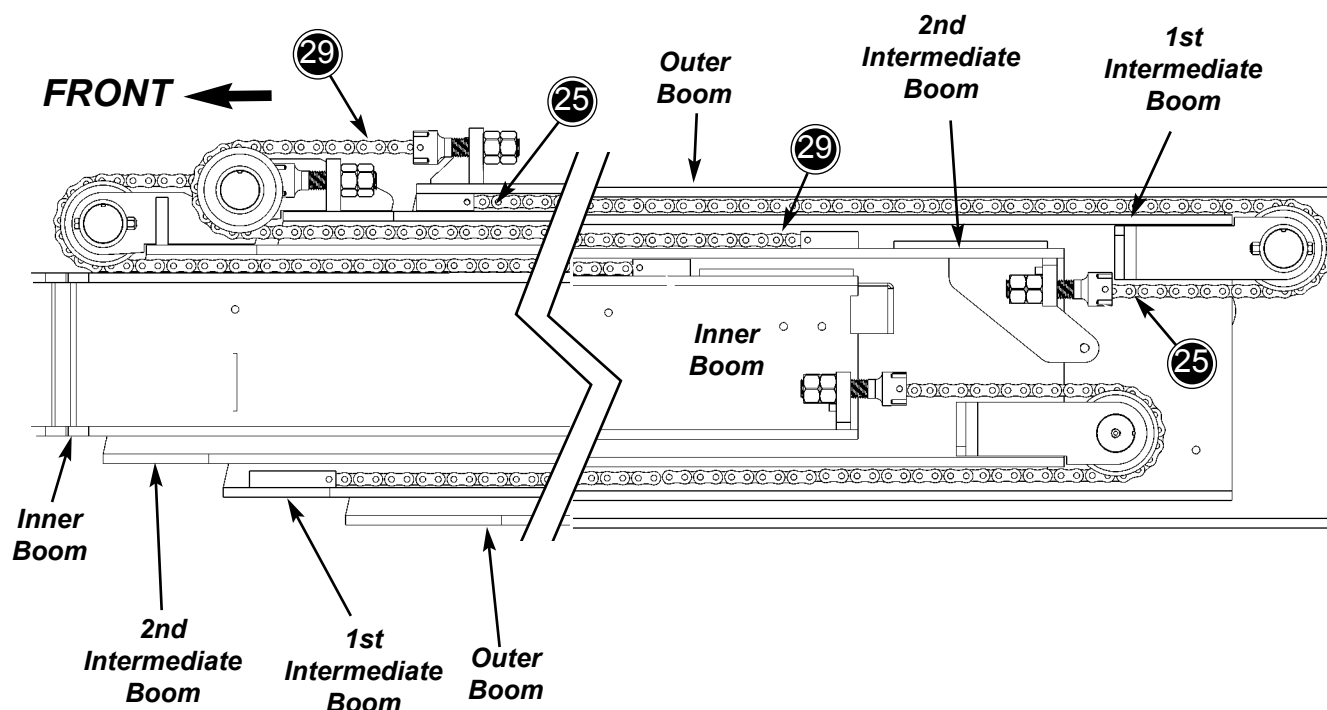
## 4-Section Boom - Outer - Front

| Ref. No. | Part No. | Description                                | Qty. Req. | Ref. No.        | Part No. | Description                               | Qty. Req. |
|----------|----------|--------------------------------------------|-----------|-----------------|----------|-------------------------------------------|-----------|
| 01       | 210522   | OUTER BOOM WELDMENT . . . . .              | 1         | 20              | L70635   | BOOM LIGHT BRACKET ( <i>right</i> ) . . . | 1         |
| 02       | L70242   | 5/16"-18 NUT INSERT . . . . .              | 2         | 21              | L64143   | SPACER, 1/2"X3"X4" . . . . .              | 2         |
| 03       | L65640   | BOOM ANGLE IND. PLATE . . . . .            | 1         | 22              | L71004   | CLEVIS, FIXED . . . . .                   | 1         |
| 04       | 650810   | 5/16" FLAT WASHER . . . . .                | 2         | 23              | L71005   | PIN, FIXED CLEVIS CHAIN . . . . .         | 1         |
| 05       | L52048   | 5/16"-18X1" BUTTON HD BOLT . . .           | 2         | 24              | L71021   | #10-24X3/4" SET SCREW . . . . .           | 2         |
| 06       | 651271   | #8X3/8" RND HD MACH SCREW . . .            | 2         | 25 <sup>a</sup> | L71001   | CHAIN, LEAF ( <i>retract</i> ) . . . . .  | 1         |
| 07       | L50136   | #10 LOCK WASHER . . . . .                  | 2         | 26              | 654030   | 1/2" LOCK WASHER . . . . .                | 3         |
| 08       | L65638   | INCLINOMETER - ANGLE IND. . . . .          | 1         | 27              | L50380   | 1/2-20X1-1/4" GRD 8 BOLT . . . . .        | 3         |
| 09       | L70040   | WORK LIGHT . . . . .                       | 2         | 28              | 650533   | 3/8"X1-1/2" BOLT . . . . .                | 4         |
| 10       | 650491   | 3/8"-16X1-1/4" BOLT . . . . .              | 4         | 29 <sup>a</sup> | L71000   | CHAIN, LEAF ( <i>extend</i> ) . . . . .   | 2         |
| 11       | L70639   | BOOM LIGHT BRACKET ( <i>left</i> ) . . . . | 1         | 30              | L71007   | PIN, ADJUSTABLE CLEVIS . . . . .          | 2         |
| 12       | L520005  | 3/8"-16 NYLON INSERT NUT . . . . .         | 4         | 31              | L560003  | 3/32X1-1/4" COTTER PIN . . . . .          | 2         |
| 13       | 650488   | 3/8"-16X3/4" BOLT . . . . .                | 16        | 32              | L71006   | CLEVIS, ADJUSTABLE . . . . .              | 2         |
| 14       | L62734   | 1/8"X3"X4" SHIM . . . . .                  | 6         | 33              | L70972   | RETAINER, EXTEND CYL . . . . .            | 1         |
| 15       | L62733   | 1/16"X3"X4" SHIM . . . . .                 | 4         | 34              | L50092   | NUT, ADJUSTABLE CLEVIS . . . . .          | AR        |
| 16       | L61709   | SLIDE PAD, 3"X4" . . . . .                 | 6         |                 |          |                                           |           |
| 17       | L510007  | 3/8"X7/8" BOLT . . . . .                   | 8         |                 |          |                                           |           |
| 18       | L62715   | FLAT-BOLT LOCK . . . . .                   | 6         |                 |          |                                           |           |
| 19       | L71020   | SLIDE PAD, 4"X6" . . . . .                 | 2         |                 |          |                                           |           |



**NOTE:** This parts manual shows the same chain(s) on multiple pages. Before ordering chains, refer to the illustration below to avoid ordering the incorrect chain(s) or the incorrect quantities.

## Four-Section Boom

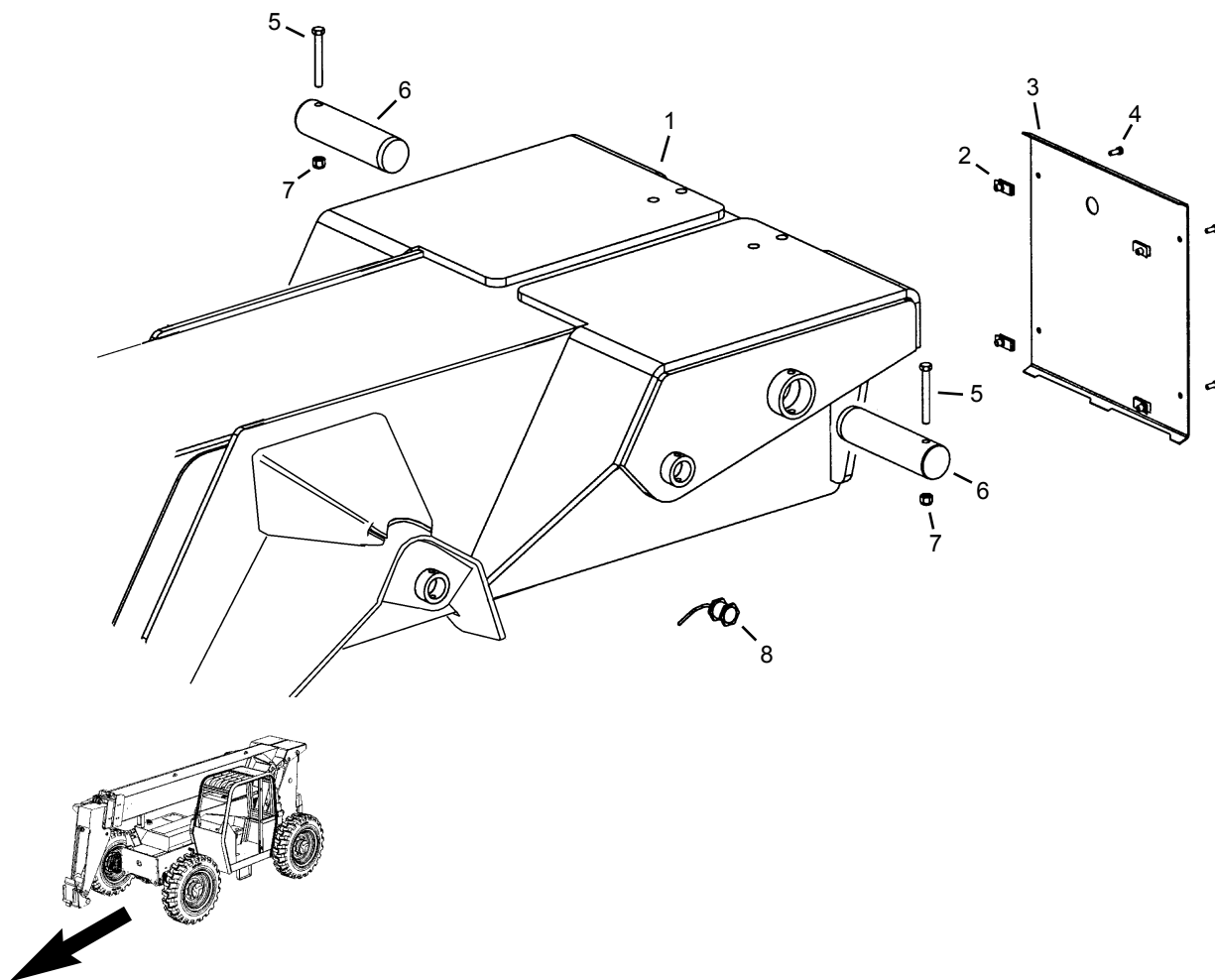




## Boom

## RS Series

### 4-Section Boom - Outer - Rear

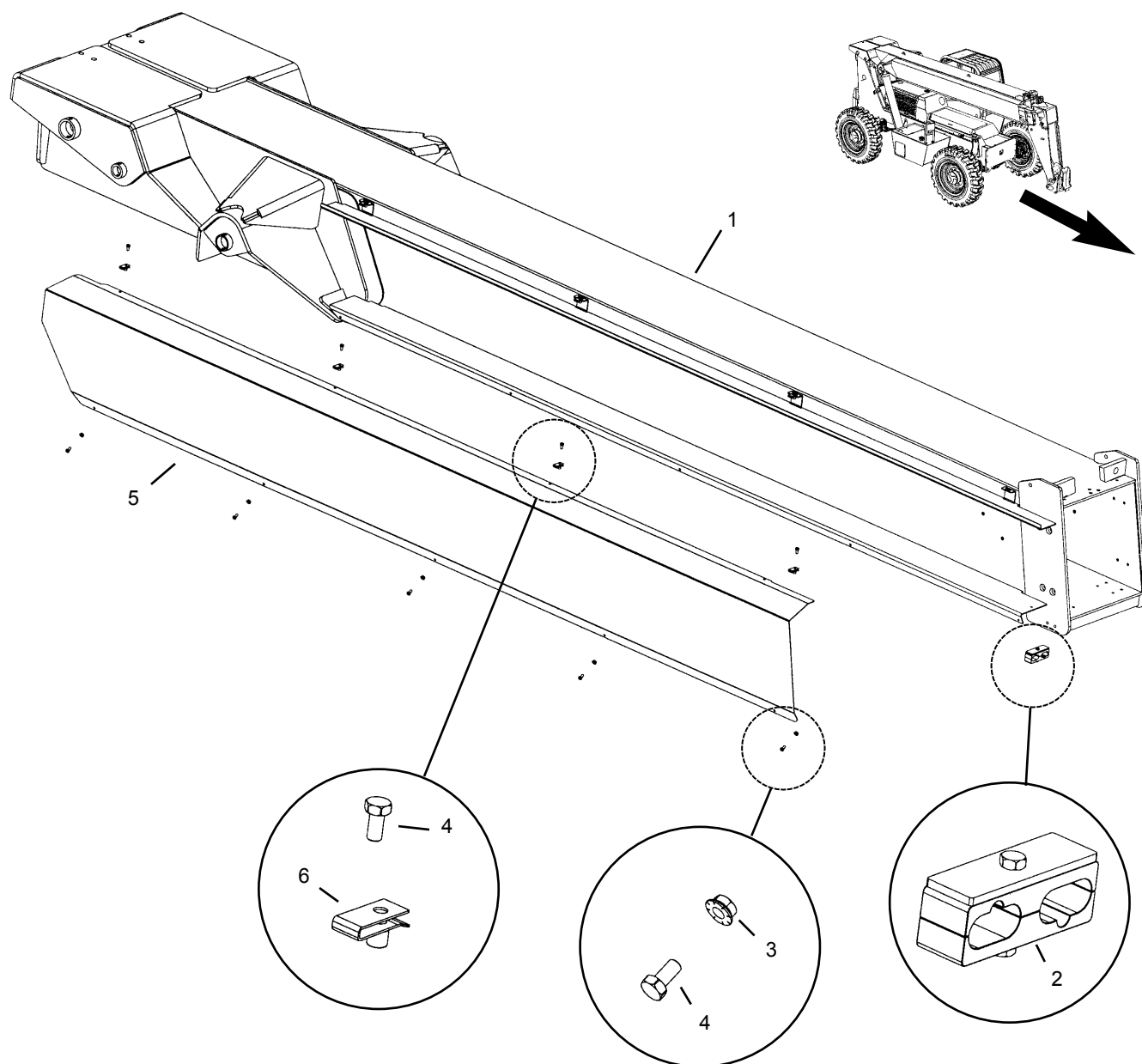


| Ref. No. | Part No. | Description               | Qty. Req. | Ref. No. | Part No. | Description                    | Qty. Req. |
|----------|----------|---------------------------|-----------|----------|----------|--------------------------------|-----------|
| 01       | 210522   | OUTER BOOM .....          | 1         | 05       | 650744   | 1/2"-13X4" BOLT .....          | 2         |
| 02       | L530004  | 5/16" RETAINER CLIP ..... | 4         | 06       | 210291   | PIN, BOOM .....                | 2         |
| 03       | 210352   | COVER, REAR BOOM .....    | 1         | 07       | L520019  | 1/2"-13 NYLON INSERT NUT ..... | 2         |
| 04       | 650486   | 5/16"-18x3/4" BOLT .....  | 4         | 08       | L71165   | SWITCH, PROXIMITY .....        | 1         |



# Telescopic Handler

## Boom 4-Section Boom - Outer Side Cover



| Ref. No. | Part No. | Description            | Qty. Req. | Ref. No. | Part No. | Description              | Qty. Req. |
|----------|----------|------------------------|-----------|----------|----------|--------------------------|-----------|
| 01       | 210522   | OUTER BOOM WELDMENT    | 1         | 04       | 650485   | 5/16"-18X5/8" BOLT       | 8         |
| 02       | L79167   | CLAMP ASSEMBLY         | 1         | 05       | 105230   | COVER, BOOM SIDE         | 1         |
| 03       | L50056   | 5/16"-18 WHIZ LOCK NUT | 4         | 06       | L530004  | 5/16" FASTENER, RETAINED | 4         |

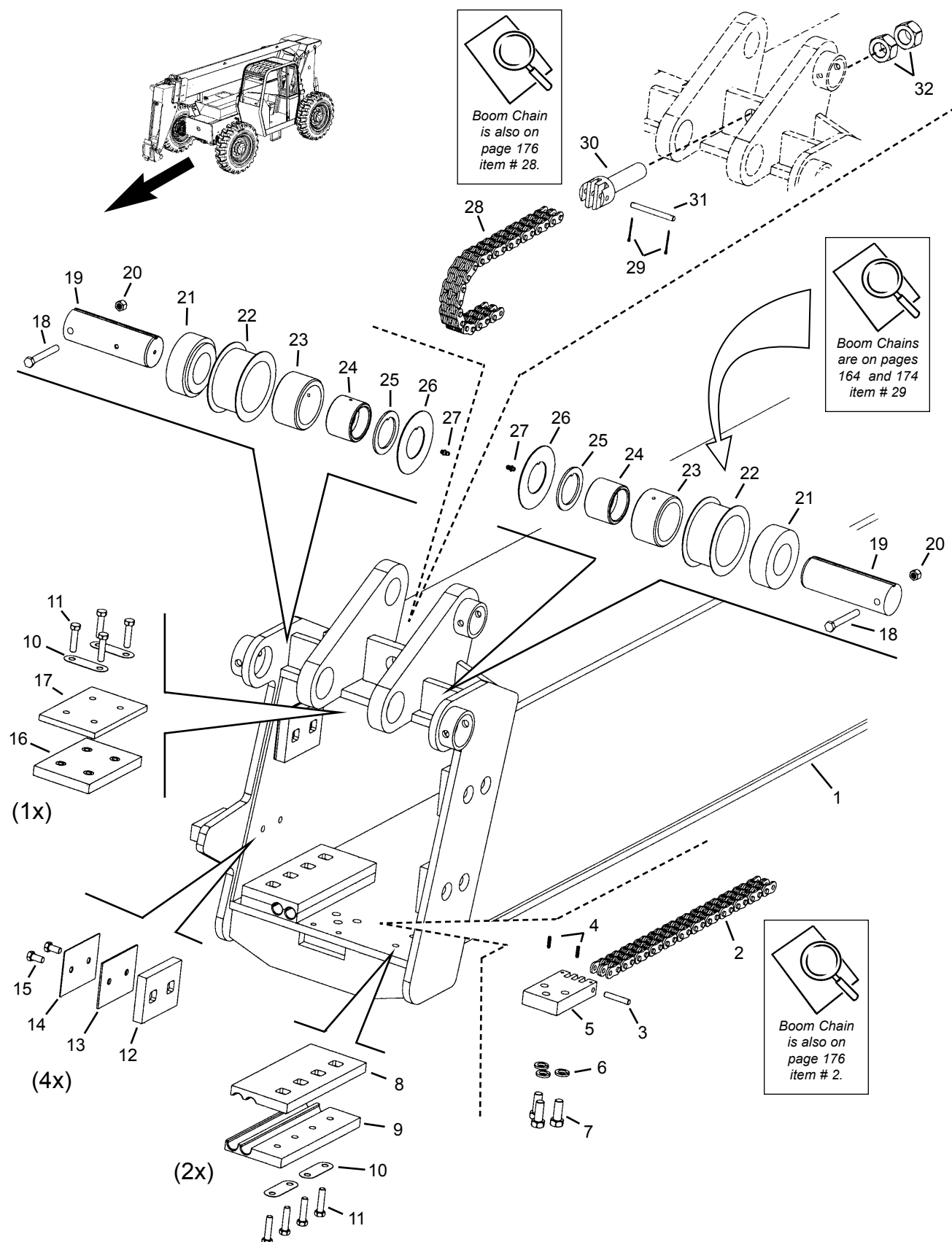




## Boom

## RS Series

### 4-Section Boom - 1st Intermediate - Front





# Telescopic Handler

## Boom

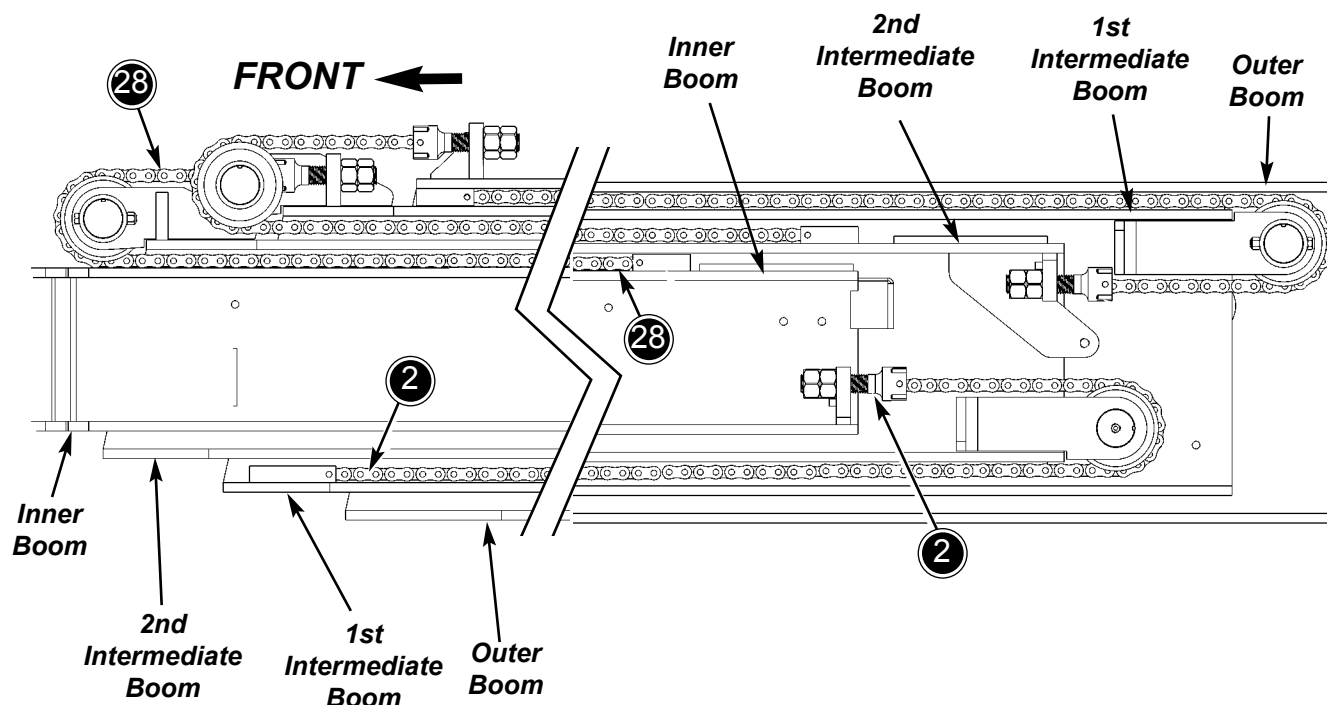
### 4-Section Boom - 1st Intermediate - Front

| Ref. No.         | Part No. | Description                         | Qty. Req. | Ref. No.        | Part No. | Description                       | Qty. Req. |
|------------------|----------|-------------------------------------|-----------|-----------------|----------|-----------------------------------|-----------|
| 01               | L70895   | 1ST-INTERMEDIATE BOOM. ....         | 1         | 20              | L520005  | 3/8" NYLON INSERT NUT .....       | 2         |
| 02 <sup>ab</sup> | L71001   | LEAF CHAIN ( <i>retract</i> ) ..... | 1         | 21              | L71017   | SHEAVE SPACER.....                | 2         |
| 03               | L71005   | FIXED CHAIN PIN.....                | 1         | 22              | L71008   | CHAIN SHEAVE .....                | 2         |
| 04               | L71021   | #10-24X3/4" SET SCREW .....         | 2         | 23              | L49618   | ROLLER BEARING.....               | 2         |
| 05               | 101028   | FIXED CLEVIS .....                  | 1         | 24              | L49619   | INNER RING .....                  | 2         |
| 06               | 654030   | 1/2" LOCK WASHER.....               | 3         | 25              | L71245   | SPACER .....                      | 2         |
| 07               | L50380   | 1/2"-20X1-1/4" BOLT GR8.....        | 3         | 26              | L71214   | THRUST WASHER.....                | 2         |
| 08               | 210760   | SLIDE PAD W/CLAMP .....             | 2         | 27              | 570019   | GREASE ZERK, STR. 1/4"-28 ....    | 2         |
| 09               | 210759   | SPACER PAD W/CLAMP .....            | 2         | 28 <sup>a</sup> | 101212   | LEAF CHAIN ( <i>extend</i> )..... | 1         |
| 10               | L62715   | BOLT FLAT LOCK.....                 | 6         | 29              | L560003  | 3/32"X1-1/4" COTTER PIN .....     | 2         |
| 11               | 650533   | 3/8"-16X1"-1/2 BOLT.....            | 12        | 30              | L71006   | ADJUSTABLE CLEVIS .....           | 1         |
| 12               | L61709   | SLIDE PAD 3"X4" .....               | 4         | 31              | L71007   | CHAIN PIN .....                   | 1         |
| 13               | L62734   | SHIM 0.105"X3"X4" .....             | 4         | 32              | L50092   | HEX NUT 1"-8 .....                | 2         |
| 14               | L62733   | SHIM 0.06"X3"X4" .....              | 4         |                 |          |                                   |           |
| 15               | 650488   | 3/8"X3/4" BOLT .....                | 8         |                 |          |                                   |           |
| 16               | L71020   | TOP SLIDE PAD 4X6 .....             | 1         |                 |          |                                   |           |
| 17               | L64133   | SPACER 3/8"X4"X6" .....             | 1         |                 |          |                                   |           |
| 18               | 650818   | 3/8"-16X3" BOLT .....               | 2         |                 |          |                                   |           |
| 19               | L71212   | SHEAVE PIN.....                     | 2         |                 |          |                                   |           |



**NOTE:** This parts manual shows the same chain(s) on multiple pages. Before ordering chains, refer to the illustration below to avoid ordering the incorrect chain(s) or the incorrect quantities.

### Four-Section Boom

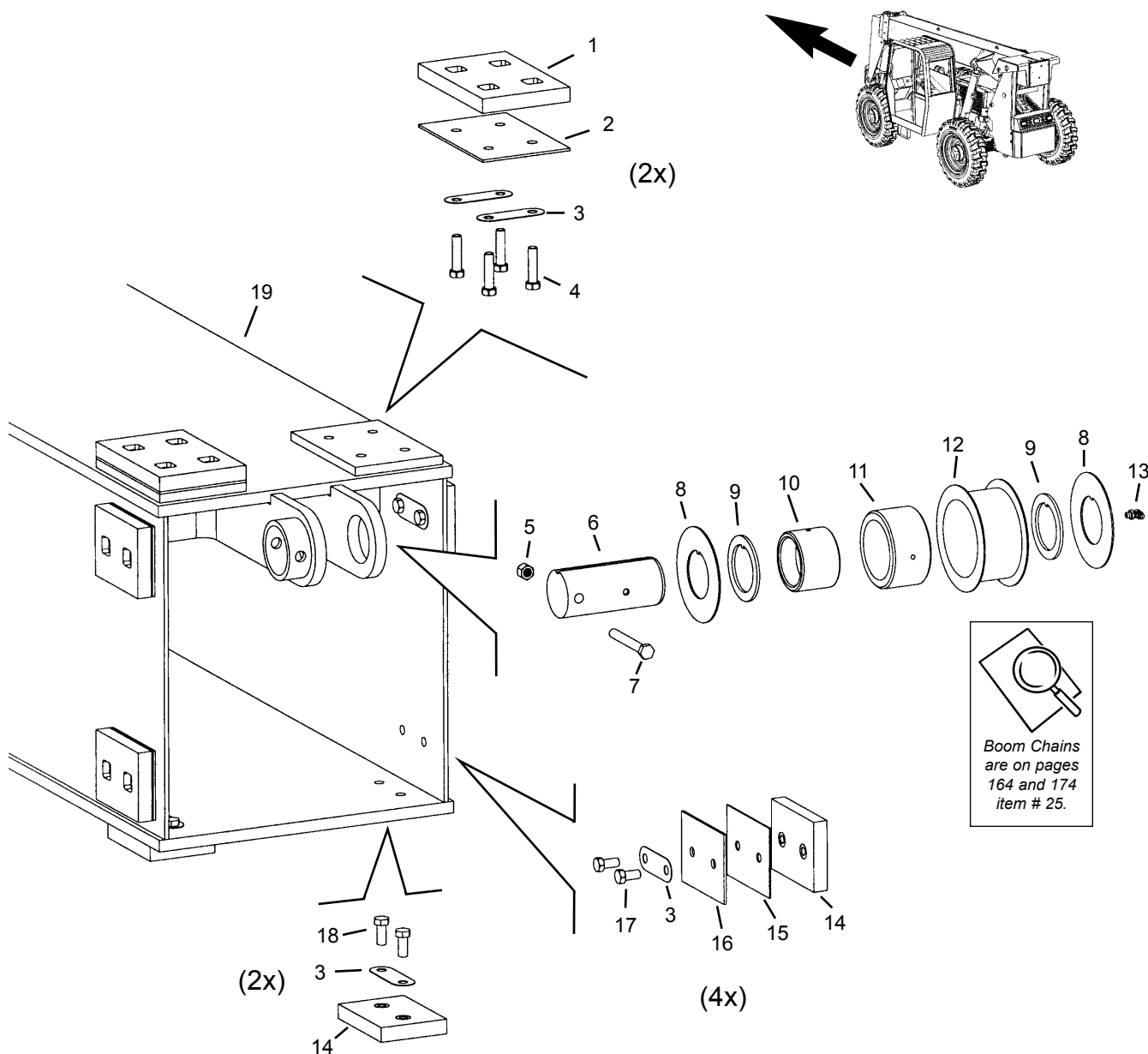




# Boom

# RS Series

## 4-Section Boom - 1st Intermediate - Rear



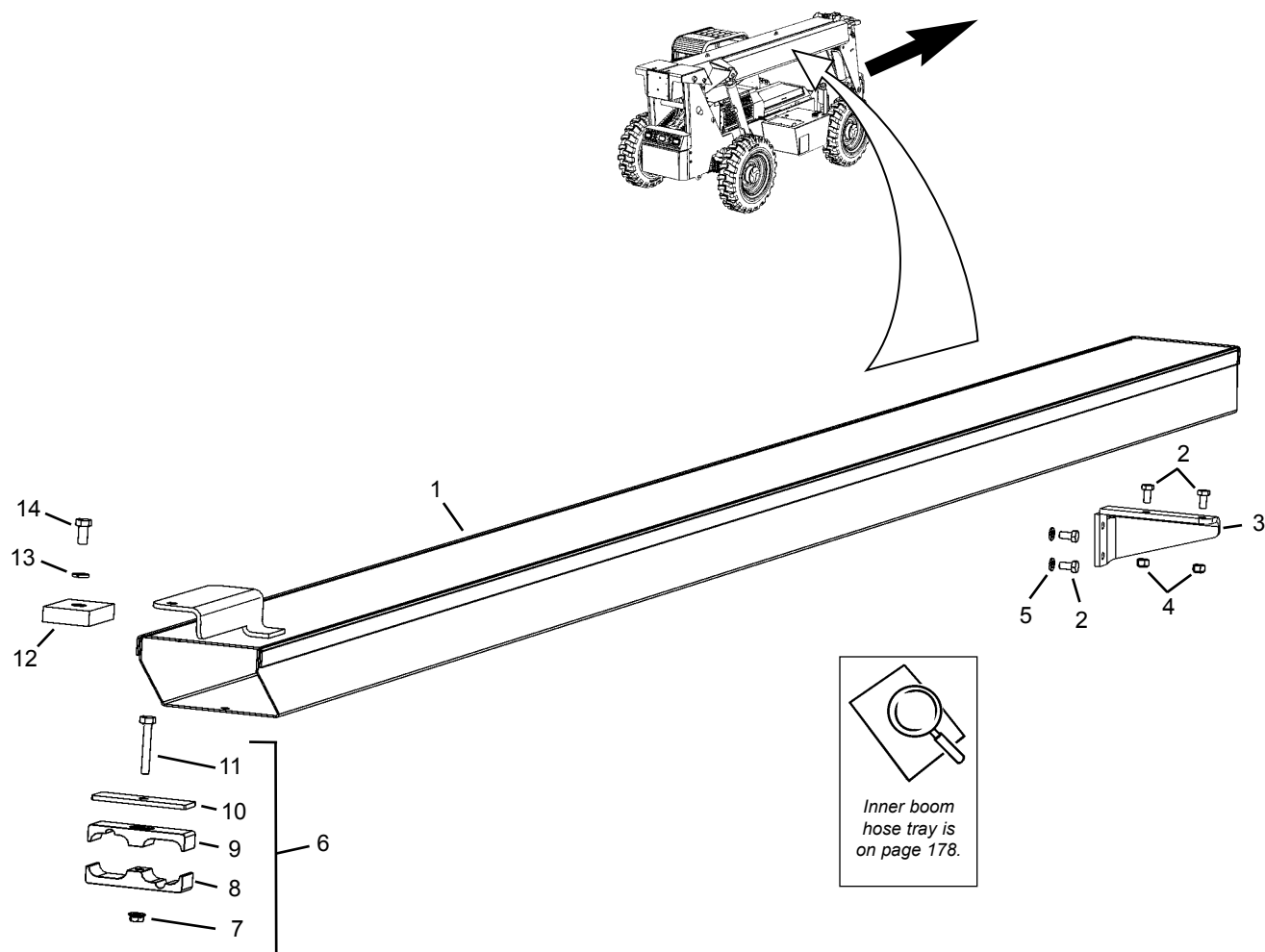
| Ref. No. | Part No. | Description                 | Qty. Req. | Ref. No. | Part No. | Description                | Qty. Req. |
|----------|----------|-----------------------------|-----------|----------|----------|----------------------------|-----------|
| 01       | L71020   | TOP SLIDE PAD 4"X6" .....   | 1         | 11       | L49618   | ROLLER BEARING.....        | 1         |
| 02       | L62732   | SHIM 1/8"X4"X6" .....       | 1         | 12       | L71008   | CHAIN SHEAVE .....         | 1         |
| 03       | L62715   | BOLT FLAT LOCK.....         | 10        | 13       | 076002   | GREASE ZERK 90°.....       | 1         |
| 04       | 650533   | 3/8"-16X1"-1/2 BOLT .....   | 8         | 14       | L61709   | SLIDE PAD 3"X4" .....      | 6         |
| 05       | L520005  | 3/8" NYLON INSERT NUT ..... | 2         | 15       | L62733   | SHIM 0.06"X3"X4" .....     | 4         |
| 06       | L71206   | SHEAVE PIN, REAR .....      | 1         | 16       | L62734   | SHIM 0.105"X3"X4" .....    | 4         |
| 07       | 650818   | 3/8"-16X3" BOLT .....       | 2         | 17       | 650488   | 3/8"X3/4" BOLT .....       | 8         |
| 08       | L71214   | THRUST WASHER .....         | 2         | 18       | L510007  | 3/8"X7/8" BOLT .....       | 4         |
| 09       | L71245   | SPACER .....                | 2         | 19       | L70895   | 1ST-INTERMEDIATE BOOM..... | 1         |
| 10       | L49619   | INNER RING .....            | 1         |          |          |                            |           |



# Telescopic Handler

## Boom

### 4-Section Boom - 1st Intermediate - Hose Tray



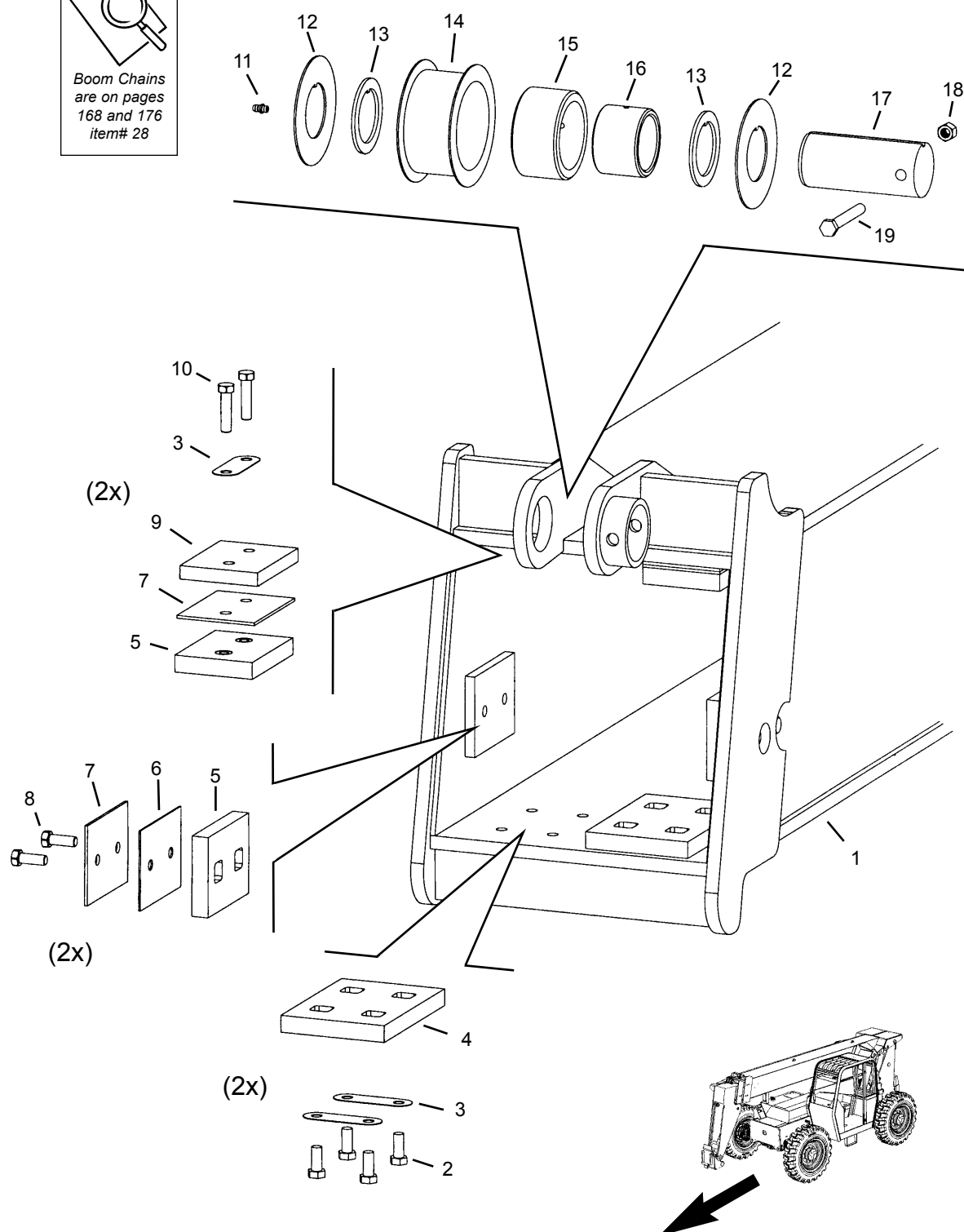
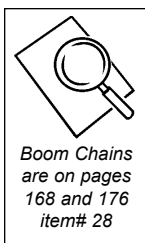
| Ref.<br>No. | Part<br>No. | Description                     | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                   | Qty.<br>Req. |
|-------------|-------------|---------------------------------|--------------|-------------|-------------|-------------------------------|--------------|
| 01          | L70963      | HOSE TRAY, INTERMEDIATE . . . . | 1            | 08          | L71747      | CLAMP W/INSERT . . . . .      | 1            |
| 02          | 650485      | CS 5/16x5/8" C5ZY . . . . .     | 4            | 09          | L71705      | CLAMP . . . . .               | 1            |
| 03          | L69524      | BRACKET, INTERMEDIATE TRAY .    | 1            | 10          | L71748      | PLATE, CLAMP TOP . . . . .    | 1            |
| 04          | L520004     | LN INST 5/16-18 . . . . .       | 2            | 11          | L51035      | CS 5/16"-18x2" C5ZY . . . . . | 1            |
| 05          | 654024      | LW 5/16" . . . . .              | 2            | 12          | L61699      | PAD, SLIDE . . . . .          | 1            |
| 06          | L79167      | HOSE RETAINER ASSEMBLY . . . .  | 1            | 13          | 654026      | LW 3/8" RZY . . . . .         | 1            |
|             |             | (includes items 7-11)           |              | 14          | 650488      | CS 3/8"x3/4" C5ZY . . . . .   | 1            |
| 07          | L50056      | FL LN 5/16"-18 . . . . .        | 1            |             |             |                               |              |



## Boom

## RS Series

### 4-Section Boom - 2nd Intermediate - Front



**Telescopic Handler****Boom****4-Section Boom - 2nd Intermediate - Front**

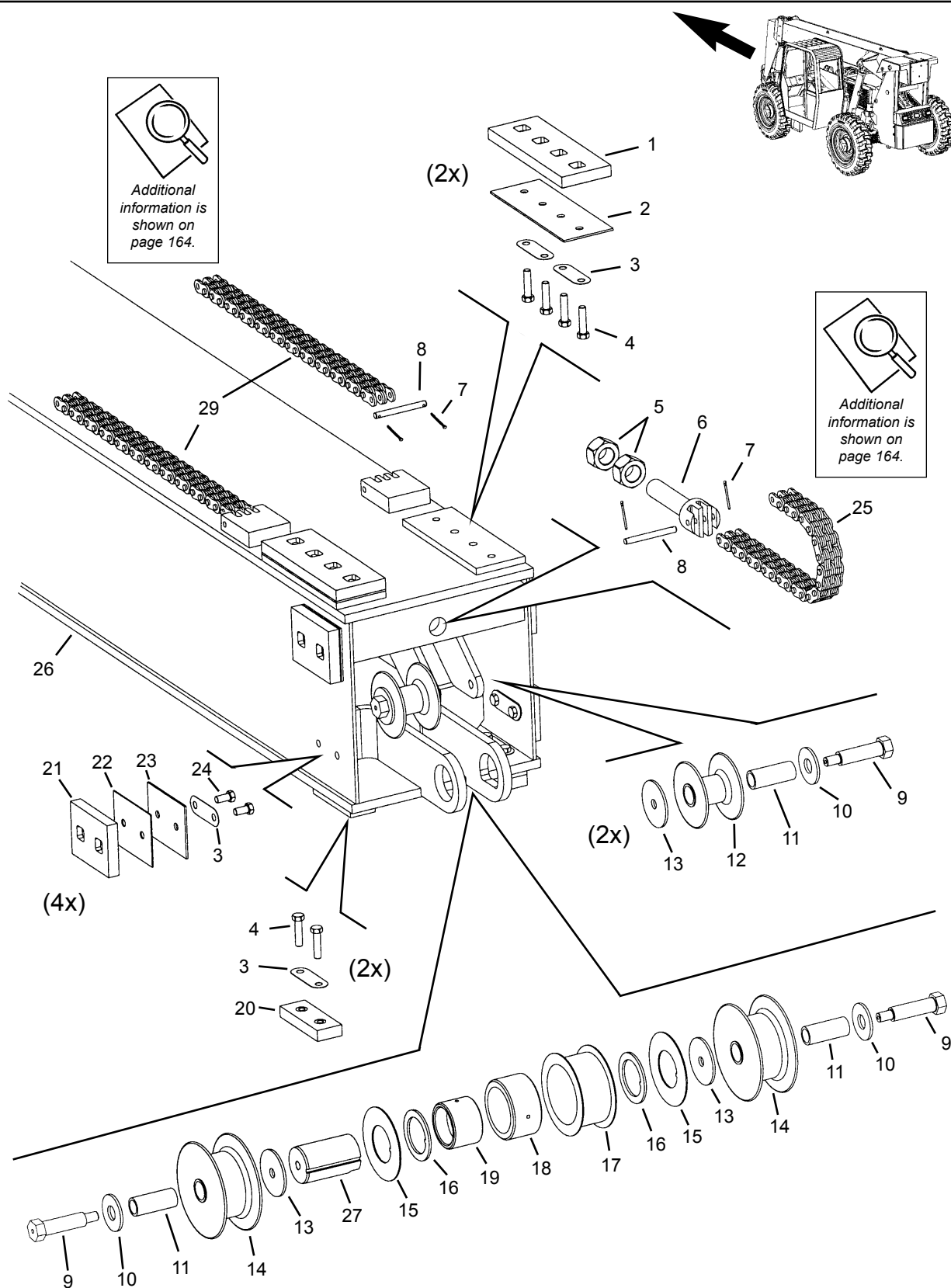
| Ref.<br>No. | Part<br>No. | Description                | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                 | Qty.<br>Req. |
|-------------|-------------|----------------------------|--------------|-------------|-------------|-----------------------------|--------------|
| 01          | L70912      | 2ND-INTERMEDIATE BOOM..... | 1            | 11          | 570019      | GREASE ZERK.....            | 1            |
| 02          | L510007     | 3/8"X7/8" BOLT .....       | 4            | 12          | L71214      | THRUST WASHER.....          | 2            |
| 03          | L62715      | BOLT FLAT LOCK.....        | 6            | 13          | L71245      | SPACER .....                | 2            |
| 04          | L71020      | SLIDE PAD 4"X6" .....      | 2            | 14          | L71008      | CHAIN SHEAVE .....          | 1            |
| 05          | L61709      | SLIDE PAD 3"X4" .....      | 6            | 15          | L49618      | ROLLER BEARING.....         | 1            |
| 06          | L62733      | SHIM 0.06"X3"X4" .....     | 4            | 16          | L49619      | INNER RING .....            | 1            |
| 07          | L62734      | SHIM 0.105"X3"X4" .....    | 6            | 17          | L71206      | SHEAVE PIN, REAR.....       | 1            |
| 08          | 650490      | 3/8"X1" BOLT.....          | 4            | 18          | L520005     | 3/8" NYLON INSERT NUT ..... | 1            |
| 09          | L64143      | SPACER 1/2"X3"X4.....      | 2            | 19          | 650818      | 3/8"-16X3" BOLT .....       | 1            |
| 10          | 650533      | 3/8"-16X1"-1/2 BOLT .....  | 4            |             |             |                             |              |



## Boom

## RS Series

### 4-Section Boom - 2nd Intermediate - Rear





# Telescopic Handler

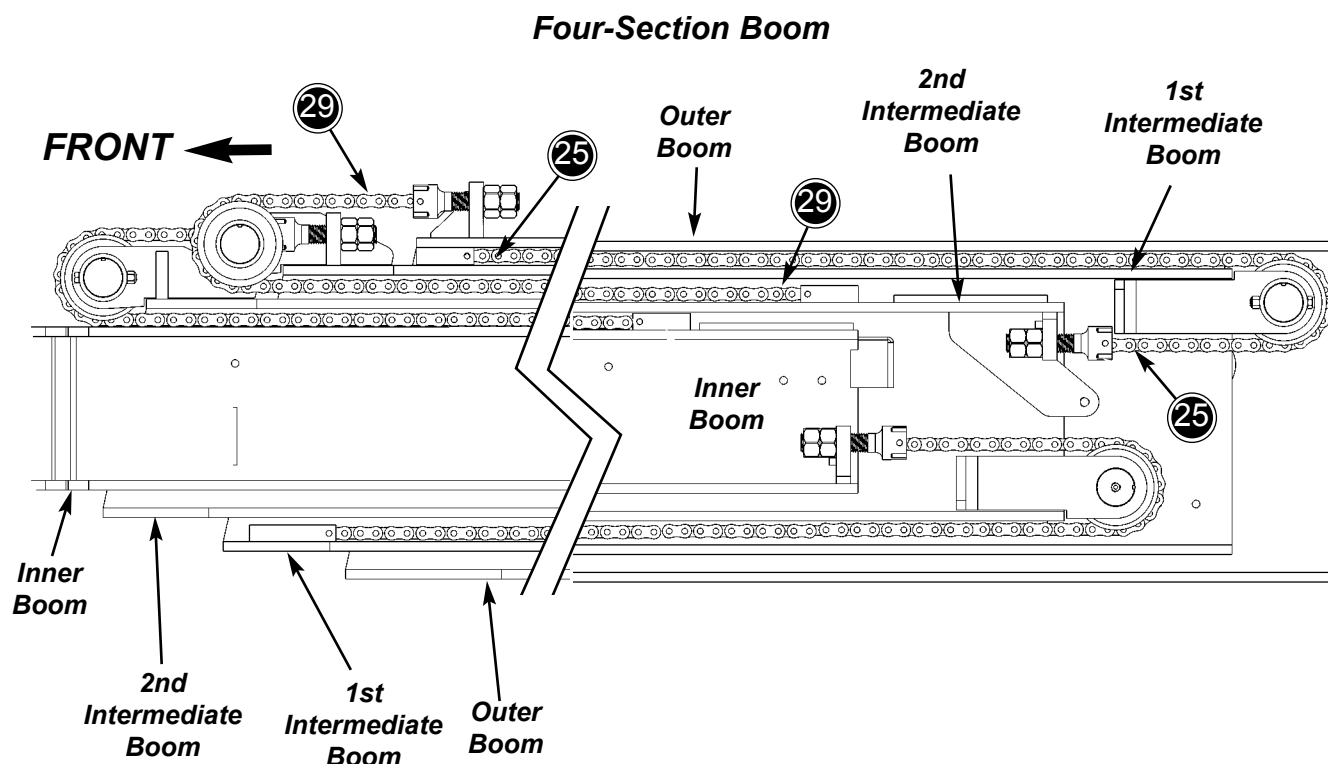
## Boom

### 4-Section Boom - 2nd Intermediate - Rear

| Ref. No. | Part No. | Description                       | Qty. Req. | Ref. No.        | Part No. | Description                          | Qty. Req. |
|----------|----------|-----------------------------------|-----------|-----------------|----------|--------------------------------------|-----------|
| 01       | L71011   | SLIDE PAD 3"x8" .....             | 2         | 18              | L49618   | ROLLER BEARING .....                 | 1         |
| 02       | L66783   | SHIM 0.125"x3"x8" .....           | 2         | 19              | L49619   | INNER RING .....                     | 1         |
| 03       | L62715   | BOLT FLAT LOCK .....              | 10        | 20              | L71003   | SLIDE PAD 1-1/2"x4" .....            | 2         |
| 04       | 650533   | 3/8"x1-1/2" BOLT .....            | 12        | 21              | L61709   | SLIDE PAD 3"x4" .....                | 4         |
| 05       | L50092   | NUT, ADJUSTABLE CLEVIS ....       | AR        | 22              | L62733   | SHIM 0.06"x3"x4" .....               | 4         |
| 06       | L71006   | CLEVIS, ADJUSTABLE .....          | 2         | 23              | L62734   | SHIM 0.105"x3"x4" .....              | 4         |
| 07       | L560003  | 3/32"x1-1/4" COTTER PIN .....     | 4         | 24              | 650488   | 3/8"x1" BOLT .....                   | 8         |
| 08       | L71007   | PIN, ADJUSTABLE CLEVIS .....      | 4         | 25 <sup>a</sup> | L71001   | CHAIN, LEAF ( <i>retract</i> ) ..... | 1         |
| 09       | L71016   | BOLT, HOSE RETAINER .....         | 4         | 26              | L70912   | 2ND-INTERMEDIATE BOOM .....          | 1         |
| 10       | 654014   | 3/4" WASHER .....                 | 4         | 27              | L71213   | PIN, SHEAVE .....                    | 1         |
| 11       | L71389   | SPACER .....                      | 4         | 29 <sup>a</sup> | L71000   | CHAIN, LEAF ( <i>extend</i> ) .....  | 2         |
| 12       | L71010   | HOSE GUIDE ( <i>upper</i> ) ..... | 2         |                 |          |                                      |           |
| 13       | L71014   | WASHER, SHEAVE PIN .....          | 4         |                 |          |                                      |           |
| 14       | L71347   | HOSE GUIDE ( <i>lower</i> ) ..... | 2         |                 |          |                                      |           |
| 15       | L71214   | THRUST WASHER .....               | 2         |                 |          |                                      |           |
| 16       | L71245   | SPACER .....                      | 2         |                 |          |                                      |           |
| 17       | L71008   | CHAIN SHEAVE .....                | 1         |                 |          |                                      |           |



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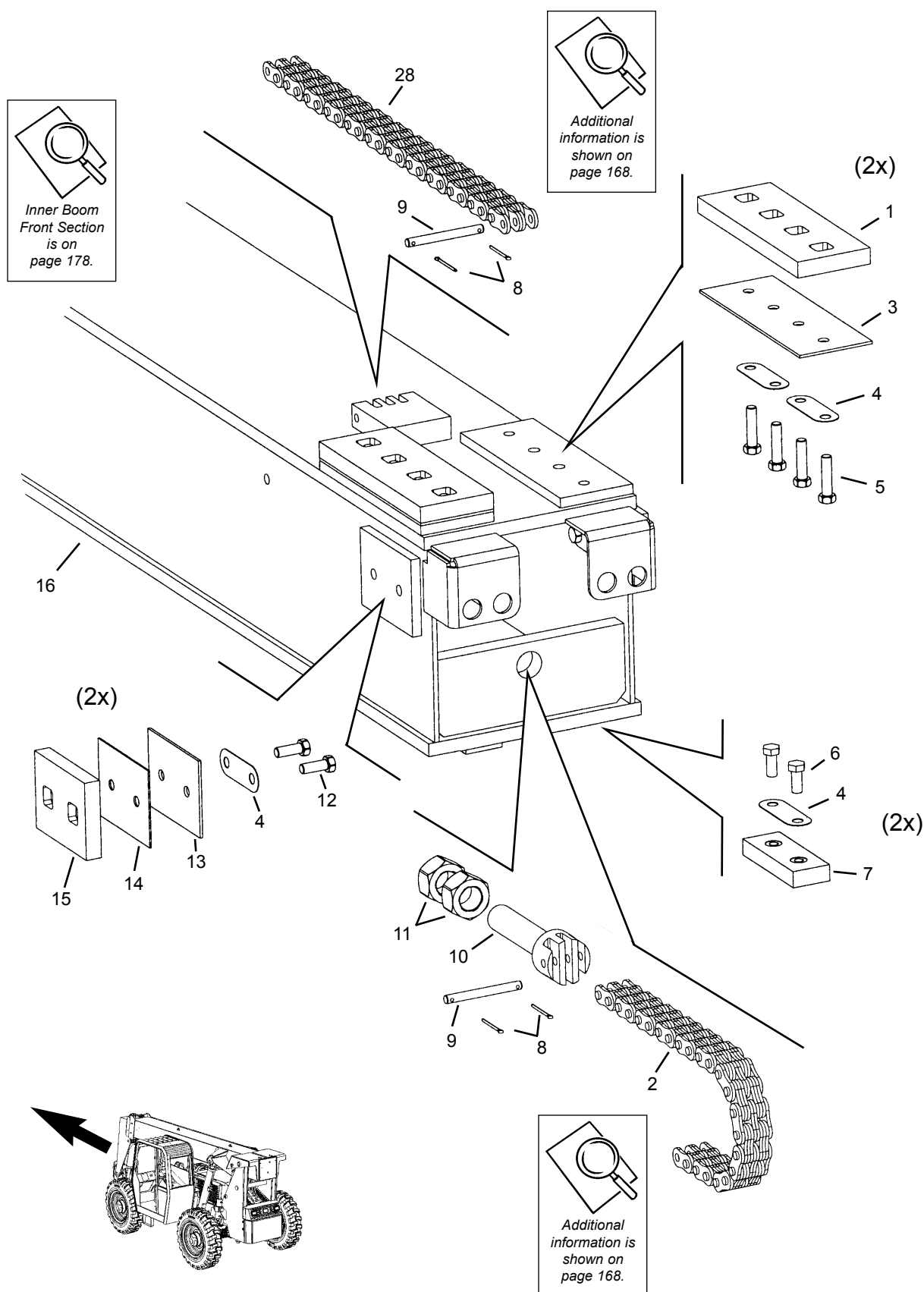




# Boom

### 4-Section Boom - Inner - Rear

## RS Series





# Telescopic Handler

## Boom

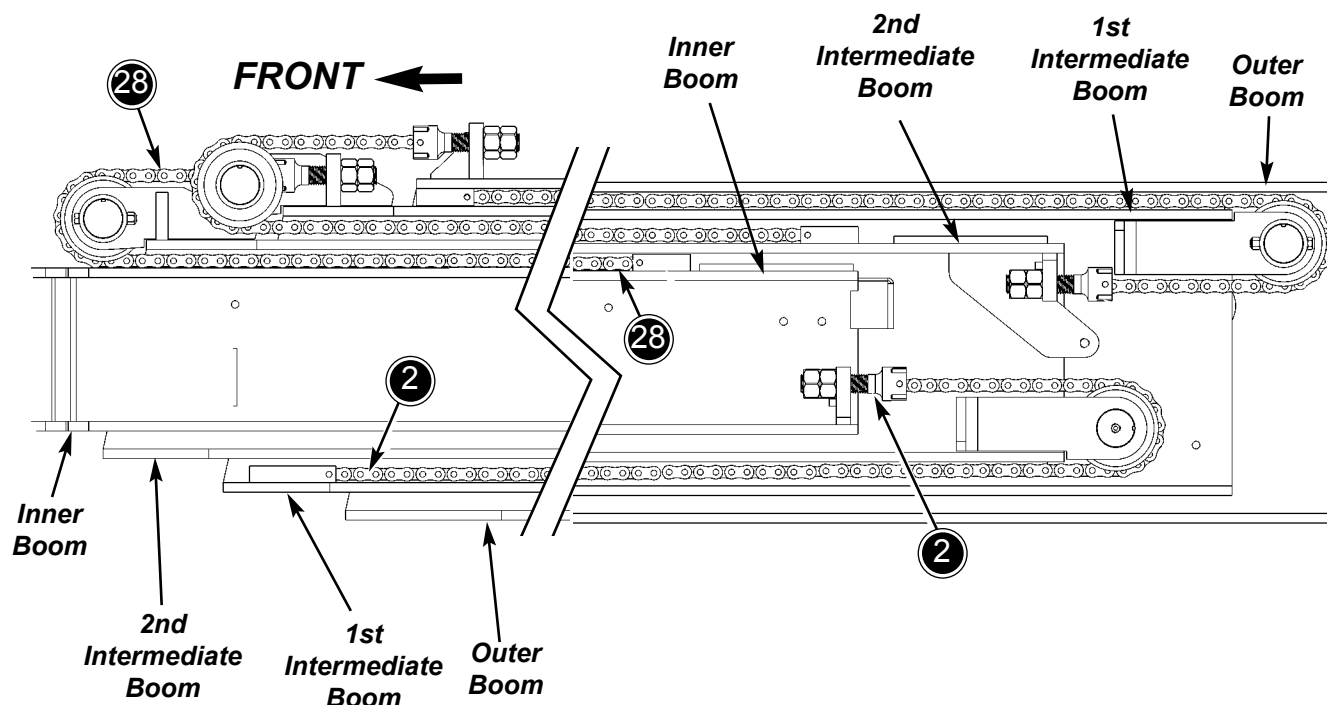
### 4-Section Boom - Inner - Rear

| Ref. No.        | Part No. | Description                             | Qty. Req. | Ref. No.        | Part No. | Description                            | Qty. Req. |
|-----------------|----------|-----------------------------------------|-----------|-----------------|----------|----------------------------------------|-----------|
| 01              | L71011   | SLIDE PAD 3"X8" . . . . .               | 2         | 13              | L62733   | SHIM 0.06"X3"X4" . . . . .             | 4         |
| 02 <sup>a</sup> | L71001   | LEAF CHAIN ( <i>retract</i> ) . . . . . | 1         | 14              | L62734   | SHIM 0.105"X3"X4" . . . . .            | 4         |
| 03              | L66783   | SHIM 0.125"X3"X8" . . . . .             | 2         | 15              | L61709   | SLIDE PAD 3"X4" . . . . .              | 4         |
| 04              | L62715   | BOLT FLAT LOCK . . . . .                | 8         | 16              | 100119   | INNER BOOM. . . . .                    | 1         |
| 05              | 650533   | 3/8"-16X1"-1/2 BOLT . . . . .           | 8         | 28 <sup>a</sup> | 101212   | LEAF CHAIN ( <i>extend</i> ) . . . . . | 1         |
| 06              | L510007  | 3/8"-16X7/8" BOLT . . . . .             | 4         |                 |          |                                        |           |
| 07              | L71003   | SLIDE PAD 1-1/2"X4" . . . . .           | 2         |                 |          |                                        |           |
| 08              | L560003  | 3/32"X1-1/4" COTTER PIN . . . . .       | 2         |                 |          |                                        |           |
| 09              | L71007   | CHAIN PIN . . . . .                     | 1         |                 |          |                                        |           |
| 10              | L71006   | ADJUSTABLE CLEVIS . . . . .             | 1         |                 |          |                                        |           |
| 11              | L50092   | HEX NUT 1"-8 . . . . .                  | 2         |                 |          |                                        |           |
| 12              | 650490   | 3/8"-16X1" BOLT . . . . .               | 4         |                 |          |                                        |           |



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### Four-Section Boom

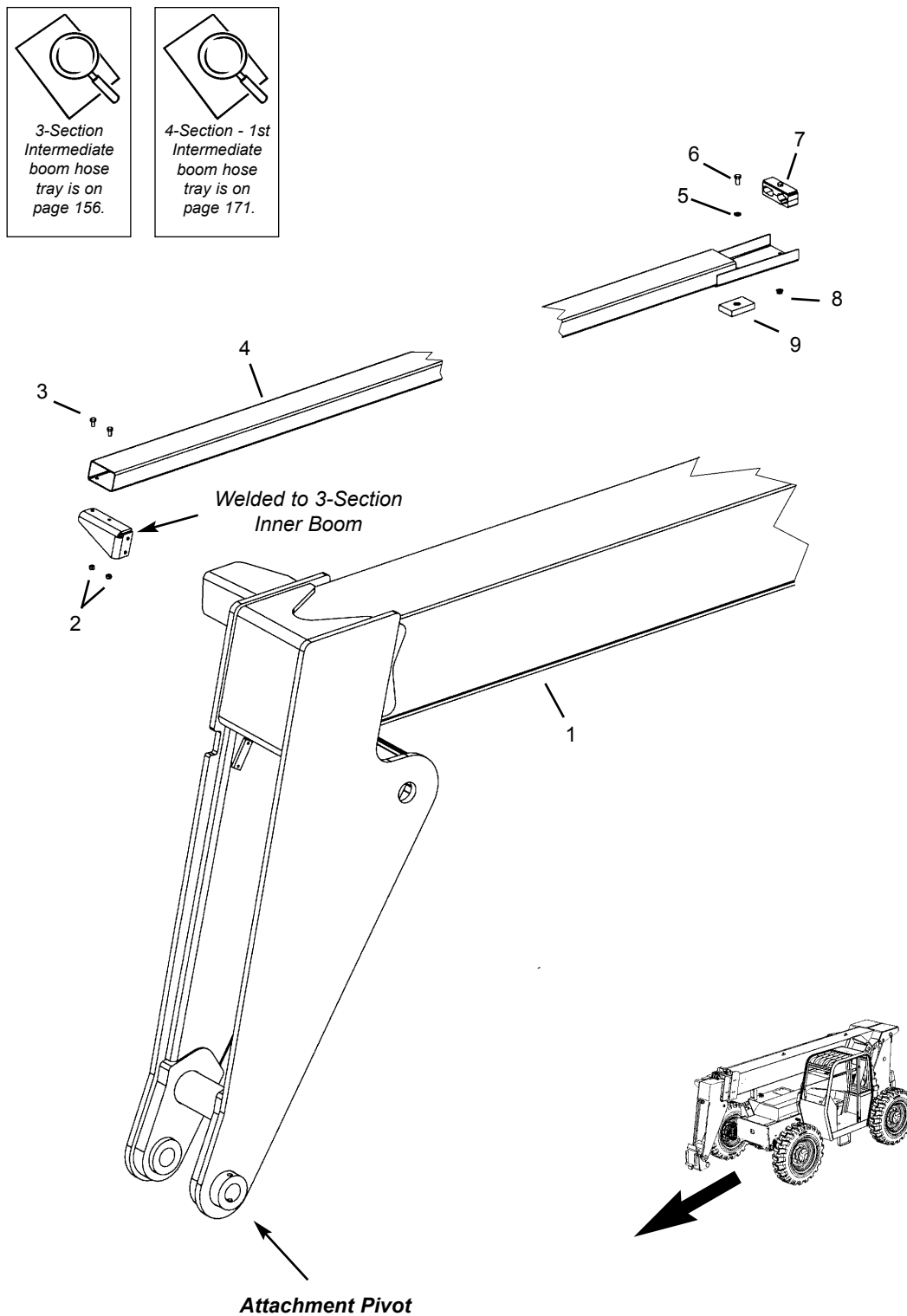




## Boom

## RS Series

### 3- and 4-Section Boom - Inner - Front





## Telescopic Handler

## Boom

### 3- and 4-Section Boom - Inner - Front

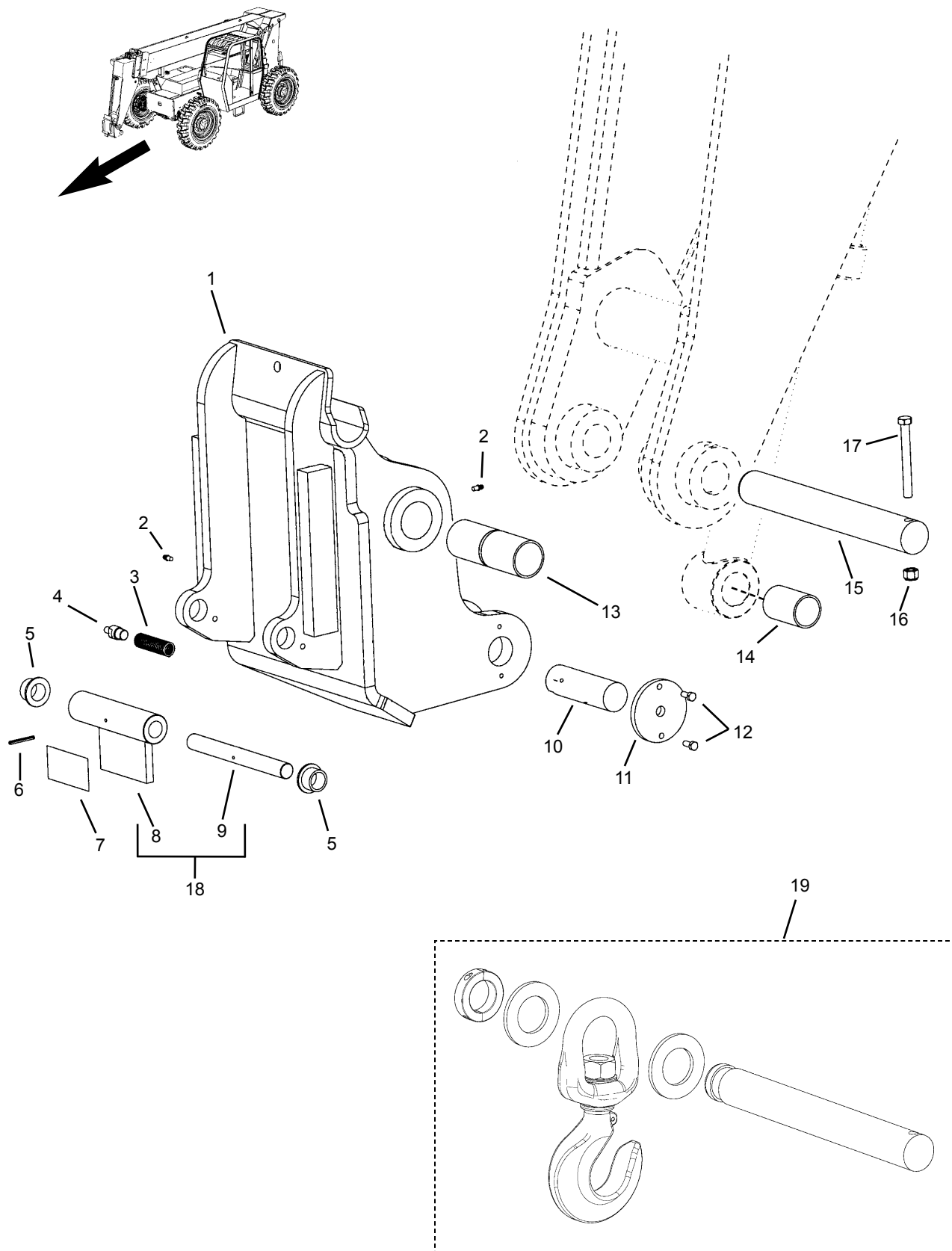
| Ref. No. | Part No. | Description                         | Qty. Req. | Ref. No.        | Part No. | Description                    | Qty. Req. |
|----------|----------|-------------------------------------|-----------|-----------------|----------|--------------------------------|-----------|
| 01       |          | INNER BOOM WELDMENT . . . . .       | 1         | 04 <sup>a</sup> |          | INNER BOOM HOSE TRAY . . . . . | 1         |
|          | 102283   | 3-Section 42' boom                  |           |                 | 210438   | 3-Section 42' boom             |           |
|          | 102286   | 3-Section 44' boom                  |           |                 | 105229   | 3-Section 44' boom             |           |
|          | 100119   | 4-Section 55' boom                  |           | 05              | 654026   | 3/8" LOCK WASHER . . . . .     | 1         |
| 02       | L520004  | 5/16"-18 NYLON INSERT NUT . . . . . | 2         | 06              | 650488   | 3/8"-16X3/4" BOLT . . . . .    | 1         |
| 03       | 650485   | 5/16"-18X5/8" BOLT . . . . .        | 4         | 07              | L79167   | HOSE CLAMP ASSEMBLY . . . . .  | 1         |
|          |          |                                     |           | 08              | L50056   | 5/16"-18 FLARE NUT . . . . .   | 1         |
|          |          |                                     |           | 09              | L61699   | SLIDE PAD, 1"X2"X3" . . . . .  | 1         |

*a The 4-section boom does not have an inner boom hose tray.*



# Boom Dynattach® Assembly

## RS Series



**Telescopic Handler****Boom  
Dynattach® Assembly**

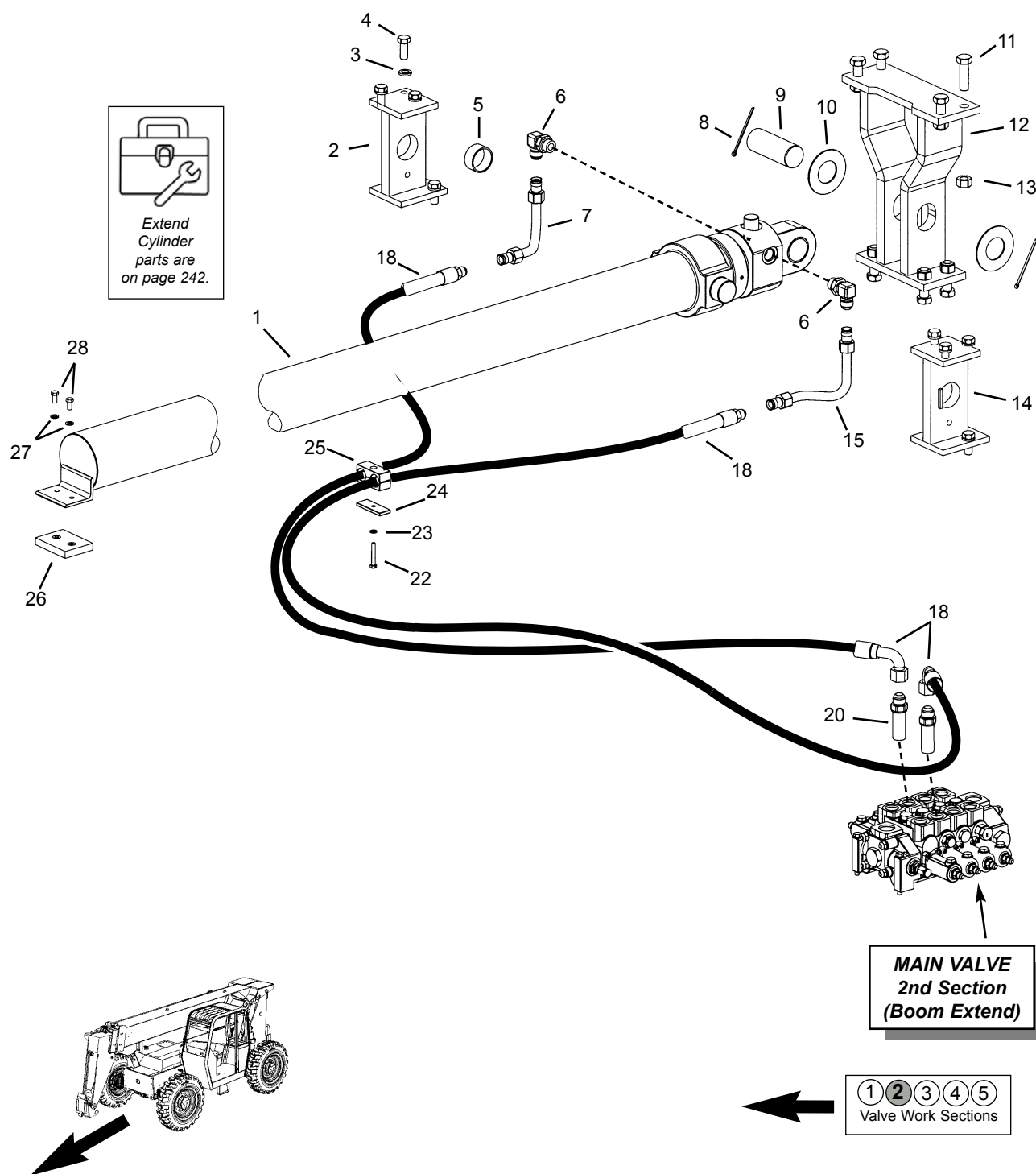
| Ref.<br>No.     | Part<br>No. | Description                                                        | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                                                                      | Qty.<br>Req. |
|-----------------|-------------|--------------------------------------------------------------------|--------------|-------------|-------------|----------------------------------------------------------------------------------|--------------|
| 01              | 101055      | DYNATTACH® WELDMENT . . . . . 1<br><i>(includes item 5 and 13)</i> |              | 15          |             | PIN, DYNATTACH PIVOT . . . . . 1<br><i>For 42' and 44' Booms</i>                 |              |
| 02              | L10465      | 1/4" -28 STR GREASE ZERK . . . . . 2                               |              |             | 102371      | <i>For 55' Boom</i>                                                              |              |
| 03              | L65097      | LOCK SPRING . . . . . 1                                            |              | 16          | 100118      | 1/2"-13 NYLON INSERT NUT . . . . . 1                                             |              |
| 04              | L65098      | SPRING MOUNT . . . . . 1                                           |              | 17          | L520019     | 1/2"-13X4-1/2" BOLT GR8 . . . . . 1                                              |              |
| 05              | L66456      | BUSHING . . . . . 2                                                |              | 18          | L50986      | LOCK AND PIN ASSEMBLY . . . . . 1<br><i>(includes items 8 and 9)</i>             |              |
| 06              | L50646      | 3/16"X1-3/4" ROLL PIN . . . . . 1                                  |              |             | L66453      |                                                                                  |              |
| 07              | L66613      | DECAL, DYNATTACH UNLOCKED 1                                        |              | 19          |             | KIT, LIFTING HOOK <i>(option)</i> . . . . . 1                                    |              |
| 08 <sup>a</sup> | NSS         | LOCK WELDMENT . . . . . 1                                          |              |             | 50381196    | <i>For 42' and 44' booms</i>                                                     |              |
| 09 <sup>a</sup> | NSS         | PIN . . . . . 1                                                    |              |             | 50381154    | <i>For 55' boom</i>                                                              |              |
| 10              | L69727      | PIN, TILT CYLINDER . . . . . 1                                     |              |             |             |                                                                                  |              |
| 11              | L69724      | PIN CAP . . . . . 1                                                |              |             |             |                                                                                  |              |
| 12              | 650486      | 5/16"X3/4" BOLT . . . . . 2                                        |              |             |             |                                                                                  |              |
| 13              | 101351      | BUSHING . . . . . 1                                                |              |             |             |                                                                                  |              |
| 14              | L99889      | BUSHING, TILT CYL. <i>(rod end)</i> . . . . 1                      |              |             |             |                                                                                  |              |
|                 |             |                                                                    |              | a           |             | <i>Not sold separately; order item #18<br/>P/N L66453 Lock and Pin Assembly.</i> |              |



## Boom Hydraulics

### 3-Section Boom - Boom Extend/Retract

## RS Series





## Telescopic Handler

## Boom Hydraulics

### 3-Section Boom - Boom Extend/Retract

| Ref. No. | Part No. | Description                     | Qty. Req. | Ref. No. | Part No. | Description                           | Qty. Req. |
|----------|----------|---------------------------------|-----------|----------|----------|---------------------------------------|-----------|
| 01       |          | EXTEND CYLINDER.....            | 1         | 12       | 102335   | WELDMENT, EXTEND CYL MNT..            | 1         |
|          | 102543   | 3-Section 42' boom              |           |          | L70420   | TRUNNION SHIM ( <i>not shown</i> )... | 1         |
|          | 102544   | 3-Section 44' boom              |           | 13       | L50519   | 3/4-10 NYLON INSERT NUT .....         | 8         |
| 02       | L64661   | TRUNNION MOUNT (RH).....        | 1         | 14       | L64443   | TRUNNION MOUNT (LH).....              | 1         |
|          |          | (includes item 5)               |           |          |          | (includes item 5)                     |           |
| 03       | L50156   | 5/8" LOCK WASHER.....           | 10        | 15       | 102540   | EXTEND CYLINDER TUBE (LH) ..          | 1         |
| 04       | L50313   | 5/8-11x1-1/2" BOLT .....        | 10        | 18       | 210429   | HOSE, -12 H12/DS12 50".....           | 2         |
| 05       | L48805   | BUSHING 2.0" ID X 1.0" LENGTH.  | 2         | 20       | 188973   | ADAP., -12ORM -12JICM STR LNG.        | 2         |
| 06       | 055005   | ADAP., -12ORM -12JICM 90° ..... | 2         | 22       | L50835   | 5/16"-18X2 GR5 BOLT .....             | 1         |
| 07       | 102541   | EXTEND CYLINDER TUBE (RH) ..    | 1         | 23       | 654024   | 5/16" FLAT WASHER .....               | 1         |
| 08       | L50608   | 3/16X4" COTTER PIN.....         | 2         | 24       | 102517   | PLATE, TOP CLAMP.....                 | 1         |
| 09       | L69994   | EXTEND CYLINDER PIN .....       | 1         | 25       | 102516   | CLAMP BODY TWIN CUSHION...            | 1         |
| 10       | L400207  | THRUST WASHER .....             | 2         | 26       | L61709   | SLIDE PAD .....                       | 1         |
| 11       | 650711   | 3/4-10X3" BOLT.....             | 8         | 27       | 654026   | 3/8" LOCK WASHER.....                 | 2         |
|          |          |                                 |           | 28       | 650488   | 3/8"-16X3/4" BOLT .....               | 2         |

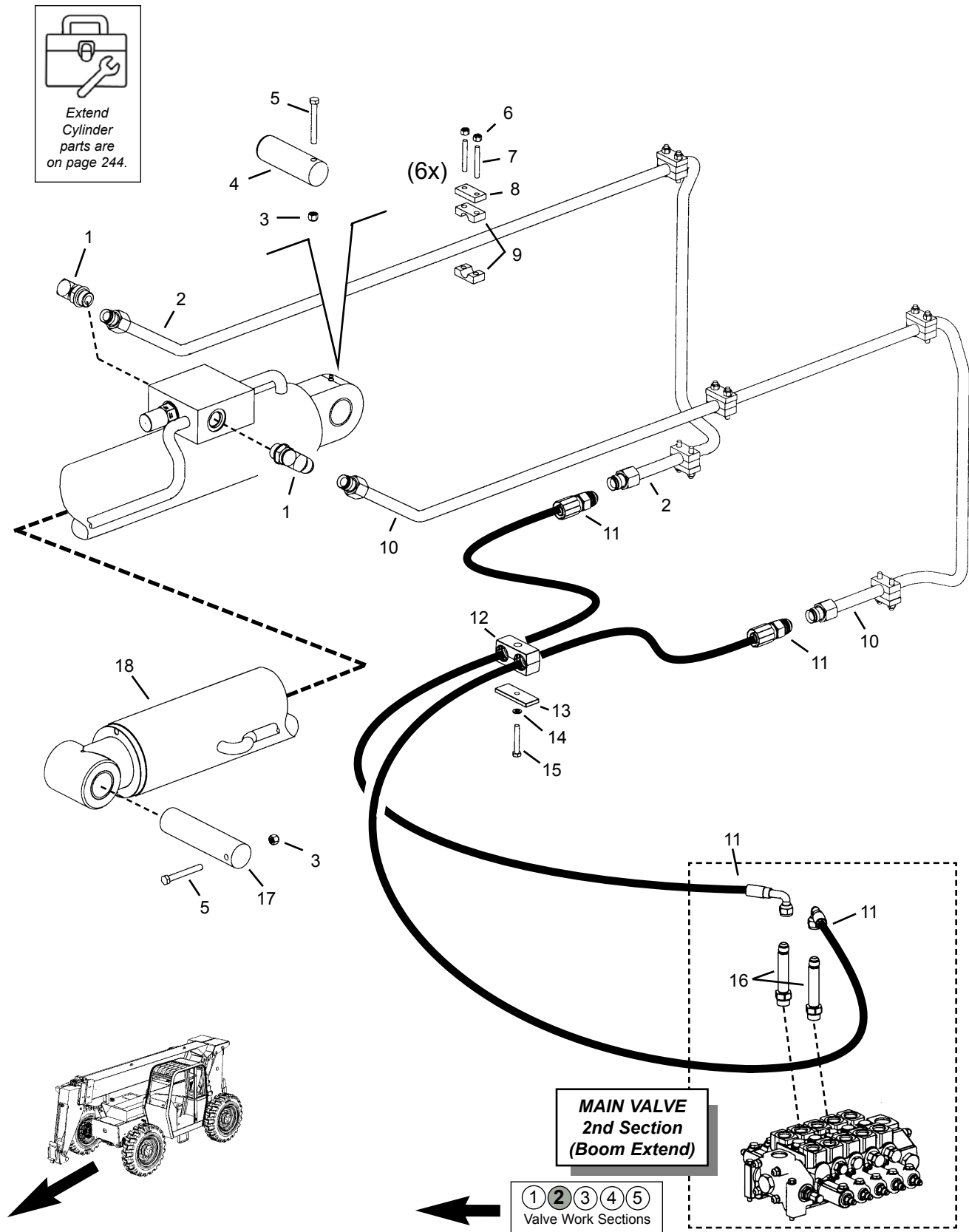




## Boom Hydraulics

## RS Series

### 4-Section Boom - Boom Extend/Retract





## Telescopic Handler

## Boom Hydraulics

### 4-Section Boom - Boom Extend/Retract

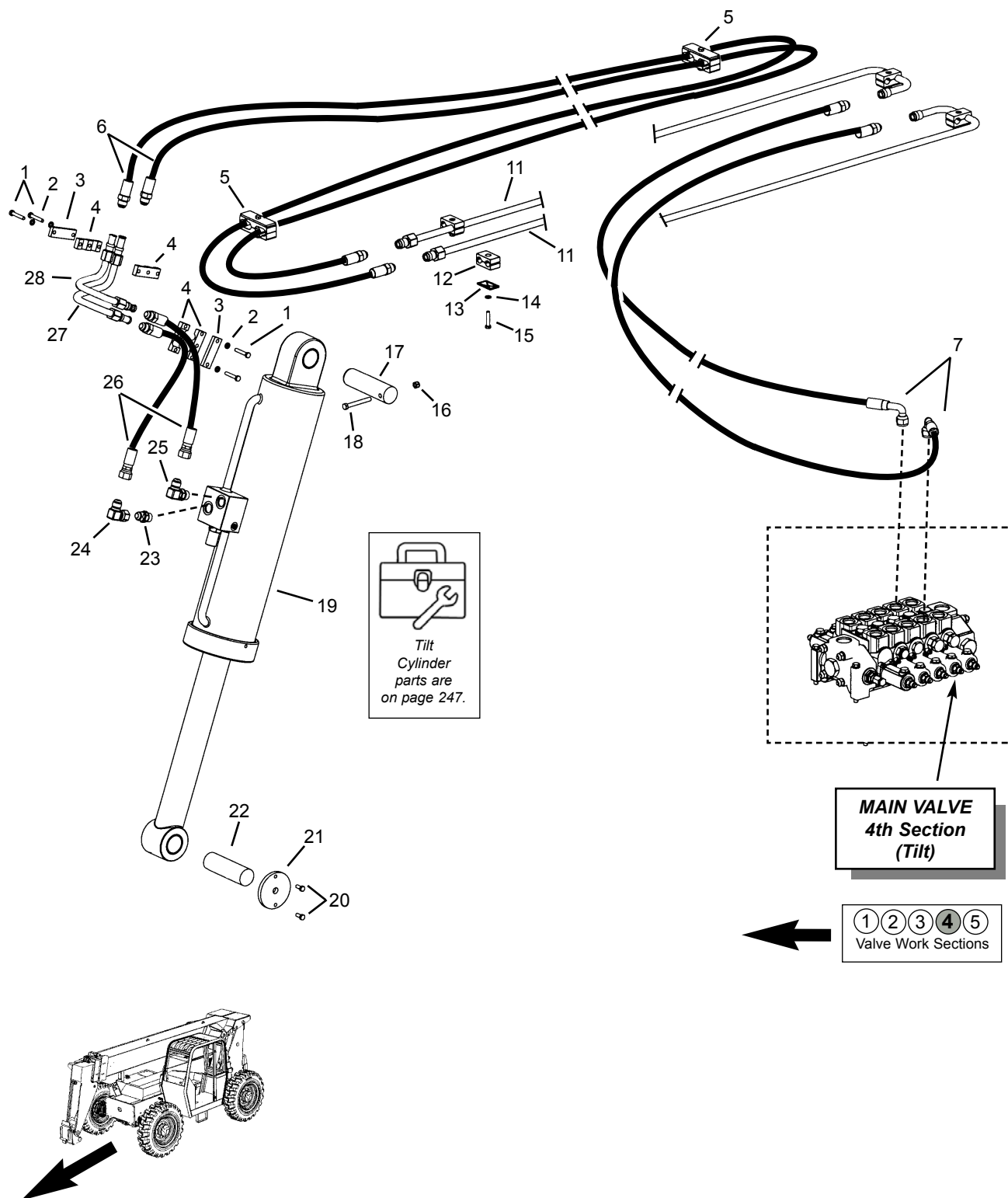
| Ref. No. | Part No. | Description                                | Qty. Req. | Ref. No. | Part No. | Description                                 | Qty. Req. |
|----------|----------|--------------------------------------------|-----------|----------|----------|---------------------------------------------|-----------|
| 01       | 055005   | ADAP., -12ORM -12JICM 90° . . . . .        | 2         | 10       | 210348   | EXTEND CYLINDER TUBE ( <i>left</i> ) . .    | 1         |
| 02       | 210327   | EXTEND CYLINDER TUBE ( <i>right</i> ) .    | 1         | 11       | 210429   | HOSE, -12 H12/DS12 50" . . . . .            | 2         |
| 03       | L520005  | 3/8" NYLON INSERT NUT . . . . .            | 2         | 12       | 102516   | CLAMP BODY TWIN CUSHION . .                 | 1         |
| 04       | L70964   | PIN, EXTEND CYL. ( <i>base end</i> ) . . . | 1         | 13       | 102517   | PLATE, TOP CLAMP . . . . .                  | 1         |
| 05       | 650818   | 3/8"X3" BOLT . . . . .                     | 2         | 14       | 654024   | 5/16" FLAT WASHER . . . . .                 | 1         |
| 06       | L520004  | 5/16" NYLON INSERT NUT . . . . .           | 12        | 15       | L50835   | 5/16"-18X2 GR5 BOLT . . . . .               | 1         |
| 07       | L50877   | 5/16"X2-1/4" STUD . . . . .                | 12        | 16       | 188973   | ADAP., -12ORM -12JICM STR LNG.2             |           |
| 08       | L67446   | PLATE . . . . .                            | 6         | 17       | L64559   | PIN, EXTEND CYL. ( <i>rod end</i> ) . . . . | 1         |
| 09       | L70270   | TUBE CUSHION . . . . .                     | 6         | 18       | L71024   | EXTEND CYLINDER ( <i>RS10-55</i> ) . . .    | 1         |



## Boom Hydraulics

### 3-Section Boom -Tilt

## RS Series





## Telescopic Handler

## Boom Hydraulics

### 3-Section Boom - Tilt

| Ref. No.        | Part No.      | Description                             | Qty. Req. | Ref. No. | Part No. | Description                           | Qty. Req. |
|-----------------|---------------|-----------------------------------------|-----------|----------|----------|---------------------------------------|-----------|
| 01              | L50561        | 5/16"-18X1-3/4" BOLT . . . . .          | AR        | 21       | L69724   | PIVOT PIN CAP . . . . .               | 1         |
| 02              | 654024        | 5/16" FLAT WASHER . . . . .             | AR        | 22       | L69727   | PIN, TILT CYL ROD END . . . . .       | 1         |
| 03              | L63715        | HOSE CUSHION TOP PLATE . . . . .        | 2         | 23       | 072580   | ADAP., -10ORM -10JICM STR. . . . .    | 1         |
| 04              | L68039        | TUBE CUSHION DBL 5/8" . . . . .         | 4         | 24       | 065415   | ADAP., -10JICFS -10JICM 90° . . . . . | 1         |
| 05              | L79167        | HOSE CLAMP ASSEMBLY . . . . .           | 2         | 25       | 067761   | ADAP., -10ORM -10JICM 90° . . . . .   | 1         |
| 06              | <i>Note a</i> | BOOM HOSES. . . . . (see note for qty.) |           | 26       | L70088   | HOSE, -8 A10/H10 20" . . . . .        | 2         |
| 07              | 210428        | HOSE, -10 H10/DS10 52" . . . . .        | 2         | 27       | L69449   | TILT CYLINDER TUBE . . . . .          | 1         |
| 11 <sup>b</sup> | 210292        | TILT CYLINDER TUBE . . . . .            | 2         | 28       | L69450   | TILT CYLINDER TUBE . . . . .          | 1         |
| 12              | L69832        | CLAMP, DBL TUBE .62" . . . . .          | 6         |          |          |                                       |           |
| 13              | L69833        | PLATE, TOP DBL CUSHION. . . . .         | 6         |          |          |                                       |           |
| 14              | 654024        | 5/16" FLAT WASHER . . . . .             | 6         |          |          |                                       |           |
| 15              | L50842        | 3/8"-16X1-1/2" BOLT . . . . .           | 6         |          |          |                                       |           |
| 16              | L520005       | 3/8" NYLON INSERT NUT . . . . .         | 1         |          |          |                                       |           |
| 17              | L69601        | PIN, TILT CYL BASE END . . . . .        | 1         |          |          |                                       |           |
| 18              | 650818        | 3/8"-16X3" BOLT . . . . .               | 1         |          |          |                                       |           |
| 19              | L69144        | TILT CYLINDER . . . . .                 | 1         |          |          |                                       |           |
| 20              | 650486        | 5/16"-18X3/4" BOLT . . . . .            | 2         |          |          |                                       |           |

*a (42' boom);  
Uses (1) L500784 protective sleeve and  
(2) 210502 Hose, -8 H10/H10 350".*

*a (44' boom);  
Uses (1) L500784 protective sleeve and  
(2) 210503 Hose, -8 H10/H10 370".*

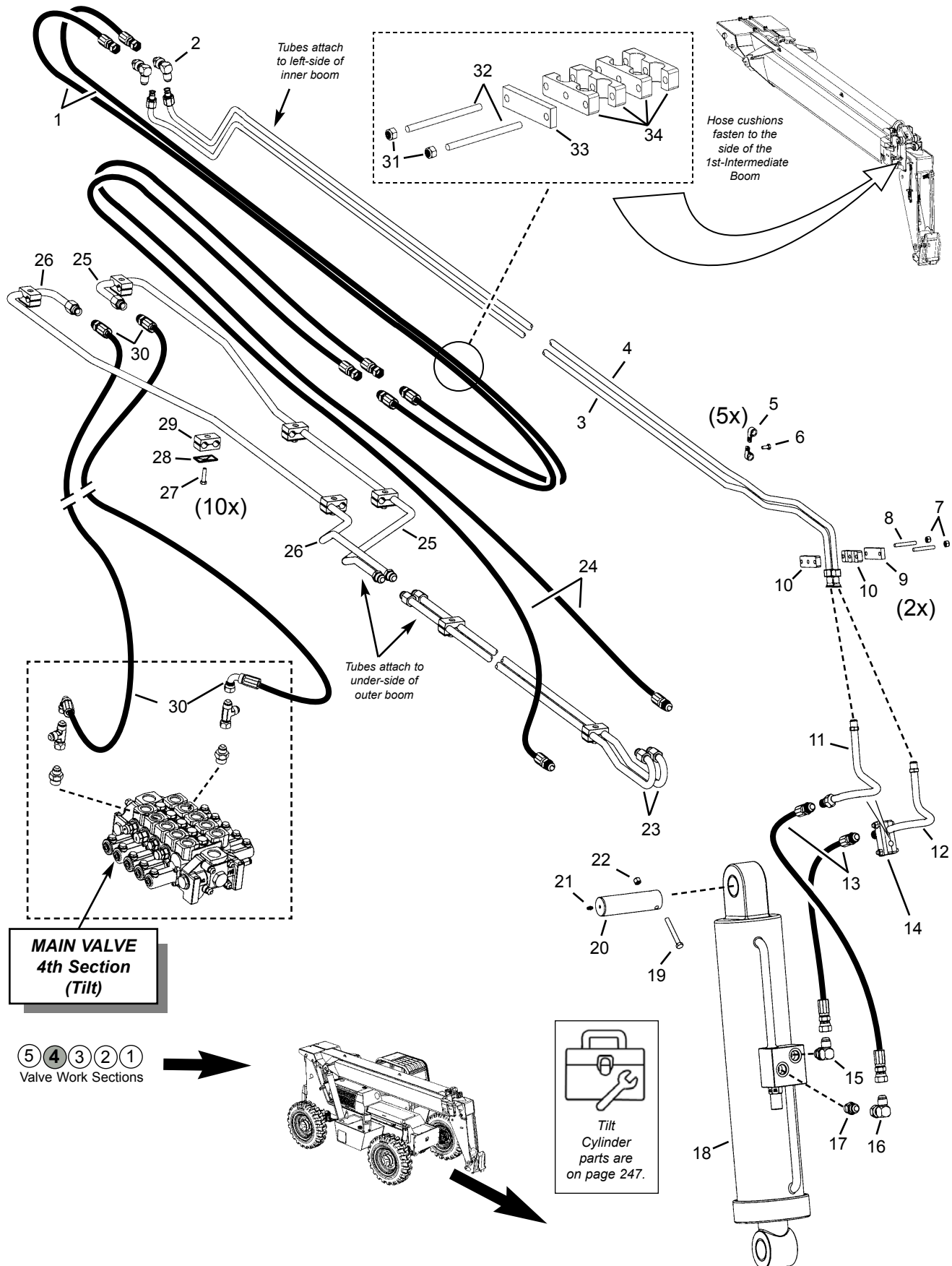
*b Located on the bottom side of the boom.*



## Boom Hydraulics

### 4-Section Boom -Tilt

## RS Series





## Telescopic Handler

## Boom Hydraulics

### 4-Section Boom - Tilt

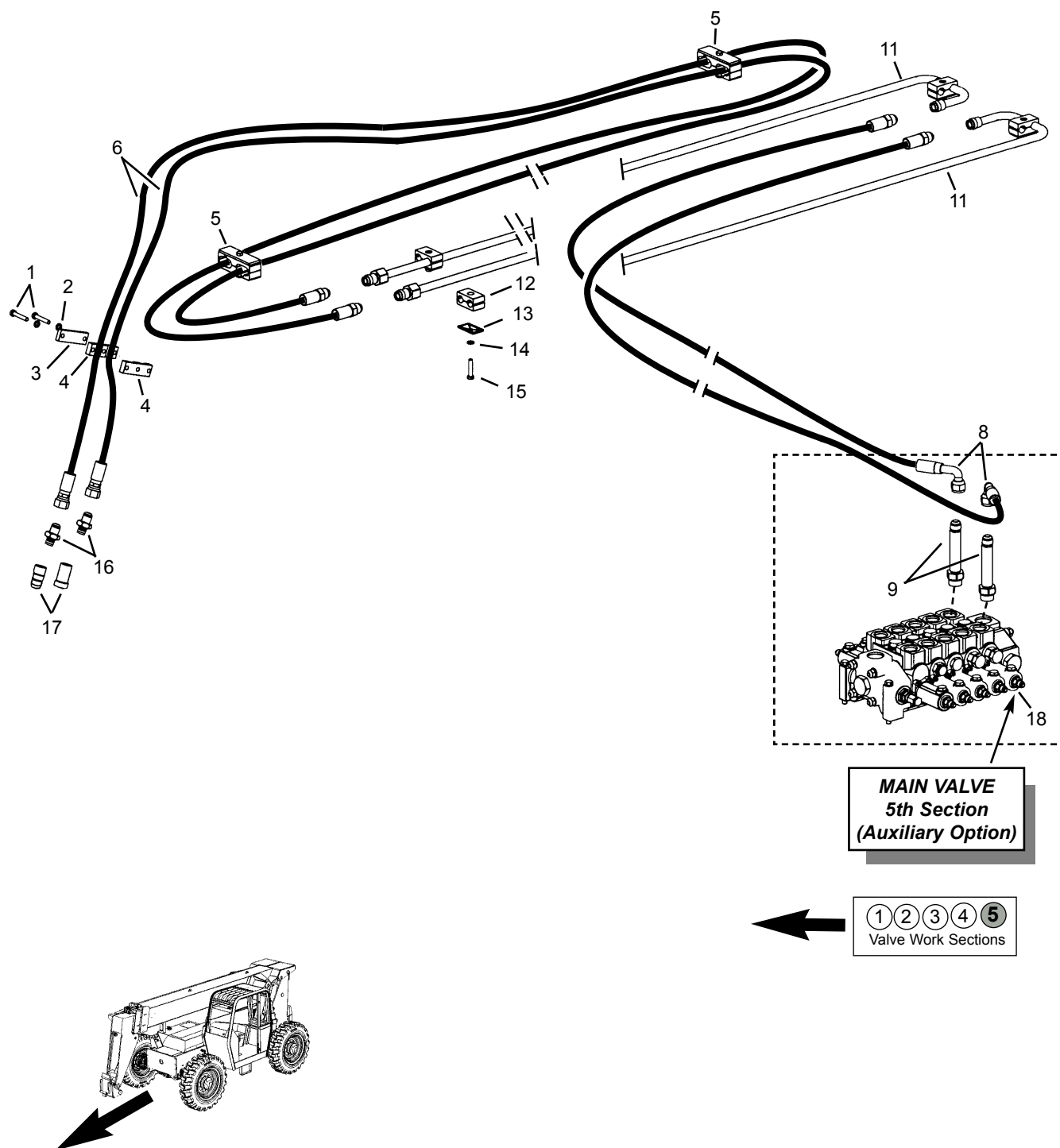
| Ref. No. | Part No.  | Description                                  | Qty. Req. | Ref. No. | Part No. | Description                                | Qty. Req. |
|----------|-----------|----------------------------------------------|-----------|----------|----------|--------------------------------------------|-----------|
| 01       | 210888    | HOSE, -8 A10/H10 254" ( <i>twin line</i> ) . | 1         | 18       | L69144   | CYLINDER, TILT . . . . .                   | 1         |
| 02       | 230-21555 | ADAP., -8ORB -8JICM 90° BLKHD .              | 2         | 19       | 650818   | 3/8"X3" BOLT . . . . .                     | 1         |
| 03       | L71037    | TUBE, TILT CYLINDER . . . . .                | 1         | 20       | L69601   | PIN, TILT CYLINDER ( <i>base end</i> ) .   | 1         |
| 04       | L71036    | TUBE, TILT CYLINDER . . . . .                | 1         | 21       | 570019   | 1/4" GREASE ZERK . . . . .                 | 1         |
| 05       | L71042    | CLAMP, VINYL . . . . .                       | 10        | 22       | L520005  | 3/8" NYLON INSERT NUT . . . . .            | 1         |
| 06       | 650663    | 1/4"X5/8" BOLT . . . . .                     | 5         | 23       | 210330   | TUBE, BOOM TILT/AUX. . . . .               | 2         |
| 07       | L520004   | 5/16" NYLON INSERT NUT . . . . .             | 4         | 24       | L71055   | HOSE, -8 A10/H10 268" . . . . .            | 2         |
| 08       | L50877    | 5/16"X2-1/4" STUD . . . . .                  | 4         |          | L99134   | HOSE SLEEVE ( <i>not shown</i> ) . . . . . | 1         |
| 09       | L63715    | PLATE, CUSHION . . . . .                     | 2         | 25       | 210337   | TUBE, TILT CYLINDER . . . . .              | 1         |
| 10       | L63717    | CLAMP, DBL. TUBE . . . . .                   | 4         | 26       | 210332   | TUBE, TILT CYLINDER . . . . .              | 1         |
| 11       | L71038    | TUBE, TILT CYLINDER . . . . .                | 1         | 27       | 650545   | 5/16"X1-1/4" BOLT . . . . .                | 10        |
| 12       | L71039    | TUBE, TILT CYLINDER . . . . .                | 1         | 28       | L69833   | PLATE, CUSHION . . . . .                   | 10        |
| 13       | L71043    | HOSE, -8 A10/H8 20" . . . . .                | 2         | 29       | L69832   | CLAMP, DBL. TUBE 5/8" . . . . .            | 10        |
| 14       | NSS       | TUBE CLAMP ASSEMBLY . . . . .                | 1         | 30       | 210428   | HOSE, -10 H10/DS10 52" . . . . .           | 2         |
|          |           | ( <i>includes items 7-10</i> )               |           | 31       | L520004  | NIN 5/16" . . . . .                        | 2         |
| 15       | 067761    | ADAP., -10ORM -10JICM 90° . . . . .          | 1         | 32       | L71104   | STUD 1/4" x 2-1/4" . . . . .               | 2         |
| 16       | 065415    | ADAP., -10JICFS -10JICM 90° . . . . .        | 1         | 33       | L63719   | PLATE, HOSE CUSHION . . . . .              | 1         |
| 17       | 072580    | ADAP., -10ORM -10JICM . . . . .              | 1         | 34       | L63720   | CUSHION, HOSE . . . . .                    | 4         |



## Boom Hydraulics

## RS Series

### 3-Section Boom - Auxiliary Hydraulics Circuit





## Telescopic Handler

## Boom Hydraulics

### 3-Section Boom - Auxiliary Hydraulics Circuit

| Ref. No. | Part No. | Description                         | Qty. Req. | Ref. No. | Part No. | Description                                                                           | Qty. Req. |
|----------|----------|-------------------------------------|-----------|----------|----------|---------------------------------------------------------------------------------------|-----------|
| 01       | L50884   | 5/16"-18X2-1/4" BOLT . . . . .      | 2         | 16       | 137542   | ADAP., -8ORM -10JICM STR . . . . .                                                    | 2         |
| 02       | 654024   | 5/16" FLAT WASHER . . . . .         | 2         | 17       | L65273   | QUICK COUPLER SET . . . . .                                                           | 1         |
| 03       | L63719   | HOSE CUSHION TOP PLATE . . . . .    | 2         | 18       | 105165   | KIT, AUX. HYD. SECTION . . . . .                                                      | 1         |
| 04       | L63720   | TUBE CUSHION DBL .88" . . . . .     | 4         |          |          | <i>(Does not include tie bolt kits 102807; order separately, requires four kits.)</i> |           |
| 05       | L79167   | HOSE CLAMP ASSEMBLY . . . . .       | 2         |          |          |                                                                                       |           |
| 06       | Note a   | AUXILIARY HYD. HOSES                |           |          | 102807   | KIT, FIVE SECTION TIE BOLT . . . . .                                                  | 4         |
| 08       | 210428   | HOSE, -10 H10/DS10 52" . . . . .    | 2         |          |          | <i>(Each kit contains one bolt, two washers and two nuts.)</i>                        |           |
| 09       | 210385   | ADAP., -12ORM -10JICM LONG. . . . . | 2         |          |          |                                                                                       |           |
| 11       | 210297   | AUX. HYD. TUBE . . . . .            | 2         |          |          |                                                                                       |           |
| 12       | L69832   | CLAMP, DBL TUBE .62" . . . . .      | 6         |          |          |                                                                                       |           |
| 13       | L69833   | PLATE, TOP DBL CUSHION. . . . .     | 6         |          |          |                                                                                       |           |
| 14       | 654024   | 5/16" FLAT WASHER . . . . .         | 6         |          |          |                                                                                       |           |
| 15       | L50842   | 3/8"-16X1-1/2" BOLT . . . . .       | 6         |          |          |                                                                                       |           |
|          |          |                                     |           |          |          | <b>-- ITEMS NOT SHOWN --</b>                                                          |           |
|          |          |                                     |           | --       | 102718   | DECAL, AUXILIARY CONTROL . . .                                                        | 1         |

a (42' boom);  
Use (1) L500784 protective sleeve and  
(2) 210504 Hose, -8 A10/H10 370".

(44' boom);  
Use (1) L500784 protective sleeve and  
(2) 210505 Hose, -8 A10/H10 390".

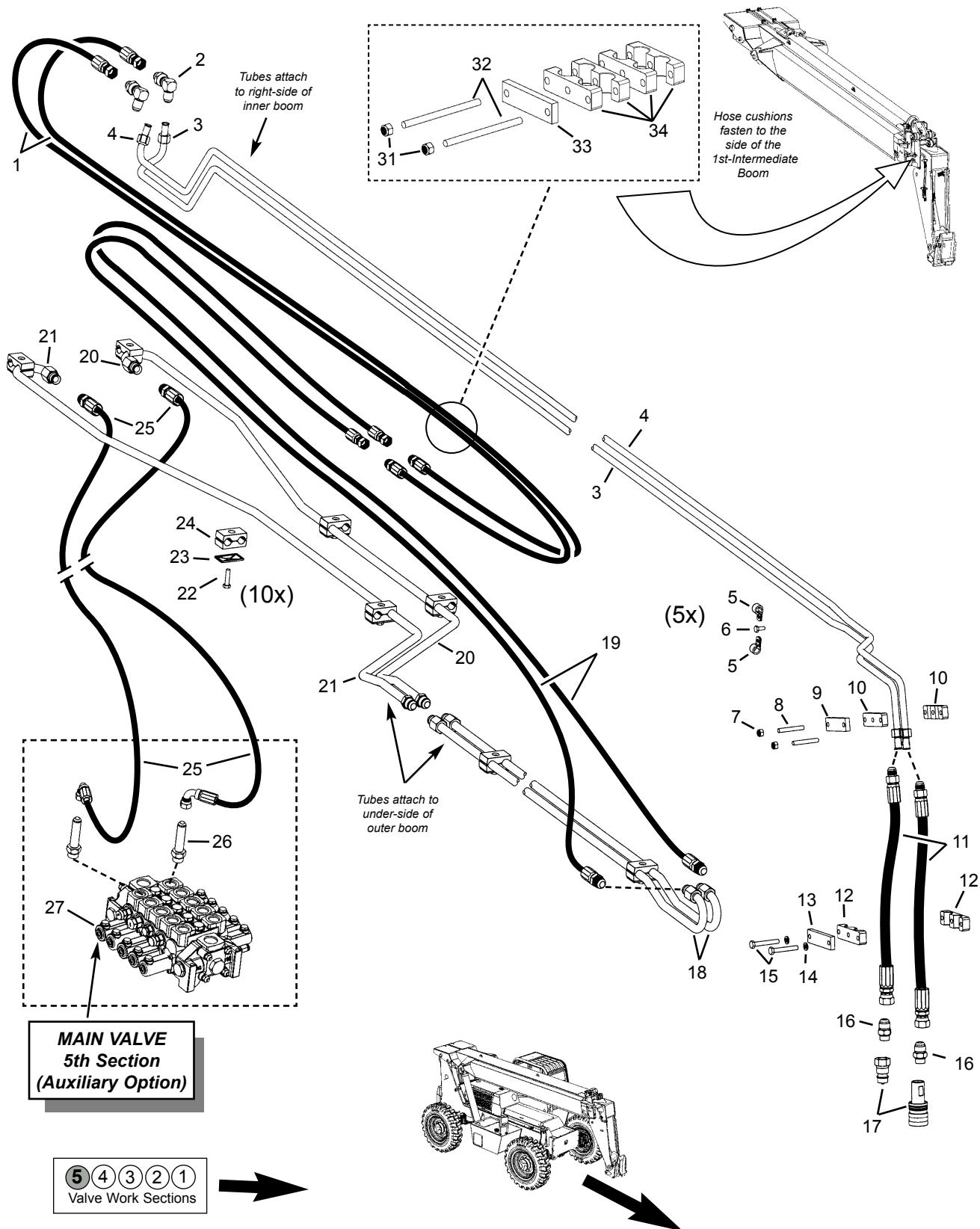




## Boom Hydraulics

## RS Series

### 4-Section Boom - Auxiliary Hydraulics Circuit





## Telescopic Handler

## Boom Hydraulics

### 4-Section Boom - Auxiliary Hydraulics Circuit

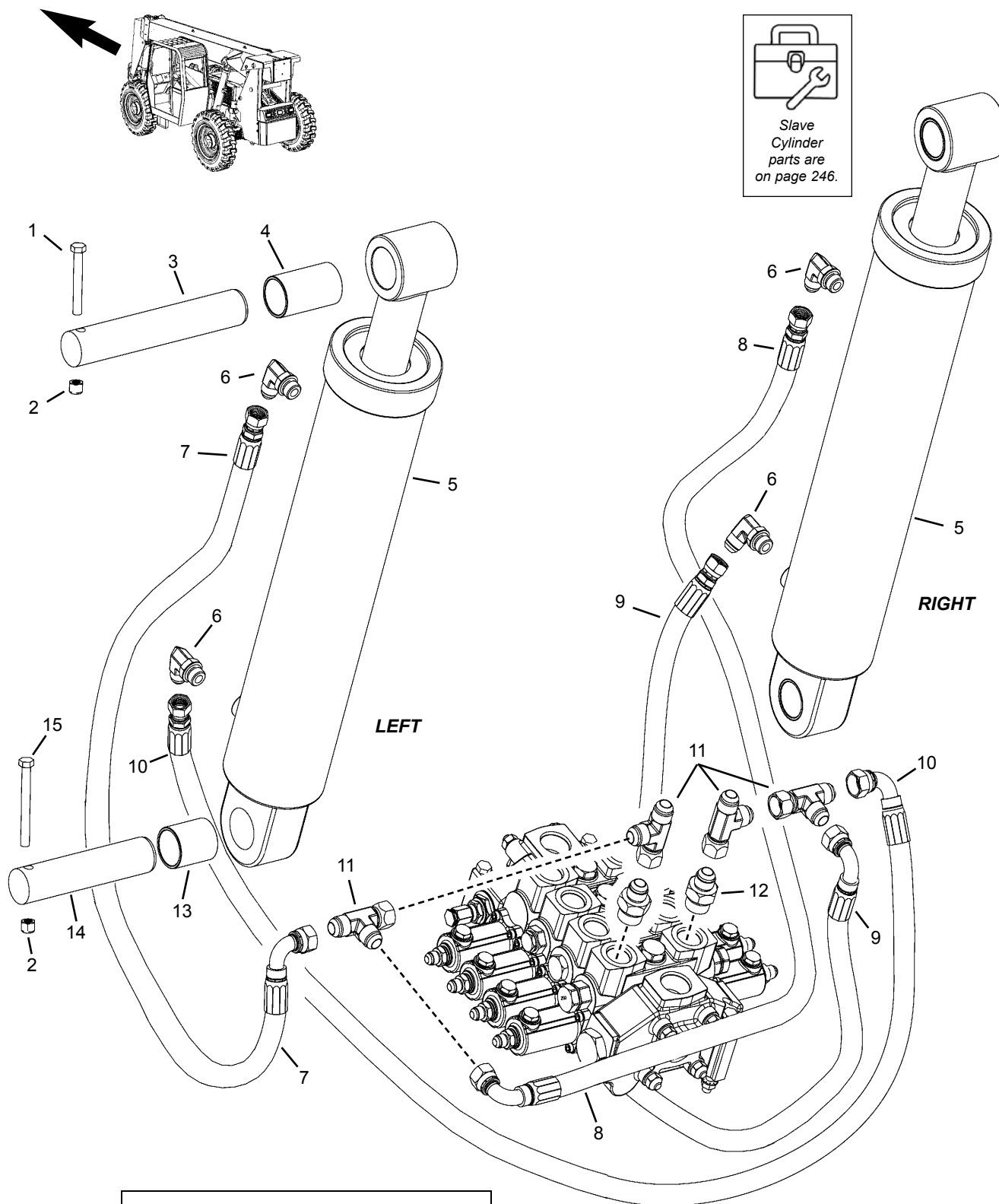
| Ref. No. | Part No.  | Description                                  | Qty. Req. | Ref. No. | Part No. | Description                                                                       | Qty. Req. |
|----------|-----------|----------------------------------------------|-----------|----------|----------|-----------------------------------------------------------------------------------|-----------|
| 01       | 210887    | HOSE, -8 A10/H10 248" ( <i>twin line</i> ) . | 1         | 21       | 210331   | TUBE, AUXILIARY . . . . .                                                         | 1         |
| 02       | 230-21555 | ADAP., -8ORB -8JICM 90° BLKHD. .             | 2         | 22       | 650545   | 5/16"X1-1/4" BOLT . . . . .                                                       | 10        |
| 03       | L71041    | TUBE, AUXILIARY . . . . .                    | 1         | 23       | L69833   | PLATE, CUSHION. . . . .                                                           | 10        |
| 04       | L71040    | TUBE, AUXILIARY . . . . .                    | 1         | 24       | L69832   | CLAMP, DBL. TUBE 5/8" . . . . .                                                   | 10        |
| 05       | L71042    | CLAMP, VINYL . . . . .                       | 10        | 25       | 210428   | HOSE, -10 H10/DS10 52" . . . . .                                                  | 2         |
| 06       | 650663    | 1/4"X5/8" BOLT . . . . .                     | 5         | 26       | 210385   | ADAP., -12ORM -10JICM LONG. . .                                                   | 2         |
| 07       | L520004   | 5/16" NYLON INSERT NUT . . . . .             | 2         | 27       | 105165   | KIT, AUX. HYD. SECTION . . . . .                                                  | 1         |
| 08       | L50877    | 5/16"X2-1/4" STUD . . . . .                  | 2         |          |          | (Does not include tie bolt kits 102807;<br>order separately, requires four kits.) |           |
| 09       | L63715    | PLATE, CUSHION. . . . .                      | 1         |          | 102807   | KIT, FIVE SECTION TIE BOLT . . . .                                                | 4         |
| 10       | L63717    | CLAMP, DBL. TUBE . . . . .                   | 2         |          |          | (Each kit contains one bolt, two<br>washers and two nuts.)                        |           |
| 11       | L71043    | HOSE, -8 A10/H8 20" . . . . .                | 2         | 31       | L520004  | NIN 5/16" . . . . .                                                               | 2         |
| 12       | L63720    | CLAMP, DBL. TUBE . . . . .                   | 2         | 32       | L71104   | STUD 1/4" x 2-1/4" . . . . .                                                      | 2         |
| 13       | L63719    | PLATE, DBL. TUBE . . . . .                   | 1         | 33       | L63719   | PLATE, HOSE CUSHION . . . . .                                                     | 1         |
| 14       | 654024    | 5/16" LOCK WASHER. . . . .                   | 2         | 34       | L63720   | CUSHION, HOSE . . . . .                                                           | 4         |
| 15       | 650725    | 5/16"X2-1/4" BOLT . . . . .                  | 2         |          |          | <b>-- ITEMS NOT SHOWN --</b>                                                      |           |
| 16       | 137542    | ADAP., -8ORM -10JICM . . . . .               | 2         | --       | 102718   | DECAL, AUXILIARY CONTROL . .                                                      | 1         |
| 17       | L65273    | QUICK COUPLER SET. . . . .                   | 1         |          |          |                                                                                   |           |
| 18       | 210330    | TUBE, BOOM TILT/AUX. . . . .                 | 2         |          |          |                                                                                   |           |
| 19       | L71055    | HOSE, -8 A10/H10 268" . . . . .              | 2         |          |          |                                                                                   |           |
|          | L99134    | HOSE SLEEVE ( <i>not shown</i> ) . . . . .   | 1         |          |          |                                                                                   |           |
| 20       | 210335    | TUBE, AUXILIARY . . . . .                    | 1         |          |          |                                                                                   |           |



## Boom Hydraulics

### Slave Cylinder Circuit

## RS Series



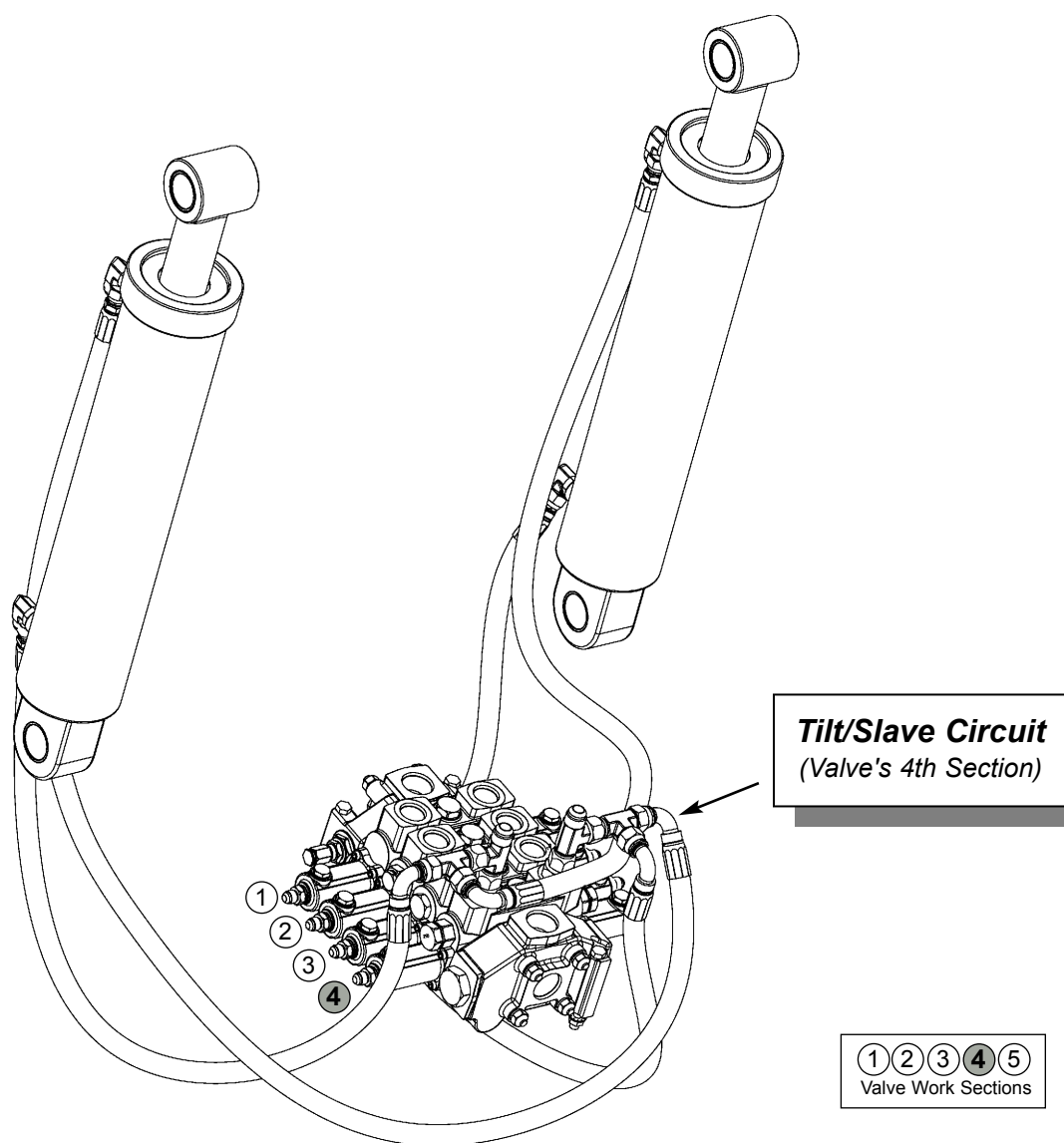
**Standard Four-Section Valve**  
(Does not include auxiliary hydraulics section)



## Telescopic Handler

## Boom Hydraulics Slave Cylinder Circuit

| Ref. No. | Part No. | Description                               | Qty. Req. | Ref. No. | Part No. | Description                               | Qty. Req. |
|----------|----------|-------------------------------------------|-----------|----------|----------|-------------------------------------------|-----------|
| 01       | 650493   | 3/8"X2-3/4" BOLT . . . . .                | 2         | 09       | 187351   | HOSE, -8 A8/DS10 62" . . . . .            | 1         |
| 02       | L520005  | 3/8" NYLON LOCK NUT . . . . .             | 4         | 10       | 187351   | HOSE, -8 A8/DS10 62" . . . . .            | 1         |
| 03       | 102445   | PIN, SLAVE CYL. ROD END . . . . .         | 2         | 11       | 058610   | ADAP., -10 SWVL RUN TEE . . . . .         | 4         |
| 04       | L63018   | BUSHING (included with item #5) . . . . . | 2         | 12       | 072602   | ADAP., -12ORM -10JICM . . . . .           | 2         |
| 05       | L69149   | CYLINDER (incls. items 4 & 13) . . . . .  | 2         | 13       | L63017   | BUSHING (included with item #5) . . . . . | 2         |
| 06       | 054816   | ADAP., -8ORM -8JICM 90° . . . . .         | 4         | 14       | 210293   | PIN, SLAVE CYL. BASE END . . . . .        | 2         |
| 07       | 187351   | HOSE, -8 A8/DS10 62" . . . . .            | 1         | 15       | 650731   | 3/8"X3-1/2" BOLT . . . . .                | 2         |
| 08       | 187351   | HOSE, -8 A8/DS10 62" . . . . .            | 1         |          |          |                                           |           |

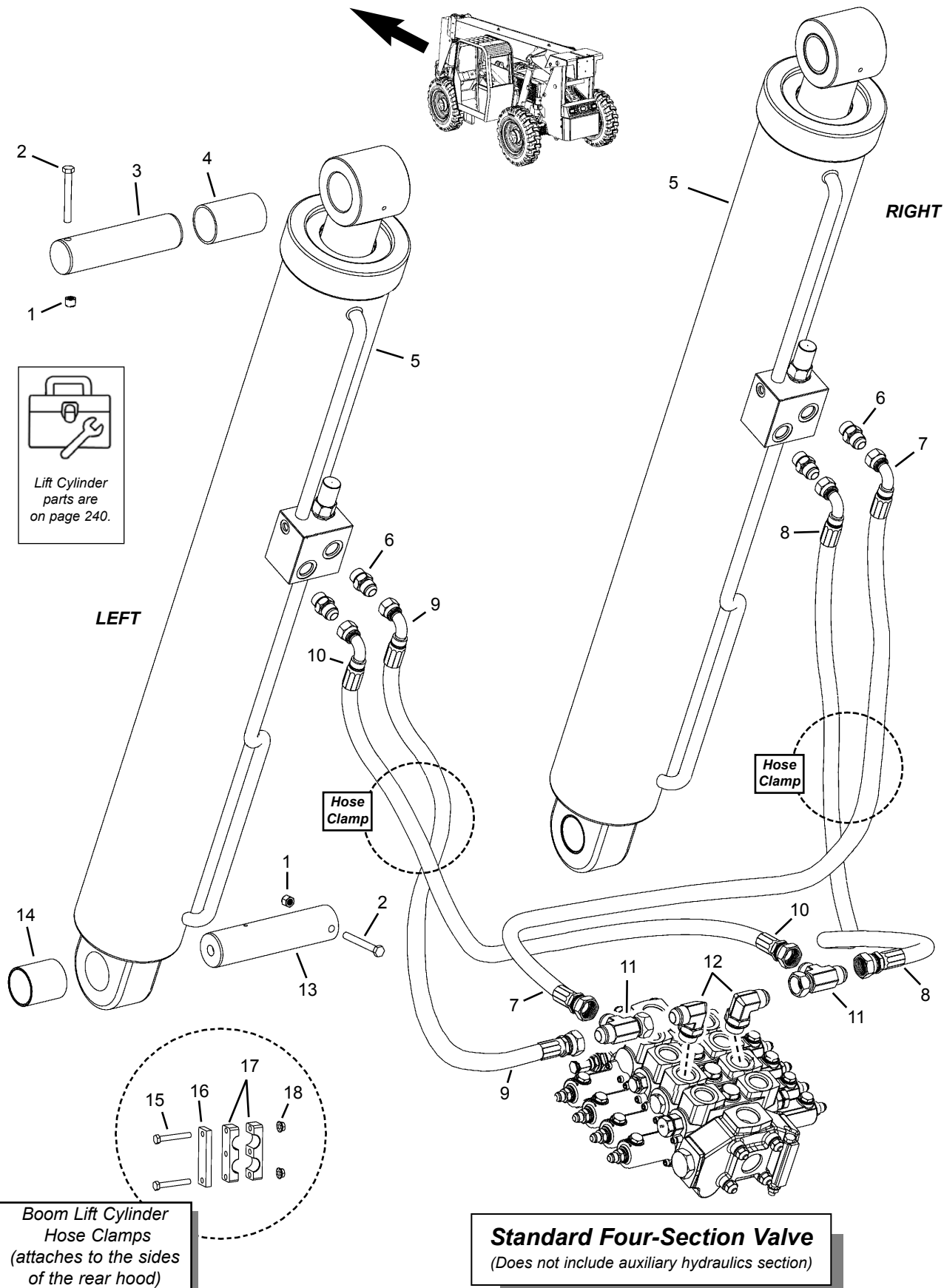




## Boom Hydraulics

### Boom Lift Circuit

## RS Series





## Telescopic Handler

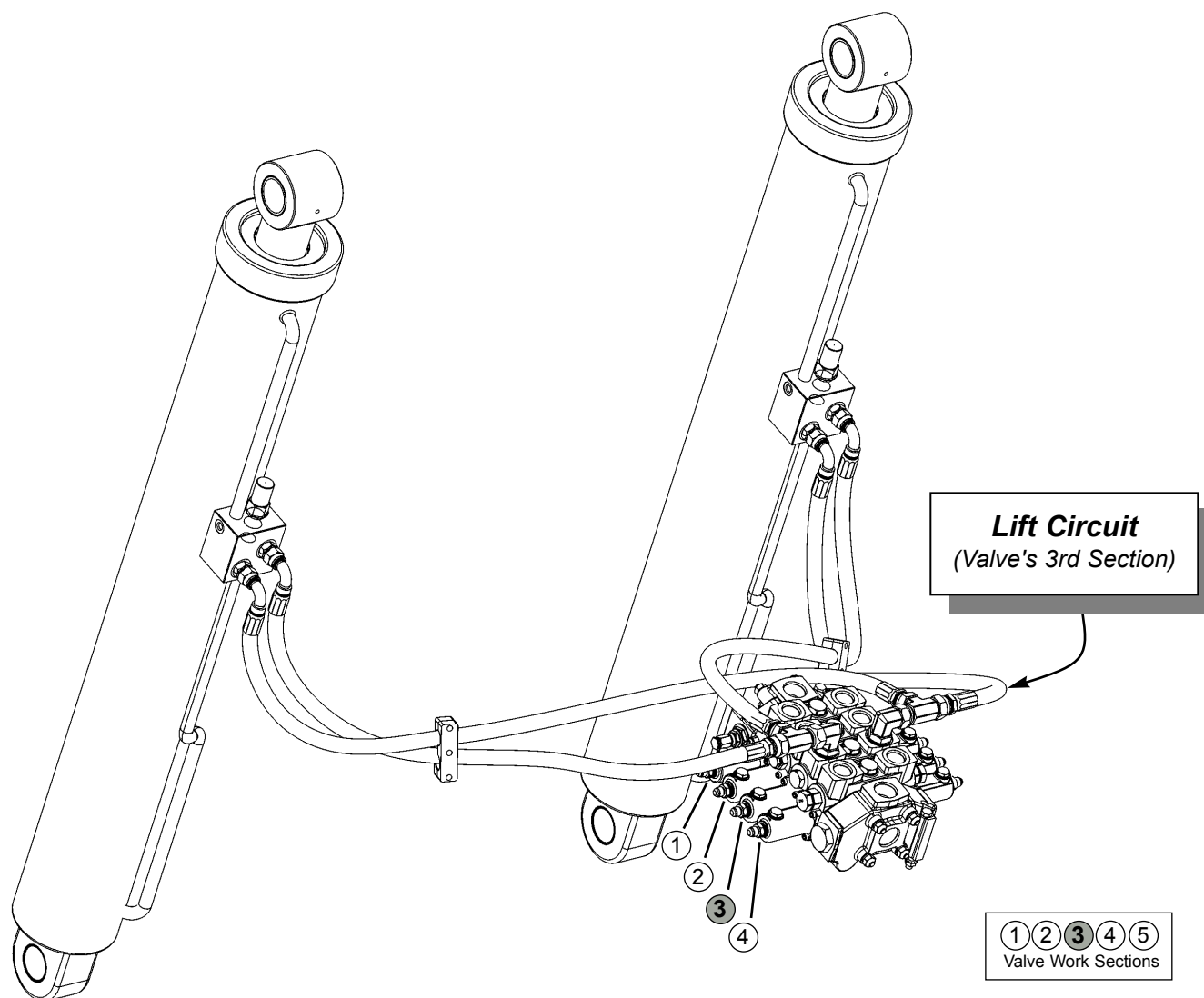
## Boom Hydraulics

### Boom Lift Circuit

| Ref. No.        | Part No. | Description                                     | Qty. Req. | Ref. No.        | Part No. | Description                                      | Qty. Req. |
|-----------------|----------|-------------------------------------------------|-----------|-----------------|----------|--------------------------------------------------|-----------|
| 01              | L520005  | 3/8" NYLON LOCK NUT . . . . .                   | 4         | 14              | L69138   | BUSHING ( <i>included with item 14</i> ) . . . 2 |           |
| 02              | 650818   | 3/8"x3" BOLT . . . . .                          | 4         | 15              | 650725   | CS 5/16" x 2-1/4" C5ZY . . . . .                 | 4         |
| 03              | L69600   | PIN, LIFT CYLINDER ROD END . . . 2              |           | 16 <sup>b</sup> | L63719   | PLATE, TWIN-WIDE TOP . . . . .                   | 2         |
| 04              | L69142   | BUSHING ( <i>included with item 5</i> ) . . . 2 |           | 17 <sup>b</sup> | L63720   | CUSHION, HOSE 7/8" TWIN . . . . .                | 4         |
| 05 <sup>a</sup> | L69135   | CYLINDER, LIFT . . . . .                        | 2         | 18              | L50056   | 5/16" FLANGE LOCK NUT . . . . .                  | AR        |
| 06              | 072580   | ADAP., -10ORM -10JICM ST. . . . .               | 4         |                 |          |                                                  |           |
| 07              | 50380310 | HOSE, -10 A12/DS10 60" . . . . .                | 1         |                 |          |                                                  |           |
| 08              | 50380310 | HOSE, -10 A12/DS10 60" . . . . .                | 1         |                 |          |                                                  |           |
| 09              | 50380310 | HOSE, -10 A12/DS10 60" . . . . .                | 1         |                 |          |                                                  |           |
| 10              | 50380310 | HOSE, -10 A12/DS10 60" . . . . .                | 1         |                 |          |                                                  |           |
| 11              | 056089   | TEE MJ12-FJS12-MJ12 . . . . .                   | 2         |                 |          |                                                  |           |
| 12              | 055005   | 90 MJ12-MAORB12 . . . . .                       | 2         |                 |          |                                                  |           |
| 13              | L69599   | PIN, LIFT CYL. BASE END . . . . .               | 2         |                 |          |                                                  |           |

*a Bushings are included with the lift cylinder.*

*b Refer to page 46; items 13, 18-20 for lift cylinder hose clamp locations on the chassis cover.*

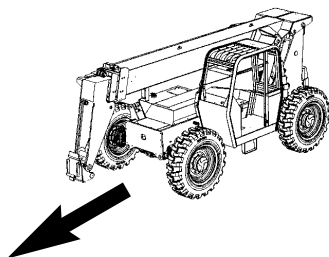
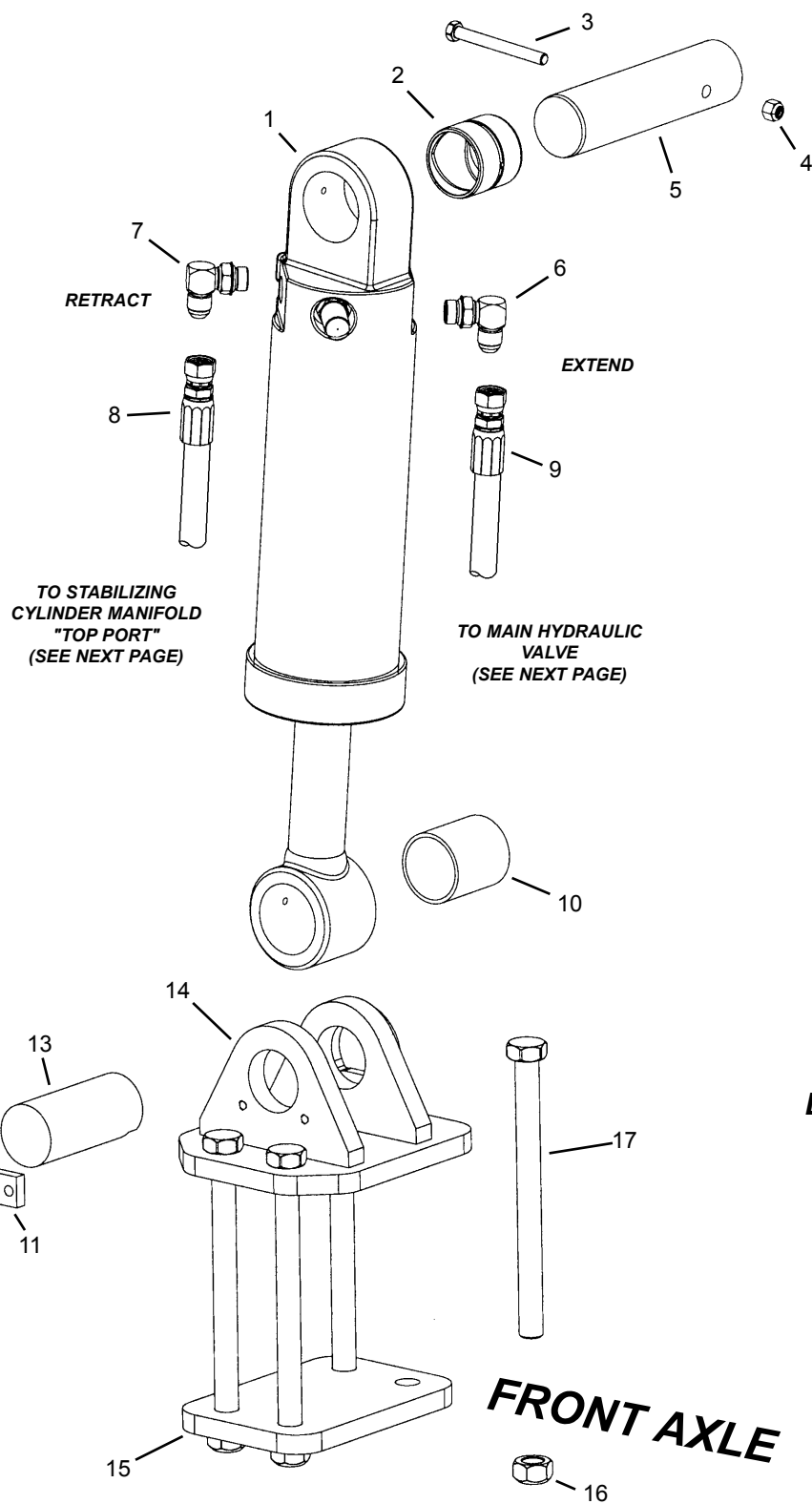
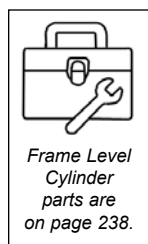




## Chassis Hydraulics

### Frame Level

## RS Series





## Telescopic Handler

## Chassis Hydraulics Frame Level

| Ref. No. | Part No. | Description                             | Qty. Req. | Ref. No. | Part No. | Description                              | Qty. Req. |
|----------|----------|-----------------------------------------|-----------|----------|----------|------------------------------------------|-----------|
| 01       | 102876   | LEVEL CYLINDER .....                    | 1         | 12       | 650487   | 5/16" X 1-1/4" BOLT .....                | 2         |
| 02       | L64367   | BRONZE BEARING .....                    | 1         | 13       | 210447   | PIVOT PIN ( <i>rod end</i> ) .....       | 1         |
| 03       | L50277   | 3/8"-16X3-1/2" BOLT .....               | 1         | 14       |          | FRAME LEVEL MNT ( <i>front axle</i> )... | 1         |
| 04       | L520005  | 3/8"-16 NYLON INSERT NUT .....          | 1         |          | 210558   | <i>Note x</i>                            |           |
| 05       | L63276   | PIN, CYLINDER ( <i>base end</i> ) ..... | 1         |          | 210173   | <i>Note y</i>                            |           |
| 06       | L66017   | ADAP., W/ORIFICE -8ORM -8JICM           | 1         | 15       |          | PLATE, MOUNT .....                       | 1         |
| 07       | 054816   | ADAP., -8ORM -8JICM 90° .....           | 1         |          | 210572   | <i>Note x</i>                            |           |
| 08       |          | HOSE, -8 A8/A8 .....                    | 1         |          | 210421   | <i>Note y</i>                            |           |
|          | 102860   | <i>Note x (168" long)</i>               |           | 16       | L50084   | 3/4"-10 STOVER NUT .....                 | 4         |
|          | 102873   | <i>Note y (190" long)</i>               |           | 17       |          | BOLT .....                               | 4         |
| 09       | 102873   | HOSE, -8 A8/A8 190" .....               | 1         |          | L50712   | ( <i>Note x</i> )—3/4"-10X9" GR8         |           |
| 10       | L63016   | BRONZE BEARING .....                    | 1         |          | 651567   | ( <i>Note y</i> )—3/4"-10X10" GR8        |           |
| 11       | L63715   | PLATE .....                             | 1         |          |          |                                          |           |
|          |          |                                         |           | x        |          | Only RS6-42 and RS8-42/44                |           |
|          |          |                                         |           | y        |          | Only RS10-44/55 and RS12-42              |           |

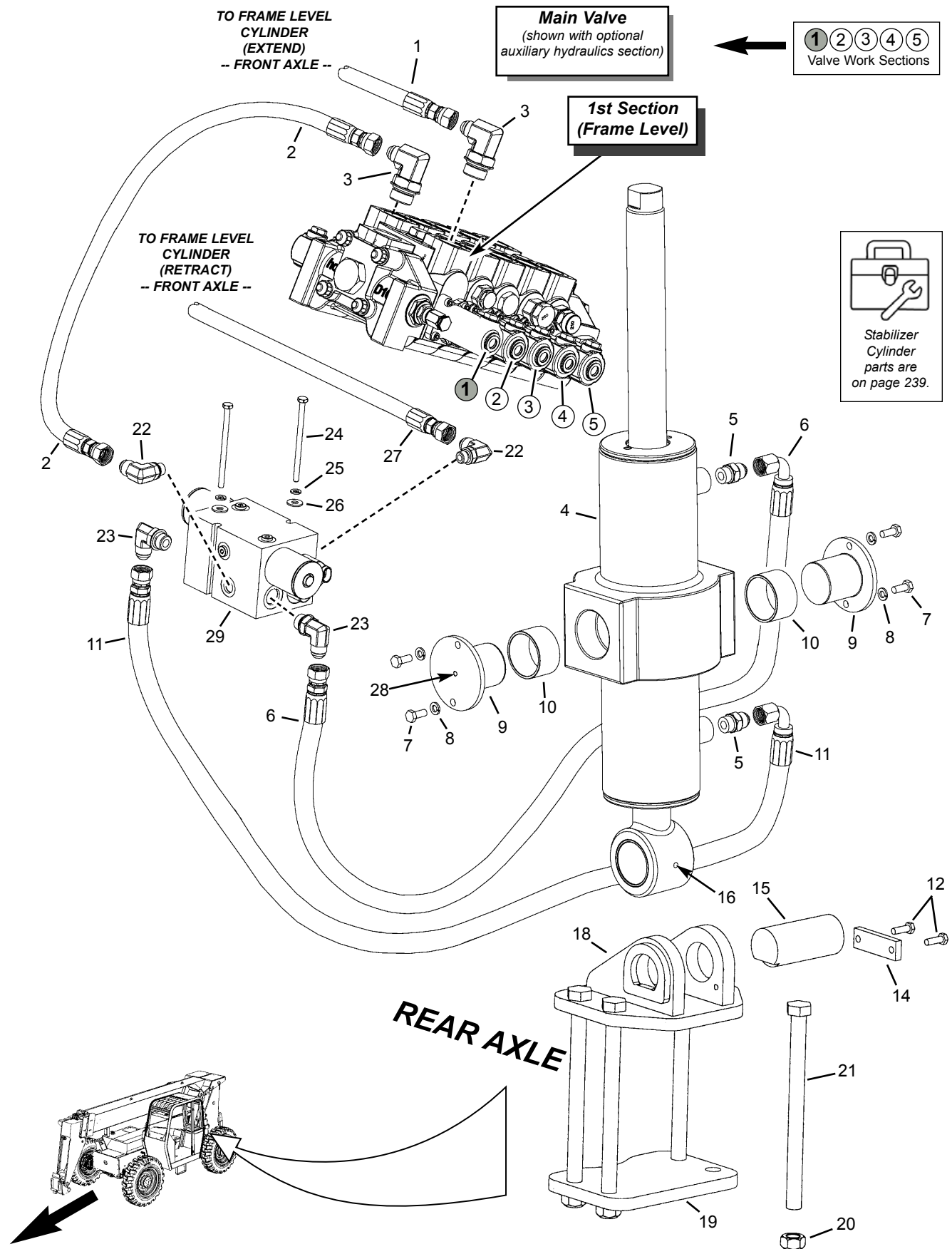




## Chassis Hydraulics

### Frame Stabilizing

## RS Series





## Telescopic Handler

## Chassis Hydraulics Frame Stabilizing

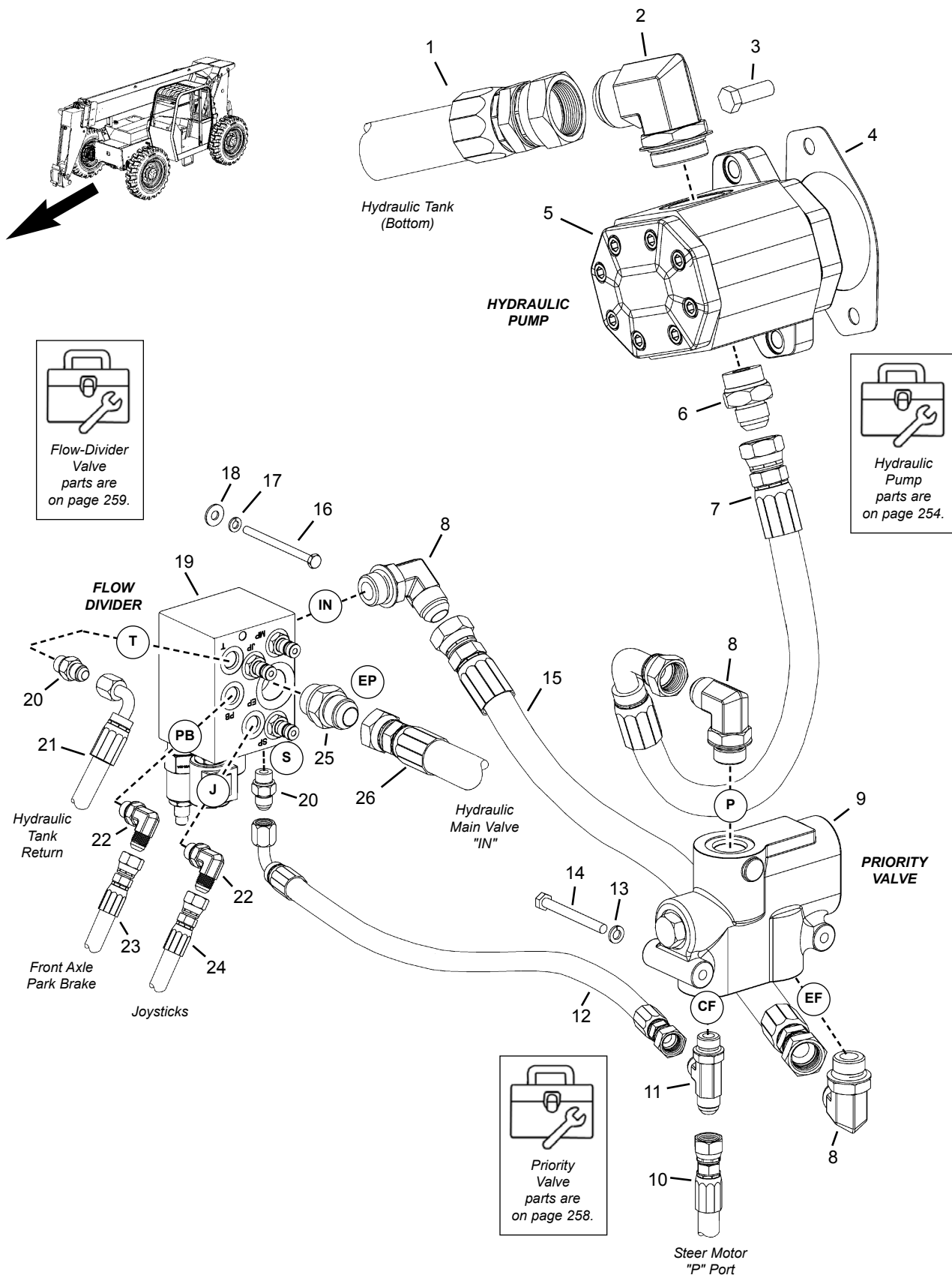
| Ref. No. | Part No. | Description                                     | Qty. Req. | Ref. No. | Part No. | Description                                     | Qty. Req. |
|----------|----------|-------------------------------------------------|-----------|----------|----------|-------------------------------------------------|-----------|
| 01       | 102873   | HOSE, -8 A8/A8 190" . . . . .                   | 1         | 19       |          | PLATE, MOUNT . . . . .                          | 1         |
| 02       | L68817   | HOSE, -6 A8/A8 28" . . . . .                    | 1         |          | 210572   | <i>Note x</i>                                   |           |
| 03       | 121775   | ADAP., -12ORM -8JICM 90° . . . . .              | 2         |          | 210421   | <i>Note y</i>                                   |           |
| 04       | 102247   | FRAME STABILIZING CYLINDER . 1                  |           | 20       | L50084   | 3/4"-10 NUT GR8 . . . . .                       | 4         |
| 05       | 054626   | ADAP., -8ORM -8JICM STR . . . . .               | 2         | 21       |          | BOLT . . . . .                                  | 4         |
| 06       | 102858   | HOSE, -8 A8/DS8 46" . . . . .                   | 1         |          | L50712   | ( <i>Note x</i> )—3/4"-10X9" GR8                |           |
| 07       | 650486   | 5/16"-18X3/4" BOLT . . . . .                    | 4         |          | 651567   | ( <i>Note y</i> )—3/4"-10X10" GR8               |           |
| 08       | 654024   | 5/16" LOCK WASHER. . . . .                      | 4         | 22       | 114824   | ADAP., -6ORM -8JICM 90° . . . . .               | 2         |
| 09       | L69776   | TRUNNION PIVOT PIN. . . . .                     | 2         | 23       | 054816   | ADAP., -8ORM -8JICM 90° . . . . .               | 2         |
| 10       | L69774   | BUSHING . . . . .                               | 2         | 24       | 102774   | 1/4"-20X4" BOLT GR5. . . . .                    | 2         |
| 11       | 102858   | HOSE, -8 A8/DS8 46" . . . . .                   | 1         | 25       | L50139   | 1/4" LOCK WASHER. . . . .                       | 2         |
| 12       | 650487   | 5/16" X 1-1/4" BOLT . . . . .                   | 2         | 26       | 654002   | FW 1/4" AWZY. . . . .                           | 2         |
| 14       | L63715   | LOCK, PIVOT PIN. . . . .                        | 1         | 27       |          | HOSE, -8 A8/A8. . . . .                         | 1         |
| 15       | 210447   | LEVEL CYL. PIN ( <i>rod end</i> ) . . . . .     | 1         |          | 102860   | <i>Note x</i> (168" long)                       |           |
| 16       | L10057   | 1/4"-28 ZERK 90° ( <i>not shown</i> ) . . . . . | 1         |          | 102873   | <i>Note y</i> (190" long)                       |           |
| 17       | L69138   | BUSHING ( <i>rod end</i> ). . . . .             | 1         | 28       | L10465   | 1/4"-28 ZERK STR ( <i>not shown</i> ) . . . . . | 1         |
| 18       |          | STABILIZING MOUNT ( <i>rear axle</i> ) . . 1    |           | 29       | 102877   | MANIFOLD, STABILIZING CYL. . . . .              | 1         |
|          | 210168   | <i>Note x</i>                                   |           |          | 50380318 | WIRE HARNESS, STABILIZER . . . . .              | 1         |
|          | 210198   | <i>Note y</i>                                   |           |          |          | ( <i>not shown</i> )                            |           |
|          |          |                                                 |           | x        |          | Only RS6-42 and RS8-42/44                       |           |
|          |          |                                                 |           | y        |          | Only RS10-44/55 and RS12-42                     |           |



## Hydraulics

## RS Series

### Hydraulic Pump and Flow Divider Circuit



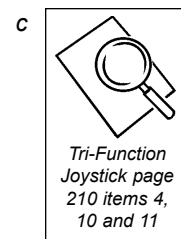
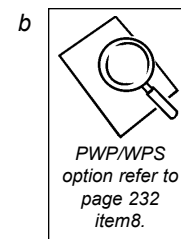
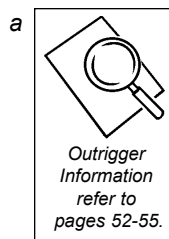


## Telescopic Handler

## Hydraulics

## Hydraulic Pump and Flow Divider Circuit

| Ref. No.        | Part No. | Description                         | Qty. Req. | Ref. No.        | Part No. | Description                                                                                                                                                                                                                                                                                                                                           | Qty. Req. |
|-----------------|----------|-------------------------------------|-----------|-----------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 01              | L63309   | HOSE, -24 A24/A24 35" . . . . .     | 1         | 22              | 068938   | 90 MJ06-MAORB06 . . . . .                                                                                                                                                                                                                                                                                                                             | 2         |
| 02              | L445010  | ADAP., -24ORM -24JICM 90° . . . . . | 1         | 23              | 102839   | HOSE, -6 A6/A6 57" . . . . .                                                                                                                                                                                                                                                                                                                          | 1         |
| 03              | 650453   | CS 1/2"x1-1/2" C5ZY . . . . .       | 2         | 24 <sup>b</sup> |          | HOSE, -4 A6/A6 . . . . .                                                                                                                                                                                                                                                                                                                              | 1         |
| 04              | L46865   | GASKET . . . . .                    | 1         |                 | 102786   | Standard Equipped—54" long                                                                                                                                                                                                                                                                                                                            |           |
| 05              | 102498   | HYDRAULIC PUMP . . . . .            | 1         |                 | L63381   | PWP/WPS Equipped—15" long                                                                                                                                                                                                                                                                                                                             |           |
| 06              | 121774   | ST MJ12-MORB16 . . . . .            | 1         | 25 <sup>a</sup> | 072587   | ADAP., -12ORM -12JICM . . . . .                                                                                                                                                                                                                                                                                                                       | 1         |
| 07              | 104092   | HOSE, -12 A12/DM12 23" . . . . .    | 1         | 26 <sup>a</sup> | L63406   | HOSE, -12 A12/DS12 114" . . . . .                                                                                                                                                                                                                                                                                                                     | 1         |
| 08              | 055005   | ADAP., -12ORM -12JICM . . . . .     | 3         |                 |          |                                                                                                                                                                                                                                                                                                                                                       |           |
| 09              | 104132   | PRIORITY VALVE . . . . .            | 1         |                 |          |                                                                                                                                                                                                                                                                                                                                                       |           |
| 10              | 102835   | HOSE, -6 A8/DS8 50" . . . . .       | 1         | a               |          | If the unit is equipped with the outrigger option, there will be two additional hoses: hose P/N 102814 (-12 A12/DS12 74" ) attaches to fitting (item #10) and the outrigger valve; hose P/N 210799 (-12 H12/A12 41") returns from the outrigger valve and connects to the existing hose—item 11. For more outrigger information refer to pages 52-55. |           |
| 11              | 114742   | ADAP., -8ORM -8JICM TEE . . . . .   | 1         |                 |          |                                                                                                                                                                                                                                                                                                                                                       |           |
| 12              | 102836   | HOSE, -6 A8/DS6 19" . . . . .       | 1         |                 |          |                                                                                                                                                                                                                                                                                                                                                       |           |
| 13              | 654024   | LW 5/16 RZY . . . . .               | 2         |                 |          |                                                                                                                                                                                                                                                                                                                                                       |           |
| 14              | 650833   | CS 5/16"x3" C5ZY . . . . .          | 2         |                 |          |                                                                                                                                                                                                                                                                                                                                                       |           |
| 15              | L64311   | HOSE, -12 A12/A12 21" . . . . .     | 1         | b               |          | If the unit is equipped with the PWP/WPS option, use hose L63381 (15" long) to connect to the "P" port on the PWP/WPS valve. Also, units with the single (Tri-Function) joystick have a tee fitting between the 90° fitting and the hose, refer to page 232; item 8.                                                                                  |           |
| 16              | L50217   | CS 1/4-20x3-1/2" C5ZY . . . . .     | 2         |                 |          |                                                                                                                                                                                                                                                                                                                                                       |           |
| 17              | L50139   | LW 1/4" . . . . .                   | 2         |                 |          |                                                                                                                                                                                                                                                                                                                                                       |           |
| 18              | 654002   | FW 1/4" AWZY . . . . .              | 2         |                 |          |                                                                                                                                                                                                                                                                                                                                                       |           |
| 19              | 102313   | FLOW DIVIDER VALVE . . . . .        | 1         |                 |          |                                                                                                                                                                                                                                                                                                                                                       |           |
| 20              | 054994   | ADAP., -6ORM -6JICM . . . . .       | 2         | c               |          | Units with the single (Tri-Function) joystick will have tee fitting between this hose and the straight fitting shown here. Refer to page 210 items 4, 10, and 11 for more information.                                                                                                                                                                |           |
| 21 <sup>c</sup> | 102946   | HOSE, -6 A6/DS6 18" . . . . .       | 1         |                 |          |                                                                                                                                                                                                                                                                                                                                                       |           |



## HOSE LOCATOR

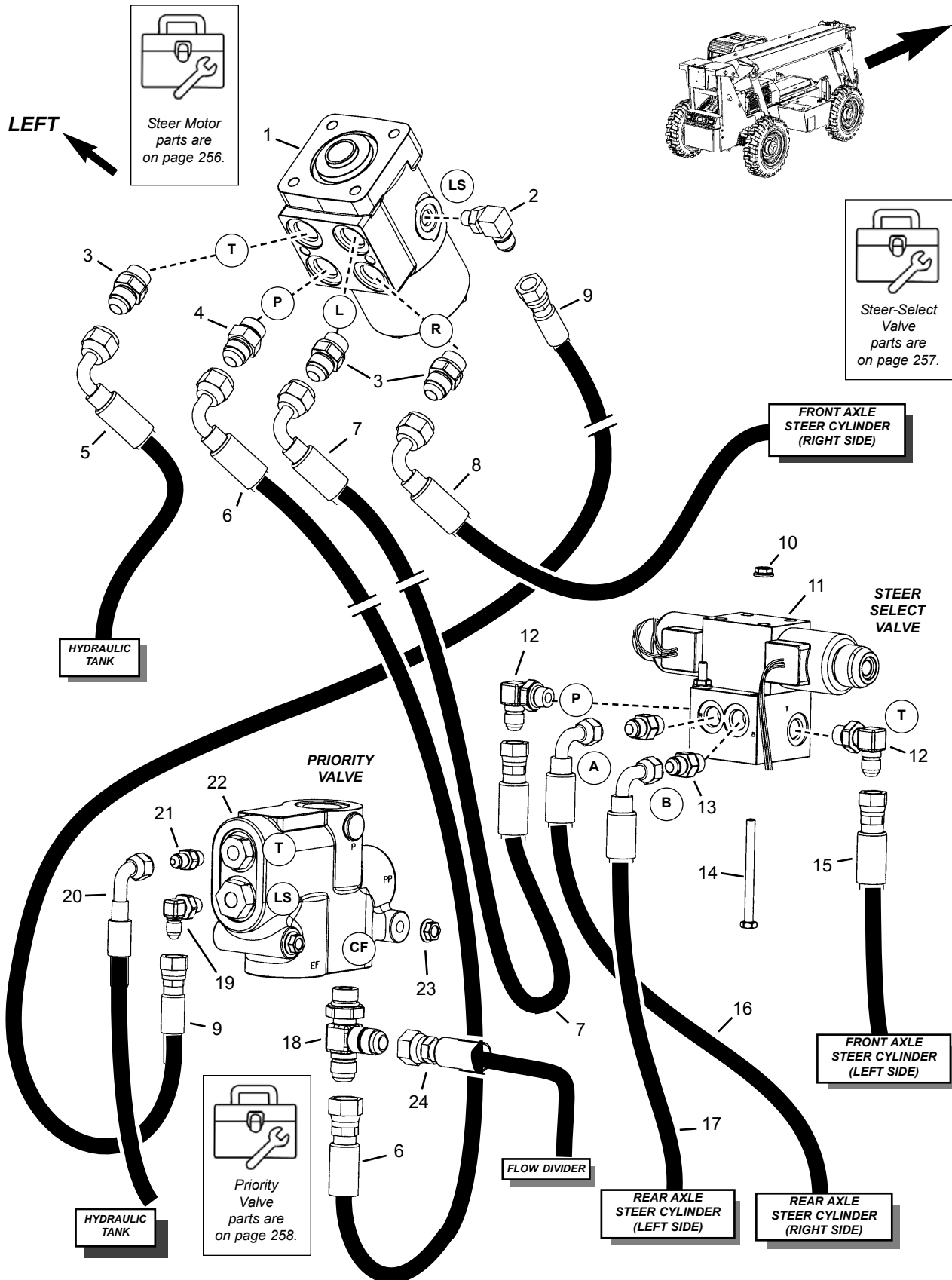
|                 |                                               |                                         |
|-----------------|-----------------------------------------------|-----------------------------------------|
| 01              | HYDRAULIC PUMP "IN"                           | HYDRAULIC TANK "BOTTOM - OUT"           |
| 07              | HYDRAULIC PUMP "OUT"                          | PRIORITY VALVE "P" (top of valve)       |
| 10              | PRIORITY VALVE "CF" (bottom of valve - tee)   | STEER MOTOR "P"                         |
| 12              | PRIORITY VALVE "CF" (bottom of valve - tee)   | FLOW DIVIDER "S" (bottom of valve)      |
| 15              | PRIORITY VALVE "EF" (bottom of valve)         | FLOW DIVIDER "IN" (side)                |
| 21              | FLOW DIVIDER "T" (front of valve)             | HYDRAULIC TANK RETURN (return manifold) |
| 23              | FLOW DIVIDER "PB" (front of valve)            | FRONT AXLE (park brake port)            |
| 24 <sup>b</sup> | FLOW DIVIDER "J" (front of valve)             | JOYSTICK POWER ("P" on joystick)        |
| 24 <sup>b</sup> | FLOW DIVIDER "J" (front of valve)             | PWP/WPS VALVE ("P")                     |
| 26 <sup>a</sup> | FLOW DIVIDER "EP" (front of valve) (STANDARD) | MAIN VALVE "IN"                         |
| 26 <sup>a</sup> | OUTRIGGER VALVE/HOSE (OUTRIGGER OPTION)       | MAIN VALVE "IN"                         |



# Hydraulics

## Steering

## RS Series

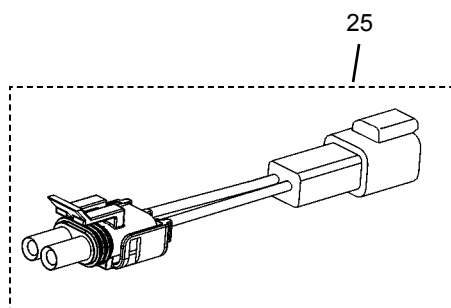




## Telescopic Handler

Hydraulics  
Steering

| Ref. No. | Part No. | Description                       | Qty. Req. | Ref. No. | Part No. | Description                       | Qty. Req. |
|----------|----------|-----------------------------------|-----------|----------|----------|-----------------------------------|-----------|
| 01       | 101880   | STEER MOTOR . . . . .             | 1         | 15       |          | HOSE, -6 A6/A8. . . . .           | 1         |
| 02       | 095601   | ADAP., -4ORM -4JICM 90° . . . . . | 1         |          | 102848   | (Note x)—48" long                 |           |
| 03       | 054626   | ADAP., -8ORM -8JICM STR . . . . . | 3         |          | L69933   | (Note y)—56" long                 |           |
| 04       | L64524   | VALVE, CHECK . . . . .            | 1         | 16       | L69936   | HOSE, -6 A6/A8 100" . . . . .     | 1         |
| 05       | L63383   | HOSE, -6 A6/DS8 52" . . . . .     | 1         | 17       | L69936   | HOSE, -6 A6/A8 100" . . . . .     | 1         |
| 06       | 102835   | HOSE, -6 A8/DS8 50" . . . . .     | 1         | 18       | 114742   | ADAP., -8ORM -8JICM TEE . . . . . | 1         |
| 07       | 102846   | HOSE, -6 A6/DS8 58" . . . . .     | 1         | 19       | 095601   | ADAP., -4ORM -4JICM 90° . . . . . | 1         |
| 08       |          | HOSE, -6 A8/DS8 . . . . .         | 1         | 20       | L69904   | HOSE, -4 A6/DS6 20" . . . . .     | 1         |
|          | 102847   | (Note x)—82" long                 |           | 21       | 129124   | ADAP., -6ORM -4JICM STR . . . . . | 1         |
|          | 210460   | (Note y)—98" long                 |           | 22       | 104132   | PRIORITY VALVE . . . . .          | 1         |
| 09       | 102837   | HOSE, -4 A4/A4 52" . . . . .      | 1         | 23       | L50056   | 5/16"-18 WHIZ LOCK NUT . . . . .  | 2         |
| 10       | L50051   | 1/4"-20 WHIZ LOCK NUT . . . . .   | 2         | 24       | 102836   | HOSE, -6 A8/DS6 19" . . . . .     | 1         |
| 11       | L69747   | VALVE, STEER SELECT . . . . .     | 1         | 25       | 50380338 | WIRE HARNESS, JUMPER . . . . .    | 2         |
| 12       | 068938   | ADAP., -6ORM -6JICM 90° . . . . . | 2         |          |          | (steer select valve)              |           |
| 13       | 054994   | ADAP., -6ORM -6JICM STR . . . . . | 2         |          |          |                                   |           |
| 14       | L50535   | 1/4"-20X3" BOLT . . . . .         | 2         | x        |          | Only RS6-42 and RS8-42/44         |           |
|          |          |                                   |           | y        |          | Only RS10-44/55 and RS12-42       |           |



STEER SELECT VALVE JUMPER WIRE

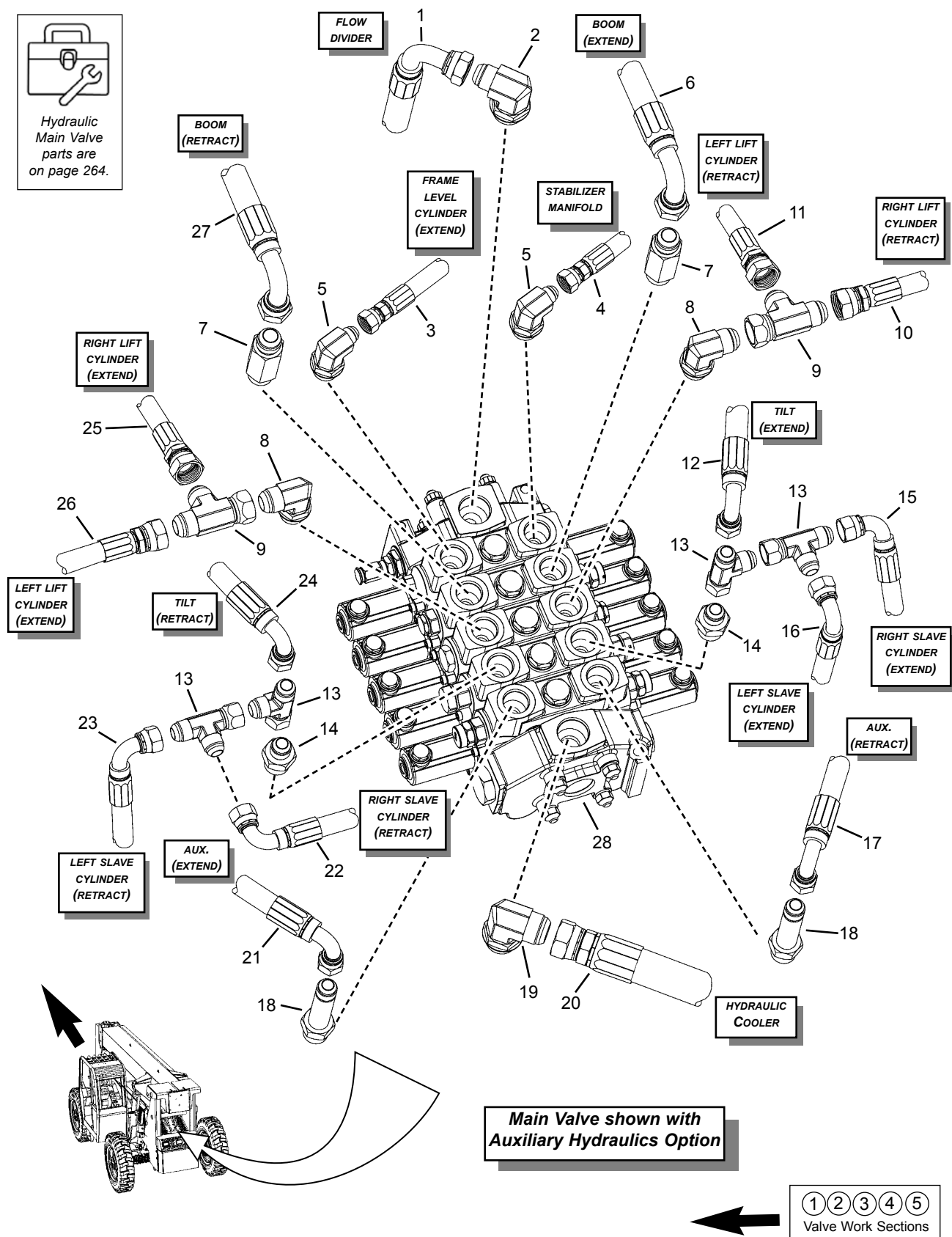
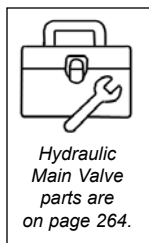




# Hydraulics

## Main Valve

## RS Series

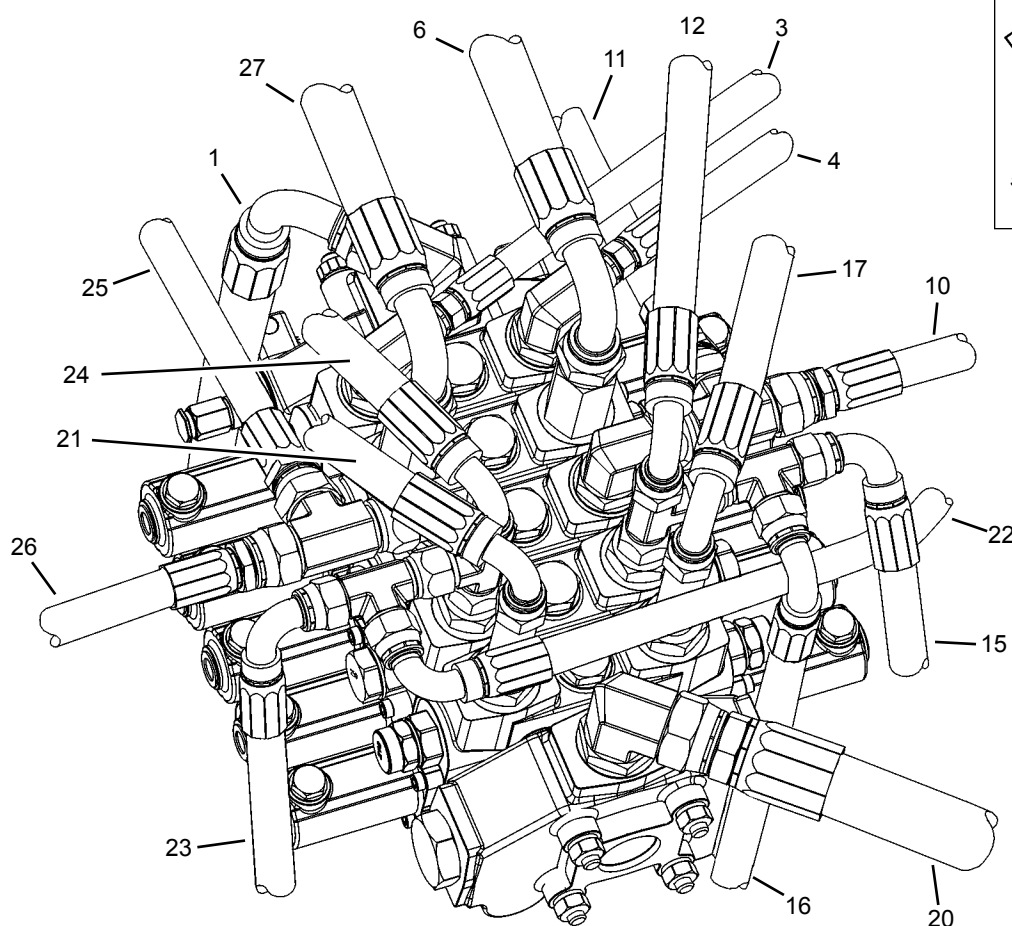




# Telescopic Handler

## Hydraulics Main Valve

| Ref. No. | Part No. | Description                         | Qty. Req. | Ref. No. | Part No. | Description                          | Qty. Req. |
|----------|----------|-------------------------------------|-----------|----------|----------|--------------------------------------|-----------|
| 01       | L63406   | HOSE, -12 A12/DS12 114" . . . . .   | 1         | 16       | 187351   | HOSE, -8 A8/DS10 62" . . . . .       | 1         |
| 02       | 121684   | ADAP., -16ORM -12JICM 90° . . . . . | 1         | 17       | 210428   | HOSE, -10 H10/DS10 52" . . . . .     | 1         |
| 03       | 102873   | HOSE, -8 A8/A8 190" . . . . .       | 1         | 18       | 210385   | ADAP., -12ORM -10JICM LNG . . . . .  | 2         |
| 04       | L68817   | HOSE, -8 A8/A8 28" . . . . .        | 1         | 19       | 077965   | ADAP., -16ORM -16JICM . . . . .      | 1         |
| 05       | 121775   | ADAP., -12ORM -8JICM 90° . . . . .  | 2         | 20       | 102849   | HOSE, -16 A16/A16 42" . . . . .      | 1         |
| 06       | 210429   | HOSE, -12 H12/DS12 50" . . . . .    | 1         | 21       | 210428   | HOSE, -10 H10/DS10 52" . . . . .     | 1         |
| 07       | 188973   | ADAP., -12ORM -12JICM LNG . . . . . | 2         | 22       | 187351   | HOSE, -8 A8/DS10 62" . . . . .       | 1         |
| 08       | 055005   | ADAP., -12ORM -12JICM . . . . .     | 2         | 23       | 187351   | HOSE, -8 A8/DS10 62" . . . . .       | 1         |
| 09       | 056089   | ADAP., -12 SWVL RUN TEE . . . . .   | 2         | 24       | 210428   | HOSE, -10 H10/DS10 52" . . . . .     | 1         |
| 10       | 50380310 | HOSE, -10 A12/DS10 60" . . . . .    | 1         | 25       | 50380310 | HOSE, -10 A12/DS10 60" . . . . .     | 1         |
| 11       | 50380310 | HOSE, -10 A12/DS10 60" . . . . .    | 1         | 26       | 50380310 | HOSE, -10 A12/DS10 60" . . . . .     | 1         |
| 12       | 210428   | HOSE, -10 H10/DS10 52" . . . . .    | 1         | 27       | 210429   | HOSE, -12 H12/DS12 50" . . . . .     | 1         |
| 13       | 058610   | ADAP., -10 SWVL RUN TEE . . . . .   | 4         | 28       |          | MAIN VALVE . . . . .                 | 1         |
| 14       | 072602   | ADAP., -12ORM -10JICM . . . . .     | 2         |          | 102356   | Without Aux. Hydraulics (4-sections) |           |
| 15       | 187351   | HOSE, -8 A8/DS10 62" . . . . .      | 1         |          | 210320   | With Aux. Hydraulics (5-sections)    |           |



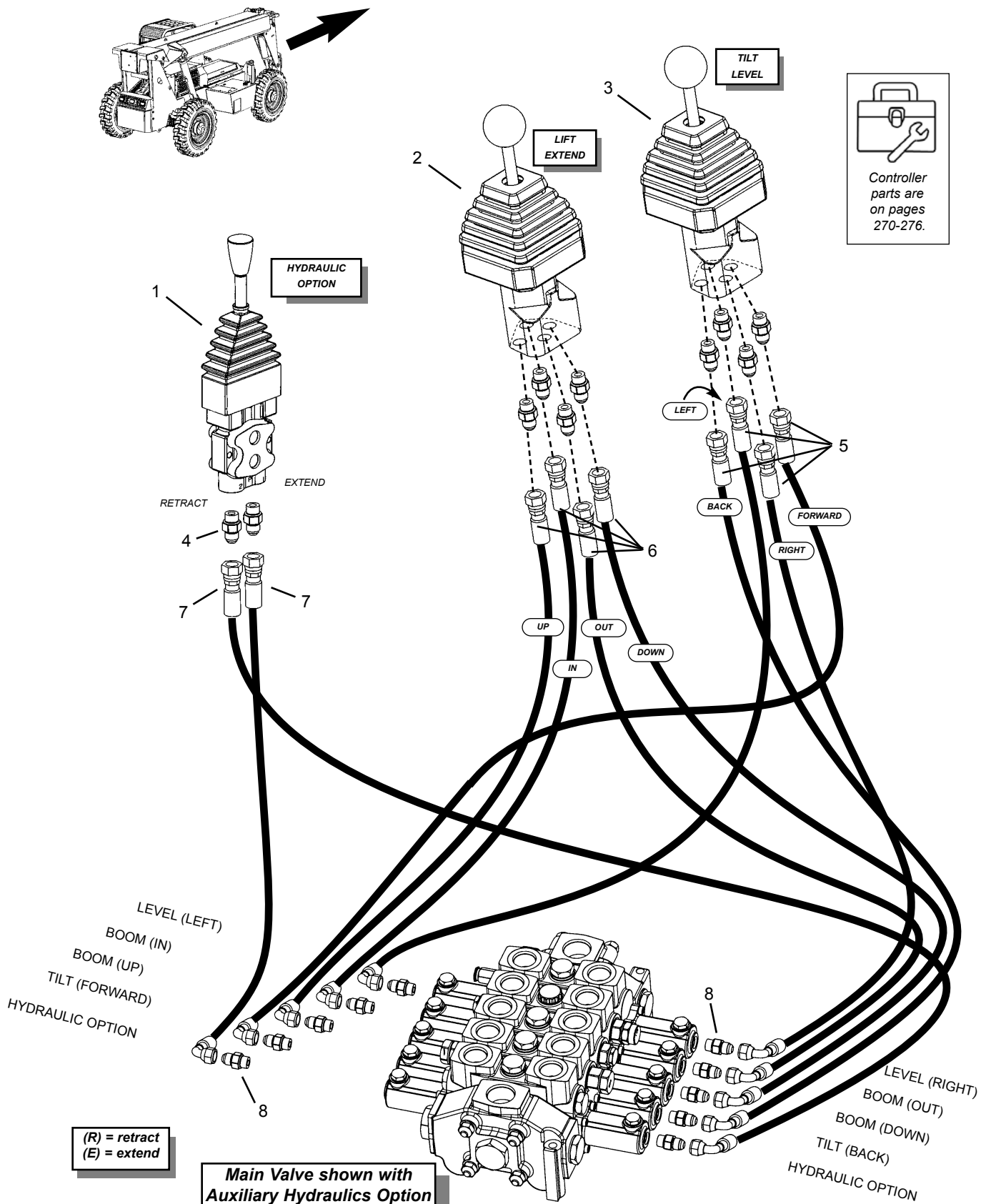




# Hydraulics

## Main Valve - Dual Controllers

## RS Series





Telescopic Handler

Hydraulics

Main Valve - Dual Controllers

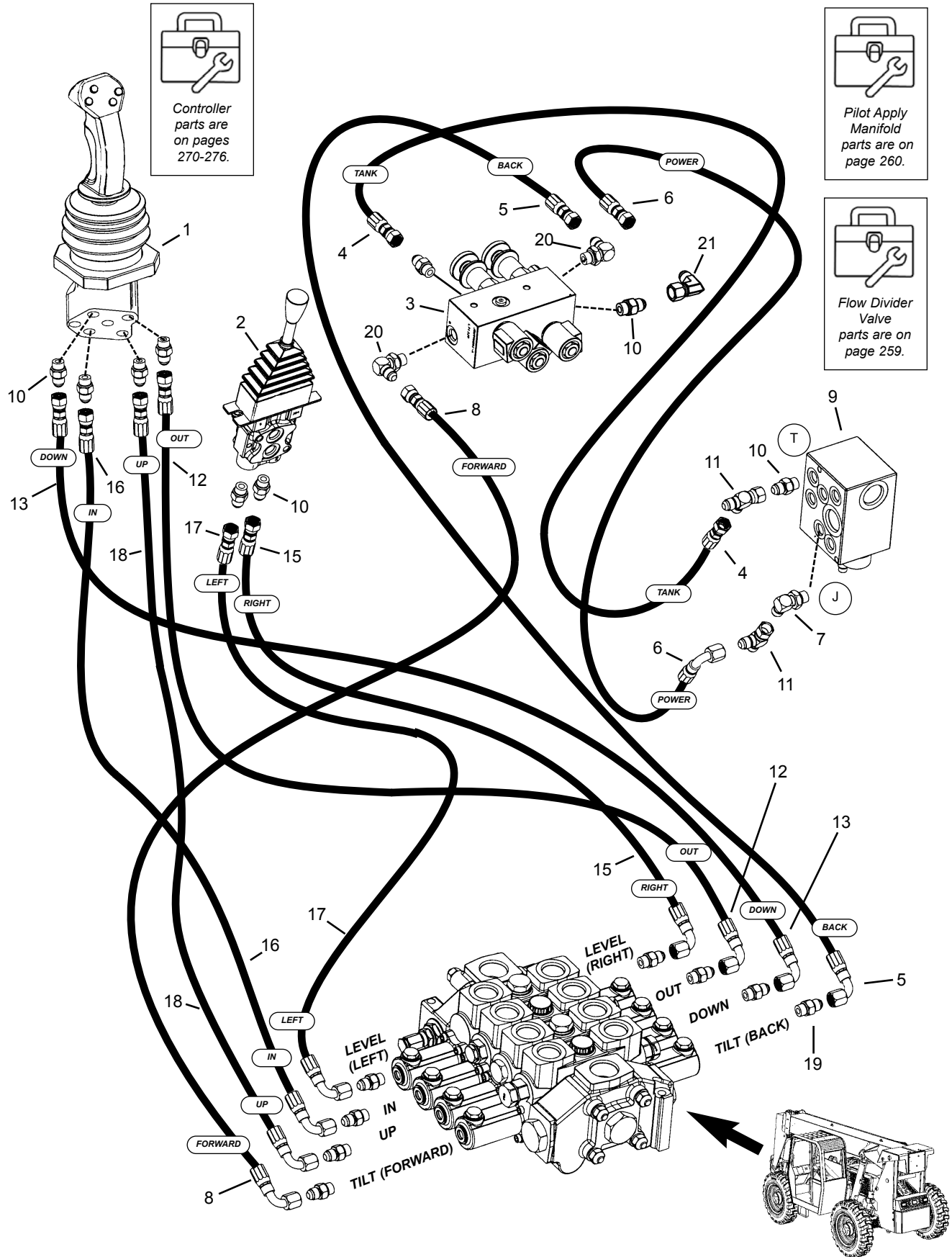
| Ref. No. | Part No. | Description                     | Qty. Req. | Ref. No. | Part No. | Description                     | Qty. Req. |
|----------|----------|---------------------------------|-----------|----------|----------|---------------------------------|-----------|
| 01       | 102435   | CONTROLLER, AUX. HYD. . . . .   | 1         | 05       | 102845   | HOSE, -4 A6/DS6 120" . . . . .  | 4         |
| 02       | 102434   | CONTROLLER, LIFT/EXTEND. . . .  | 1         | 06       | 102844   | HOSE, -4 A6/DS6 108" . . . . .  | 4         |
| 03       | 102784   | CONTROLLER, TILT/LEVEL. . . . . | 1         | 07       | 102831   | HOSE, -4 A6/DS6 102" . . . . .  | 2         |
| 04       | 054994   | ADAP., -6ORM -6JICM STR. . . .  | AR        | 08       | 103194   | ADAP., 1/4BSP -6JICM STR. . . . | AR        |



## Hydraulics

### Main Valve - Tri-Function Controller

## RS Series





## Telescopic Handler

## Hydraulics

### Main Valve - Tri-Function Controller

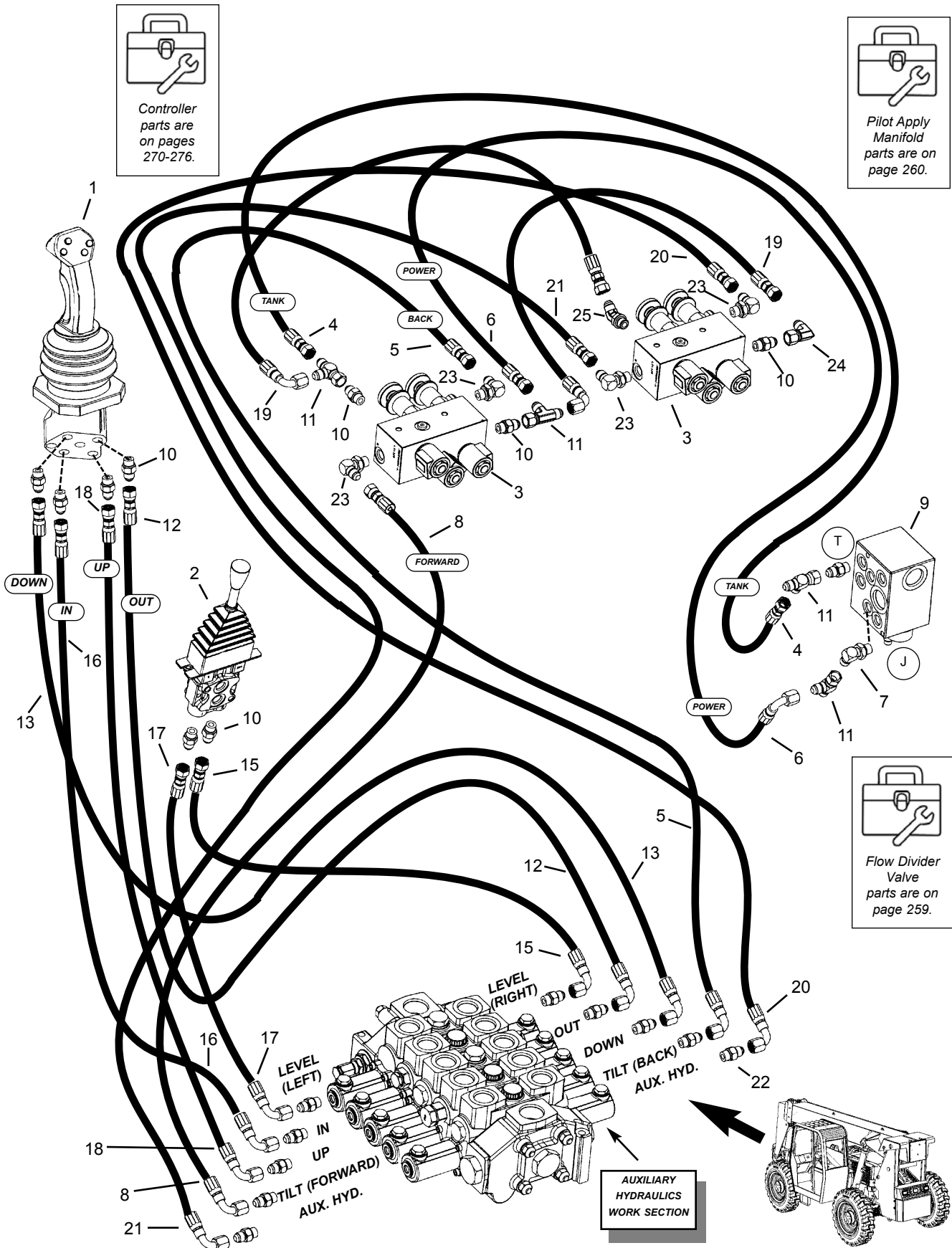
| Ref. No. | Part No. | Description                     | Qty. Req. | Ref. No. | Part No. | Description                     | Qty. Req. |
|----------|----------|---------------------------------|-----------|----------|----------|---------------------------------|-----------|
| 01       | 104083   | CONTROLLER, TRI-FUNCTION . .    | 1         | 13       | 102845   | HOSE, -4 A6/DS6 120" . . . . .  | 1         |
| 02       | 102435   | CONTROLLER . . . . .            | 1         | 15       | 102844   | HOSE, -4 A6/DS6 108" . . . . .  | 1         |
| 03       | 106898   | PILOT APPLY MANIFOLD. . . . .   | 1         | 16       | 102845   | HOSE, -4 A6/DS6 120" . . . . .  | 1         |
| 04       | 102786   | HOSE, -4 A6/A6 54" . . . . .    | 1         | 17       | 102844   | HOSE, -4 A6/DS6 108" . . . . .  | 1         |
| 05       | L68809   | HOSE, -4 A6/DS6 136" . . . . .  | 1         | 18       | 102845   | HOSE, -4 A6/DS6 120" . . . . .  | 1         |
| 06       | 103318   | HOSE, -4 A6/DS6 52" . . . . .   | 1         | 19       | 103194   | ADAP., 1/4BSP -6JICM STR. . . . | AR        |
| 07       | 068938   | ADAP., -6ORM -6JICM 90° . . . . | 1         | 20       | 068938   | ADAP., -6ORM -6JICM 90° . . . . | 2         |
| 08       | 102845   | HOSE, -4 A6/DS6 120" . . . . .  | 1         | 21       | 091039   | ADAP., 90 MJ06-FJS06. . . . .   | 1         |
| 09       | 102313   | FLOW DIVIDER VALVE . . . . .    | 1         |          |          |                                 |           |
| 10       | 054994   | ADAP., -6ORM -6JICM STR. . . .  | AR        |          |          | <b>-- ITEMS NOT SHOWN--</b>     |           |
| 11       | 072806   | ADAP., -6JIC SWIVEL . . . . .   | AR        | --       | 104216   | HARNESS, TRI-FUNCTION CTRL. .   | 1         |
| 12       | 102845   | HOSE, -4 A6/DS6 120" . . . . .  | 1         |          |          |                                 |           |



## Hydraulics

## RS Series

### Main Valve - Tri-Function Controller - w/Auxiliary Hydraulics



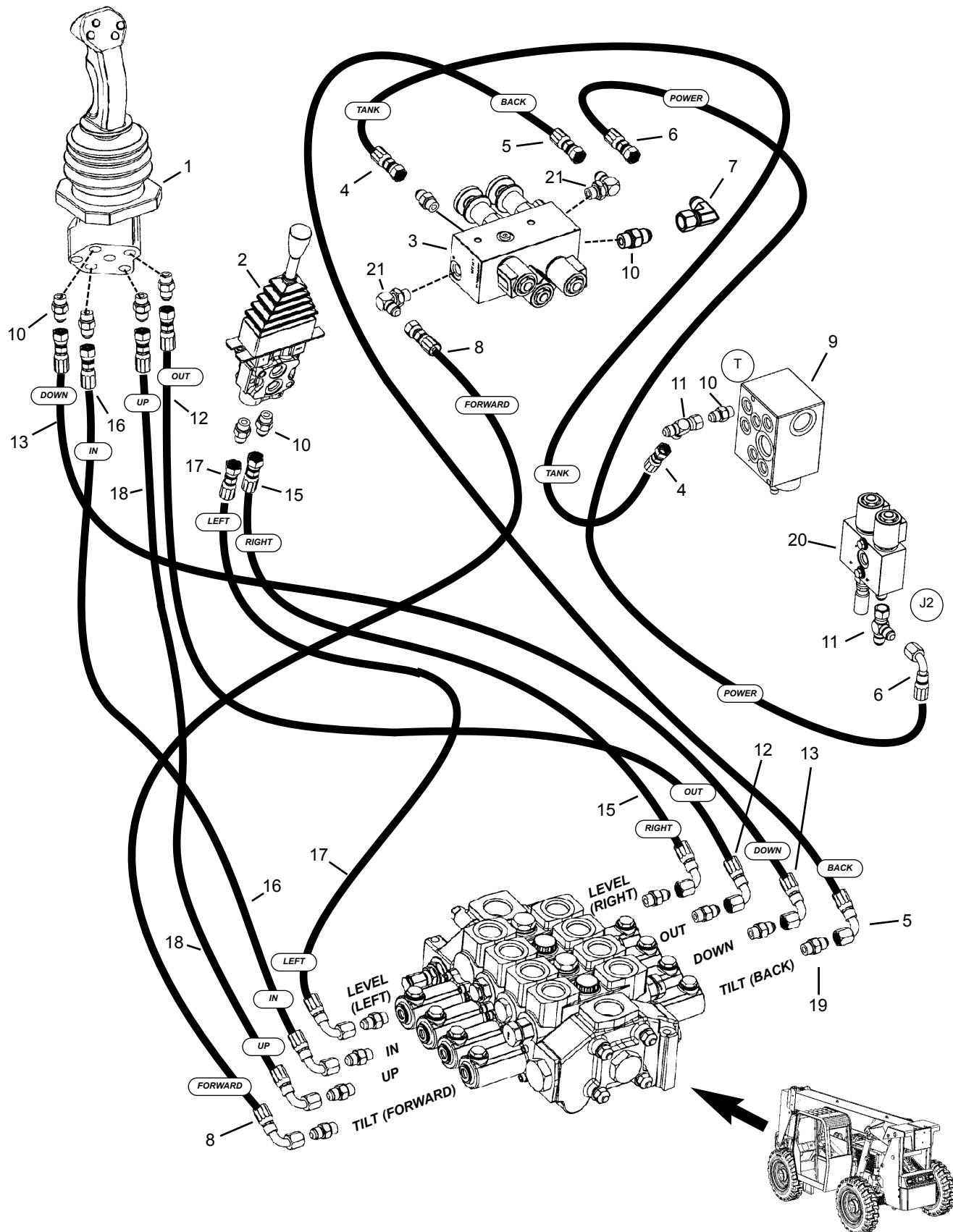
**Telescopic Handler****Hydraulics*****Main Valve - Tri-Function Controller - w/Auxiliary Hydraulics***

| Ref.<br>No. | Part<br>No. | Description                   | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                    | Qty.<br>Req. |
|-------------|-------------|-------------------------------|--------------|-------------|-------------|--------------------------------|--------------|
| 01          | 104083      | CONTROLLER, TRI-FUNCTION ..   | 1            | 16          | 102845      | HOSE, -4 A6/DS6 120" .....     | 1            |
| 02          | 102435      | CONTROLLER .....              | 1            | 17          | 102844      | HOSE, -4 A6/DS6 108" .....     | 1            |
| 03          | 106898      | PILOT APPLY MANIFOLD. ....    | 2            | 18          | 102845      | HOSE, -4 A6/DS6 120" .....     | 1            |
| 04          | 102786      | HOSE, -4 A6/A6 54" .....      | 1            | 19          | L69903      | HOSE, -4 A6/DS6 17" .....      | 2            |
| 05          | L68809      | HOSE, -4 A6/DS6 136" .....    | 1            | 20          | 104221      | HOSE, -4 A6/DS6 165" .....     | 1            |
| 06          | 103318      | HOSE, -4 A6/DS6 52" .....     | 1            | 21          | 104220      | HOSE, -4 A6/DS6 156" .....     | 1            |
| 07          | 068938      | ADAP., -6ORM -6JICM 90°. .... | AR           | 22          | 103194      | ADAP., 1/4BSP -6JICM STR. .... | AR           |
| 08          | 102845      | HOSE, -4 A6/DS6 120" .....    | 1            | 23          | 068938      | ADAP., -6ORM -6JICM 90° .....  | 4            |
| 09          | 102313      | FLOW DIVIDER VALVE .....      | 1            | 24          | 091039      | ADAP., 90 MJ06-FJS06. ....     | 1            |
| 10          | 054994      | ADAP., -6ORM -6JICM STR. .... | AR           | 25          | 079026      | ADAP., 45 MJ06-MAORB06 .....   | 1            |
| 11          | 072806      | ADAP., -6JIC SWIVEL .....     | AR           |             |             | <b>-- ITEMS NOT SHOWN--</b>    |              |
| 12          | 102845      | HOSE, -4 A6/DS6 120" .....    | 1            | --          | 104216      | HARNESS, TRI-FUNCTION CNTL. .  | 1            |
| 13          | 102845      | HOSE, -4 A6/DS6 120" .....    | 1            |             |             |                                |              |
| 15          | 102844      | HOSE, -4 A6/DS6 108" .....    | 1            |             |             |                                |              |

# Hydraulics

### ***Main Valve - Tri-Function Controller - w/PWP***

## RS Series



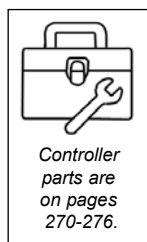
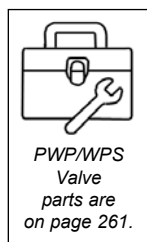
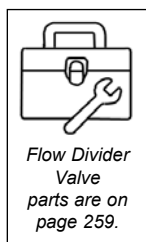
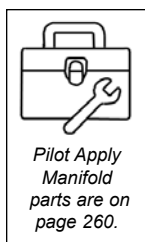


# Telescopic Handler

# Hydraulics

## Main Valve - Tri-Function Controller - w/PWP

| Ref. No. | Part No. | Description                 | Qty. Req. | Ref. No. | Part No. | Description                   | Qty. Req. |
|----------|----------|-----------------------------|-----------|----------|----------|-------------------------------|-----------|
| 01       | 104083   | CONTROLLER, TRI-FUNCTION .. | 1         | 13       | 102845   | HOSE, -4 A6/DS6 120" .....    | 1         |
| 02       | 102435   | CONTROLLER .....            | 1         | 15       | 102844   | HOSE, -4 A6/DS6 108" .....    | 1         |
| 03       | 106898   | PILOT APPLY MANIFOLD.....   | 1         | 16       | 102845   | HOSE, -4 A6/DS6 120" .....    | 1         |
| 04       | 102786   | HOSE, -4 A6/A6 54" .....    | 1         | 17       | 102844   | HOSE, -4 A6/DS6 108" .....    | 1         |
| 05       | L68809   | HOSE, -4 A6/DS6 136" .....  | 1         | 18       | 102845   | HOSE, -4 A6/DS6 120" .....    | 1         |
| 06       | 103318   | HOSE, -4 A6/DS6 52" .....   | 1         | 19       | 103194   | ADAP., 1/4BSP -6JICM STR....  | AR        |
| 07       | 091039   | ADAP., 90 MJ06-FJS06.....   | 1         | 20       | 102321   | PWP/WPS VALVE .....           | 1         |
| 08       | 102845   | HOSE, -4 A6/DS6 120" .....  | 1         | 21       | 068938   | ADAP., -6ORM -6JICM 90° ..... | 2         |
| 09       | 102313   | FLOW DIVIDER VALVE .....    | 1         |          |          |                               |           |
| 10       | 054994   | ADAP., -6ORM -6JICM STR.... | AR        |          |          |                               |           |
| 11       | 072806   | ADAP., -6JIC SWIVEL .....   | AR        |          |          |                               |           |
| 12       | 102845   | HOSE, -4 A6/DS6 120" .....  | 1         |          |          |                               |           |
|          |          |                             |           |          |          | <b>-- ITEMS NOT SHOWN--</b>   |           |
|          |          |                             |           | --       | 104216   | HARNESS, TRI-FUNCTION CTRL.   | 1         |

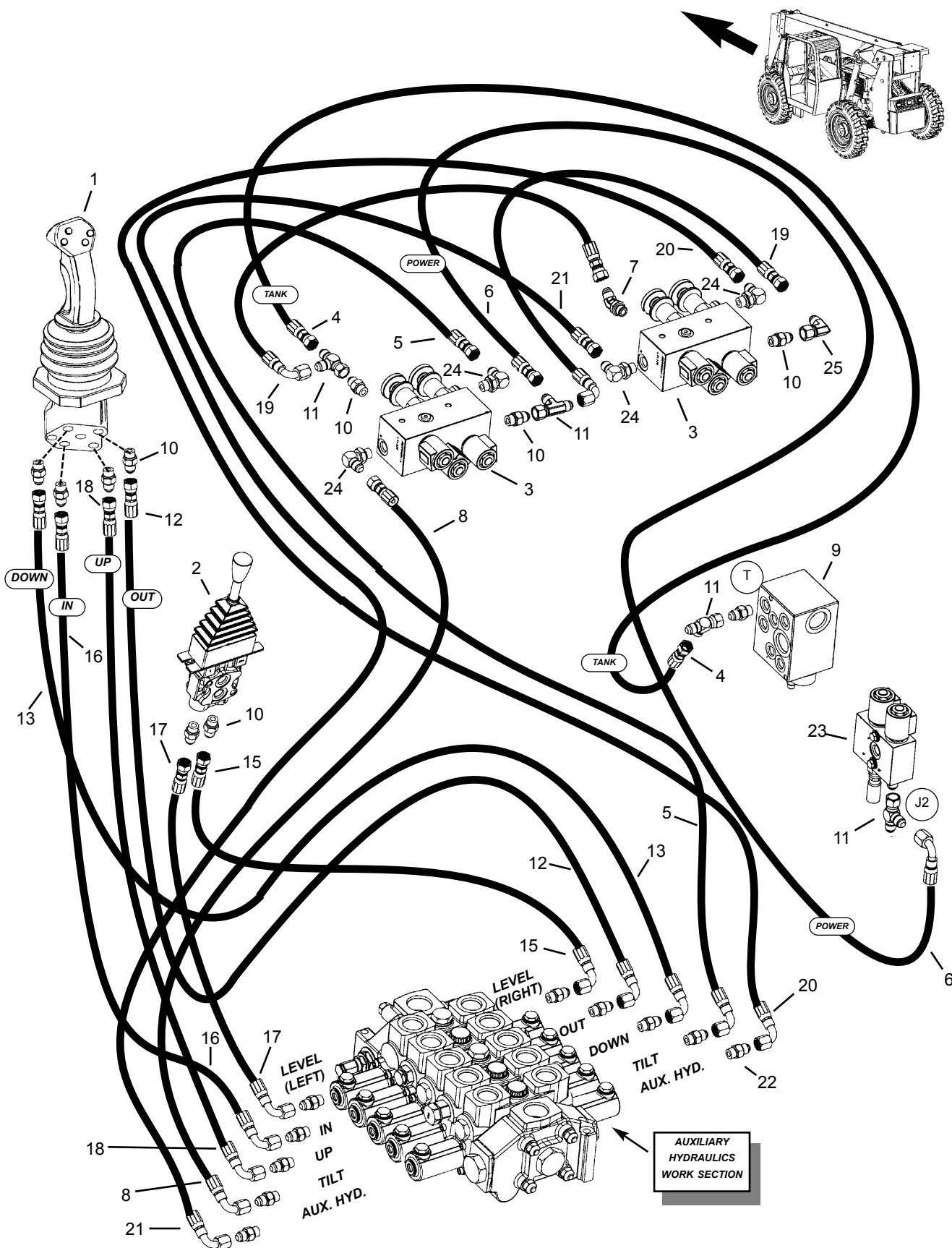




# Hydraulics

### **Main Valve - Tri-Function Controller - w/PWP and Auxiliary Hydraulics**

## RS Series



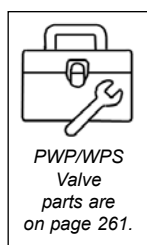
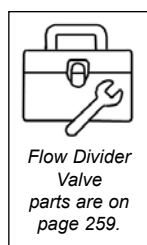
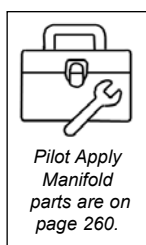
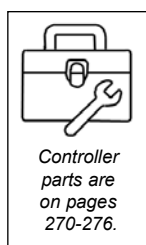


## Telescopic Handler

## Hydraulics

### Main Valve - Tri-Function Controller - w/PWP and Auxiliary Hydraulics

| Ref. No. | Part No. | Description                      | Qty. Req. | Ref. No. | Part No. | Description                          | Qty. Req. |
|----------|----------|----------------------------------|-----------|----------|----------|--------------------------------------|-----------|
| 01       | 104083   | CONTROL, TRI-FUNCTION . . . . .  | 1         | 16       | 102845   | HOSE, -4 A6/DS6 120" . . . . .       | 1         |
| 02       | 102435   | CONTROLLER . . . . .             | 1         | 17       | 102844   | HOSE, -4 A6/DS6 108" . . . . .       | 1         |
| 03       | 106898   | PILOT APPLY MANIFOLD. . . . .    | 2         | 18       | 102845   | HOSE, -4 A6/DS6 120" . . . . .       | 1         |
| 04       | 102786   | HOSE, -4 A6/A6 54" . . . . .     | 1         | 19       | L69903   | HOSE, -4 A6/DS6 17" . . . . .        | 2         |
| 05       | L68809   | HOSE, -4 A6/DS6 136" . . . . .   | 1         | 20       | 104221   | HOSE, -4 A6/DS6 165" . . . . .       | 1         |
| 06       | 103318   | HOSE, -4 A6/DS6 52" . . . . .    | 1         | 21       | 104220   | HOSE, -4 A6/DS6 156" . . . . .       | 1         |
| 07       | 079026   | ADAP., 45 MJ06-MAORB06 . . . . . | 1         | 22       | 103194   | ADAP., 1/4BSP -6JICM STR. . . . .    | AR        |
| 08       | 102845   | HOSE, -4 A6/DS6 120" . . . . .   | 1         | 23       | 102321   | MANIFOLD, PWP/WPS . . . . .          | 1         |
| 09       | 102313   | FLOW DIVIDER VALVE . . . . .     | 1         | 24       | 068938   | ADAP., -6ORM -6JICM 90° . . . . .    | 4         |
| 10       | 054994   | ADAP., -6ORM -6JICM STR. . . . . | AR        | 25       | 091039   | ADAP., 90 MJ06-FJS06. . . . .        | 1         |
| 11       | 072806   | ADAP., -6JIC SWIVEL . . . . .    | AR        |          |          |                                      |           |
| 12       | 102845   | HOSE, -4 A6/DS6 120" . . . . .   | 1         |          |          | <b>-- ITEMS NOT SHOWN--</b>          |           |
| 13       | 102845   | HOSE, -4 A6/DS6 120" . . . . .   | 1         | --       | 104216   | WIRE HARNESS, TRI-FUNCTION . . . . . | 1         |
| 15       | 102844   | HOSE, -4 A6/DS6 108" . . . . .   | 1         |          |          |                                      |           |

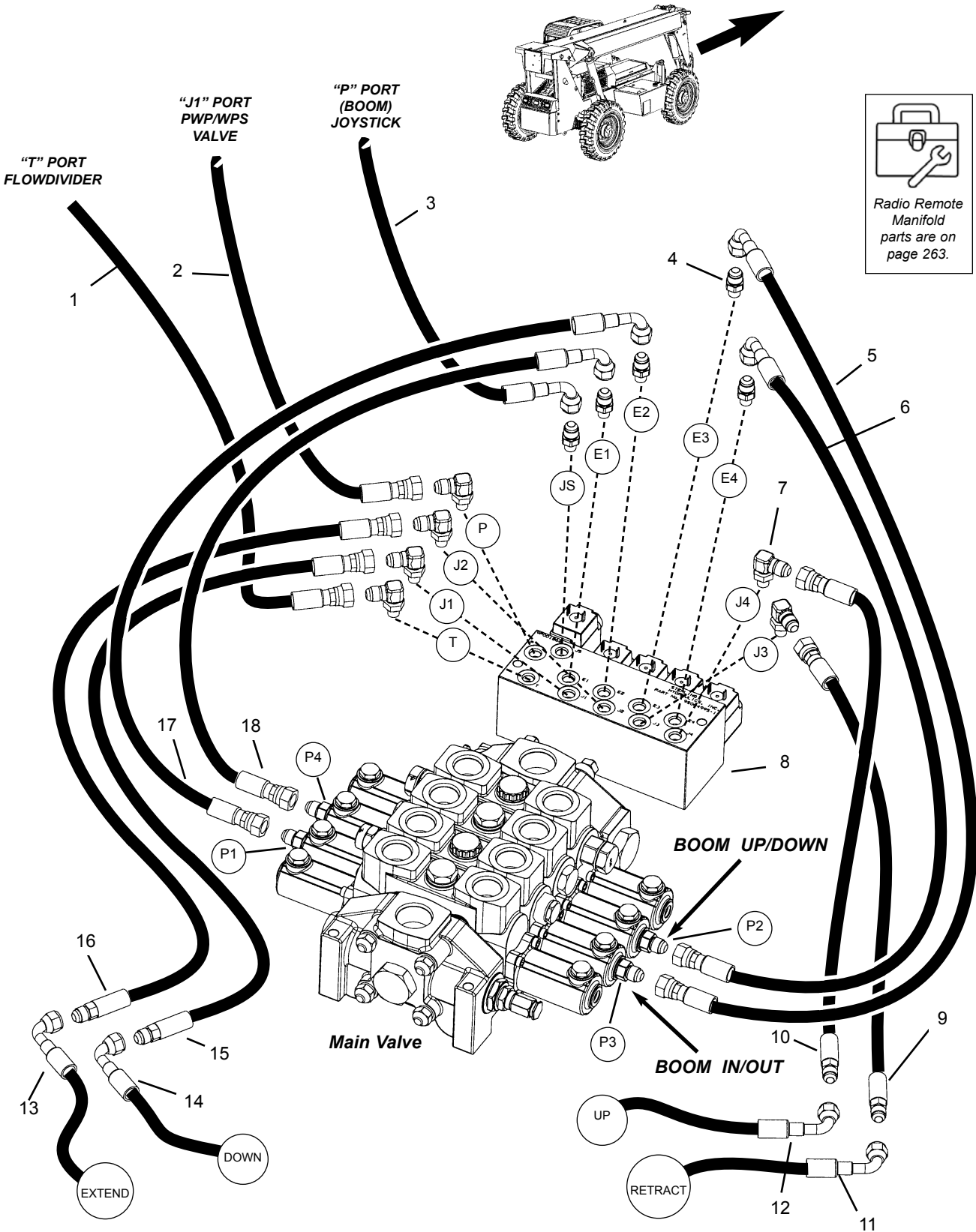




## Hydraulics

### Main Valve - Radio Remote Control Option

## RS Series





## Telescopic Handler

## Hydraulics

### *Main Valve - Radio Remote Option*

| Ref.<br>No. | Part<br>No. | Description                       | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                    | Qty.<br>Req. |
|-------------|-------------|-----------------------------------|--------------|-------------|-------------|--------------------------------|--------------|
| 01          | L69905      | HOSE, -6 A6/A6 130" . . . . .     | 1            | 10          | L69902      | HOSE, -6 A6/H6 20" . . . . .   | 1            |
| 02          | L69906      | HOSE, -6 A6/A6 110" . . . . .     | 1            | 11          | 102844      | HOSE, -4 A6/DS6 108" . . . . . | 4            |
| 03          | 103505      | HOSE, -4 H6/A6 109" . . . . .     | 1            | 12          | 102844      | HOSE, -4 A6/DS6 108" . . . . . | 4            |
| 04          | 129124      | ADAP., -4ORM -6JICM STR . . . . . | 5            | 13          | 102844      | HOSE, -4 A6/DS6 108" . . . . . | 4            |
| 05          | L68804      | HOSE, -4 A6/DS6 26" . . . . .     | 1            | 14          | 102844      | HOSE, -4 A6/DS6 108" . . . . . | 4            |
| 06          | L68804      | HOSE, -4 A6/DS6 26" . . . . .     | 1            | 15          | L69902      | HOSE, -6 A6/H6 20" . . . . .   | 1            |
| 07          | 137784      | ADAP., -4ORM -6JICM 90° . . . . . | 6            | 16          | L69902      | HOSE, -6 A6/H6 20" . . . . .   | 1            |
| 08          | 103413      | MANIFOLD, RADIO REMOTE . . . . .  | 1            | 17          | L68804      | HOSE, -4 A6/DS6 26" . . . . .  | 1            |
| 09          | L69902      | HOSE, -6 A6/H6 20" . . . . .      | 1            | 18          | L68804      | HOSE, -4 A6/DS6 26" . . . . .  | 1            |



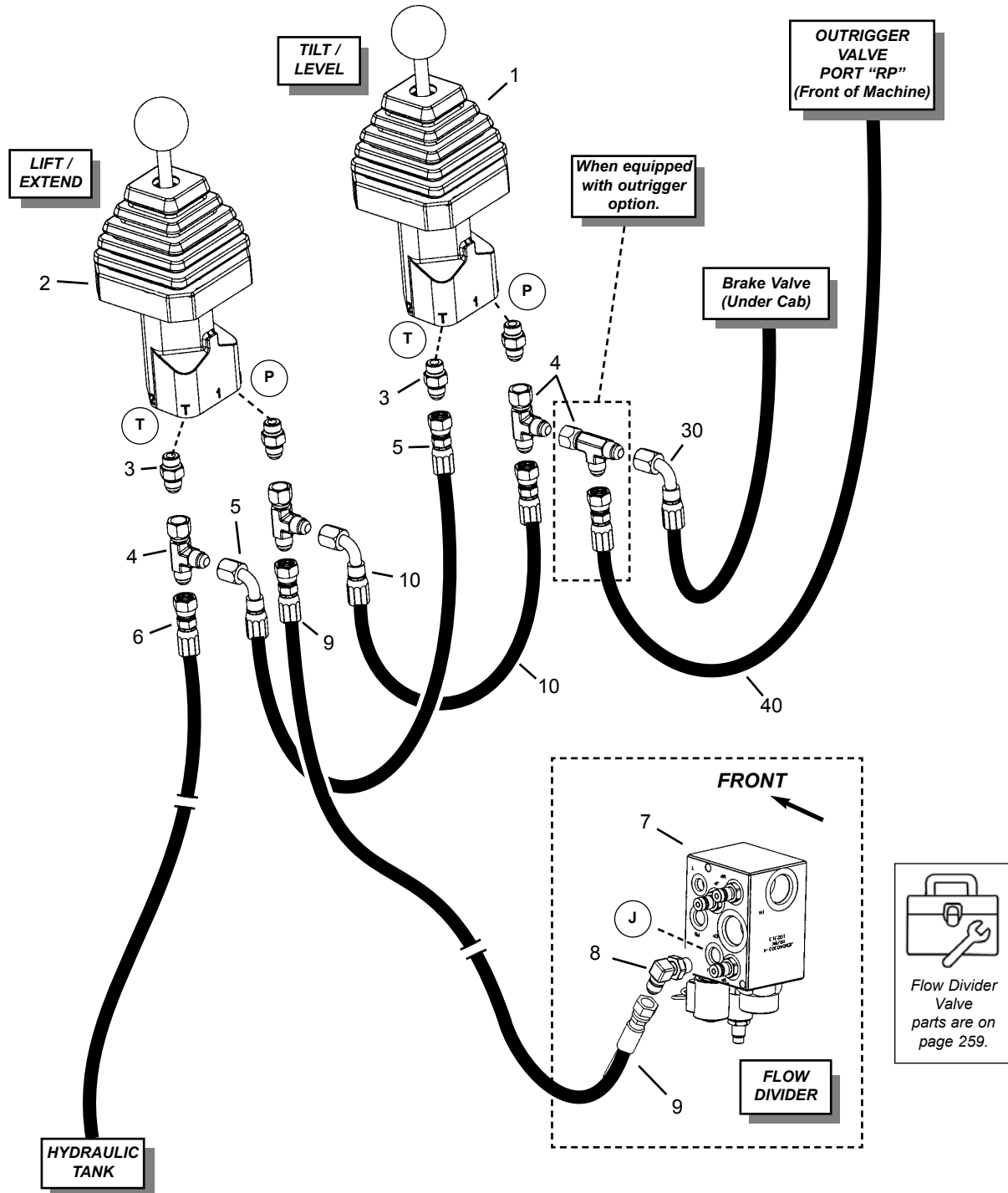
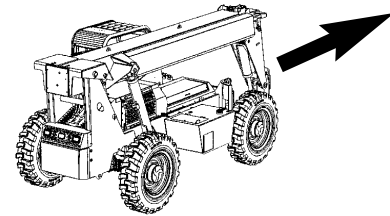
## Hydraulics

### Dual Controllers

## RS Series



Controller parts are on pages 270-276.





## Telescopic Handler

## Hydraulics *Dual Controllers*

| Ref.<br>No. | Part<br>No. | Description                        | Qty.<br>Req. | Ref.<br>No.     | Part<br>No. | Description                       | Qty.<br>Req. |
|-------------|-------------|------------------------------------|--------------|-----------------|-------------|-----------------------------------|--------------|
| 01          | 102784      | CONTROLLER, TILT/LEVEL . . . . .   | 1            | 07              | 102313      | FLOW DIVIDER VALVE . . . . .      | 1            |
| 02          | 102434      | CONTROLLER, LIFT/EXTEND . . . . .  | 1            | 08              | 068938      | ADAP., -6ORM -6JICM 90° . . . . . | 1            |
| 03          | 054994      | ADAP., -6ORM -6JICM STR . . . . .  | 4            | 09              | 102786      | HOSE, -4 A6/A6 54" . . . . .      | 1            |
| 04          | 072806      | ADAP., -6 SWIVEL RUN TEE . . . . . | AR           | 10              | L69903      | HOSE, -4 A6/DS6 17" . . . . .     | 1            |
| 05          | L69903      | HOSE, -4 A6/DS6 17" . . . . .      | 1            | 30              | 102843      | HOSE, -4 A6/DS6 35" . . . . .     | 1            |
| 06          | 102843      | HOSE, -4 A6/DS6 35" . . . . .      | 1            | 40 <sup>a</sup> | L68810      | HOSE, -4 A6/A6 96" . . . . .      | 1            |

*a When equipped with outrigger option.*



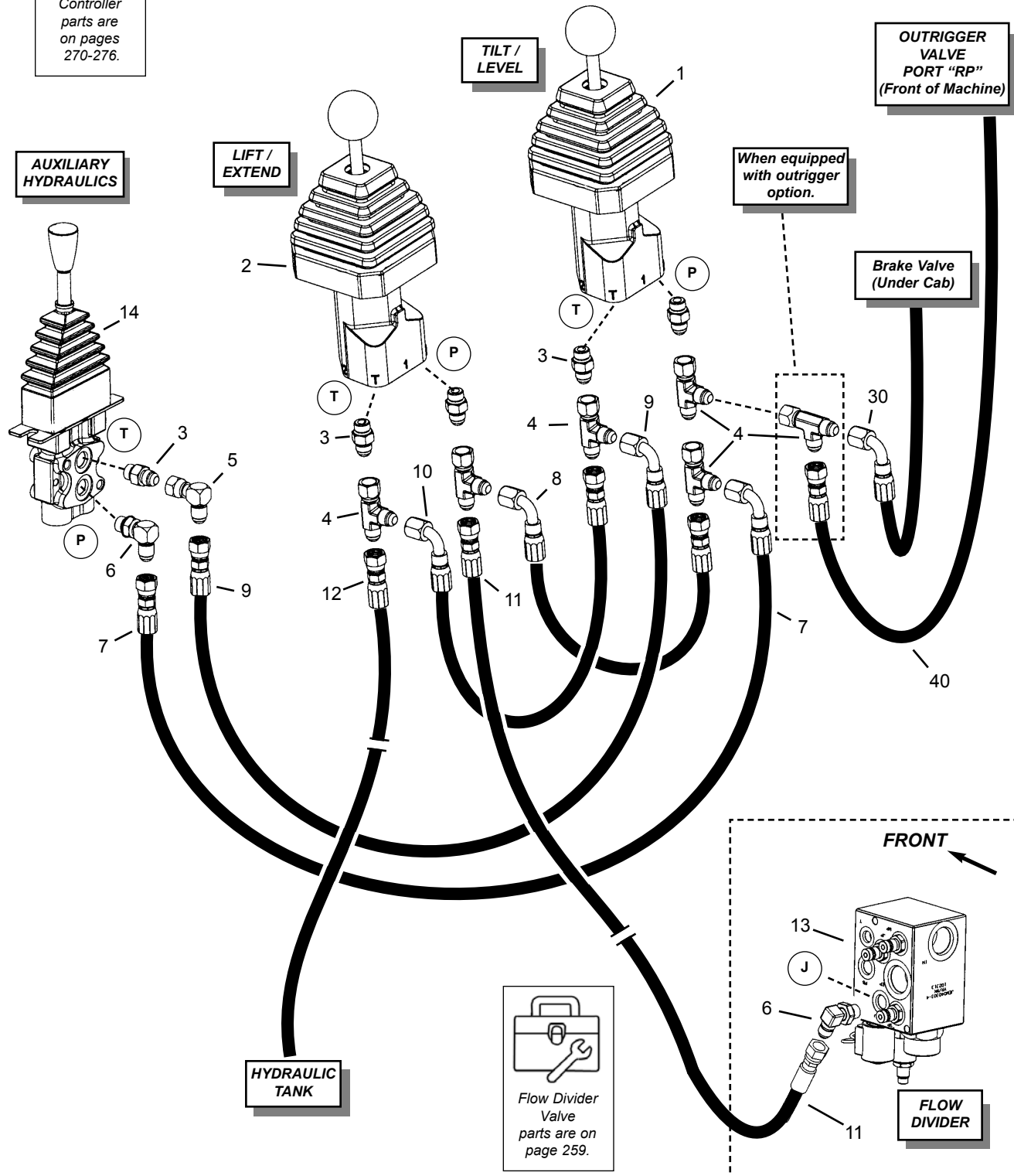
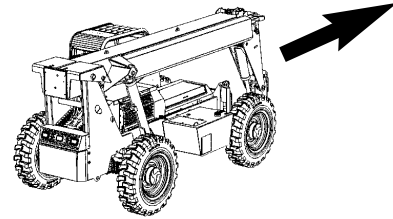
## Hydraulics

### Dual Controllers - with Auxiliary Hydraulics

## RS Series



Controller parts are on pages 270-276.





## Telescopic Handler

## Hydraulics

### *Dual Controllers - with Auxiliary Hydraulics*

| Ref. No. | Part No. | Description                        | Qty. Req. | Ref. No.        | Part No. | Description                   | Qty. Req. |
|----------|----------|------------------------------------|-----------|-----------------|----------|-------------------------------|-----------|
| 01       | 102784   | CONTROLLER, TILT/LEVEL . . . . .   | 1         | 09              | L68804   | HOSE, -4 A6/DS6 26" . . . . . | 1         |
| 02       | 102434   | CONTROLLER, LIFT/EXTEND . . . . .  | 1         | 10              | L69903   | HOSE, -4 A6/DS6 17" . . . . . | 1         |
| 03       | 054994   | ADAP, -6ORM -6JICM STR . . . . .   | AR        | 11              | 102786   | HOSE, -4 A6/A6 54" . . . . .  | 1         |
| 04       | 072806   | ADAP, -6 SWIVEL RUN TEE . . . . .  | AR        | 12              | 102843   | HOSE, -4 A6/DS6 35" . . . . . | 1         |
| 05       | 091039   | ADAP, -6JICM -6JICFS 90° . . . . . | AR        | 13              | 102313   | FLOW DIVIDER VALVE . . . . .  | 1         |
| 06       | 068938   | ADAP, -6ORM -6JICM 90° . . . . .   | AR        | 14              | 102435   | CONTROLLER, AUX. HYD. . . . . | 1         |
| 07       | L68804   | HOSE, -4 A6/DS6 26" . . . . .      | 1         | 30              | 102843   | HOSE, -4 A6/DS6 35" . . . . . | 1         |
| 08       | L69903   | HOSE, -4 A6/DS6 17" . . . . .      | 1         | 40 <sup>a</sup> | L68810   | HOSE, -4 A6/A6 96" . . . . .  | 1         |

*a When equipped with outrigger option.*

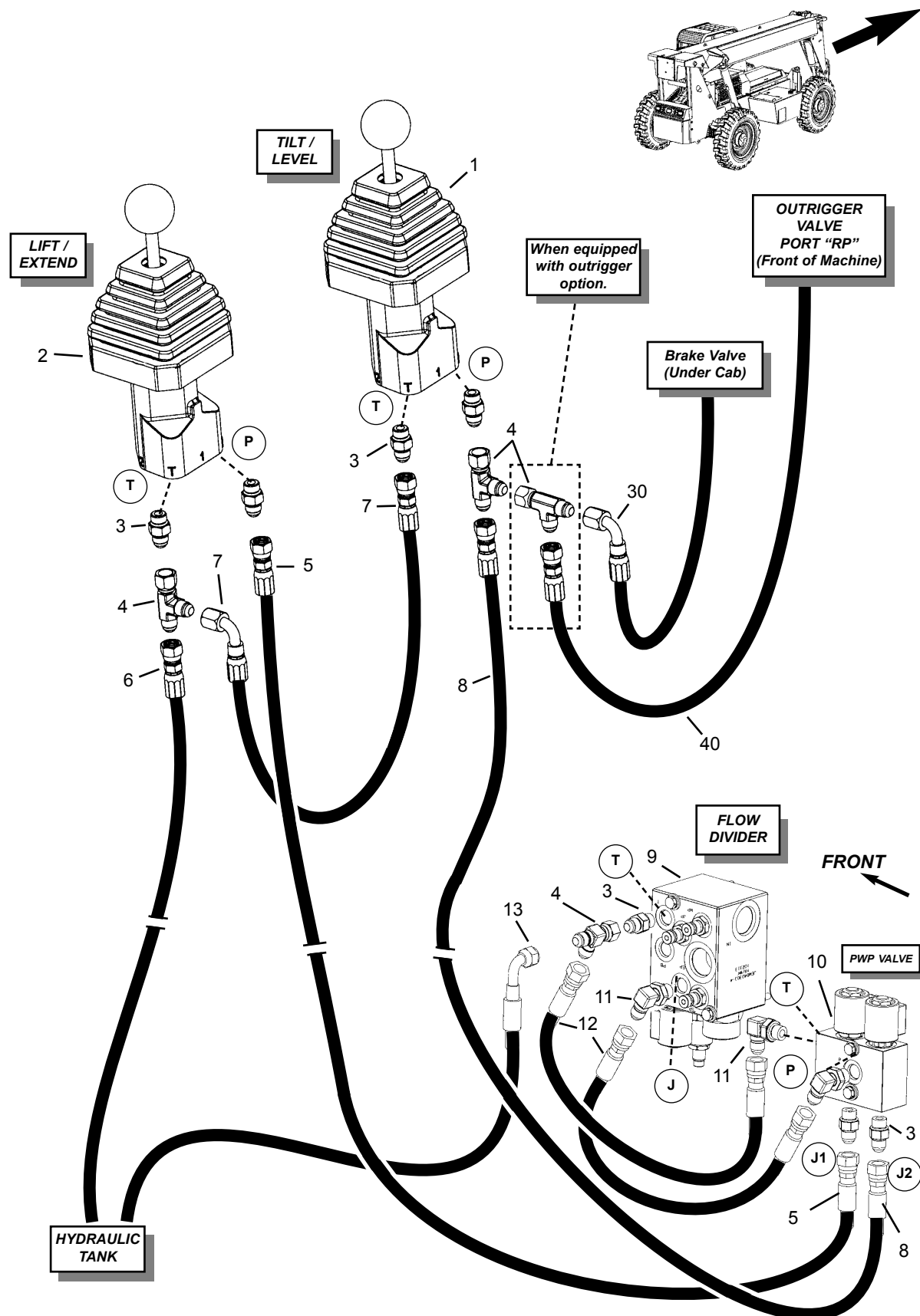




## Hydraulics

### Dual Controllers - with PWP

## RS Series





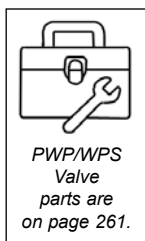
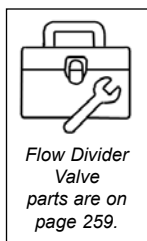
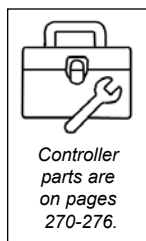
## Telescopic Handler

## Hydraulics

### Dual Controllers - with PWP

| Ref. No. | Part No. | Description                       | Qty. Req. | Ref. No.        | Part No. | Description                      | Qty. Req. |
|----------|----------|-----------------------------------|-----------|-----------------|----------|----------------------------------|-----------|
| 01       | 102784   | CONTROLLER, TILT/LEVEL . . . . .  | 1         | 09              | 102313   | FLOW DIVIDER VALVE . . . . .     | 1         |
| 02       | 102434   | CONTROLLER, LIFT/EXTEND . . . . . | 1         | 10              | 102321   | PWP/WPS VALVE . . . . .          | 1         |
| 03       | 054994   | ADAP, -6ORM -6JICM STR . . . . .  | AR        | 11              | 068938   | ADAP, -6ORM -6JICM 90° . . . . . | 2         |
| 04       | 072806   | ADAP, -6 SWIVEL RUN TEE . . . . . | AR        | 12              | L63381   | HOSE, -4 A6/A6 15" . . . . .     | 2         |
| 05       | 102786   | HOSE, -4 A6/A6 54" . . . . .      | 1         | 13              | 102946   | HOSE, -6AS/DS6 18" . . . . .     | 1         |
| 06       | 102843   | HOSE, -4 A6/DS6 35" . . . . .     | 1         | 30              | 102843   | HOSE, -4 A6/DS6 35" . . . . .    | 1         |
| 07       | L69903   | HOSE, -4 A6/DS6 17" . . . . .     | 1         | 40 <sup>a</sup> | L68810   | HOSE, -4 A6/A6 96" . . . . .     | 1         |
| 08       | 102786   | HOSE, -4 A6/A6 54" . . . . .      | 1         |                 |          |                                  |           |

*a When equipped with outrigger option.*

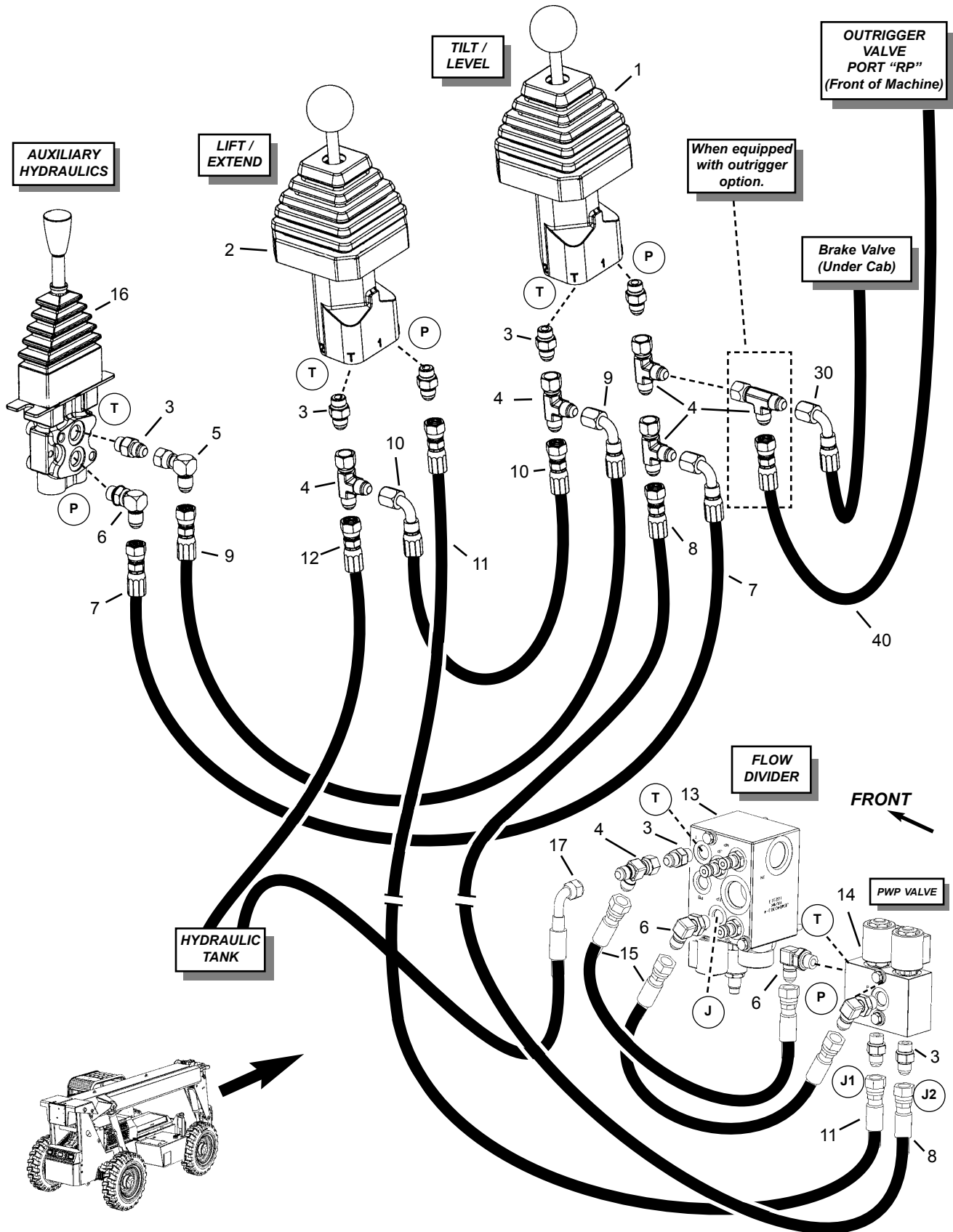




## Hydraulics

### Dual Controllers - with PWP/Auxiliary Hydraulics

## RS Series





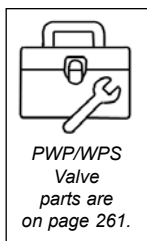
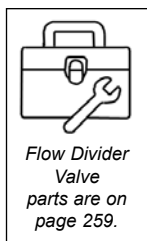
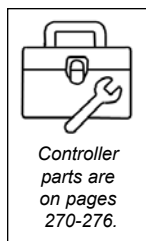
## Telescopic Handler

## Hydraulics

### Dual Controllers - with PWP/Auxiliary Hydraulics

| Ref. No. | Part No. | Description                        | Qty. Req. | Ref. No.        | Part No. | Description                   | Qty. Req. |
|----------|----------|------------------------------------|-----------|-----------------|----------|-------------------------------|-----------|
| 01       | 102784   | CONTROLLER, TILT/LEVEL . . . . .   | 1         | 12              | 102843   | HOSE, -4 A6/DS6 35" . . . . . | 1         |
| 02       | 102434   | CONTROLLER, LIFT/EXTEND . . . . .  | 1         | 13              | 102313   | FLOW DIVIDER VALVE . . . . .  | 1         |
| 03       | 054994   | ADAP, -6ORM -6JICM STR . . . . .   | AR        | 14              | 102321   | PWP/WPS VALVE . . . . .       | 1         |
| 04       | 072806   | ADAP, -6 SWIVEL RUN TEE . . . . .  | AR        | 15              | L63381   | HOSE, -4 A6/A6 15" . . . . .  | 1         |
| 05       | 091039   | ADAP, -6JICM -6JICFS 90° . . . . . | AR        | 16              | 102435   | CONTROLLER, AUX. HYD. . . . . | 1         |
| 06       | 068938   | ADAP, -6ORM -6JICM 90° . . . . .   | AR        | 17              | 102946   | HOSE, -6 A6/DS6 18" . . . . . | 1         |
| 07       | L68804   | HOSE, -4 A6/DS6 26" . . . . .      | 1         | 30              | 102843   | HOSE, -4 A6/DS6 35" . . . . . | 1         |
| 08       | 102786   | HOSE, -4 A6/A6 54" . . . . .       | 1         | 40 <sup>a</sup> | L68810   | HOSE, -4 A6/A6 96" . . . . .  | 1         |
| 09       | L68804   | HOSE, -4 A6/DS6 26" . . . . .      | 1         |                 |          |                               |           |
| 10       | L69903   | HOSE, -4 A6/DS6 17" . . . . .      | 1         |                 |          |                               |           |
| 11       | 102786   | HOSE, -4 A6/A6 54" . . . . .       | 1         |                 |          |                               |           |

*a When equipped with outrigger option.*

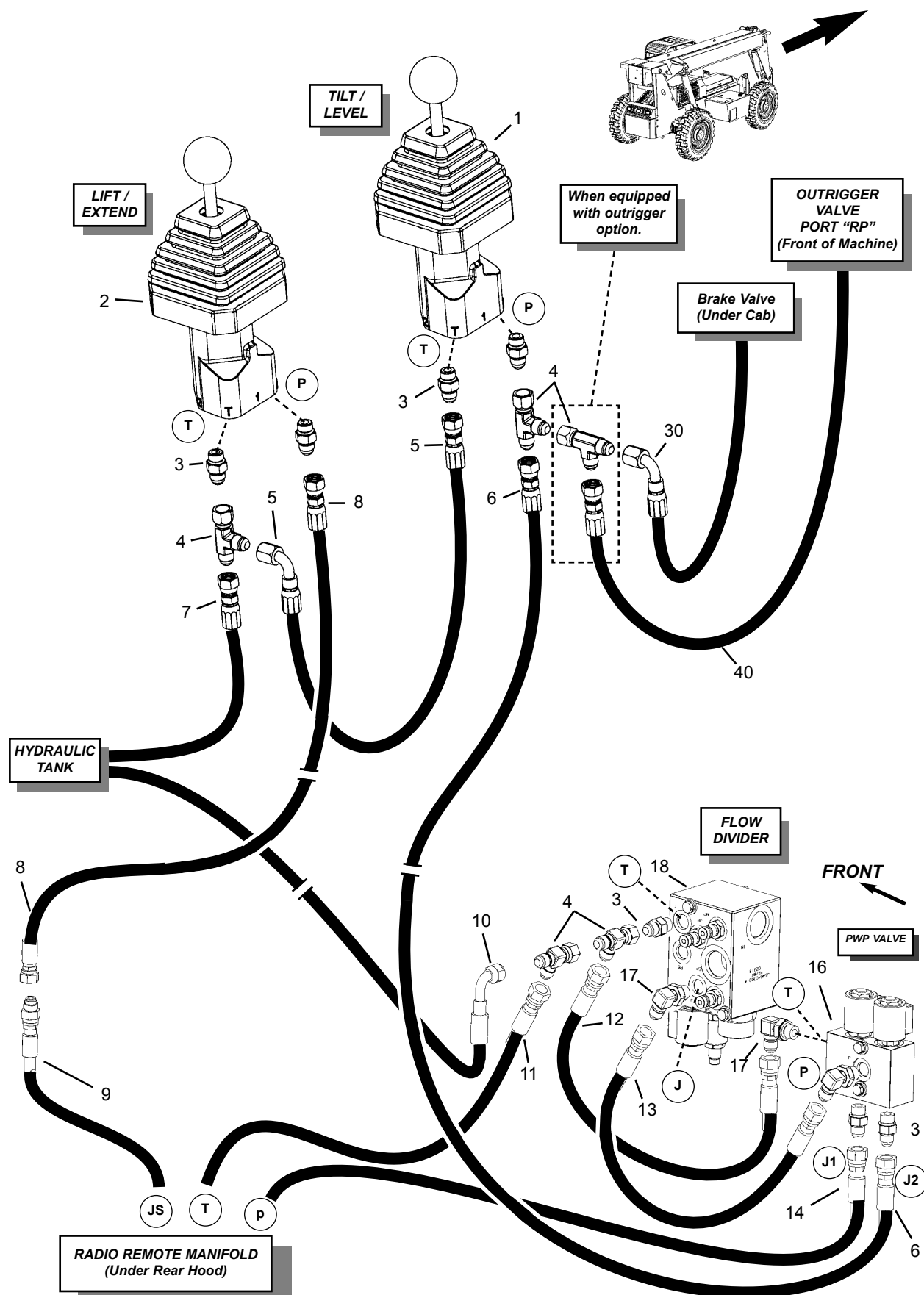




## Hydraulics

### Dual Controllers - Radio Remote

## RS Series





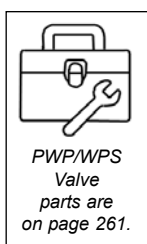
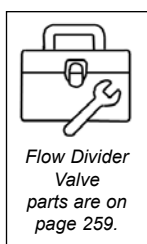
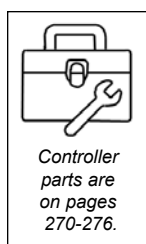
## Telescopic Handler

## Hydraulics

### Dual Controllers - Radio Remote

| Ref. No. | Part No. | Description                       | Qty. Req. | Ref. No.        | Part No. | Description                      | Qty. Req. |
|----------|----------|-----------------------------------|-----------|-----------------|----------|----------------------------------|-----------|
| 01       | 102784   | CONTROLLER, TILT/LEVEL . . . . .  | 1         | 11              | L69905   | HOSE, -6 A6/A6 130" . . . . .    | 1         |
| 02       | 102434   | CONTROLLER, LIFT/EXTEND . . . . . | 1         | 12              | L63381   | HOSE, -4 A6/A6 15" . . . . .     | 1         |
| 03       | 054994   | ADAP, -6ORM -6JICM STR . . . . .  | AR        | 13              | L63381   | HOSE, -4 A6/A6 15" . . . . .     | 1         |
| 04       | 072806   | ADAP, -6 SWIVEL RUN TEE . . . . . | AR        | 14              | L69906   | HOSE, -6 A6/A6 110" . . . . .    | 1         |
| 05       | L69903   | HOSE, -4 A6/DS6 17" . . . . .     | 1         | 16              | 102321   | PWP/WPS VALVE . . . . .          | 1         |
| 06       | 102786   | HOSE, -4 A6/A6 54" . . . . .      | 1         | 17              | 068938   | ADAP, -6ORM -6JICM 90° . . . . . | AR        |
| 07       | 102843   | HOSE, -4 A6/D6 35" . . . . .      | 1         | 18              | 102313   | FLOW DIVIDER VALVE . . . . .     | 1         |
| 08       | 102786   | HOSE, -4 A6/A6 54" . . . . .      | 1         | 30              | 102843   | HOSE, -4 A6/DS6 35" . . . . .    | 1         |
| 09       | 103505   | HOSE, -4 H6/A6 109" . . . . .     | 1         | 40 <sup>a</sup> | L68810   | HOSE, -4 A6/A6 96" . . . . .     | 1         |
| 10       | 102946   | HOSE, -6 A6/DS6 18" . . . . .     | 1         |                 |          |                                  |           |

<sup>a</sup> When equipped with outrigger option.



### HOSE LOCATOR

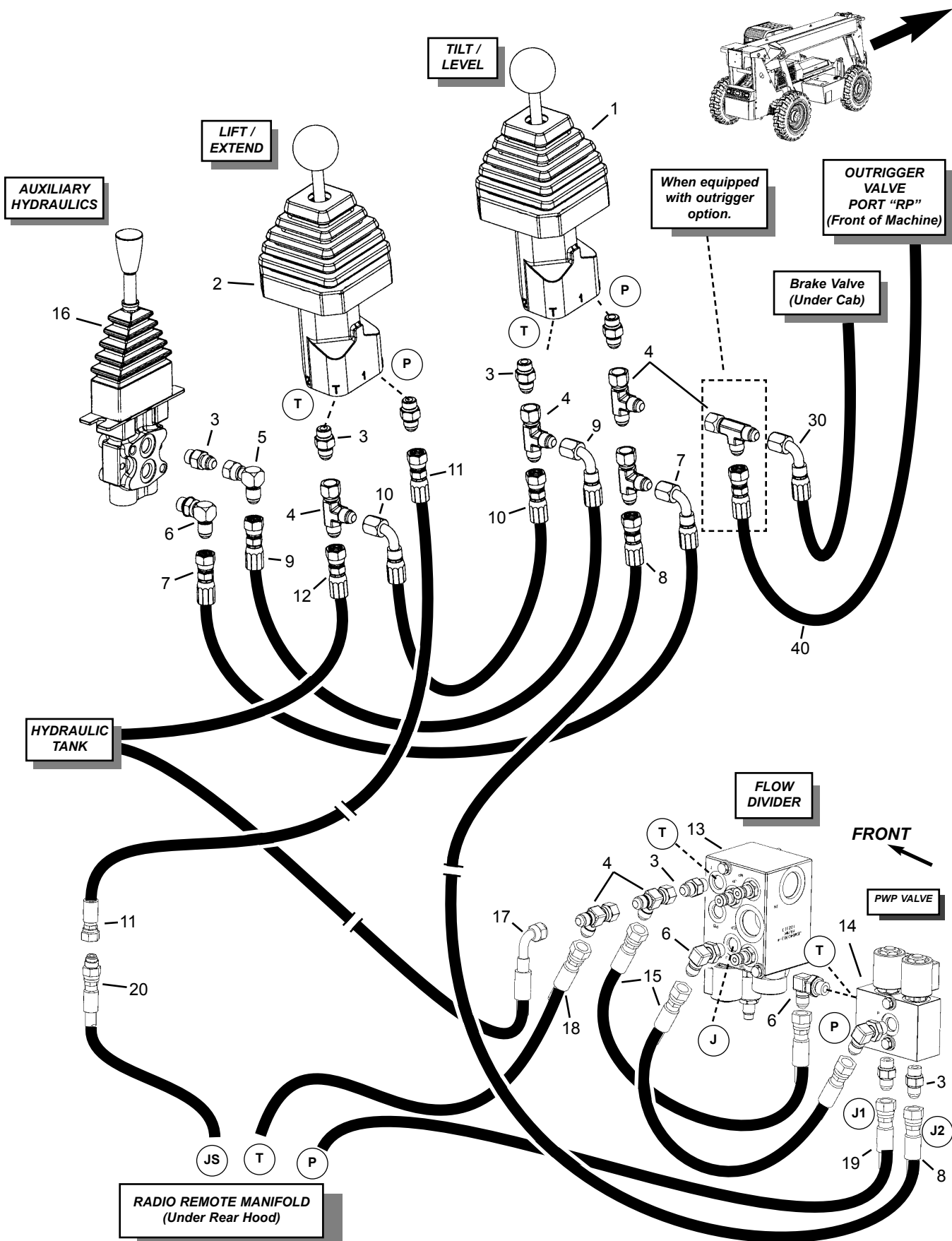
|    |                                  |                                 |
|----|----------------------------------|---------------------------------|
| 09 | CONNECTS TO LIFT/EXTEND "P" HOSE | RADIO REMOTE MANIFOLD "JS" PORT |
| 11 | TEE ON FLOW DIVER "T" PORT       | RADIO REMOTE MANIFOLD "T" PORT  |
| 14 | PWP/WPS VALVE "JI" PORT          | RADIO REMOTE MANIFOLD "P" PORT  |



## Hydraulics

### Dual Controllers - Radio Remote - with Auxiliary Hydraulics

## RS Series





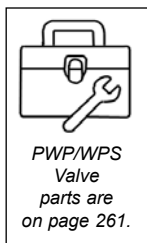
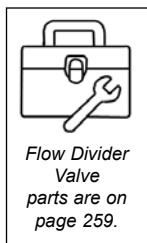
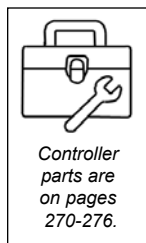
## Telescopic Handler

## Hydraulics

### Dual Controllers - Radio Remote - with Auxiliary Hydraulics

| Ref. No. | Part No. | Description                         | Qty. Req. | Ref. No.        | Part No. | Description                   | Qty. Req. |
|----------|----------|-------------------------------------|-----------|-----------------|----------|-------------------------------|-----------|
| 01       | 102784   | CONTROLLER, TILT/LEVEL . . . . .    | 1         | 13              | 102313   | FLOW DIVIDER VALVE . . . . .  | 1         |
| 02       | 102434   | CONTROLLER, LIFT/EXTEND . . . . .   | 1         | 14              | 102321   | PWP/WPS VALVE . . . . .       | 1         |
| 03       | 054994   | ADAP., -6ORM -6JICM STR. . . . .    | AR        | 15              | L63381   | HOSE, -4 A6/A6 15" . . . . .  | 1         |
| 04       | 072806   | ADAP., -6 SWIVEL RUN TEE. . . . .   | AR        | 16              | 102435   | CONTROLLER, AUX. HYD. . . . . | 1         |
| 05       | 091039   | ADAP., -6JICM -6JICFS 90° . . . . . | AR        | 17              | 102946   | HOSE, -6 A6/DS6 18" . . . . . | 1         |
| 06       | 068938   | ADAP., -6ORM -6JICM 90° . . . . .   | AR        | 18              | L69905   | HOSE, -6 A6/A6 130" . . . . . | 1         |
| 07       | L68804   | HOSE, -4 A6/DS6 26" . . . . .       | 1         | 19              | L69906   | HOSE, -6 A6/A6 110" . . . . . | 1         |
| 08       | 102786   | HOSE, -4 A6/A6 54" . . . . .        | 1         | 20              | 103505   | HOSE, -4 H6/A6 109" . . . . . | 1         |
| 09       | L68804   | HOSE, -4 A6/DS6 26" . . . . .       | 1         | 30              | 102843   | HOSE, -4 A6/DS6 35" . . . . . | 1         |
| 10       | L69903   | HOSE, -4 A6/DS6 17" . . . . .       | 1         | 40 <sup>a</sup> | L68810   | HOSE, -4 A6/A6 96" . . . . .  | 1         |
| 11       | 102786   | HOSE, -4 A6/A6 54" . . . . .        | 1         |                 |          |                               |           |
| 12       | 102843   | HOSE, -4 A6/DS6 35" . . . . .       | 1         |                 |          |                               |           |

*a When equipped with outrigger option.*



### HOSE LOCATOR

|    |                                  |                                 |
|----|----------------------------------|---------------------------------|
| 18 | TEE ON FLOW DIVER "T" PORT       | RADIO REMOTE MANIFOLD "T" PORT  |
| 19 | PWP/WPS VALVE "JI" PORT          | RADIO REMOTE MANIFOLD "P" PORT  |
| 20 | CONNECTS TO LIFT/EXTEND "P" HOSE | RADIO REMOTE MANIFOLD "JS" PORT |

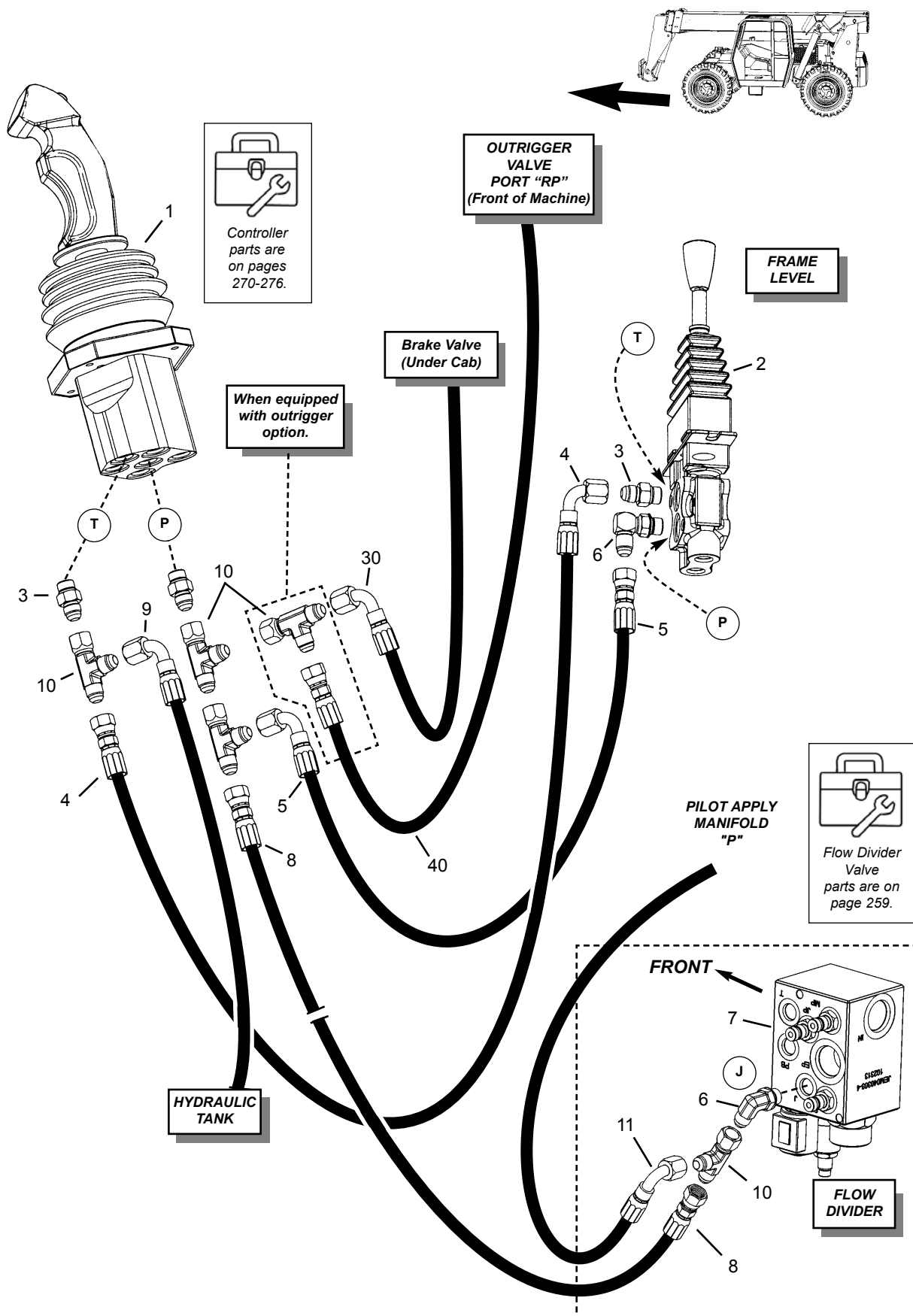




# Hydraulics

## Tri-Function Controller

## RS Series





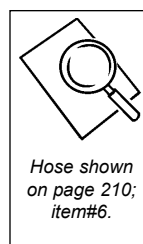
## Telescopic Handler

## Hydraulics *Tri-Function Controller*

| Ref. No. | Part No. | Description                       | Qty. Req. | Ref. No.        | Part No. | Description                   | Qty. Req. |
|----------|----------|-----------------------------------|-----------|-----------------|----------|-------------------------------|-----------|
| 01       | 104083   | CONTROLLER, TRI-FUNCTION . . .    | 1         | 08              | 102786   | HOSE, -4 A6/A6 54" . . . . .  | 1         |
| 02       | 102435   | CONTROLLER . . . . .              | 1         | 09              | 102843   | HOSE, -4 A6/DS6 35" . . . . . | 1         |
| 03       | 054994   | ADAP., -6ORM -6JICM STR . . . . . | 3         | 10              | 072806   | ADAP., -6JIC SWIVEL . . . . . | 3         |
| 04       | L69903   | HOSE, -4 A6/DS6 17" . . . . .     | 1         | 11 <sup>b</sup> | 103318   | HOSE, -4 A6/DS6 52" . . . . . | 1         |
| 05       | L69903   | HOSE, -4 A6/DS6 17" . . . . .     | 1         | 30              | 102843   | HOSE, -4 A6/DS6 35" . . . . . | 1         |
| 06       | 068938   | ADAP., -6ORM -6JICM 90° . . . . . | 2         | 40 <sup>a</sup> | L68810   | HOSE, -4 A6/A6 96" . . . . .  | 1         |
| 07       | 102313   | FLOW DIVIDER VALVE . . . . .      | 1         |                 |          |                               |           |

*a When equipped with outrigger option.*

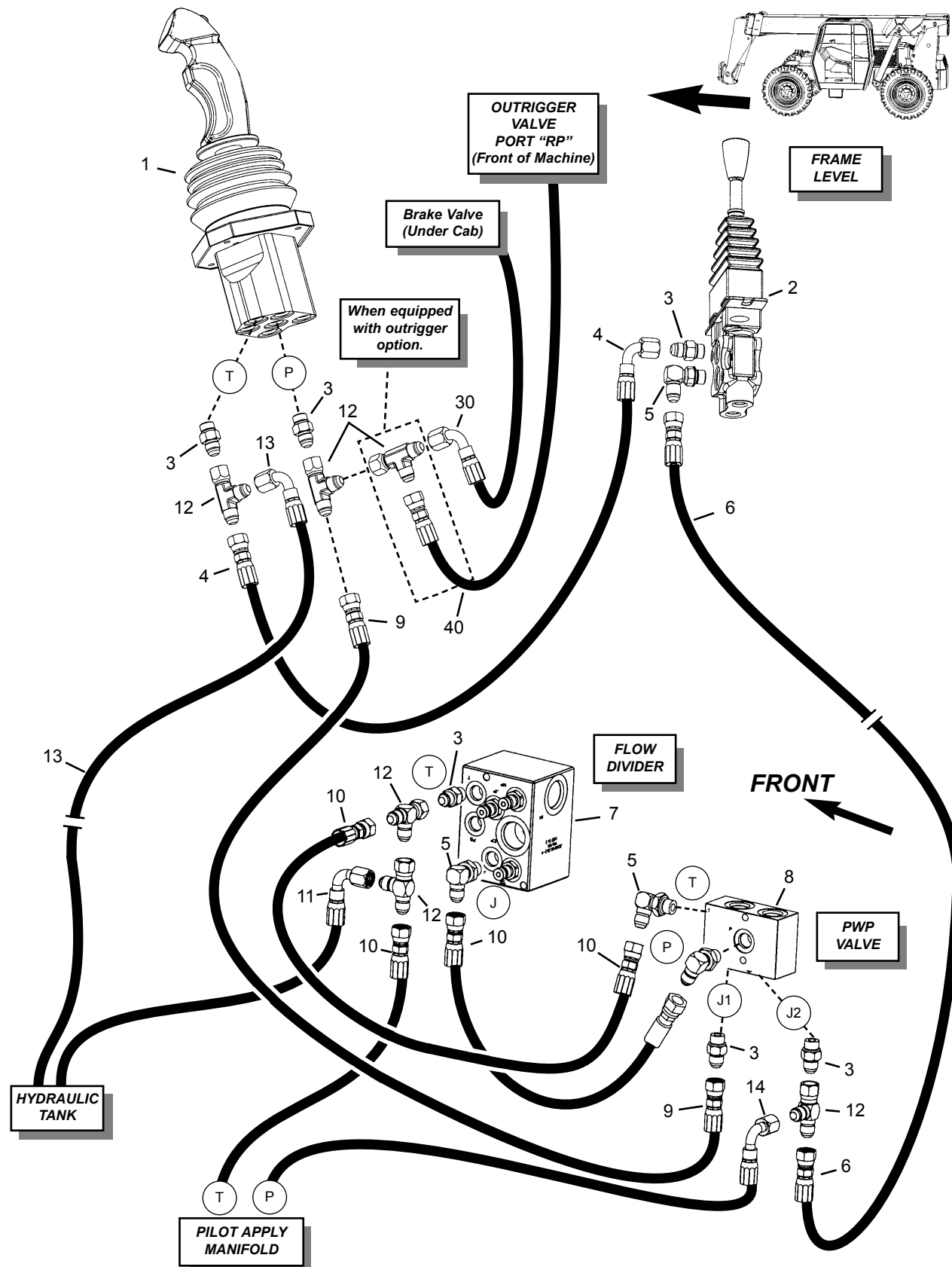
*b*



# Hydraulics

### ***Tri-Function Controller - with PWP***

## RS Series





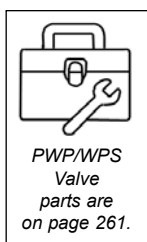
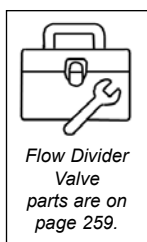
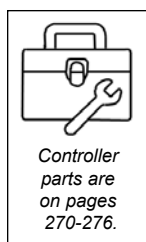
## Telescopic Handler

## Hydraulics

### Tri-Function Controller - with PWP

| Ref. No. | Part No. | Description                      | Qty. Req. | Ref. No.        | Part No. | Description                   | Qty. Req. |
|----------|----------|----------------------------------|-----------|-----------------|----------|-------------------------------|-----------|
| 01       | 104083   | CONTROL, TRI-FUNCTION . . . . .  | 1         | 12              | 072806   | ADAP., -6JIC SWIVEL . . . . . | AR        |
| 02       | 102435   | CONTROLLER . . . . .             | 1         | 13              | 102843   | HOSE, -4 A6/DS6 35" . . . . . | 1         |
| 03       | 054994   | ADAP., -6ORM -6JICM STR. . . . . | AR        | 14 <sup>b</sup> | 103318   | HOSE, -4 A6/DS6 52" . . . . . | 1         |
| 04       | L69903   | HOSE, -4 A6/DS6 17" . . . . .    | 1         | 30              | 102843   | HOSE, -4 A6/DS6 35" . . . . . | 1         |
| 05       | 068938   | ADAP., -6ORM -6JICM 90°. . . . . | AR        | 40 <sup>a</sup> | L68810   | HOSE, -4 A6/A6 96" . . . . .  | 1         |
| 06       | 102786   | HOSE, -4 A6/A6 54" . . . . .     | 1         |                 |          |                               |           |
| 07       | 102313   | FLOW DIVIDER VALVE . . . . .     | 1         |                 |          |                               |           |
| 08       | 102321   | MANIFOLD, PWP . . . . .          | 1         |                 |          |                               |           |
| 09       | 102786   | HOSE, -4 A6/A6 54" . . . . .     | 1         |                 |          |                               |           |
| 10       | L63381   | HOSE, -4 A6/A6 15" . . . . .     | 3         |                 |          |                               |           |
| 11       | 102946   | HOSE, -6 A6/DS6 18" . . . . .    | 1         |                 |          |                               |           |

*a When equipped with outrigger option.*  
*b Attaches to "P" (power) on the pilot apply manifold; refer to page 210; item 6.*

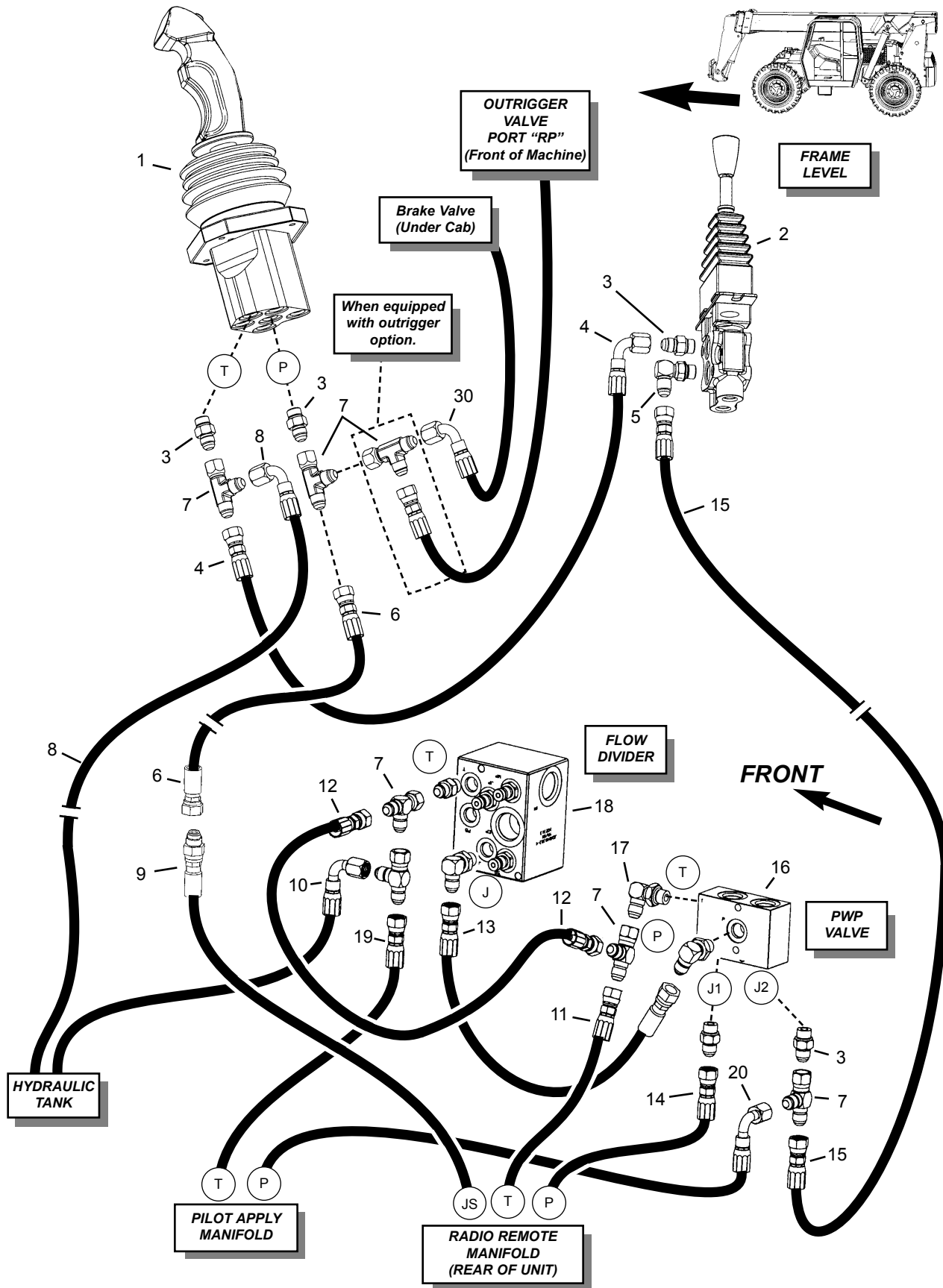




## Hydraulics

### Tri-Function Controller - Radio Remote

## RS Series





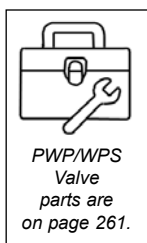
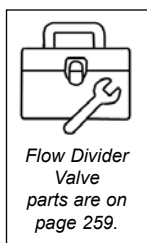
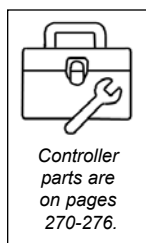
## Telescopic Handler

## Hydraulics

### Tri-Function Controller - Radio Remote

| Ref. No. | Part No. | Description                       | Qty. Req. | Ref. No.        | Part No. | Description                       | Qty. Req. |
|----------|----------|-----------------------------------|-----------|-----------------|----------|-----------------------------------|-----------|
| 01       | 104083   | CONTROLLER, TRI-FUNCTION . . .    | 1         | 13              | L63381   | HOSE, -4 A6/A6 15" . . . . .      | 1         |
| 02       | 102435   | CONTROLLER . . . . .              | 1         | 14              | L69906   | HOSE, -6 A6/A6 110" . . . . .     | 1         |
| 03       | 054994   | ADAP., -6ORM -6JICM STR. . . . .  | AR        | 15              | 102786   | HOSE, -4 A6/A6 54" . . . . .      | 1         |
| 04       | L69903   | HOSE, -4 A6/DS6 17" . . . . .     | 1         | 16              | 102321   | PWP/WPS VALVE . . . . .           | 1         |
| 05       | 068938   | ADAP., -6ORM -6JICM 90° . . . . . | AR        | 17              | 068938   | ADAP., -6ORM -6JICM 90° . . . . . | 2         |
| 06       | 102786   | HOSE, -4 A6/A6 54" . . . . .      | 1         | 18              | 102313   | FLOW DIVIDER VALVE . . . . .      | 1         |
| 07       | 072806   | ADAP., -6 SWIVEL RUN TEE. . . . . | AR        | 19              | 102786   | HOSE, -4 A6/A6 54" . . . . .      | 1         |
| 08       | 102843   | HOSE, -4 A6/D6 35" . . . . .      | 1         | 20              | 103318   | HOSE, -4 A6/DS6 52" . . . . .     | 1         |
| 09       | 103505   | HOSE, -4 H6/A6 109" . . . . .     | 1         | 30              | 102843   | HOSE, -4 A6/DS6 35" . . . . .     | 1         |
| 10       | 102946   | HOSE, -6 A6/DS6 18" . . . . .     | 1         | 40 <sup>a</sup> | L68810   | HOSE, -4 A6/A6 96" . . . . .      | 1         |
| 11       | L69905   | HOSE, -6 A6/A6 130" . . . . .     | 1         |                 |          |                                   |           |
| 12       | L63381   | HOSE, -4 A6/A6 15" . . . . .      | 1         |                 |          |                                   |           |

*a When equipped with outrigger option.*



### HOSE LOCATOR

|    |                             |                                 |
|----|-----------------------------|---------------------------------|
| 09 | CONNECTS TO "P" HOSE        | RADIO REMOTE MANIFOLD "JS" PORT |
| 11 | TEE ON PWP/WPS "T" PORT     | RADIO REMOTE MANIFOLD "T" PORT  |
| 14 | PWP/WPS VALVE "J1" PORT     | RADIO REMOTE MANIFOLD "P" PORT  |
| 19 | TEE ON FLOWDIVIDER "T" PORT | PILOT APPLY MANIFOLD "T" PORT   |
| 20 | TEE ON PWP/WPS "J2" PORT    | PILOT APPLY MANIFOLD "P" PORT   |

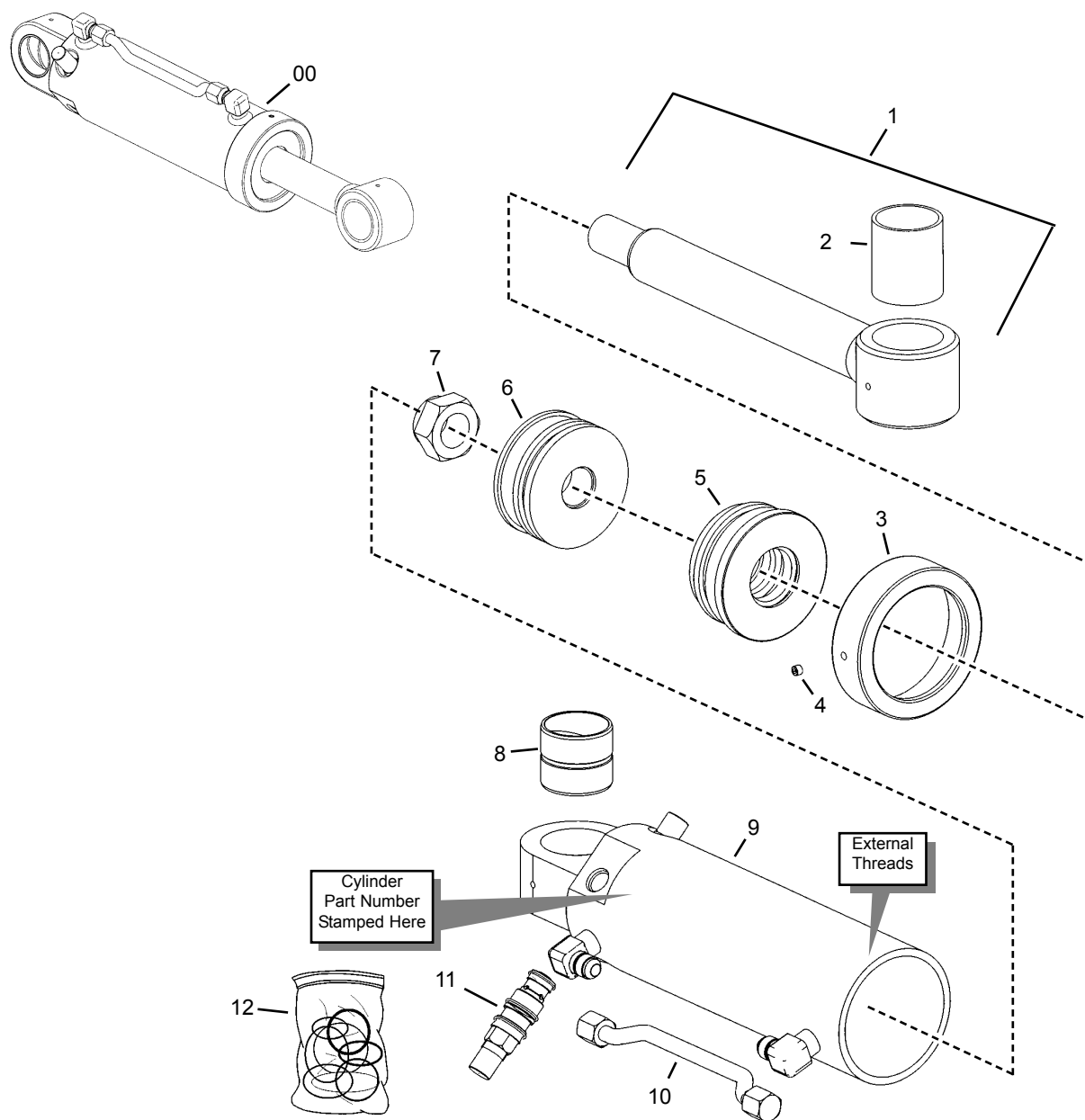
**NOTE:** Refer to the section Main Valve - Radio Remote Option for more information.



# Hydraulic Cylinders

## Frame Level

## RS Series



| Ref. No. | Part No. | Description                  | Qty. Req. | Ref. No.        | Part No. | Description                 | Qty. Req. |
|----------|----------|------------------------------|-----------|-----------------|----------|-----------------------------|-----------|
| 00       | 102876   | FRAME LEVEL CYLINDER.....    | 1         | 09              | NSS      | TUBE WELDMENT.....          | 1         |
| 01       | L98503   | ROD (includes item #2).....  | 1         | 10              | L98509   | OIL LINE TUBE ASSEMBLY..... | 1         |
| 02       | L63016   | BUSHING.....                 | 1         | 11              | 102878   | COUNTER BALANCE VALVE.....  | 2         |
| 03       | L98547   | HEAD GLAND CAP.....          | 1         |                 | 104820   | SEAL KIT (CBV).....         | 1         |
| 04       | L99857   | 5/16"-18x1/4" SET SCREW..... | 1         | 12 <sup>a</sup> | L98506   | CYLINDER SEAL KIT.....      | 1         |
| 05       | L98507   | HEAD GLAND.....              | 1         |                 |          |                             |           |
| 06       | L98550   | PISTON.....                  | 1         |                 |          |                             |           |
| 07       | L99405   | 1-1/4"-12 UNF LOCKNUT.....   | 1         |                 |          |                             |           |
| 08       | L64367   | BUSHING 2.0X2.25X2.0".....   | 1         |                 |          |                             |           |

<sup>a</sup> Items included with seal kit are not shown.

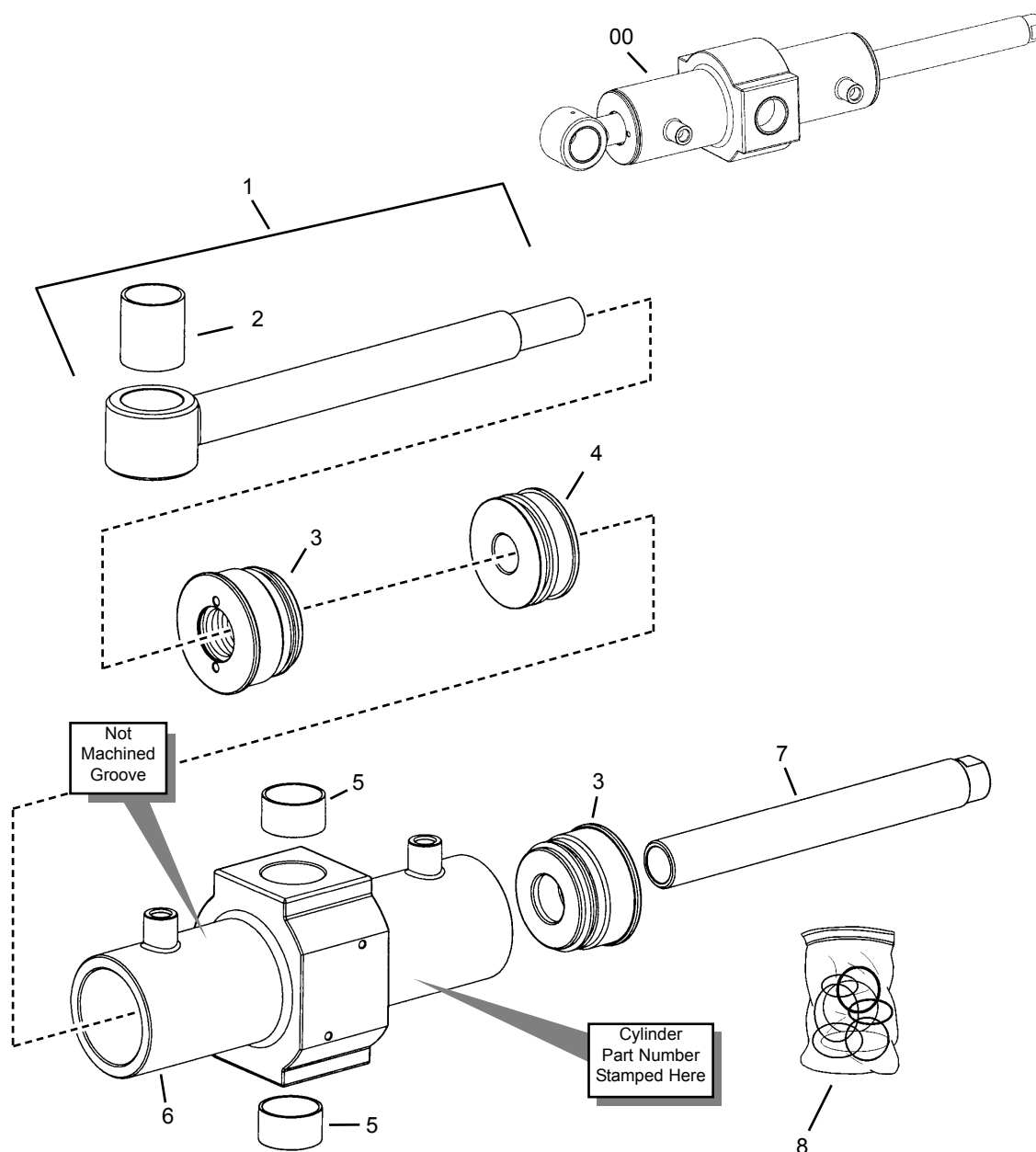


**IMPORTANT:** Before ordering any replacement parts, verify the part number stamped on the cylinder.



## Telescopic Handler

## Hydraulic Cylinders Frame Stabilizing



| Ref. No. | Part No. | Description                                  | Qty. Req. |
|----------|----------|----------------------------------------------|-----------|
| 00       | 102247   | STABILIZING CYLINDER . . . . .               | 1         |
| 01       | 103011   | ROD WELDMENT . . . . .<br>(includes item #2) | 1         |
| 02       | L69138   | BUSHING . . . . .                            | 1         |
| 03       | L99937   | HEAD GLAND . . . . .                         | 2         |
| 04       | L99938   | PISTON . . . . .                             | 1         |
| 05       | L69774   | BUSHING . . . . .                            | 2         |

| Ref. No.        | Part No. | Description             | Qty. Req. |
|-----------------|----------|-------------------------|-----------|
| 06              | NSS      | TUBE WELDMENT . . . . . | 1         |
| 07              | L99935   | CYLINDER ROD . . . . .  | 1         |
| 08 <sup>a</sup> | L99942   | SEAL KIT . . . . .      | 1         |

<sup>a</sup> Items included with seal kit are not shown.



**IMPORTANT:** Before ordering any replacement parts, verify the part number stamped on the cylinder.

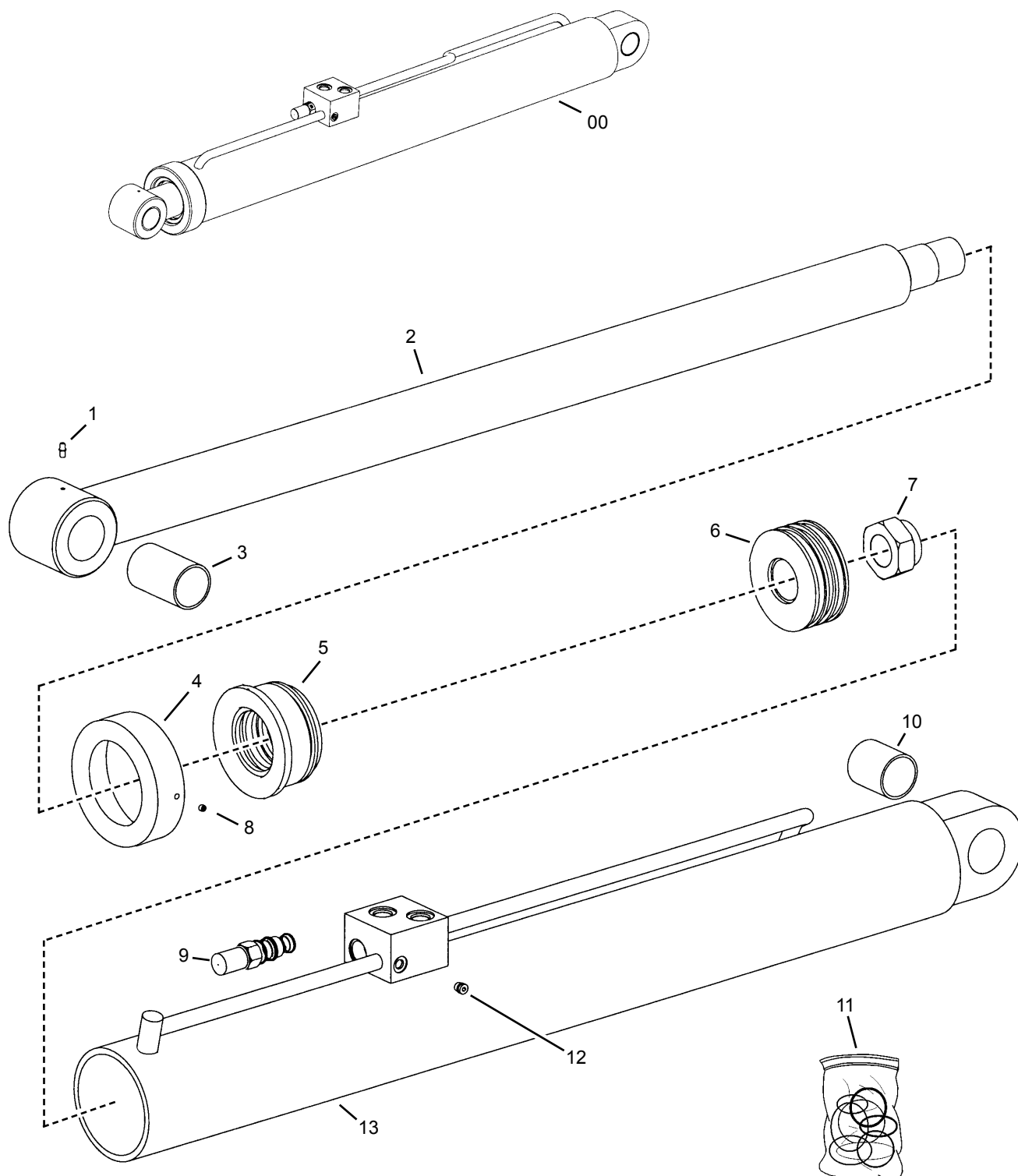




# Hydraulic Cylinders

## Boom Lift

## RS Series





## Telescopic Handler

## Hydraulic Cylinders

### Boom Lift

| Ref. No. | Part No. | Description                            | Qty. Req. | Ref. No.        | Part No.                                             | Description                           | Qty. Req. |
|----------|----------|----------------------------------------|-----------|-----------------|------------------------------------------------------|---------------------------------------|-----------|
| 00       | L69135   | BOOM LIFT CYLINDER . . . . .           | 2         | 09              | L70502                                               | CBAL VALVE . . . . .                  | 1         |
| 01       | L10465   | 1/4"-28 GREASE ZERK. . . . .           | 1         |                 | L96838                                               | CB VALVE SEAL KIT. . . . .            | 1         |
| 02       | L99853   | ROD WELDMENT ( <i>incls. item #3</i> ) | 1         | 10              | L69138                                               | BUSHING ( <i>base end</i> ) . . . . . | 1         |
| 03       | L69142   | BUSHING ( <i>rod end</i> ) . . . . .   | 1         | 11 <sup>a</sup> | L99849                                               | CYLINDER SEAL KIT . . . . .           | 1         |
| 04       | L99856   | HEAD GLAND CAP. . . . .                |           | 12              | L99917                                               | PLUG -4 . . . . .                     | 1         |
| 05       | L99854   | HEAD GLAND . . . . .                   | 1         | 13              | NSS                                                  | CYLINDER TUBE WELDMENT . . .          | 1         |
| 06       | L99851   | PISTON . . . . .                       | 1         |                 |                                                      |                                       |           |
| 07       | L99122   | 1-3/4"-12 UNF LOCKNUT . . . . .        | 1         |                 |                                                      |                                       |           |
| 08       | L99857   | 5/16"-18X1/4" SET SCREW . . . . .      | 1         |                 |                                                      |                                       |           |
|          |          |                                        |           | <i>a</i>        | <i>Items included in the seal kit are not shown.</i> |                                       |           |

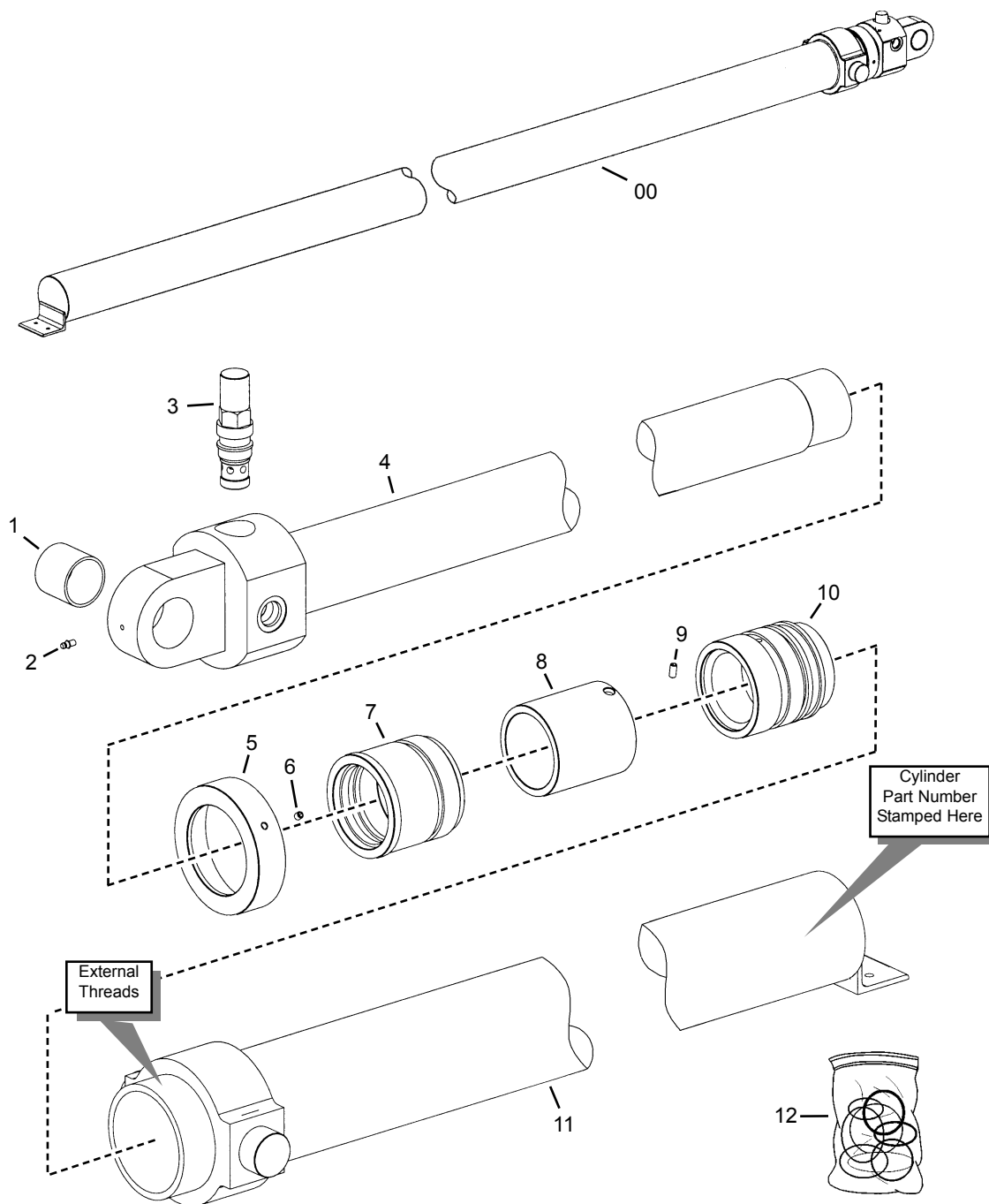


## Hydraulic Cylinders

## RS Series

### Boom Extend - 3-Section Boom

*(Cylinder is stamped with P/N 102543 or 102544)*





## Telescopic Handler

## Hydraulic Cylinders

### Boom Extend - 3-Section Boom

| Ref. No. | Part No. | Description                     | Qty. Req. | Ref. No.        | Part No. | Description                    | Qty. Req. |
|----------|----------|---------------------------------|-----------|-----------------|----------|--------------------------------|-----------|
| 00       |          | BOOM EXTEND CYLINDER. .... 1    |           | 08              | 102890   | ROD SPACER. .... 1             |           |
|          | 102543   | 42' 3-Section Boom              |           | 09              | L99875   | 5/16"-18X5/8" SET SCREW .... 1 |           |
|          | 102544   | 44' 3-Section Boom              |           | 10              | L99874   | PISTON. .... 1                 |           |
| 01       | L64367   | BUSHING (rod end). .... 1       |           | 11              | NSS      | CYLINDER TUBE WELDMENT ... 1   |           |
| 02       | L10465   | 1/4"-28 GREASE ZERK. .... 1     |           | 12 <sup>a</sup> | L99873   | CYLINDER SEAL KIT. .... 1      |           |
| 03       | L70274   | COUNTER BALANCE VALVE. .... 1   |           |                 |          |                                |           |
|          | L99943   | CBAL VALVE SEAL KIT. .... 1     |           |                 |          |                                |           |
| 04       |          | ROD WELDMENT. .... 1            |           |                 |          |                                |           |
|          |          | (includes item #1)              |           |                 |          |                                |           |
|          | L99881   | 42' 3-Section Boom              |           |                 |          |                                |           |
|          | 102889   | 44' 3-Section Boom              |           |                 |          |                                |           |
| 05       | L500582  | HEAD GLAND CAP. .... 1          |           |                 |          |                                |           |
| 06       | 137220   | 5/16"-18X5/16" SET SCREW .... 1 |           |                 |          |                                |           |
| 07       | L99053   | HEAD GLAND. .... 1              |           |                 |          |                                |           |

*a Items included in the seal kit are not shown.*



**IMPORTANT:** Before ordering any replacement parts, verify the part number stamped on the cylinder.

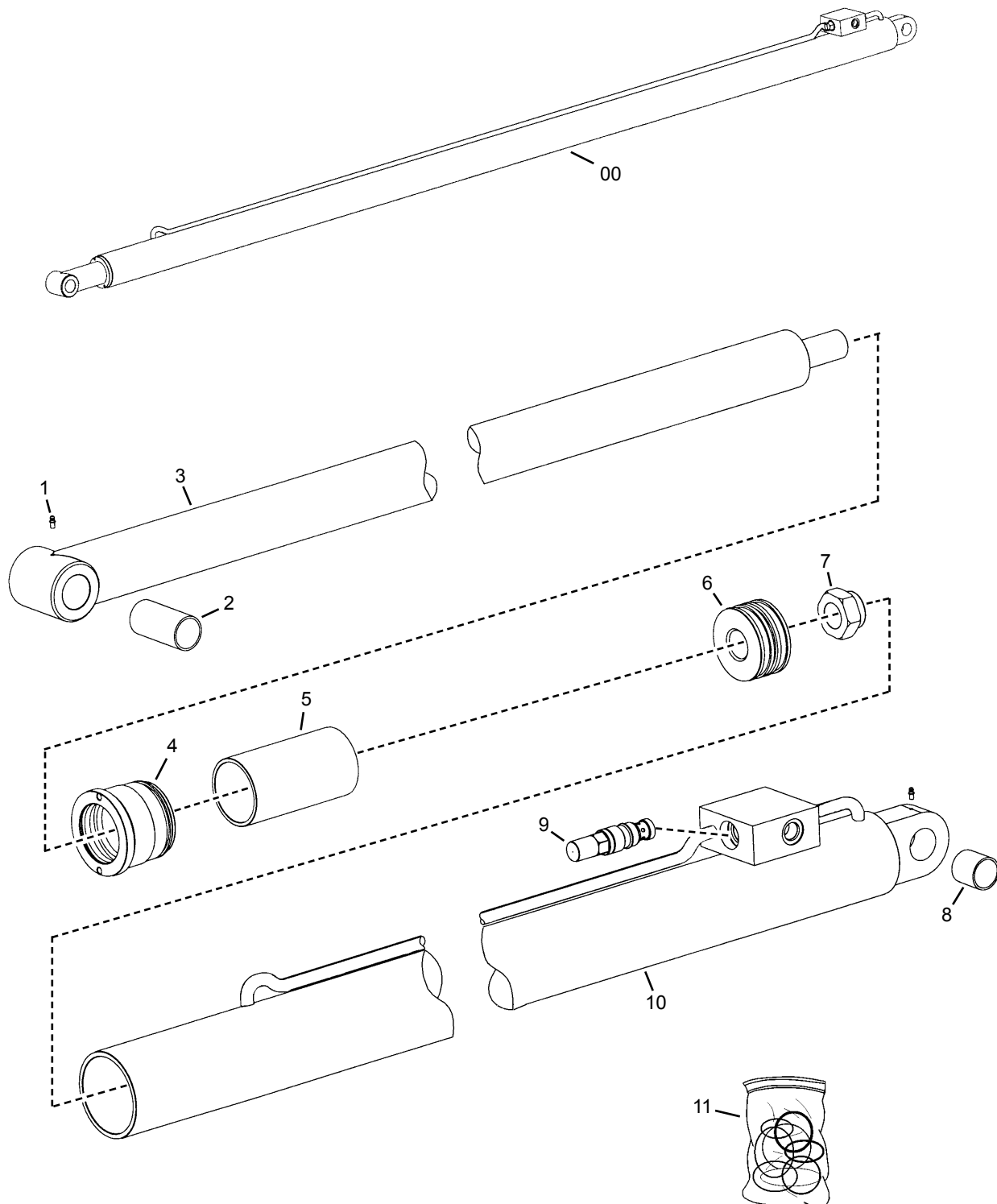


## Hydraulic Cylinders

## RS Series

### Boom Extend - 4-Section Boom

*(Cylinder is stamped with P/N L71024)*





## Telescopic Handler

## Hydraulic Cylinders

### *Boom Extend - 4-Section Boom*

| Ref.<br>No. | Part<br>No. | Description                             | Qty.<br>Req. | Ref.<br>No.     | Part<br>No. | Description                       | Qty.<br>Req. |
|-------------|-------------|-----------------------------------------|--------------|-----------------|-------------|-----------------------------------|--------------|
| 00          | L71024      | BOOM EXTEND CYLINDER.....               | 1            | 08              | L67120      | BUSHING ( <i>base end</i> ) ..... | 1            |
| 01          | L10465      | 1/4"-28 GREASE ZERK.....                | 2            | 09              | L70274      | COUNTER BALANCE VALVE.....        | 1            |
| 02          | L67119      | BUSHING ( <i>rod end</i> ).....         | 1            |                 | L99943      | CBAL VALVE SEAL KIT.....          | 1            |
| 03          | L500753     | ROD WELDMENT ( <i>incls. item 2</i> ) . | 1            | 10              | NSS         | CYLINDER TUBE WELDMENT ...        | 1            |
| 04          | L500758     | HEAD GLAND.....                         | 1            | 11 <sup>a</sup> | L500262     | CYLINDER SEAL KIT .....           | 1            |
| 05          | L500755     | ROD SPACER.....                         | 1            |                 |             |                                   |              |
| 06          | L500757     | PISTON.....                             | 1            |                 |             |                                   |              |
| 07          | L99122      | 1-3/4"-12 UNF LOCKNUT .....             | 1            |                 |             |                                   |              |

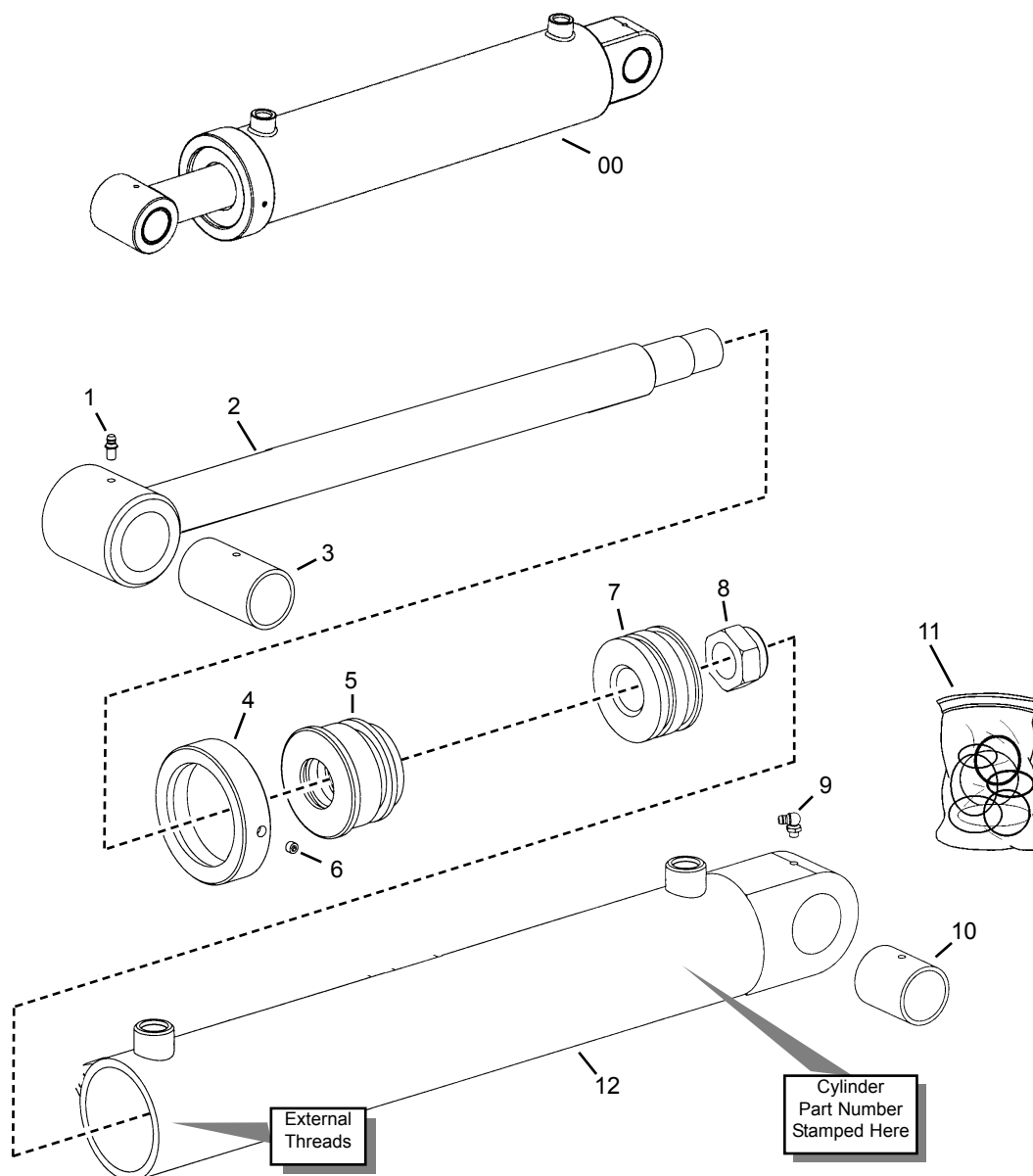
*a Items included in the seal kit are not shown.*



# Hydraulic Cylinders

## Slave — (Compensation)

## RS Series



| Ref. No. | Part No. | Description                   | Qty. Req. |
|----------|----------|-------------------------------|-----------|
| 00       | L69149   | SLAVE CYLINDER .....          | 1         |
| 01       | L10465   | 1/4"-28 GREASE ZERK STR ..... | 1         |
| 02       | L99865   | ROD WELDMENT .....            | 1         |
|          |          | (includes item #2)            |           |
| 03       | L63018   | BUSHING (ROD END) .....       | 1         |
| 04       | L98547   | HEAD GLAND CAP .....          | 1         |
| 05       | L99866   | HEAD GLAND .....              | 1         |
| 06       | L99857   | 5/16"-18X1/4" SET SCREW ..... | 1         |
| 07       | L99864   | PISTON .....                  | 1         |
| 08       | 137221   | 1-3/8"-12 UNF LOCKNUT .....   | 1         |

| Ref. No.        | Part No. | Description                   | Qty. Req. |
|-----------------|----------|-------------------------------|-----------|
| 09              | L10057   | 1/4"-28 GREASE ZERK 90° ..... | 1         |
| 10              | L68003   | BUSHING (BASE END) .....      | 1         |
| 11 <sup>a</sup> | L99868   | CYLINDER SEAL KIT .....       | 1         |
| 12              | NSS      | CYLINDER TUBE WELDMENT ...    | 1         |

<sup>a</sup> Items included in the seal kit are not shown.



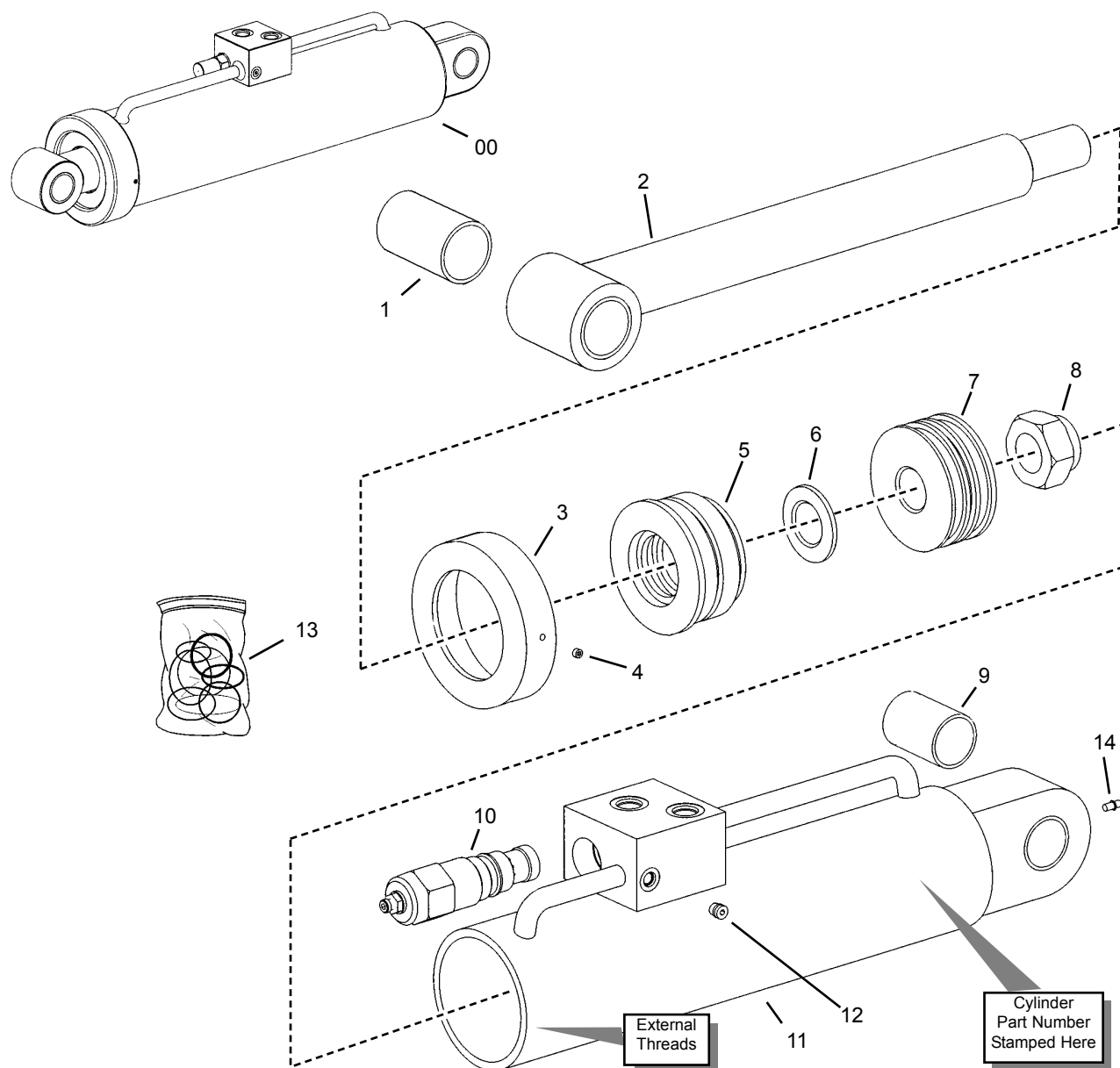
**IMPORTANT:** Before ordering any replacement parts, verify the part number stamped on the cylinder.



## Telescopic Handler

## Hydraulic Cylinders

Tilt



| Ref. No. | Part No. | Description                        | Qty. Req. | Ref. No.        | Part No. | Description                       | Qty. Req. |
|----------|----------|------------------------------------|-----------|-----------------|----------|-----------------------------------|-----------|
| 00       | L69144   | TILT CYLINDER . . . . .            | 1         | 10              | L70502   | COUNTER BALANCE VALVE . . . . .   | 1         |
| 01       | L99889   | BUSHING . . . . .                  | 1         |                 | L96838   | CB VALVE SEAL KIT . . . . .       | 1         |
| 02       | L99886   | ROD WELDMENT . . . . .             | 1         | 11              | NSS      | CYLINDER TUBE WELDMENT . . . . .  | 1         |
|          |          | (includes item #1)                 |           | 12              | L99917   | PLUG -4. . . . .                  | 1         |
| 03       | L99856   | HEAD GLAND CAP . . . . .           | 1         | 13 <sup>a</sup> | L99883   | CYLINDER SEAL KIT . . . . .       | 1         |
| 04       | 137220   | 5/16"-18X5/16" SET SCREW . . . . . | 1         | 14              | L10465   | 1/4"-28 GREASE ZERK STR . . . . . | 1         |
| 05       | L99888   | HEAD GLAND . . . . .               | 1         |                 |          |                                   |           |
| 06       | L99852   | THRUST WASHER . . . . .            | 1         |                 |          |                                   |           |
| 07       | L99885   | PISTON . . . . .                   | 1         |                 |          |                                   |           |
| 08       | L99122   | 1-3/4" UNF LOCKNUT . . . . .       | 1         |                 |          |                                   |           |
| 09       | L69127   | BUSHING (BASE END) . . . . .       | 1         |                 |          |                                   |           |

<sup>a</sup> Items included in the seal kit are not shown.

**IMPORTANT:** Before ordering any replacement parts, verify the part number stamped on the cylinder.

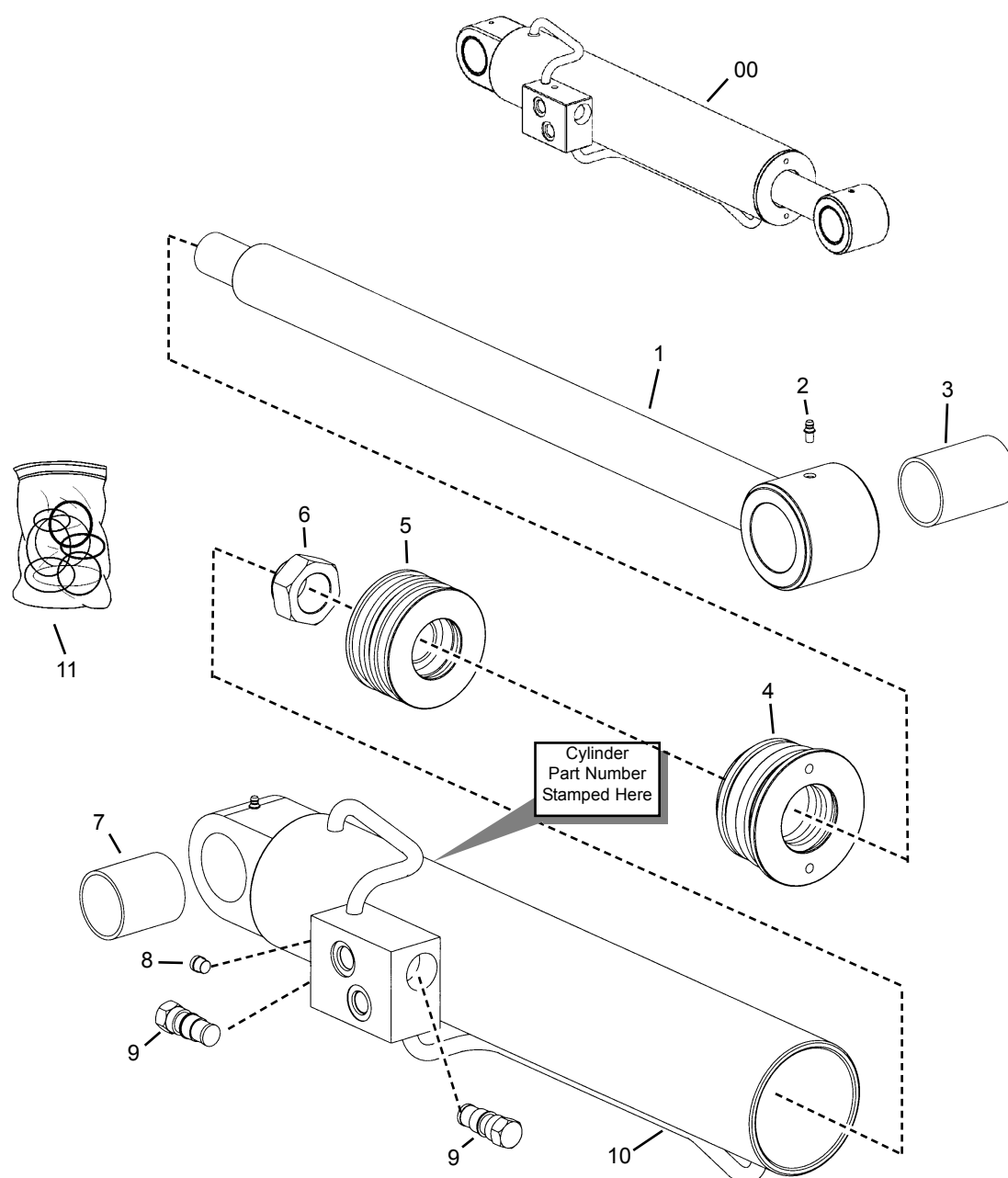




# Hydraulic Cylinders

## Outrigger

## RS Series



| Ref. No. | Part No. | Description                                 | Qty. Req. |
|----------|----------|---------------------------------------------|-----------|
| 00       | L70616   | OUTRIGGER CYLINDER . . . . .                | 1         |
| 01       | L99989   | ROD WELDMENT . . . . .<br>(includes item 3) | 1         |
| 02       | L10465   | 1/4"-28 GREASE ZERK . . . . .               | 2         |
| 03       | L70618   | BUSHING (ROD END) . . . . .                 | 1         |
| 04       | L99991   | HEAD GLAND . . . . .                        | 1         |
| 05       | L99864   | PISTON . . . . .                            | 1         |
| 06       | 137221   | 1-3/8"-12 UNF LOCKNUT . . . . .             | 1         |
| 07       | L69138   | BUSHING (BASE END). . . . .                 | 1         |

| Ref. No.        | Part No. | Description                    | Qty. Req. |
|-----------------|----------|--------------------------------|-----------|
| 08              | L99917   | PLUG, -40RM . . . . .          | 1         |
| 09              | L99987   | PO CHECK VALVE . . . . .       | 2         |
| 10              | NSS      | CYLINDER TUBE WELDMENT . . . 1 |           |
| 11 <sup>a</sup> | L99988   | CYLINDER SEAL KIT . . . . .    | 1         |

<sup>a</sup> Items included in the seal kit are not shown.

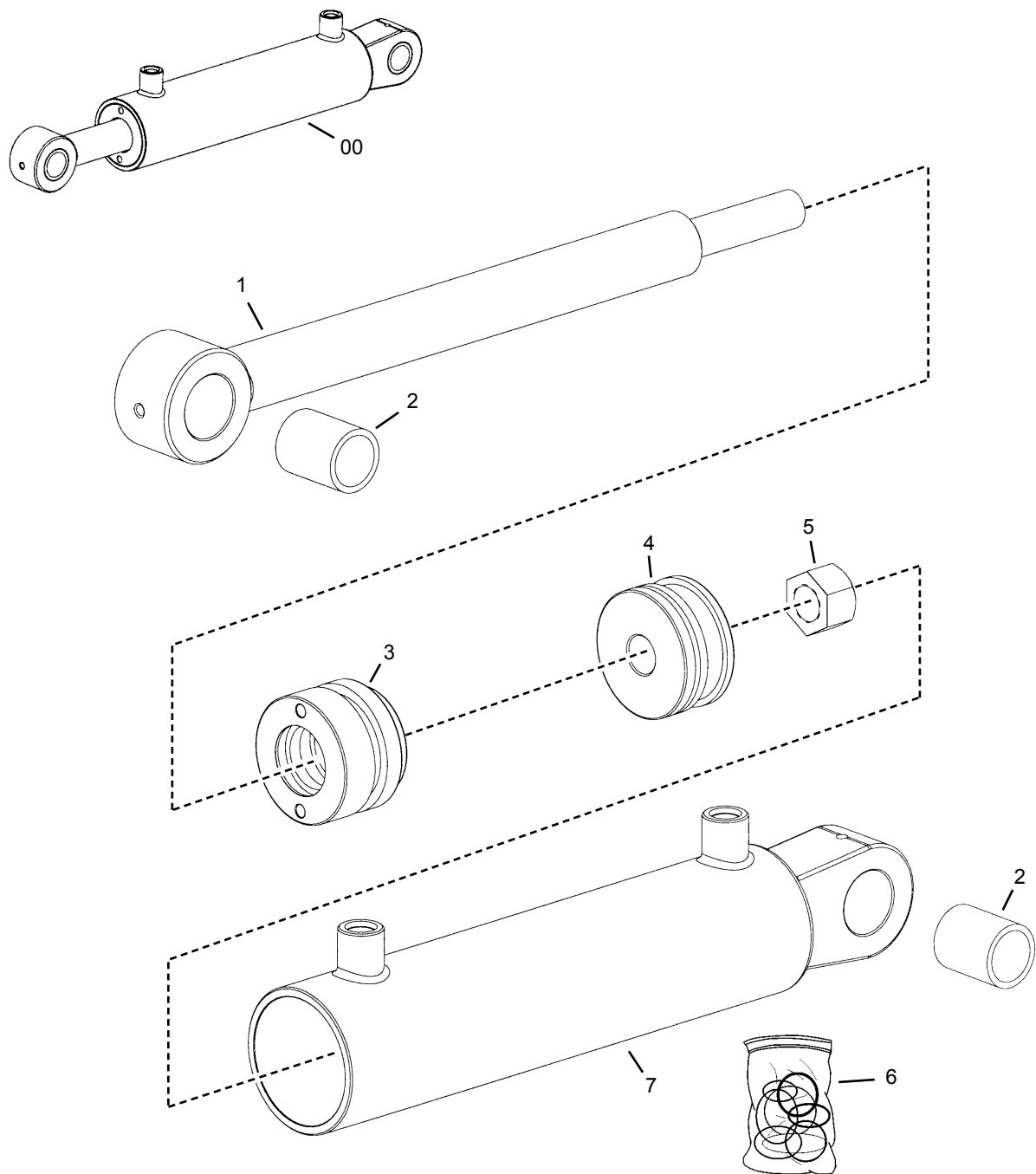


**IMPORTANT:** Before ordering any replacement parts, verify the part number stamped on the cylinder.



Telescopic Handler

Hydraulic Cylinders  
Grapple Cylinder



| Ref. No. | Part No. | Description                     | Qty. Req. | Ref. No. | Part No. | Description                        | Qty. Req. |
|----------|----------|---------------------------------|-----------|----------|----------|------------------------------------|-----------|
| 00       | L67248   | GRAPPLE CYL. (complete).....    | 1         | 04       | 121552   | PISTON .....                       | 1         |
| 01       | L98923   | ROD WELDMENT .....              | 1         | 05       | 080319   | 3/4"-16 UNF LOCKNUT .....          | 1         |
| 02       | L63593   | BUSHING 1" x 1.25" x 1.5" ..... | 2         | 06       | L98922   | SEAL KIT (not all items shown) ... | 1         |
| 03       | L98919   | HEAD GLAND .....                | 1         | 07       | NSS      | CYLINDER TUBE WELDMENT ...         | 1         |

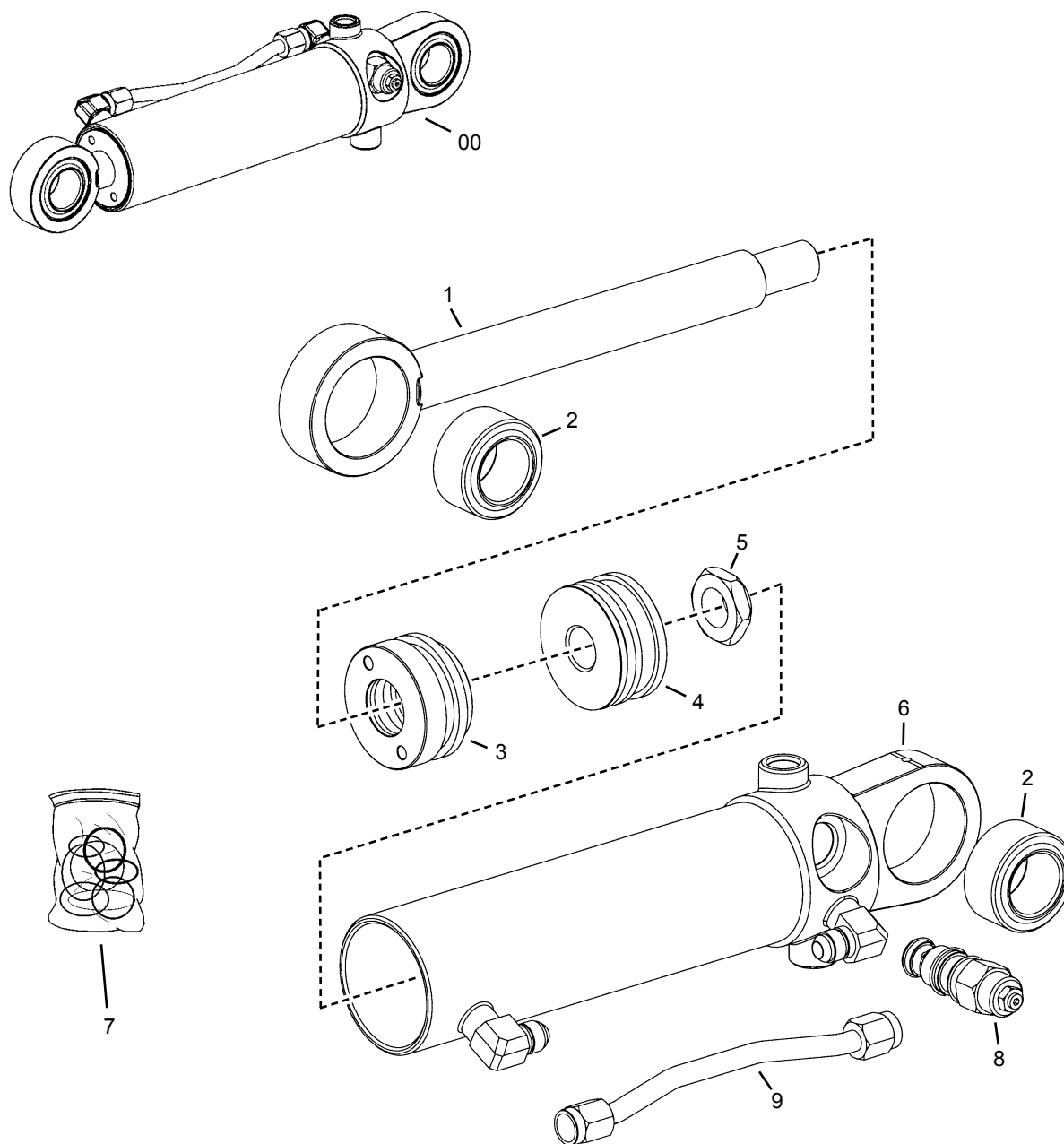
**IMPORTANT:** Before ordering any replacement parts, verify the part number stamped on the cylinder.



## Hydraulic Cylinders

### Rotating-Carriage

## RS Series



| Ref. No.        | Part No. | Description                   | Qty. Req. |
|-----------------|----------|-------------------------------|-----------|
| 00              | L70655   | ROTATING-CARRIAGE CYL. ....   | 1         |
| 01              | L500242  | ROD WELDMENT .....            | 1         |
| 02              | L64122   | SPHERICAL BEARING .....       | 2         |
| 03              | L99074   | HEAD GLAND .....              | 1         |
| 04              | L97839   | PISTON .....                  | 1         |
| 05              | 080313   | 1"-14 UNS THIN COL. LOCKNUT . | 1         |
| 06              | NSS      | TUBE WELDMENT .....           | 1         |
| 07 <sup>a</sup> | L97769   | SEAL KIT .....                | 1         |

| Ref. No. | Part No. | Description                   | Qty. Req. |
|----------|----------|-------------------------------|-----------|
| 08       | L48868A  | CB VALVE (3000 psi) .....     | 2         |
|          | L96838   | CB VALVE SEAL KIT .....       | 1         |
| 09       | L500241  | HYDRAULIC LINE ASSEMBLY. .... | 1         |

<sup>a</sup> Items included in the seal kit are not shown.

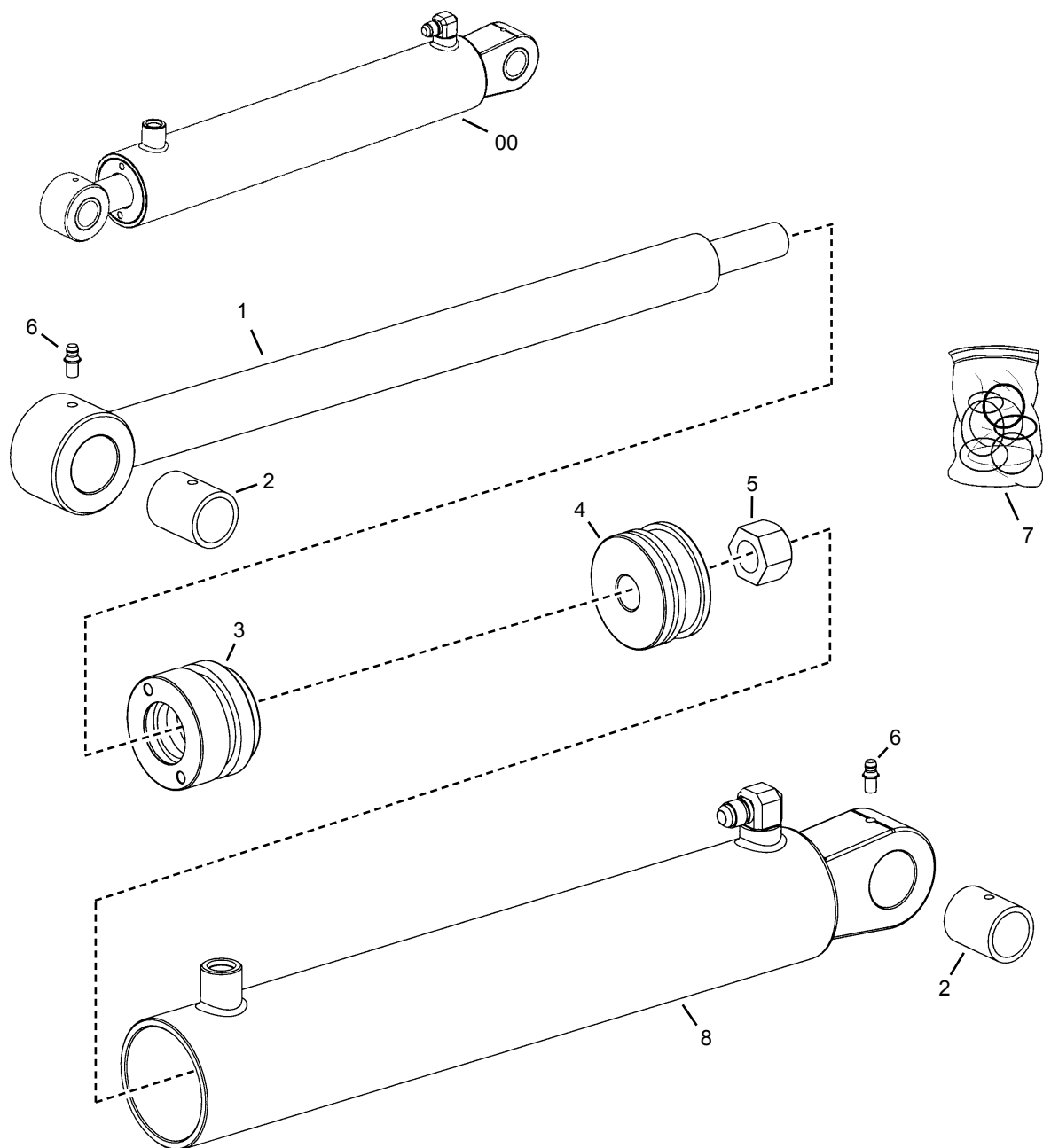


**IMPORTANT:** Before ordering any replacement parts, verify the part number stamped on the cylinder.



# Telescopic Handler

# Hydraulic Cylinders Swing-Carriage



| Ref. No. | Part No. | Description                | Qty. Req. |
|----------|----------|----------------------------|-----------|
| 00       | L63970   | SWING-CARRIAGE CYLINDER... | 1         |
| 01       | L500364  | ROD WELDMENT.....          | 1         |
| 02       | L63593   | BUSHING.....               | 2         |
| 03       | L500365  | HEAD GLAND.....            | 1         |
| 04       | L98662   | PISTON.....                | 1         |
| 05       | 080319   | 3/4"-16 LOCKNUT.....       | 1         |
| 06       | L10465   | 1/4"-28 GREASE ZERK.....   | 2         |

| Ref. No. | Part No. | Description        | Qty. Req. |
|----------|----------|--------------------|-----------|
| 07a      | L99944   | SEAL KIT.....      | 1         |
| 08       | NSS      | TUBE WELDMENT..... | 1         |

a Items included in the seal kit are not shown.



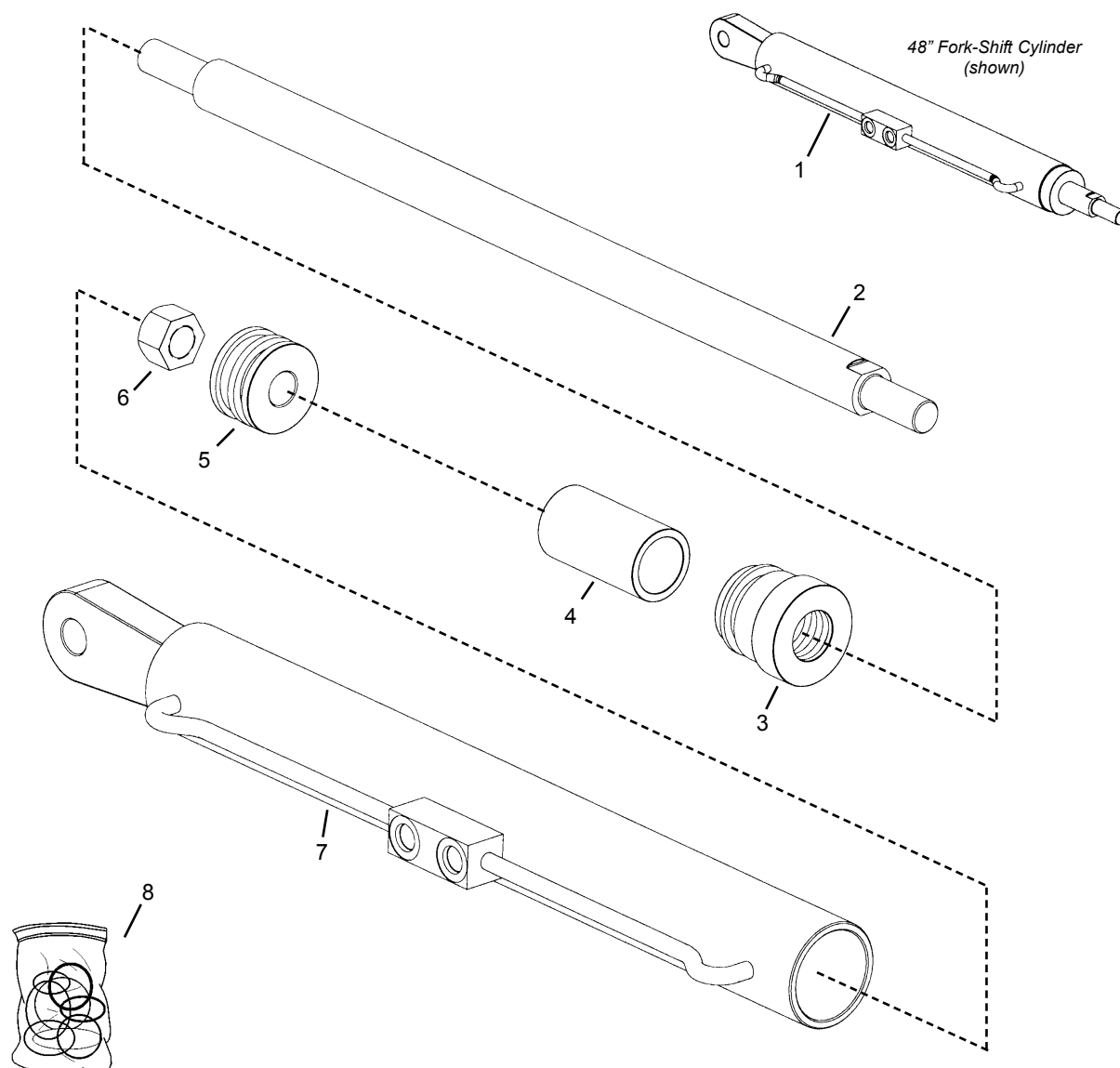
**IMPORTANT:** Before ordering any replacement parts, verify the part number stamped on the cylinder.



# Hydraulic Cylinders

## 48" and 72" Fork-Shift

## RS Series



| Ref. No.        | Part No. | Description                          | Qty. Req. |
|-----------------|----------|--------------------------------------|-----------|
| 01              | 210932   | FORK-SHIFT CYLINDER . . . . . 1      |           |
|                 | 210901   | 48" Fork-Shift Carriage              |           |
| 02              |          | 72" Fork-Shift Carriage              |           |
|                 |          | CYLINDER ROD . . . . . 1             |           |
|                 | 106959   | Note a                               |           |
|                 | 106961   | Note b                               |           |
| 03              |          | HEAD GLAND . . . . . 1               |           |
|                 | L500762  | Note a                               |           |
|                 | 121565   | Note b                               |           |
| 04 <sup>c</sup> | 106960   | ROD SPACER (72" cylinder only) . . 1 |           |
| 05              | L500761  | PISTON . . . . . 1                   |           |
| 06              | 080319   | LN 0.75"-16 UNF . . . . . 1          |           |

| Ref. No. | Part No. | Description               | Qty. Req. |
|----------|----------|---------------------------|-----------|
| 07       | NSS      | TUBE WELDMENT . . . . . 1 |           |
| 08       |          | SEAL KIT . . . . . 1      |           |
|          | L500370  | Note a                    |           |
|          | 106962   | Note b                    |           |

- a Used with 48" fork-shift carriage cylinder (210932)
- b Used with 72" fork-shift carriage cylinder (210901)
- c Rod spacer is only used with the 72" fork-shift cylinder (210901).



**NOTE:** Items in seal kits are not shown.

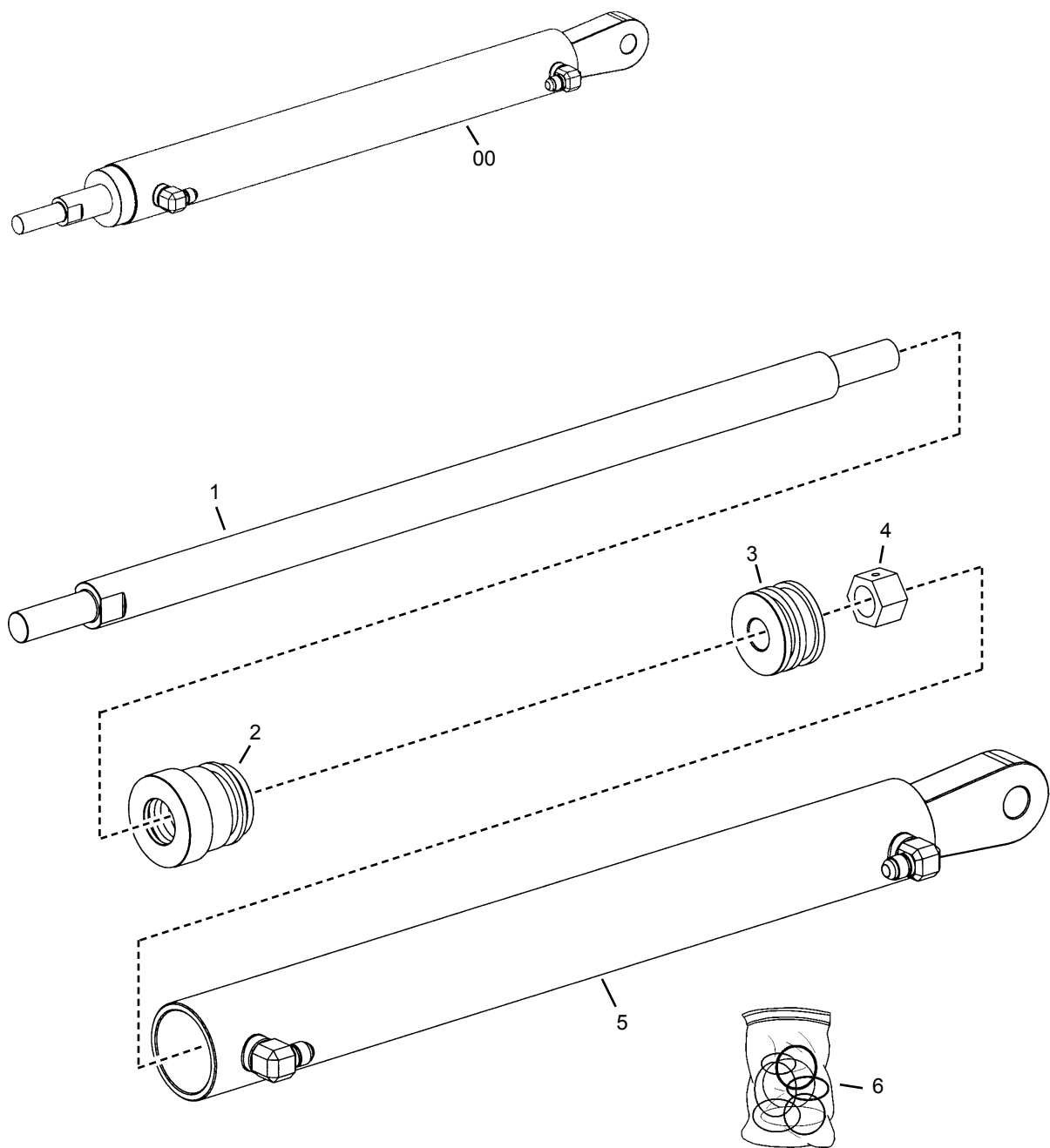


**IMPORTANT:** Before ordering any replacement parts, verify the part number stamped on the cylinder.



# Telescopic Handler

# Hydraulic Cylinders 50" Fork-Shift



| Ref. No. | Part No. | Description               | Qty. Req. |
|----------|----------|---------------------------|-----------|
| 00       | L68337   | FORK-SHIFT CYLINDER ..... | 1         |
| 01       | L500763  | ROD WELDMENT .....        | 1         |
| 02       | L500762  | HEAD GLAND .....          | 1         |
| 03       | L500761  | PISTON .....              | 1         |
| 04       | 080319   | 3/4"-16 UNF LOCKNUT ..... | 1         |

| Ref. No.        | Part No. | Description         | Qty. Req. |
|-----------------|----------|---------------------|-----------|
| 05              | NSS      | TUBE WELDMENT ..... | 1         |
| 06 <sup>a</sup> | L500370  | SEAL KIT .....      | 1         |

<sup>a</sup> Items included in the seal kit are not shown.

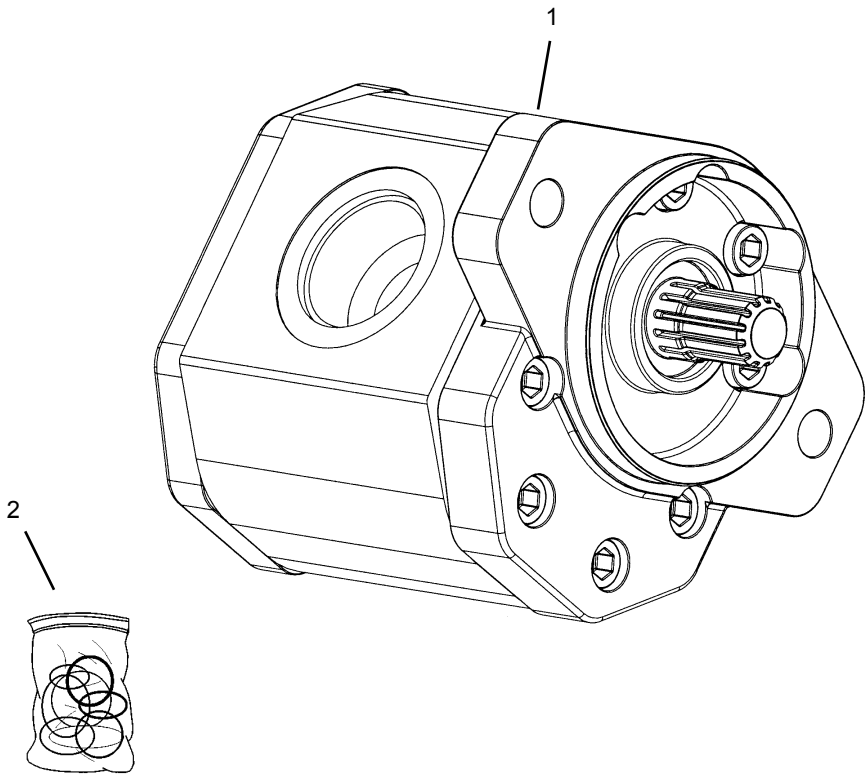


**IMPORTANT:** Before ordering any replacement parts, verify the part number stamped on the cylinder.



**Hydraulic Components**  
***Hydraulic Pump***

**RS Series**



| Ref. No. | Part No. | Description                     | Qty. Req. |
|----------|----------|---------------------------------|-----------|
| 01       | 102498   | HYDRAULIC PUMP .....            | 1         |
|          | L46865   | GASKET, PUMP .....              | 1         |
|          |          | (between pump and transmission) |           |

| Ref. No.        | Part No. | Description                     | Qty. Req. |
|-----------------|----------|---------------------------------|-----------|
| 02 <sup>a</sup> | 103018   | SEAL KIT .....                  | 1         |
| a               |          | Individual seals are not shown. |           |

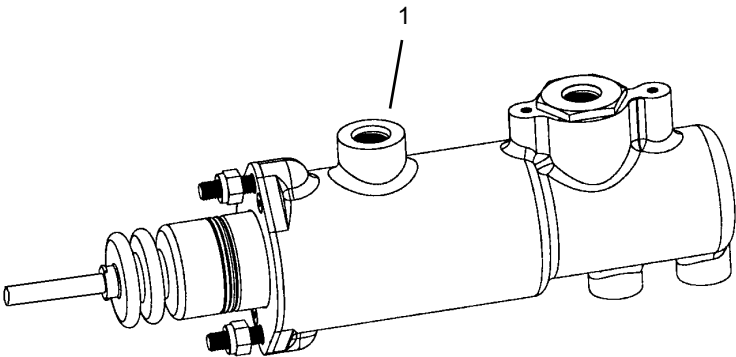


**NOTE:** Field service is limited to the replacement of seals only.



Telescopic Handler

Hydraulic Components  
*Brake Cylinder with Booster*



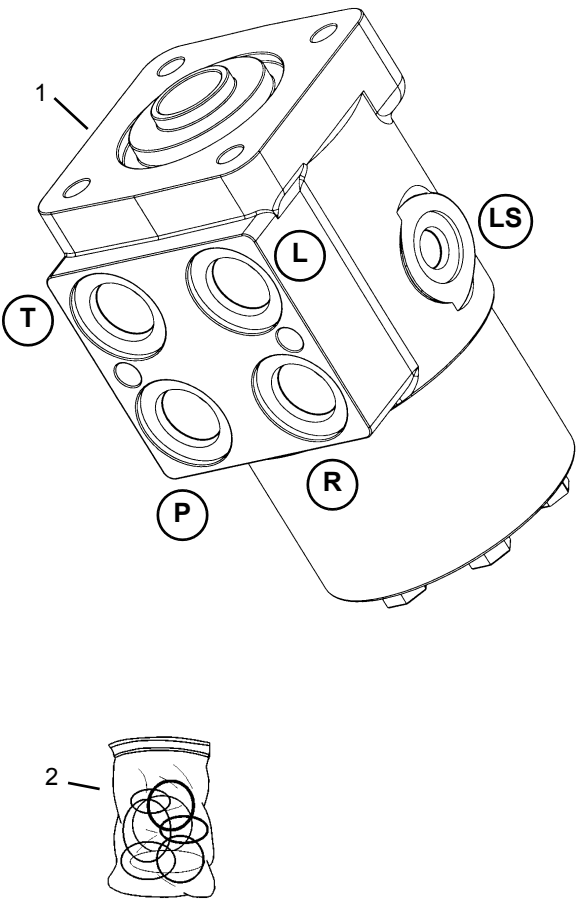
| Ref. No. | Part No. | Description                   | Qty. Req. |
|----------|----------|-------------------------------|-----------|
| 01       | 210253   | BRAKE CYLINDER, BOOSTER . . . | 1         |





**Hydraulic Components**  
**Steer Motor**

**RS Series**



| Ref. No. | Part No. | Description                     | Qty. Req. | Ref. No. | Part No. | Description                                                  | Qty. Req. |
|----------|----------|---------------------------------|-----------|----------|----------|--------------------------------------------------------------|-----------|
| 01       | 101880   | STEERING CONTROL UNIT . . . . . | 1         | 02       | L500968  | SEAL KIT . . . . .<br><i>(Items included are not shown.)</i> | 1         |



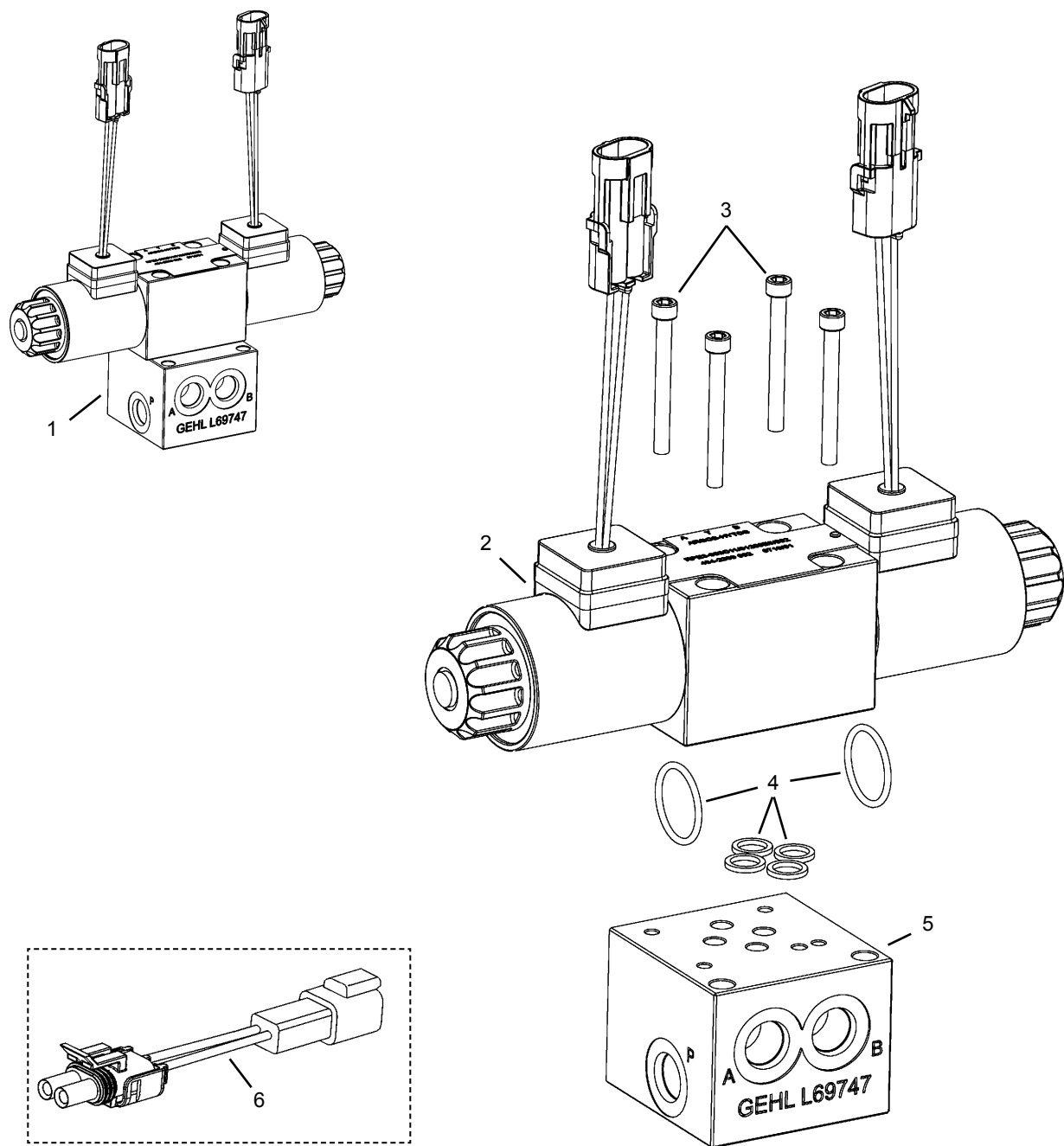
**NOTE:** *Field service is limited to the replacement of seals only.*



# Telescopic Handler

# Hydraulic Components

## Steer Select Valve



| Item No. | Part No. | Description                                            | Qty. Req. |
|----------|----------|--------------------------------------------------------|-----------|
| 01       | L69747   | STEER SELECT VALVE..... 1<br>(Includes items 1-5)      |           |
| 02       | 210018   | WEATHER PAK VALVE..... 1                               |           |
| 03       | NSS      | SHCS #10-24 x 1-3/4"..... 4<br>(included with item #1) |           |
| 04       | 107000   | SEAL KIT ..... 1<br>(consists of the o-rings shown)    |           |

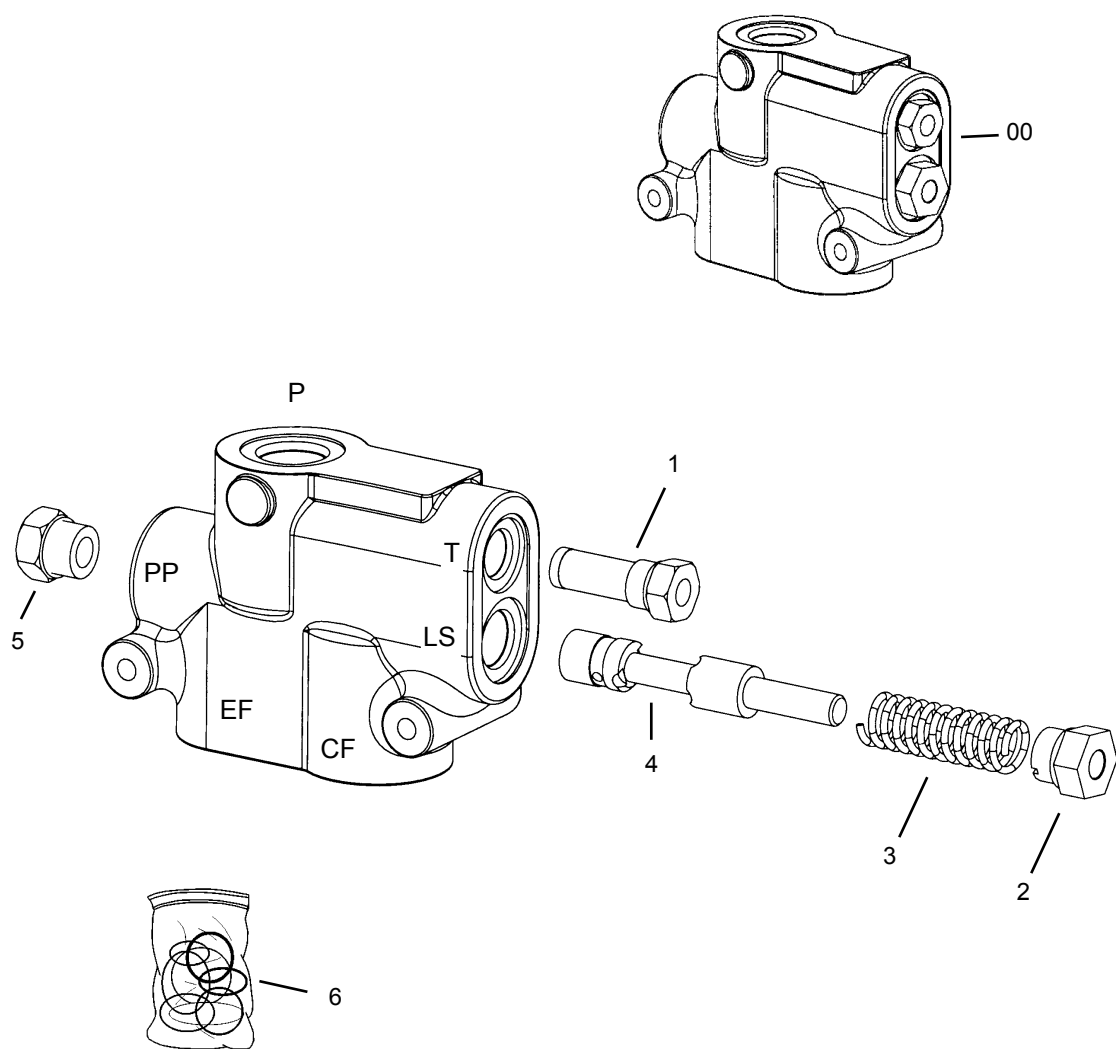
| Item No.              | Part No. | Description                                                    | Qty. Req. |
|-----------------------|----------|----------------------------------------------------------------|-----------|
| 05                    | NSS      | MANIFOLD ..... 1                                               |           |
| 06                    | 50380338 | WIRE HARNESS, JUMPER ..... 2                                   |           |
| -- ITEMS NOT SHOWN -- |          |                                                                |           |
| 00                    | L68711   | WIRE HARNESS ..... 2<br>(Connects wire leads to frame wiring.) |           |



# Hydraulic Components

## Priority Valve

# RS Series

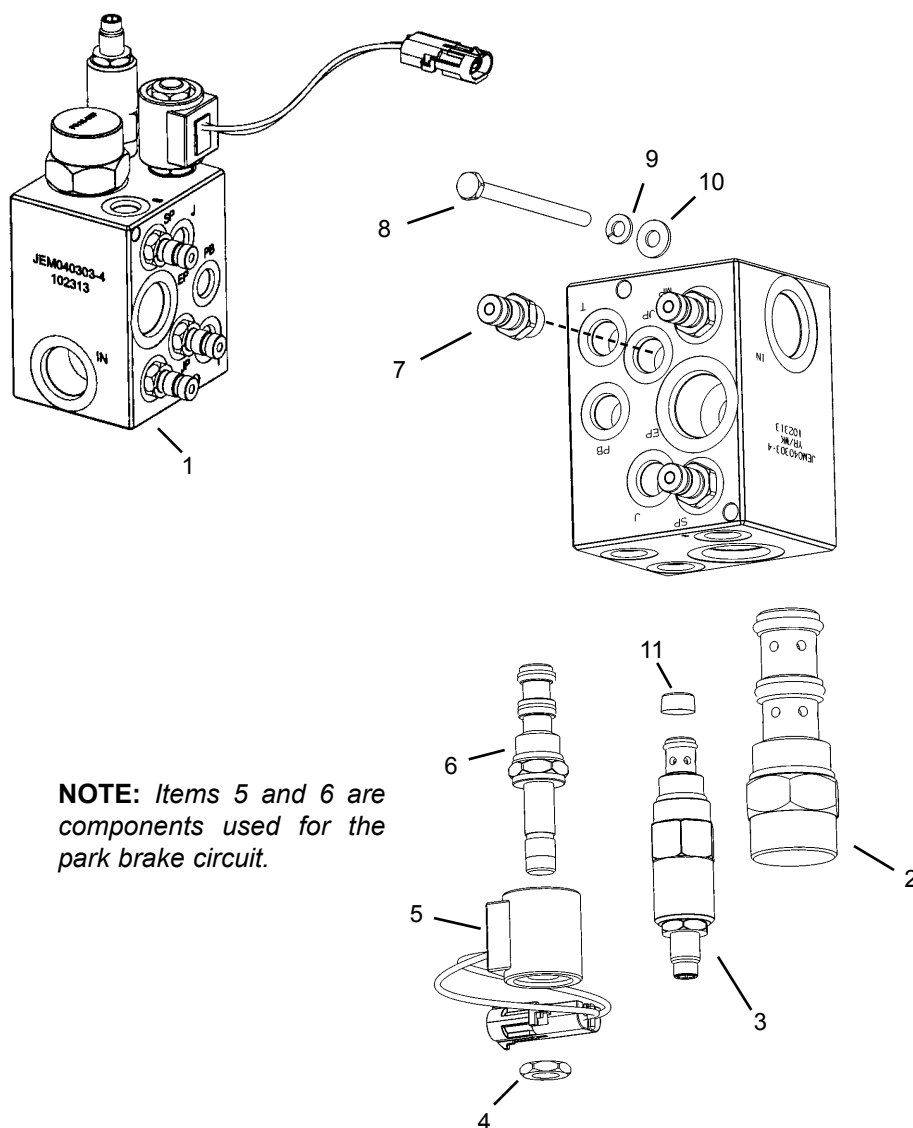


| Ref. No. | Part No. | Description                                         | Qty. Req. |
|----------|----------|-----------------------------------------------------|-----------|
| 00       | 104132   | PRIORITY VALVE .....1<br>(includes all items shown) |           |
| 01       | 104133   | RELIEF CARTRIDGE ASY. ....1                         |           |
| 02       | NSS      | PLUG ASY .....1                                     |           |
| 03       | NSS      | SPRING .....1                                       |           |

| Ref. No.                                      | Part No. | Description     | Qty. Req. |
|-----------------------------------------------|----------|-----------------|-----------|
| 04                                            | NSS      | SPOOL .....1    |           |
| 05                                            | NSS      | PLUG .....1     |           |
| 06 <sup>a</sup>                               | L97655   | SEAL KIT .....1 |           |
| <sup>a</sup> Items in seal kit are not shown. |          |                 |           |



## Telescopic Handler

Hydraulic Components  
Flow Divider Valve

| Ref. No. | Part No. | Description                   | Qty. Req. | Ref. No. | Part No. | Description                     | Qty. Req. |
|----------|----------|-------------------------------|-----------|----------|----------|---------------------------------|-----------|
| 01       | 102313   | FLOW DIVIDER VALVE . . . . .  | 1         | 07       | P471997  | TEST PORT . . . . .             | 3         |
|          |          | (includes items 1-7)          |           |          | L62840   | CAP, DUST COVER (not shown) . . | 3         |
| 02       | 103017   | PILOTED SPOOL LOGIC ELEM. . . | 1         |          | L62933   | FEMALE COUPLER (optional)       |           |
| 03       | L99927   | RELIEF VALVE . . . . .        | 1         | 08       | L50217   | 1/4"-20X3-1/2" BOLT . . . . .   | 2         |
|          | L99925   | SEAL KIT . . . . .            | 1         | 09       | L50139   | 1/4" LOCK WASHER . . . . .      | 2         |
| 04       | NSS      | NUT, SOLENOID VALVE . . . . . | 1         | 10       | L50137   | 1/4" FLAT WASHER . . . . .      | 2         |
|          |          | (included with item 5)        |           | 11       | 105087   | SCREEN . . . . .                | 1         |
| 05       | L99908   | 12 VDC WEATHER PACK COIL . .  | 1         |          |          |                                 |           |
|          |          | (includes item 4)             |           |          |          |                                 |           |
| 06       | L99910   | SOLENOID VALVE . . . . .      | 1         |          |          |                                 |           |
|          | L99911   | SEAL KIT . . . . .            | 1         |          |          |                                 |           |



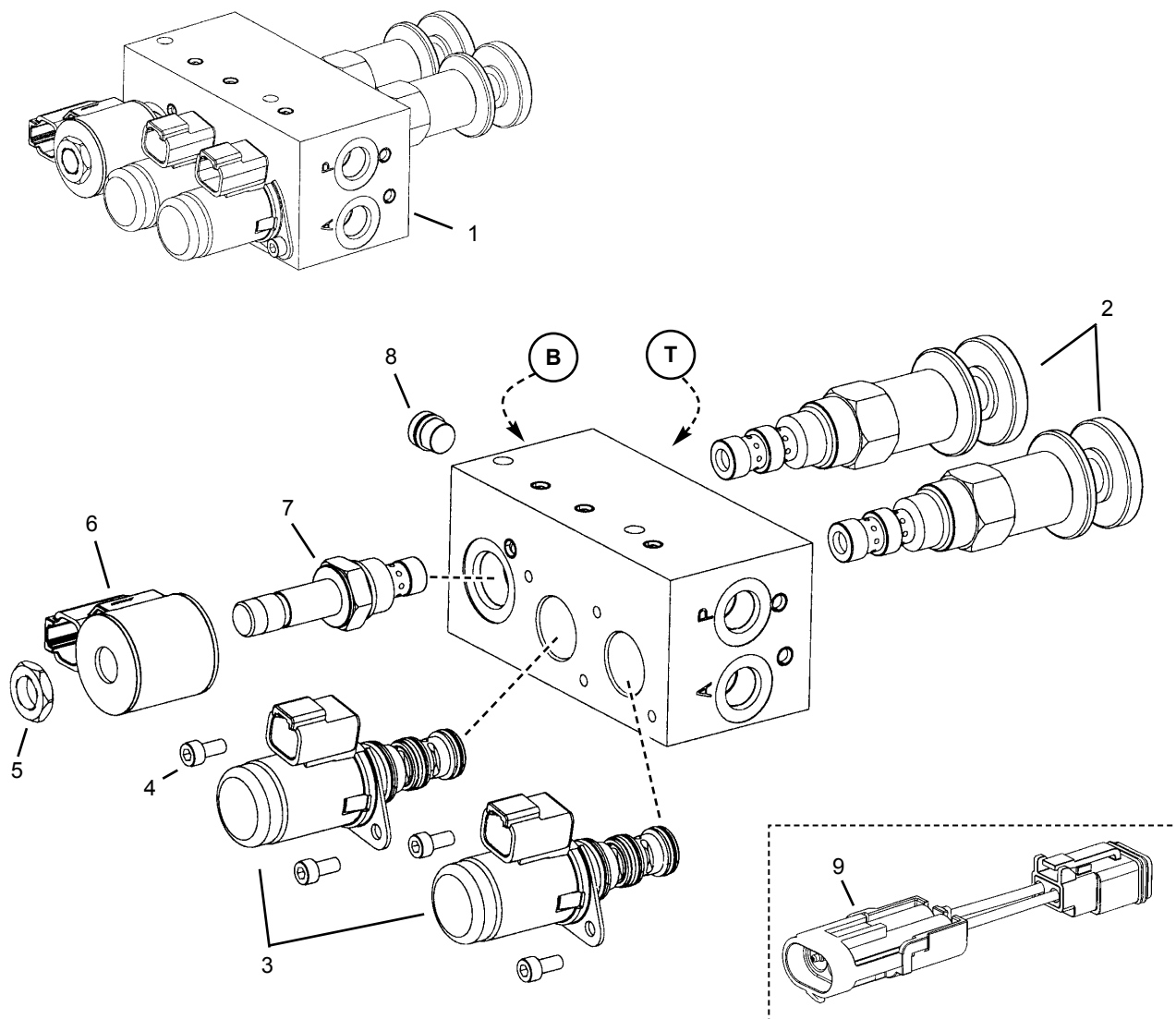
**NOTE:** Individual items included in the seal kits are not shown.



# Hydraulic Components

## RS Series

### Pilot Apply Valve - Tri-Function Controller



| Ref. No.        | Part No. | Description                                                                  | Qty. Req. | Ref. No. | Part No. | Description                  | Qty. Req. |
|-----------------|----------|------------------------------------------------------------------------------|-----------|----------|----------|------------------------------|-----------|
| 01 <sup>a</sup> | 106898   | PILOT APPLY MANIFOLD..... <sup>a</sup><br>(includes all items except item 9) |           | 07       | L500746  | VALVE, 2-WAY .....           | 1         |
| 02              | L500745  | PRESSURE CONTROL .....                                                       | 2         |          | L99924   | SEAL KIT, 2-WAY VALVE .....  | 1         |
|                 | L99911   | SEAL KIT .....                                                               | 2         | 08       | L99917   | PLUG -4 NWD STYLE .....      | 1         |
| 03              | 244655   | CARTRIDGE, 3-WAY/2-POSITION .                                                | 2         | 09       | 211161   | WIRE HARNESS, TILT CONTROL . | 1         |
|                 | 240202   | SEAL KIT (for one cartridge) . . .                                           | AR        |          |          |                              |           |
| 04              | 240197   | SCHS M5-0.08X10MM .....                                                      | 4         |          |          |                              |           |
| 05              | NSS      | COIL NUT (included with item 7) . .                                          | 1         |          |          |                              |           |
| 06              | 104736   | COIL, 12VDC.....                                                             | 1         |          |          |                              |           |

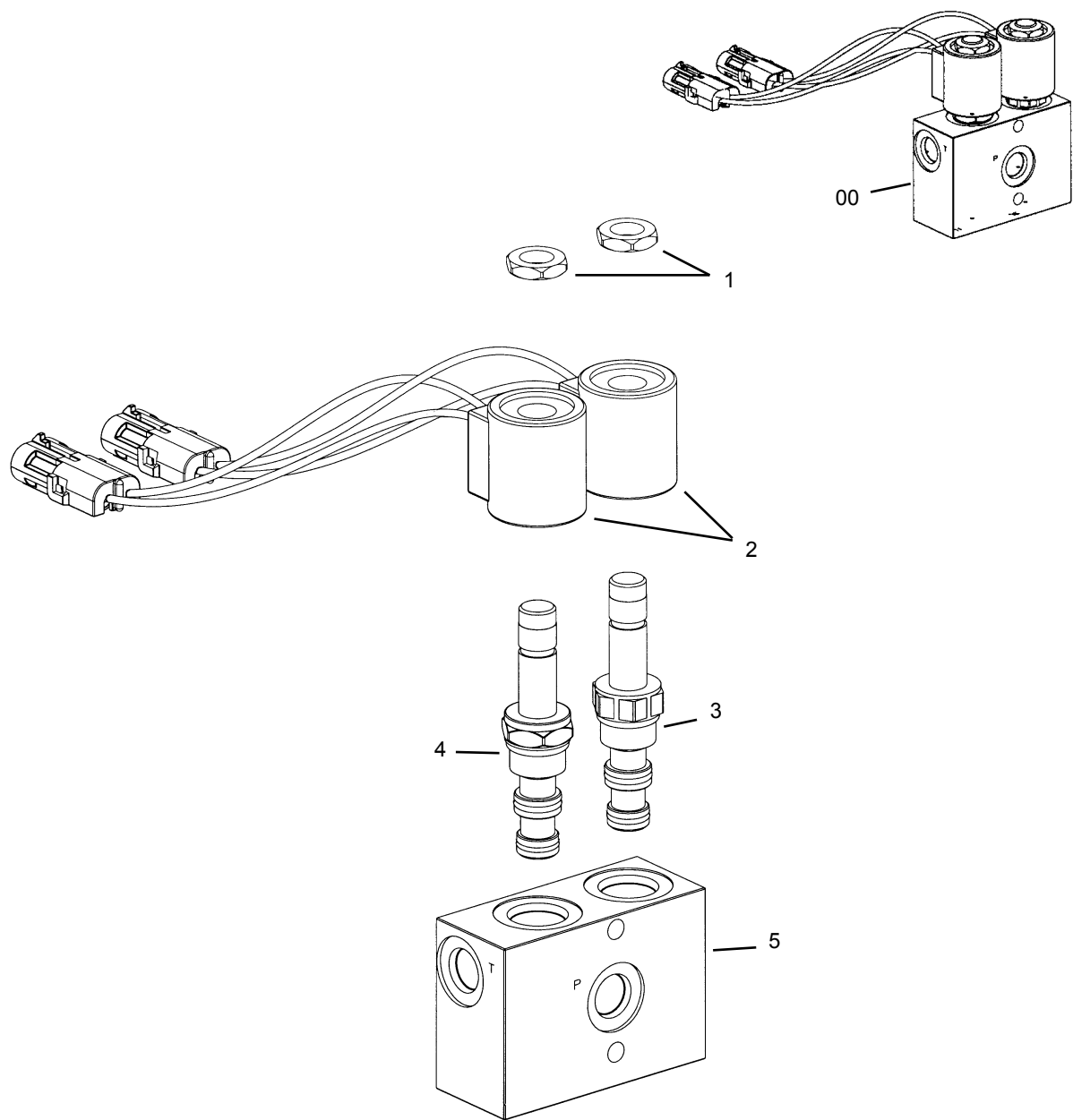
<sup>a</sup> Units equipped with Auxiliary Hydraulics use  
(2) 106898 Pilot Apply Manifolds.



# Telescopic Handler

# Hydraulic Components

## PWP/WPS Valve



| Ref. No. | Part No. | Description                     | Qty. Req. |
|----------|----------|---------------------------------|-----------|
| 00       | 102321   | PWP/WPS VALVE .....             | 1         |
| 01       | NSS      | NUT, SOLENOID VALVE .....       | 2         |
|          |          | (included with item 3 and 4)    |           |
| 02       | L99908   | 12 VDC WEATHER PACK COIL ...    | 2         |
| 03       | L99909   | SOLENOID VALVE .....            | 1         |
|          | L99911   | SEAL KIT .....                  | 1         |
|          |          | (Items included are not shown.) |           |

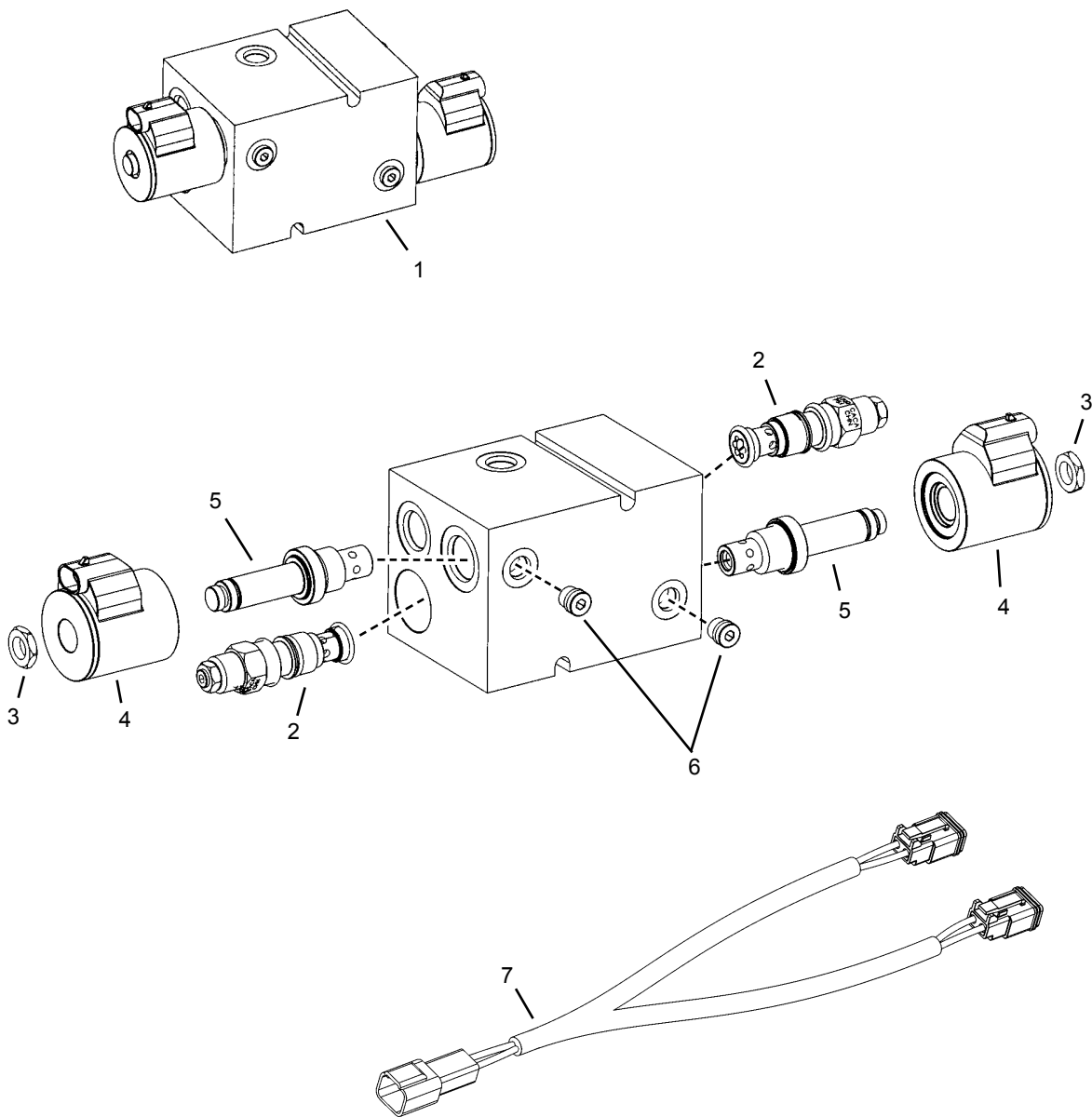
| Ref. No. | Part No. | Description                     | Qty. Req. |
|----------|----------|---------------------------------|-----------|
| 04       | L99910   | SOLENOID VALVE .....            | 1         |
|          | L99911   | SEAL KIT .....                  | 1         |
|          |          | (Items included are not shown.) |           |
| 05       | NSS      | MANIFOLD .....                  | 1         |



# Hydraulic Components

## Frame Stabilizing Valve

# RS Series



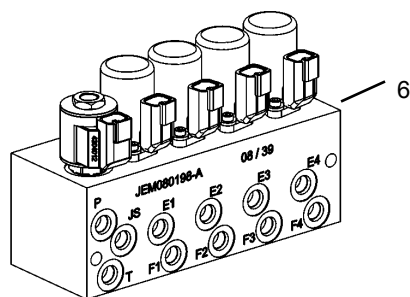
| Ref. No. | Part No. | Description                                                              | Qty. Req. | Ref. No. | Part No. | Description                                 | Qty. Req. |
|----------|----------|--------------------------------------------------------------------------|-----------|----------|----------|---------------------------------------------|-----------|
| 01       | 102877   | FRAME STABILIZING VALVE . . . . . 1<br><i>(includes all items shown)</i> |           | 05       | 103152   | CARTRIDGE <i>(only)</i> . . . . . 2         |           |
| 02       | 102878   | COUNTER BAL. VALVE 3700PSI. . 2                                          |           |          | L99916   | SEAL KIT <i>(included with cartridge)</i> 2 |           |
|          | 104820   | CBV SEAL KIT . . . . . 2                                                 |           | 06       | L99917   | PLUG -4ORM . . . . . 2                      |           |
| 03       | NSS      | NUT <i>(included with item 5)</i> . . . . . 2                            |           | 07       | 50380318 | WIRE HARNESS, STABILIZER . . . 1            |           |
| 04       | 103151   | E-COIL 12VDC . . . . . 2                                                 |           |          |          |                                             |           |



**NOTE:** Individual items included in the seal kits are not shown.



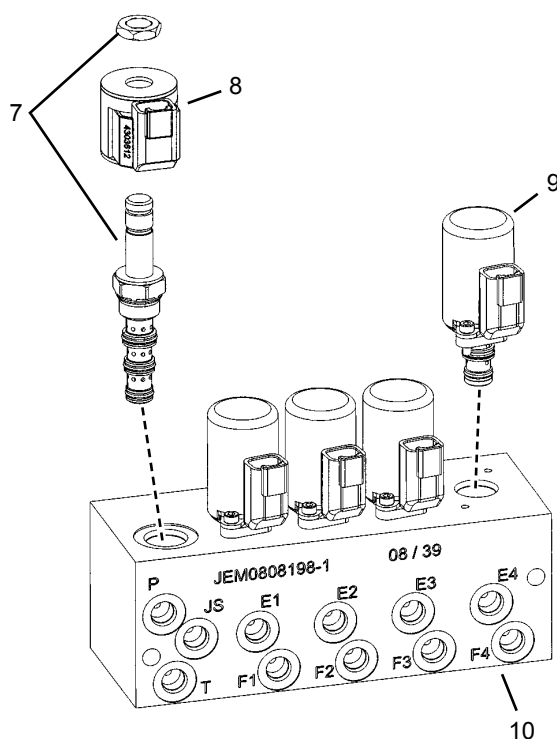
## Telescopic Handler



Late-Style

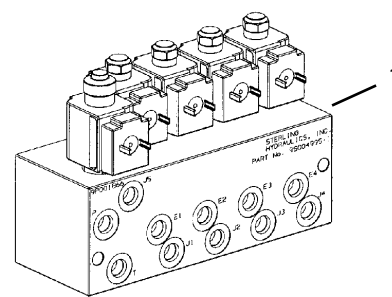


**NOTE:** Before ordering, verify the manifold on the machine matches with the one in the illustration.

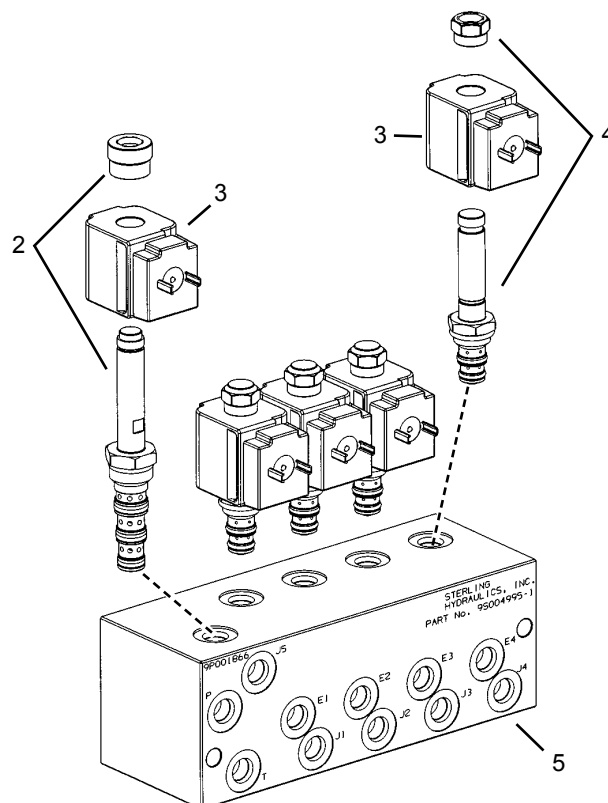


| Item No. | Part No. | Description                                                         | Qty. Req. |
|----------|----------|---------------------------------------------------------------------|-----------|
| 06       | 50380273 | COMPLETE VALVE . . . . . 1<br>(includes all items shown and listed) |           |
| 07       | 50220634 | 2/4 WAY SOLENOID VALVE . . . . . 1                                  |           |
|          | 50220635 | SEAL KIT FOR VALVE . . . . . 1                                      |           |
| 08       | 104736   | 12 VDC COIL (WEATHERPAK). . . . . 1                                 |           |
| 09       | 50220631 | PROPORTIONAL PRESS. VALVE . 4                                       |           |
|          | 50220632 | SEAL KIT (one per valve) . . . . . 4                                |           |
|          | 50220633 | SCREWS, M4-0.7x12mm . . . . . 8<br>(not shown)                      |           |
| 10       | NSS      | MANIFOLD . . . . . 1                                                |           |

## Hydraulic Components Radio Remote Valve



Early-Style



| Item No.                     | Part No. | Description                                                                | Qty. Req. |
|------------------------------|----------|----------------------------------------------------------------------------|-----------|
| 01                           | 103413   | RADIO REMOTE MANIFOLD . . . . . 1<br>(includes all items shown and listed) |           |
| 02                           | 103508   | 2/4 WAY SOLENOID VALVE . . . . . 1                                         |           |
|                              | 103511   | SEAL KIT FOR VALVE . . . . . 1                                             |           |
| 03                           | 103510   | 12 VDC COIL (DIN CONN.) . . . . . 5                                        |           |
| 04                           | 103509   | PROPORTIONAL PRESS. VALVE . 4                                              |           |
|                              | 103512   | SEAL KIT FOR VALVE . . . . . AR                                            |           |
| 05                           | NSS      | MANIFOLD . . . . . 1                                                       |           |
| <b>-- ITEMS NOT SHOWN --</b> |          |                                                                            |           |
| --                           | 103514   | SHUTTLE VALVE . . . . . 4                                                  |           |
| --                           | 103513   | SEAL KIT FOR VALVE . . . . . AR                                            |           |

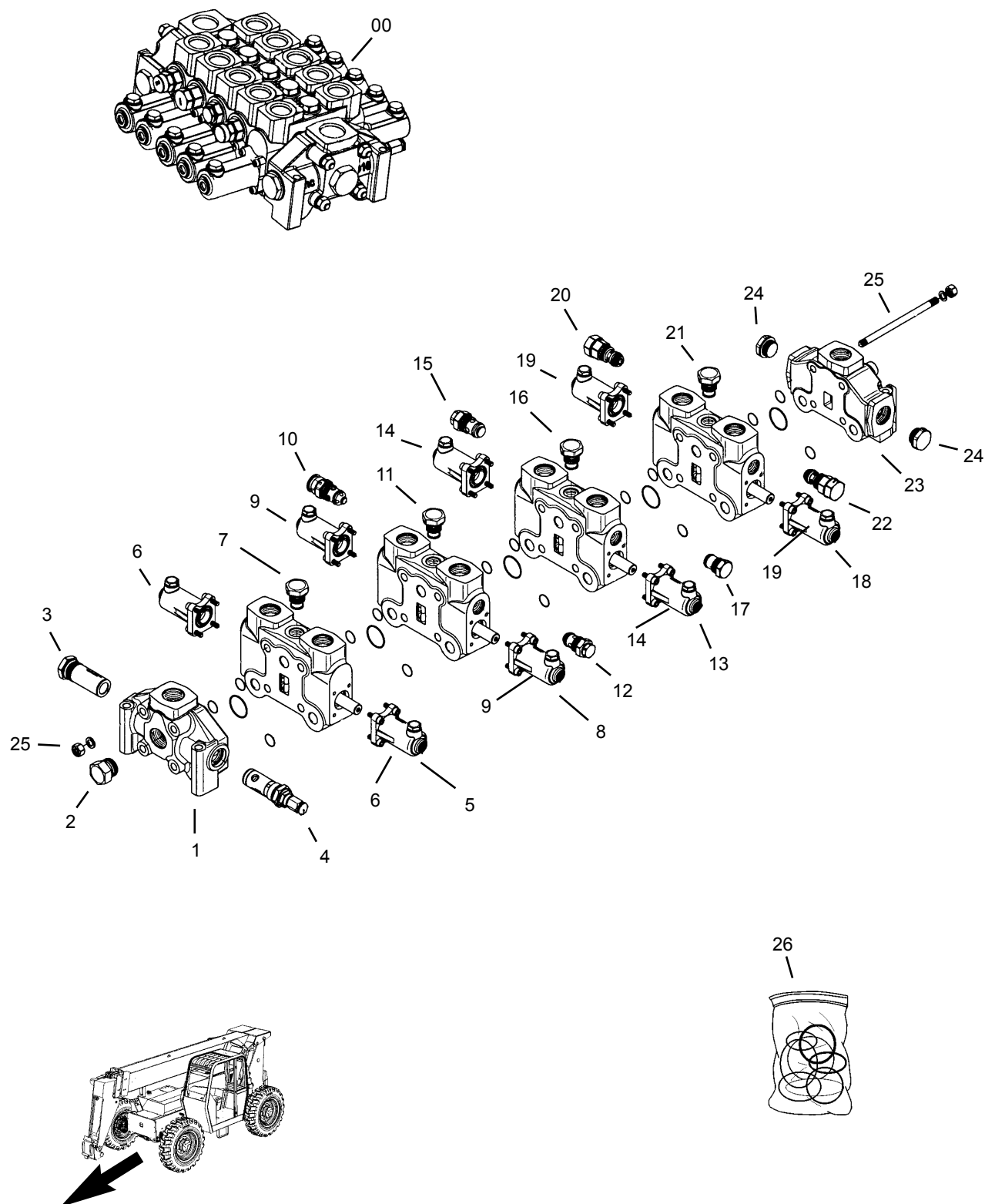




# Hydraulic Components

## Main Valve

## RS Series





## Telescopic Handler

## Hydraulic Components

## Main Valve

| Ref. No.        | Part No. | Description                       | Qty. Req. | Ref. No.        | Part No. | Description                                                                                                                                                                                              | Qty. Req. |
|-----------------|----------|-----------------------------------|-----------|-----------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 00              |          | MAIN HYDRAULIC VALVE . . . . .    | 1         | 24 <sup>h</sup> | 103068   | PLUG . . . . .                                                                                                                                                                                           | AR        |
|                 | 102356   | Note x - (4-section valve)        |           | 25 <sup>i</sup> |          | TIE ROD KIT . . . . .                                                                                                                                                                                    | 4         |
|                 | 210320   | Note y - (5-section valve—shown)  |           |                 |          | (includes 1 bolt, 2 nuts & 2 washers)                                                                                                                                                                    |           |
| 01 <sup>a</sup> | 103054   | INLET SECTION . . . . .           | 1         |                 | 103059   | FOUR-SECTION VALVE                                                                                                                                                                                       |           |
|                 |          | (includes items 1-4)              |           |                 | 102807   | FIVE-SECTION VALVE                                                                                                                                                                                       |           |
| 02 <sup>h</sup> | 103051   | PLUG KIT 1-5/16" UNF . . . . .    | 1         | 26 <sup>f</sup> | 103062   | SEAL KIT . . . . .                                                                                                                                                                                       | 1         |
| 03 <sup>h</sup> | 103050   | PLUG KIT . . . . .                | 1         |                 |          |                                                                                                                                                                                                          |           |
| 04              | 103049   | PILOT OPERATED RELIEF VLV . . .   | 1         |                 |          |                                                                                                                                                                                                          |           |
|                 |          | (with copper washer—seal)         |           | a               |          | Use seal kit #103063 for all related seals.                                                                                                                                                              |           |
| 05 <sup>b</sup> | 103055   | WORK SECTION (Frame Level) . . .  | 1         | b               |          | Use seal kit #103075 for all related seals.                                                                                                                                                              |           |
|                 |          | (includes items 5-7)              |           | c               |          | Use seal kit #103065 for all related seals.                                                                                                                                                              |           |
| 06 <sup>g</sup> | 103053   | HYD. CONTROL KIT (actuator) . . . | 1         | d               |          | Use seal kit #103066 for all related seals.                                                                                                                                                              |           |
| 07 <sup>h</sup> | 103052   | CHECK VALVE . . . . .             | 1         | e               |          | Use seal kit #103067 for all related seals.                                                                                                                                                              |           |
| 08 <sup>c</sup> | 103056   | WORK SECTION (Boom In/out) . . .  | 1         | f               |          | Items included with seal kit are not shown in detail.<br>For five-section valves, order seal kits:<br>(1)103062 main valve seal kit and (1) 103087<br>auxiliary section seal kit.                        |           |
|                 |          | (includes items 8-12)             |           |                 |          |                                                                                                                                                                                                          |           |
| 09 <sup>g</sup> | 103053   | HYD. CONTROL KIT (actuator) . . . | 1         | g               |          | Includes outer caps, o-rings, bolts, plug and<br>internal spool spring for this work section; does<br>not include o-rings for valves/plugs or the spool.                                                 |           |
| 10 <sup>h</sup> | 103048   | ANTI-SHOCK VALVE (140 BAR) . . .  | 1         | h               |          | Includes required seals/o-rings for this valve/plug.<br>Seals/o-rings for this valve are not sold individually,<br>however they are included with the work section<br>seal kit where this valve is used. |           |
| 11 <sup>h</sup> | 103052   | CHECK VALVE . . . . .             | 1         | i               |          | Order four kits to replace all four studs, eight nuts<br>and eight washers.                                                                                                                              |           |
| 12 <sup>h</sup> | 103046   | ANTI-CAVITATION VALVE . . . . .   | 1         |                 |          |                                                                                                                                                                                                          |           |
| 13 <sup>d</sup> | 103057   | WORK SECTION (Boom Up/Down) 1     |           | x               |          | Does not include auxiliary hydraulics valve section.                                                                                                                                                     |           |
|                 |          | (includes items 13-17)            |           | y               |          | Includes auxiliary hydraulics valve section (not<br>shown) refer to next page for information regarding<br>auxiliary hydraulics work section.                                                            |           |
| 14 <sup>g</sup> | 103053   | HYD. CONTROL KIT (actuator) . . . | 1         |                 |          |                                                                                                                                                                                                          |           |
| 15 <sup>h</sup> | 103046   | ANTI-CAVITATION VALVE . . . . .   | 1         |                 |          |                                                                                                                                                                                                          |           |
| 16 <sup>h</sup> | 103052   | CHECK VALVE . . . . .             | 1         |                 |          |                                                                                                                                                                                                          |           |
| 17 <sup>h</sup> | 103047   | KIT PLUG . . . . .                | 1         |                 |          |                                                                                                                                                                                                          |           |
| 18 <sup>e</sup> | 103058   | WORK SECTION (Tilt) . . . . .     | 1         |                 |          |                                                                                                                                                                                                          |           |
|                 |          | (includes items 18-22)            |           |                 |          |                                                                                                                                                                                                          |           |
| 19 <sup>g</sup> | 103053   | HYD. CONTROL KIT (actuator) . . . | 1         |                 |          |                                                                                                                                                                                                          |           |
| 20 <sup>h</sup> | 50380891 | VALVE/COMB-ANTI-CAV. . . . .      | 1         |                 |          |                                                                                                                                                                                                          |           |
| 21 <sup>h</sup> | 103052   | CHECK VALVE . . . . .             | 1         |                 |          |                                                                                                                                                                                                          |           |
| 22 <sup>h</sup> | 50380891 | VALVE/COMB-ANTI-CAV. . . . .      | 1         |                 |          |                                                                                                                                                                                                          |           |
| 23              | 103061   | OUTLET SECTION . . . . .          | 1         |                 |          |                                                                                                                                                                                                          |           |
|                 |          | (includes item 24)                |           |                 |          |                                                                                                                                                                                                          |           |

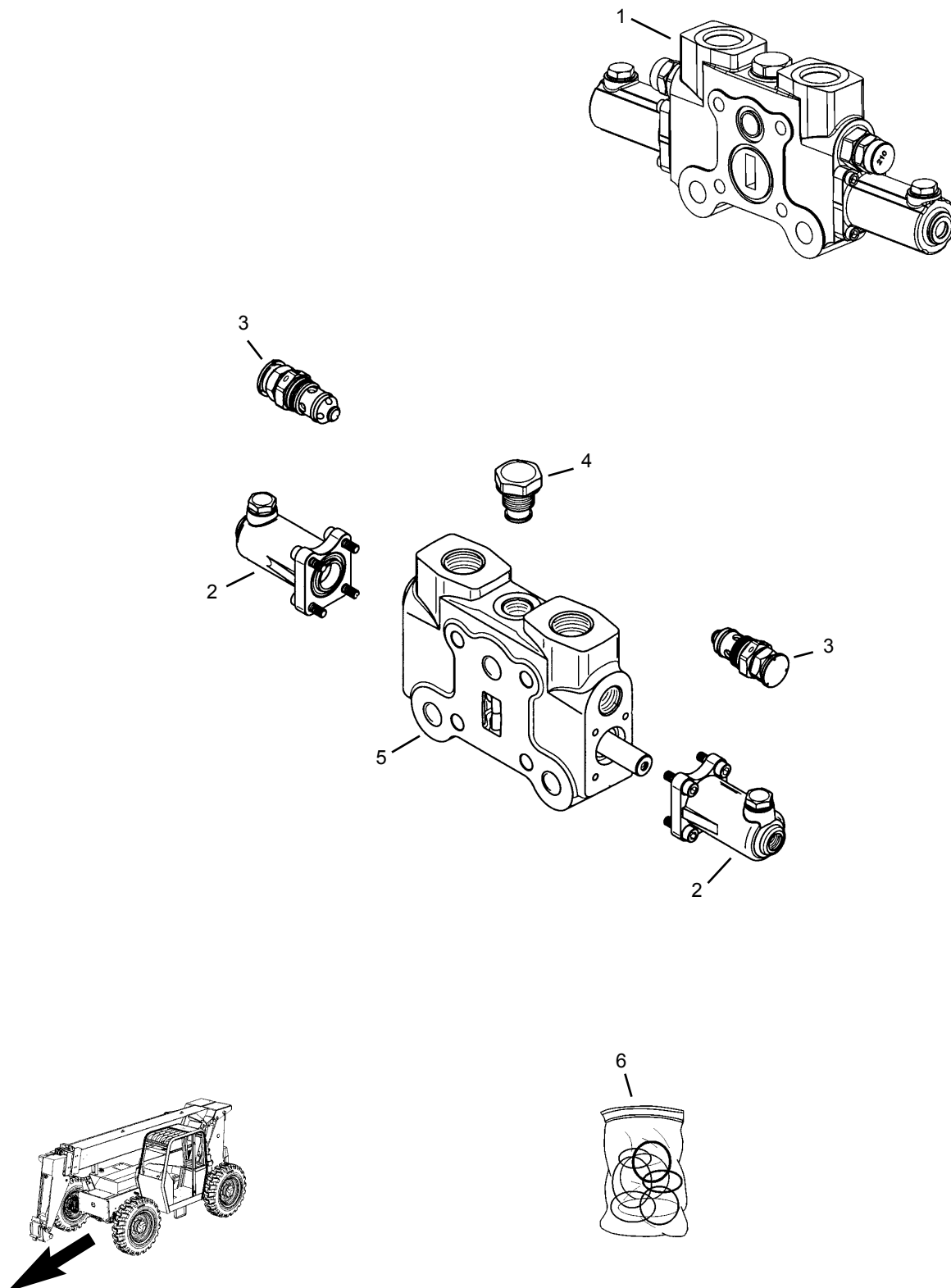


## Hydraulic Components

## RS Series

### *Main Valve - Auxiliary Hydraulics Work Section*

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## Telescopic Handler

## Hydraulic Components

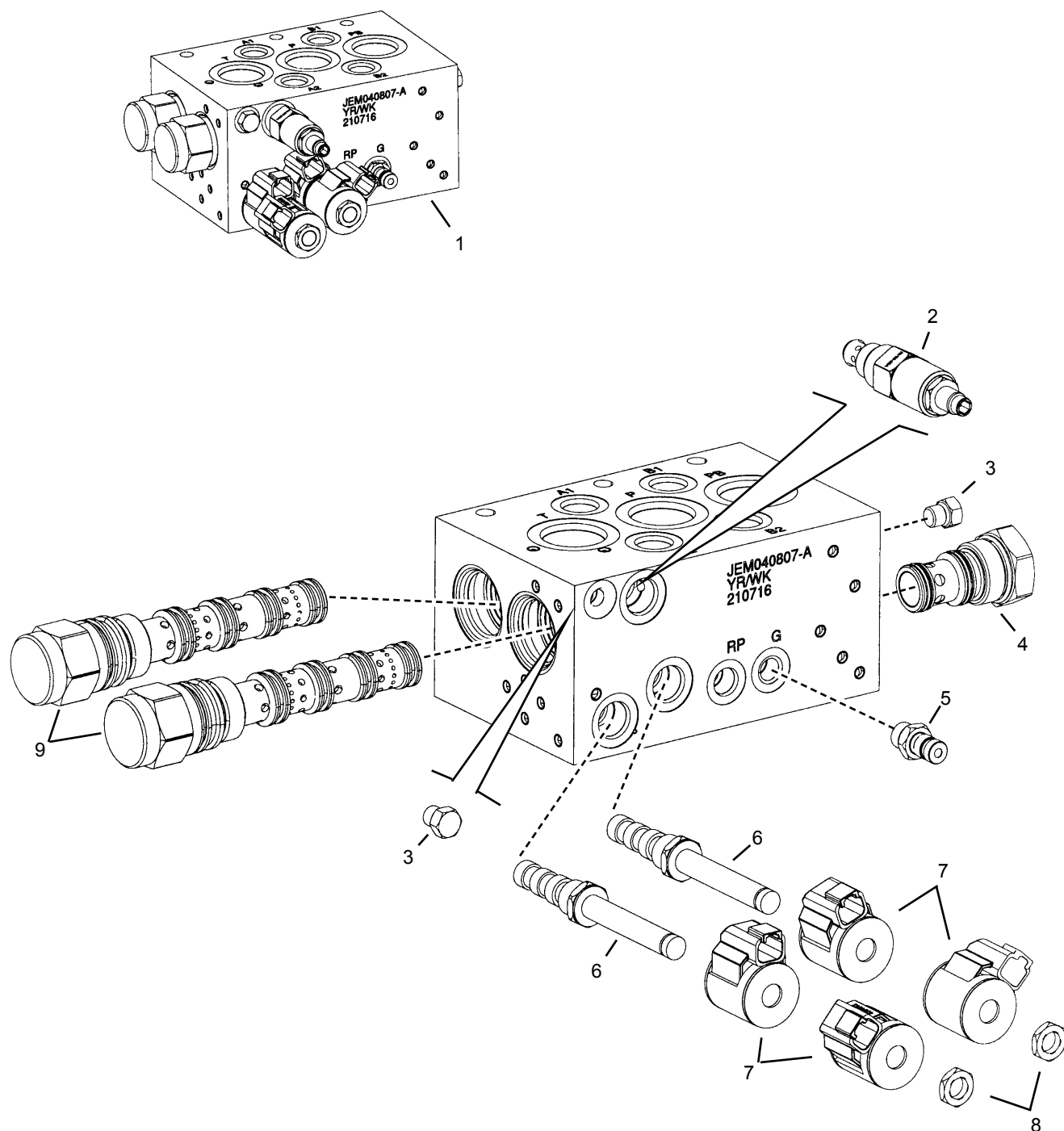
### Main Valve - Auxiliary Hydraulics Work Section

| Ref. No.        | Part No. | Description                                                   | Qty. Req. | Ref. No.                     | Part No.                                                                                                                                                     | Description                                                                                | Qty. Req. |
|-----------------|----------|---------------------------------------------------------------|-----------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------|
| 01              | 102420   | AUXILIARY HYD WORK SECT. ....1<br><i>(includes items 2-5)</i> |           | 05                           | NSS                                                                                                                                                          | VALVE BODY .....                                                                           | 1         |
| 02 <sup>a</sup> | 103053   | HYDRAULIC CONTROL KIT .....                                   | 1         | 06 <sup>b</sup>              | 103087                                                                                                                                                       | SEAL KIT .....                                                                             | 1         |
| 03 <sup>c</sup> | 103086   | ANTI-SHOCK VALVE .....                                        | 1         | <b>-- ITEMS NOT SHOWN --</b> |                                                                                                                                                              |                                                                                            |           |
| 04 <sup>c</sup> | 103052   | CHECK VALVE .....                                             | 1         | 00                           | 102807                                                                                                                                                       | KIT, FIVE SECTION TIE BOLT .... 4<br><i>(includes one bolt, two nuts, and two washers)</i> |           |
|                 |          |                                                               |           | a                            | <i>Includes outer caps, o-rings, bolts, plug, and internal spool spring for this work section; does not include o-rings for valves, plugs, or the spool.</i> |                                                                                            |           |
|                 |          |                                                               |           | b                            | <i>Items included with seal kit are not shown in detail.</i>                                                                                                 |                                                                                            |           |
|                 |          |                                                               |           | c                            | <i>Seals/O-rings for this valve are not sold individually; however, they are included with the work section seal kit where this valve is used.</i>           |                                                                                            |           |
|                 |          |                                                               |           | d                            | <i>Order four kits to replace all four studs: eight nuts and eight washers.</i>                                                                              |                                                                                            |           |

## Hydraulic Components

### *Outrigger Valve*

## RS Series





Telescopic Handler

Hydraulic Components  
Outrigger Valve

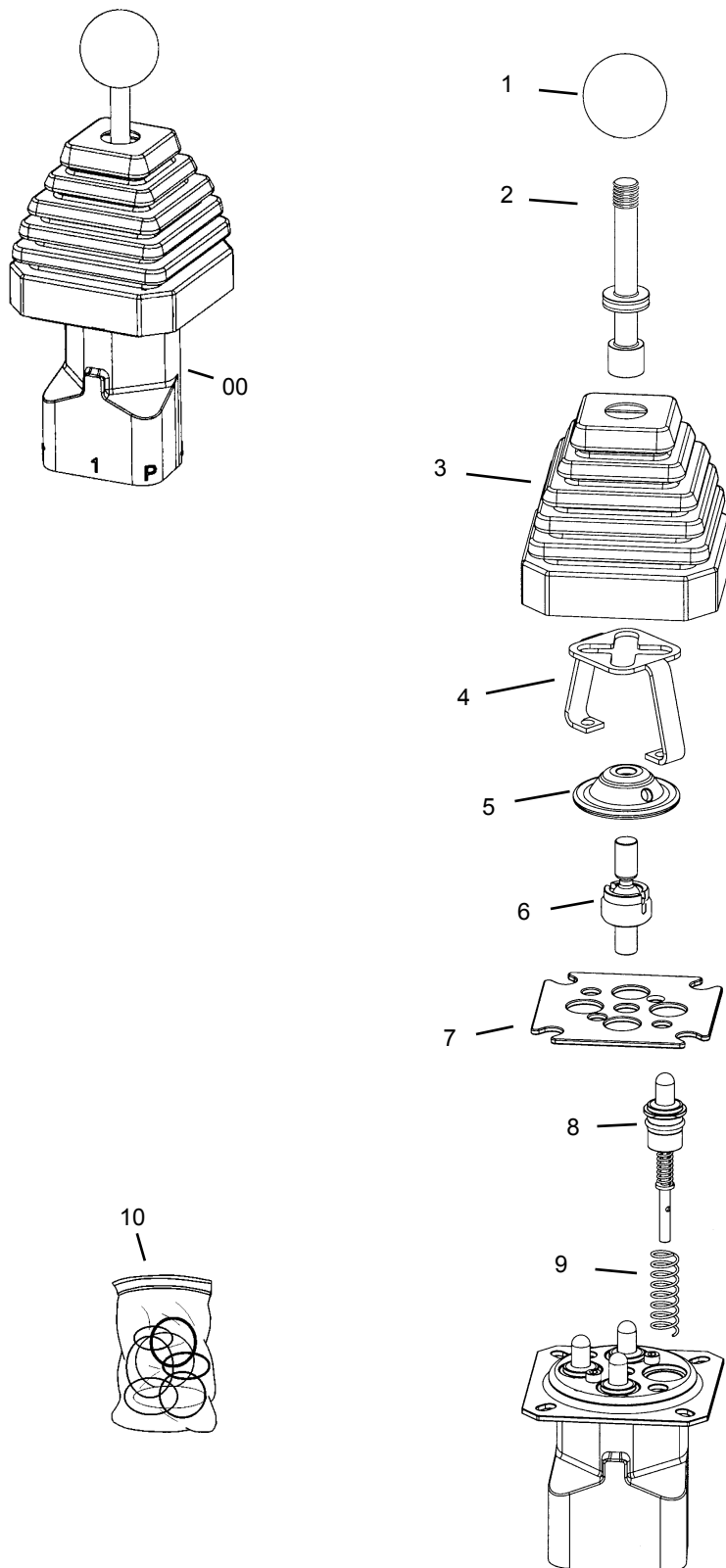
| Ref. No.        | Part No.  | Description                             | Qty. Req. | Ref. No. | Part No. | Description                                    | Qty. Req. |
|-----------------|-----------|-----------------------------------------|-----------|----------|----------|------------------------------------------------|-----------|
| 01              | 210716    | OUTRIGGER VALVE . . . . .               | 1         | 07       | 104736   | E-COIL . . . . .                               | 4         |
| 02              | L99927    | DIFFERENTIAL RELIEF VALVE . . .         | 1         | 08       | NSS      | COIL NUT <i>(included with item 6)</i> . . .   | 2         |
|                 | L99925    | SEAL KIT . . . . .                      | 1         | 09       | 106880   | PROPORTIONAL VALVE . . . . .                   | 2         |
| 03              | 230-32364 | ADAP., -4 ORM SAE PLUG . . . . .        | 2         |          |          | <b>-- (ITEMS NOT SHOWN) --</b>                 |           |
| 04              | 106878    | PILOTED SPOOL . . . . .                 | 1         | 25       | 210723   | WIRE HARNESS, OUTRIGGERS. . .                  | 1         |
|                 | 190-32851 | SEAL KIT . . . . .                      | 1         |          |          |                                                |           |
| 05 <sup>a</sup> | P471997   | TEST PORT . . . . .                     | 1         |          |          |                                                |           |
| 06              | 50280198  | 4-WAY/3-POS. VALVE . . . . .            | 2         | a        |          | <i>Optional parts (not included or shown):</i> |           |
|                 | 106883    | SEAL KIT <i>(1 per valve)</i> . . . . . | AR        |          | L62840   | DUST CAP . . . . .                             | 1         |
|                 |           |                                         |           |          | L62933   | FEMALE COUPLER . . . . .                       | 1         |



## Hydraulic Components

### Controller - Tilt/Frame Level

## RS Series





## Telescopic Handler

## Hydraulic Components

### Controller - Tilt/Frame Level

| Ref. No. | Part No. | Description                             | Qty. Req. | Ref. No.        | Part No. | Description                              | Qty. Req. |
|----------|----------|-----------------------------------------|-----------|-----------------|----------|------------------------------------------|-----------|
| 00       | 102784   | HYDRAULIC CONTROLLER . . . . .          | 1         | 07              | 103116   | PLATE, BOOT MOUNT . . . . .              | 1         |
| 01       | 103122   | KNOB. . . . .                           | 1         | 08              | 103079   | METERING CURVE ( <i>as shown</i> ) . . . | 4         |
| 02       | 103112   | LEVER ROD ( <i>as shown</i> ) . . . . . | 1         | 09              | 103080   | RETURN SPRING . . . . .                  | 4         |
| 03       | 103113   | BOOT. . . . .                           | 1         | 10 <sup>a</sup> | 103117   | SEAL KIT . . . . .                       | 1         |
| 04       | 102674   | LOCK GATE . . . . .                     | 1         |                 |          |                                          |           |
| 05       | 103114   | SELECTOR DISC . . . . .                 | 1         |                 |          |                                          |           |
| 06       | 103115   | PIVOT, BALL JOINT . . . . .             | 1         |                 |          |                                          |           |

*a Items included in seal kit are not shown.*

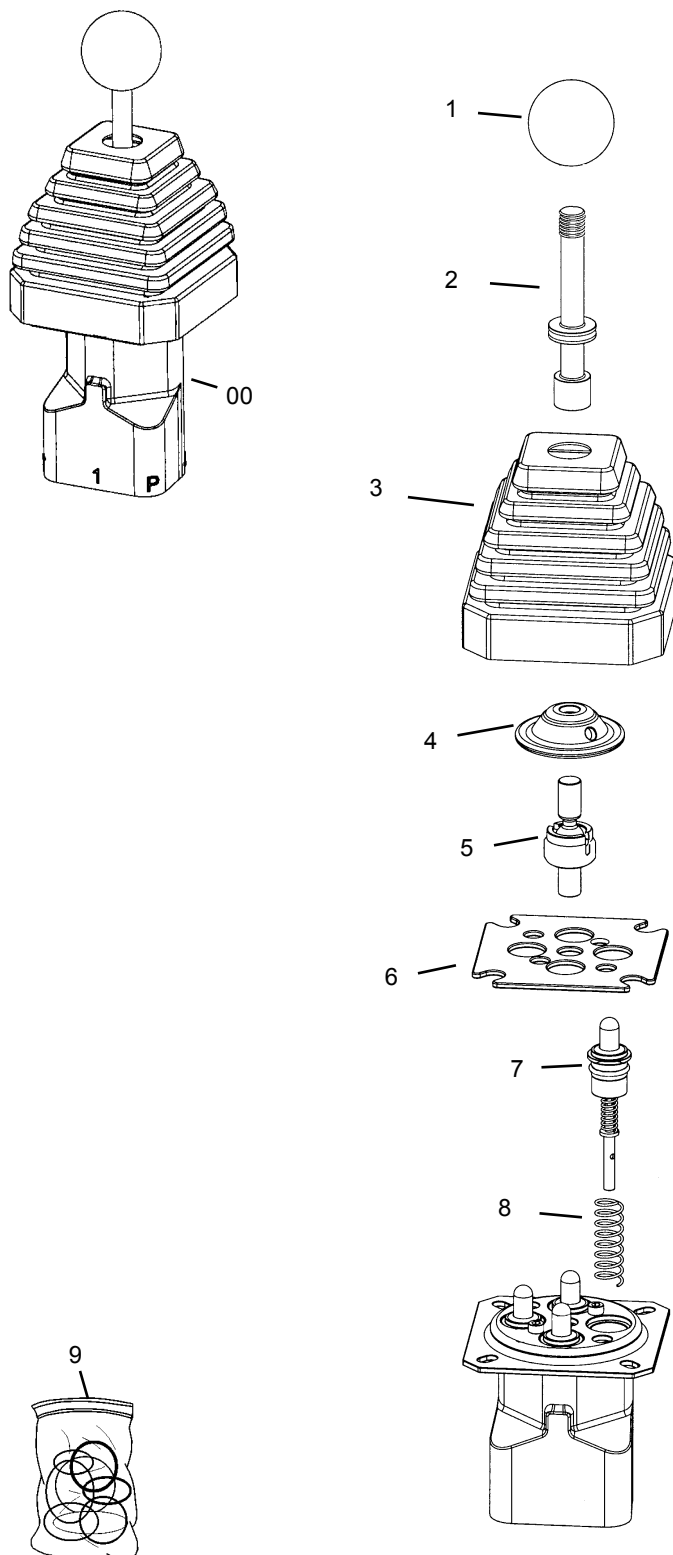




## Hydraulic Components

### Controller - Boom Lift/Extend

## RS Series





## Telescopic Handler

## Hydraulic Components

### Controller - Boom Lift/Extend

| Ref. No. | Part No. | Description                             | Qty. Req. | Ref. No.        | Part No. | Description                              | Qty. Req. |
|----------|----------|-----------------------------------------|-----------|-----------------|----------|------------------------------------------|-----------|
| 00       | 102434   | HYDRAULIC CONTROLLER . . . . .          | 1         | 06              | 103116   | PLATE /BOOT MOUNT . . . . .              | 1         |
| 01       | 103122   | KNOB . . . . .                          | 1         | 07              | 103079   | METERING CURVE ( <i>as shown</i> ) . . . | 4         |
| 02       | 103112   | LEVER ROD ( <i>as shown</i> ) . . . . . | 1         | 08              | 103080   | RETURN SPRING . . . . .                  | 4         |
| 03       | 103113   | BOOT . . . . .                          | 1         | 09 <sup>a</sup> | 103117   | SEAL KIT . . . . .                       | 1         |
| 04       | 103114   | SELECTOR DISC . . . . .                 | 1         |                 |          |                                          |           |
| 05       | 103115   | PIVOT, BALL JOINT . . . . .             | 1         |                 |          |                                          |           |

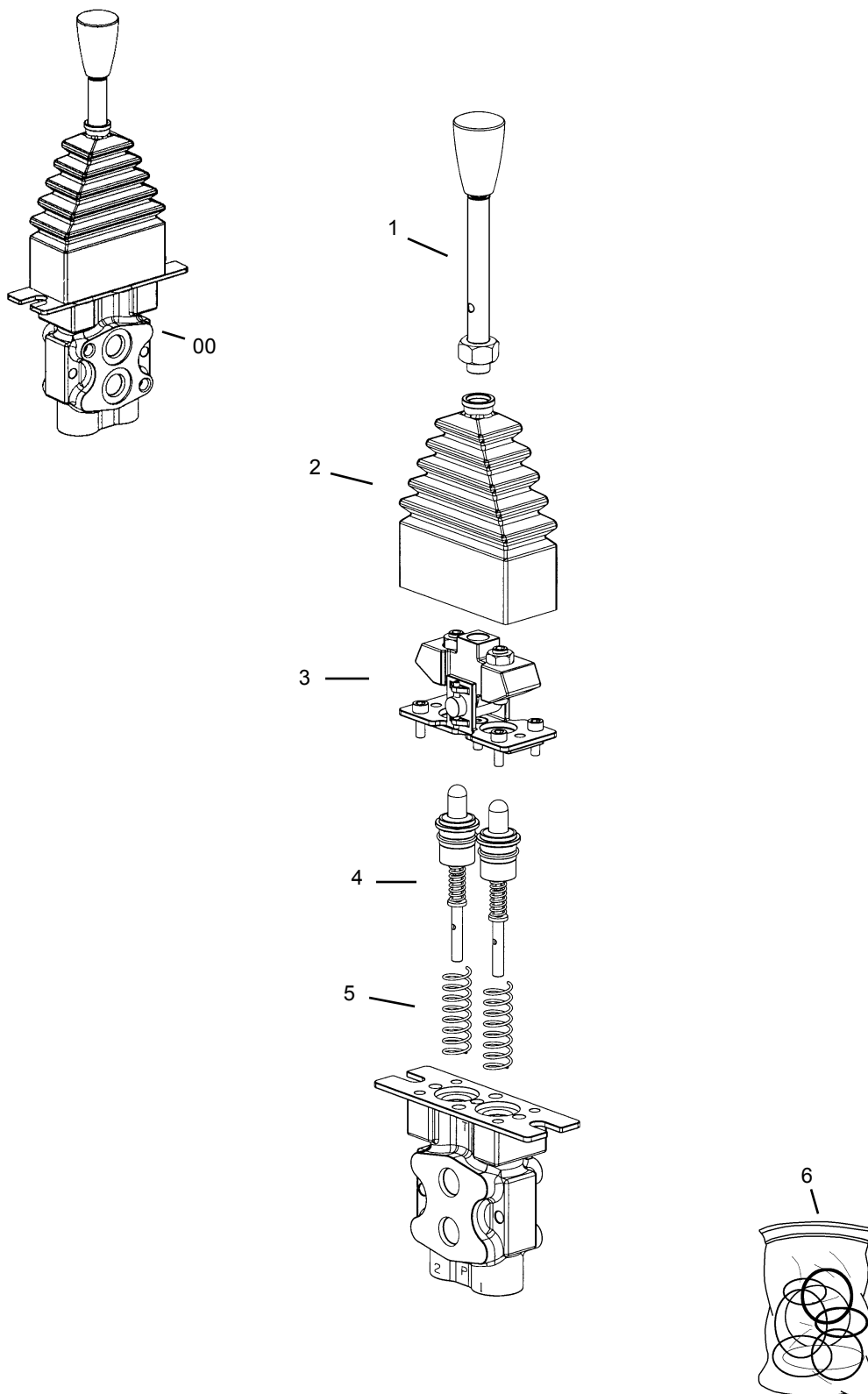
*a Items included in seal kit are not shown.*



## Hydraulic Components

## RS Series

### Controller - Auxiliary Hydraulics (Standard) - Frame Level (Tri-Function)





Telescopic Handler

Controller - Auxiliary Hydraulics (Standard) - Frame Level (Tri-Function)

Hydraulic Components

| Ref. No. | Part No. | Description                                    | Qty. Req. | Ref. No.        | Part No. | Description                              | Qty. Req. |
|----------|----------|------------------------------------------------|-----------|-----------------|----------|------------------------------------------|-----------|
| 00       | 102435   | HYDRAULIC CONTROLLER . . . . .                 | 1         | 04              | 103079   | METERING CURVE ( <i>as shown</i> ) . . . | 2         |
| 01       | 103077   | LEVER ROD ( <i>as shown</i> ) . . . . .        | 1         | 05              | 103080   | RETURN SPRING . . . . .                  | 2         |
| 02       | 103084   | BOOT ( <i>included with item 3</i> ) . . . . . | 1         | 06 <sup>a</sup> | 103083   | SEAL KIT . . . . .                       | 1         |
| 03       | 103078   | CONTROL KIT . . . . .                          | 1         |                 |          |                                          |           |
|          |          | ( <i>includes item 2</i> )                     |           |                 |          |                                          |           |

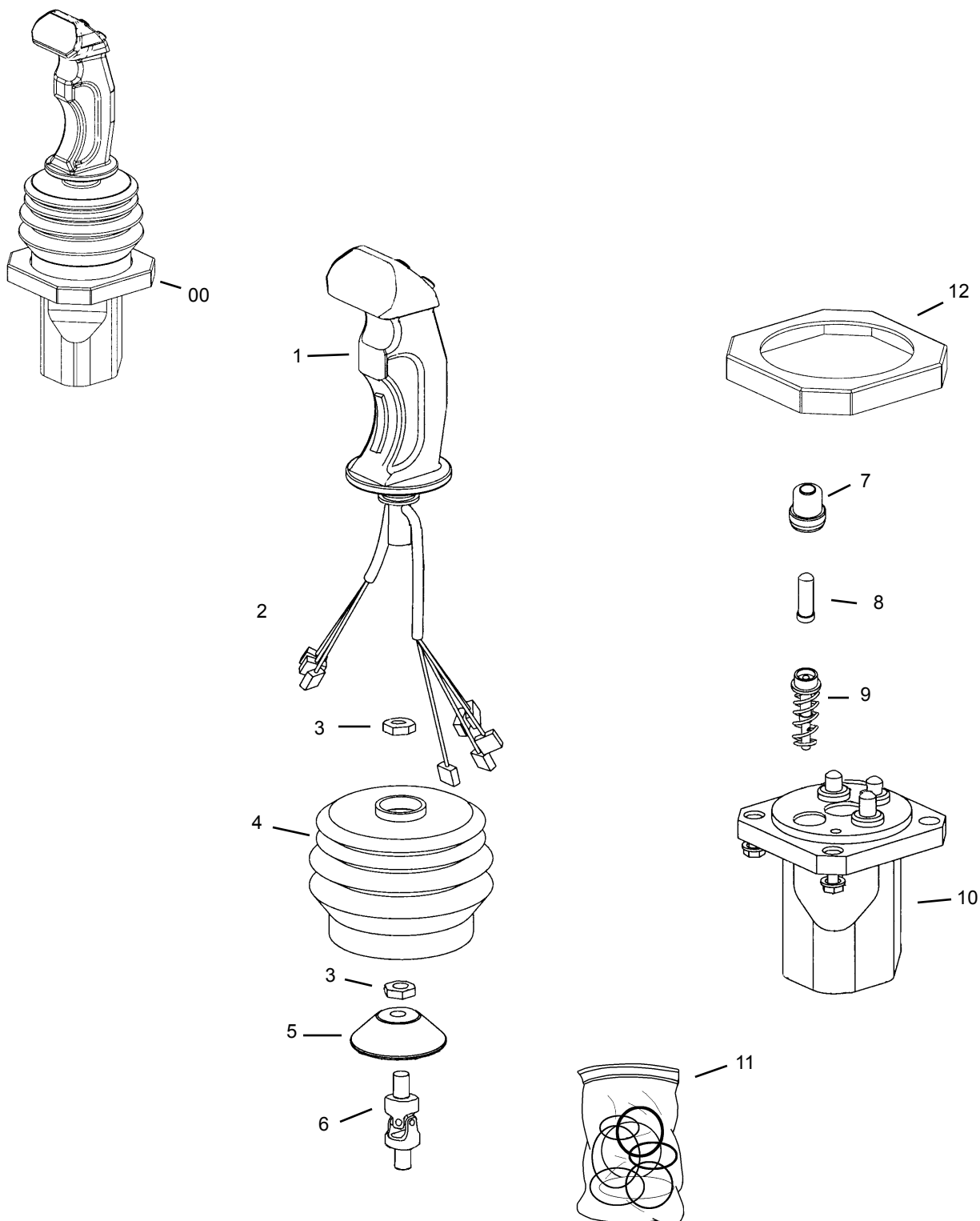
*a      Items included in seal kit are not shown.*



## Hydraulic Components

### Controller - Tri-Function

## RS Series





## Telescopic Handler

## Hydraulic Components

### Controller - Tri-Function

| Ref. No. | Part No. | Description                      | Qty. Req. | Ref. No.        | Part No. | Description                      | Qty. Req. |
|----------|----------|----------------------------------|-----------|-----------------|----------|----------------------------------|-----------|
| 00       | 104083   | JOYSTICK, 4-BUTTON/TRIGGER .     | 1         | 08              | L500690  | HPV SPINDLE 10mm . . . . .       | 4         |
| 01       | L500371  | HANDLE W/4-BUTTONS . . . . .     | 1         | 09              | 104223   | PILOT SPRING PACK C059 . . . . . | 4         |
| 02       | L62761   | WIRE CONNECTOR . . . . .         | 8         | 10              | NSS      | BODY ASSEMBLY . . . . .          | 1         |
| 03       | L500688  | NUT M10 UNI . . . . .            | 2         | 11 <sup>a</sup> | L500653  | SEAL REPAIR KIT . . . . .        | 1         |
| 04       | L500656  | RUBBER BOOT . . . . .            | 1         | 12              | 104304   | BEZEL, JOYSTICK . . . . .        | 1         |
| 05       | L500689  | SELECTOR DISC . . . . .          | 1         |                 |          |                                  |           |
| 06       | L500652  | UNIVERSAL JOINT . . . . .        | 1         |                 |          |                                  |           |
| 07       | L500692  | SPINDLE GUIDE ASSEMBLY . . . . . | 4         |                 |          |                                  |           |

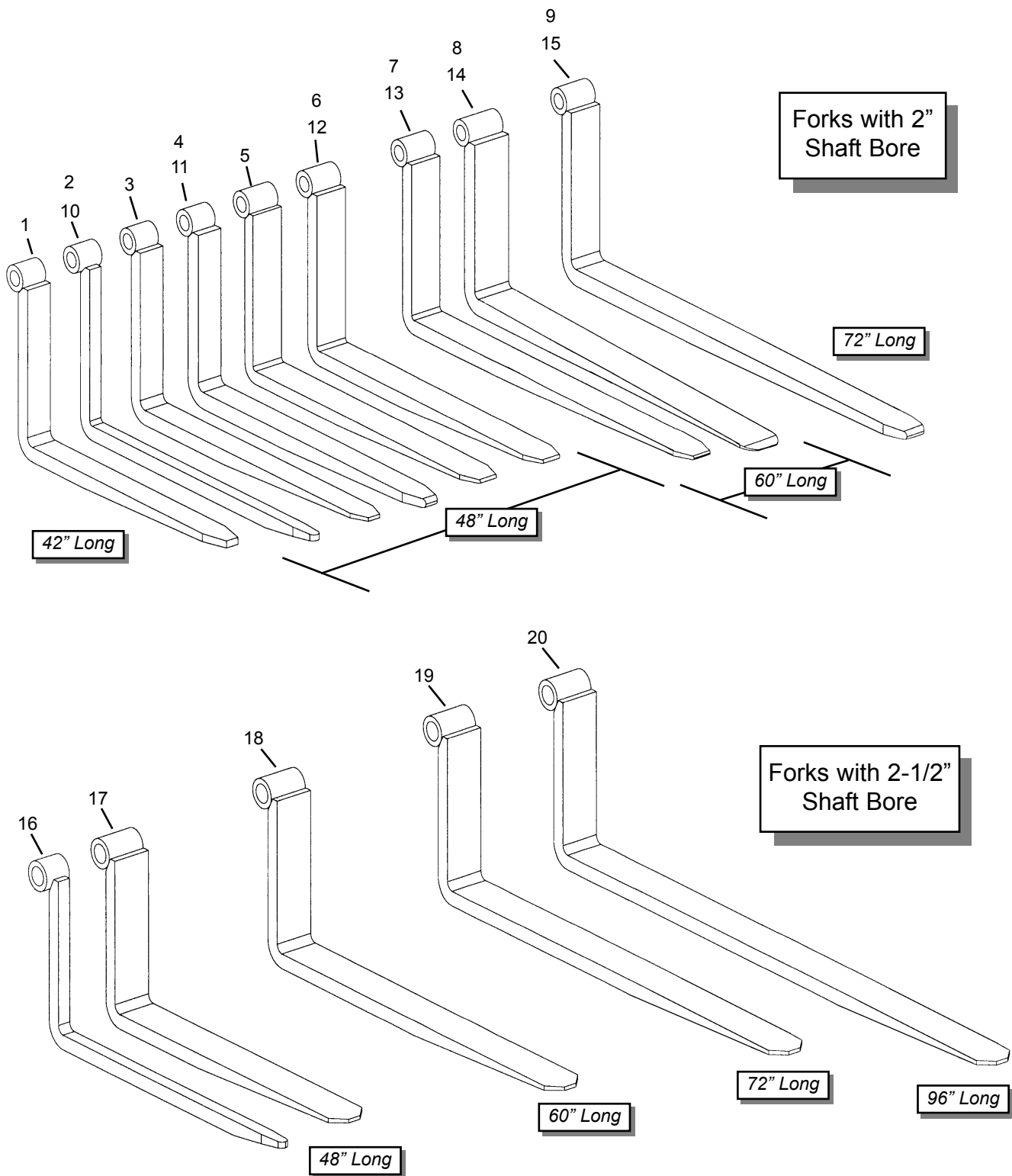
*a Items included in the seal kit are not shown.*



## Attachments

### Carriage Forks

## RS Series





# Telescopic Handler

# Attachments Carriage Forks



## WARNING

When ordering forks, select forks with a rating capacity that meets or exceeds the lifting capacity of the machine; failure to use the correct forks could result in injury or death. For more information contact your dealer (or manufacturer).

### RS6 and RS8 Models Only

| Ref. No.                            | Part No. | Description                                 | Qty. Req. |
|-------------------------------------|----------|---------------------------------------------|-----------|
| <b>-- 2" FORK SHAFT DIAMETER --</b> |          |                                             |           |
|                                     |          | <b>(42" long)</b>                           |           |
| 01                                  | L71350   | FORK, 42"x4"x2" (8,400 lbs.) . . . . .      | 2         |
|                                     |          | <b>(48" long)</b>                           |           |
| 02 <sup>a</sup>                     | L61001   | FORK, 48"x2"x2" (4,200 lbs.) . . . . .      | 4         |
| 03                                  | L61017   | FORK, 48"x4"x2" (8,400 lbs.) . . . . .      | 2         |
| 04                                  | L66406   | FORK, 48"x4"x2-1/4" (12,000 lbs.) . . . . . | 2         |
| 05                                  | L400929  | FORK, 48"x5"x1-3/4" (8,500 lbs.) . . . . .  | 2         |
| 06                                  | L47263   | FORK, 48"x5"x2" (10,500 lbs.) . . . . .     | 2         |
|                                     |          | <b>(60" long)</b>                           |           |
| 07                                  | L47265   | FORK, 60"x5"x2" (10,500 lbs.) . . . . .     | 2         |
| 08                                  | L60961   | FORK, 60"x6"x2-1/4" (12,500 lbs.) . . . . . | 2         |
|                                     |          | <b>(72" long)</b>                           |           |
| 09                                  | L68331   | FORK, 72"x5"x2" (10,500 lbs.) . . . . .     | 2         |

*a* Requires 2 sets (4 forks).



**NOTE:** Ratings for forks listed in the RS6 and RS8 Models Only column are based on two forks with a load center of 24"; except for item #2 where four forks are required.

### RS10 and RS12 Models Only

| Ref. No.                                | Part No. | Description                                 | Qty. Req. |
|-----------------------------------------|----------|---------------------------------------------|-----------|
| <b>-- 2" FORK SHAFT DIAMETER --</b>     |          |                                             |           |
|                                         |          | <b>(48" long)</b>                           |           |
| 10 <sup>bc</sup>                        | L61001   | FORK, 48"x2"x2" (4,200 lbs.) . . . . .      | 6         |
| 11                                      | L66406   | FORK, 48"x4"x2-1/4" (12,000 lbs.) . . . . . | 2         |
| 12                                      | L47263   | FORK, 48"x5"x2" (10,500 lbs.) . . . . .     | 2         |
|                                         |          | <b>(60" long)</b>                           |           |
| 13                                      | L47265   | FORK, 60"x5"x2" (10,500 lbs.) . . . . .     | 2         |
| 14                                      | L60961   | FORK, 60"x6"x2-1/4" (12,000 lbs.) . . . . . | 2         |
|                                         |          | <b>(72" long)</b>                           |           |
| 15                                      | L68331   | FORK, 72"x5"x2" (10,500 lbs.) . . . . .     | 2         |
| <b>-- 2-1/2" FORK SHAFT DIAMETER --</b> |          |                                             |           |
|                                         |          | <b>(48" long)</b>                           |           |
| 16 <sup>d</sup>                         | L61001   | FORK, 48"x2"x2" (4,200 lbs.) . . . . .      | 6         |
| 17 <sup>d</sup>                         | L71159   | FORK, 48"x6"x2" (12,600 lbs.) . . . . .     | 2         |
|                                         |          | <b>(60" long)</b>                           |           |
| 18 <sup>d</sup>                         | L71160   | FORK, 60"x6"x2" (12,600 lbs.) . . . . .     | 2         |
|                                         |          | <b>(72" long)</b>                           |           |
| 19 <sup>d</sup>                         | L71161   | FORK, 72"x6"x2" (12,600 lbs.) . . . . .     | 2         |
|                                         |          | <b>(96" long)</b>                           |           |
| 20 <sup>d</sup>                         | 210736   | FORK, 96"x5"x2-1/4" (12,000 lbs.) . . . . . | 2         |

*b* Requires three sets (6 forks).  
*c* Used ONLY on RS10-44 and RS10-55 models.  
*d* Used ONLY on RS12-42 model.



**NOTE:** Ratings for forks listed in the RS10 and RS12 Models Only column are based on two forks with a load center of 24"; except for items #10 and #16 where six forks are required.

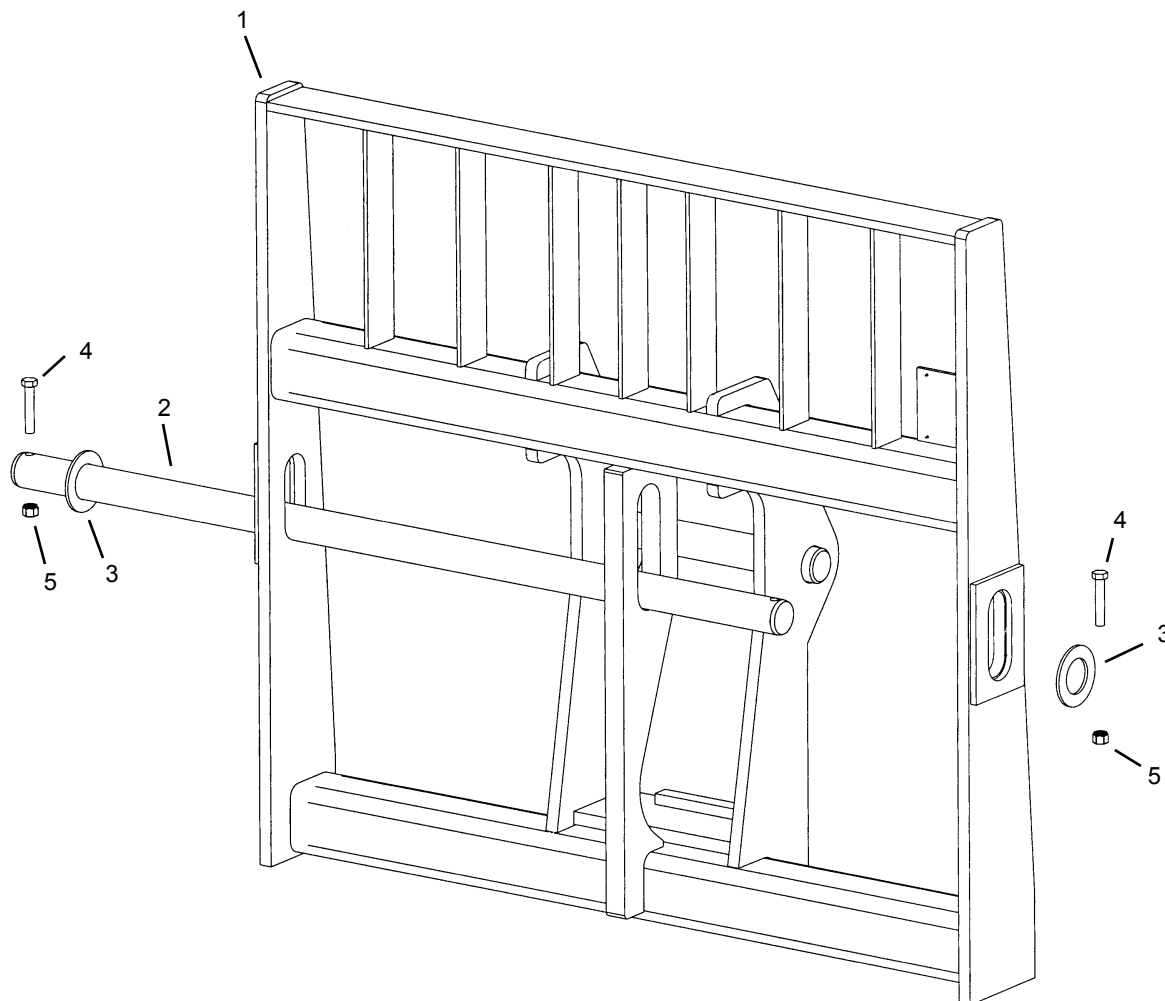




## Attachments

### Standard Carriage

## RS Series

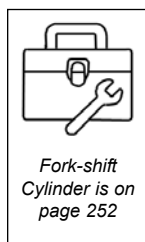


| Ref. No. | Part No. | Description                     | Qty. Req. | Ref. No. | Part No. | Description                               | Qty. Req. |
|----------|----------|---------------------------------|-----------|----------|----------|-------------------------------------------|-----------|
| 01       |          | CARRIAGE WELDMENT . . . . .     | 1         | 03       |          | FORK SHAFT WASHER . . . . .               | 2         |
|          | L99190   | 48" (uses 2" pin) . . . . .     | 1         |          | L400425  | Note a                                    |           |
|          | 430171   | 48" (uses 2-1/2" pin) . . . . . | 1         |          | 100369   | Note b                                    |           |
|          | L99191   | 66" (uses 2" pin) . . . . .     | 1         | 04       |          | BOLT . . . . .                            | 2         |
|          | 430173   | 66" (uses 2-1/2" pin) . . . . . | 1         |          | L510003  | 1/2"X2-3/4" - (Note a) . . . . .          | 2         |
|          | 210407   | 72" (uses 2" pin) . . . . .     | 1         |          | L50294   | 1/2"-13"X3-1/2" - (Note b) . . . . .      | 2         |
|          | 104870   | 72" (uses 2-1/2" pin) . . . . . | 1         | 05       | L520019  | 1/2"-13 NYLON INSERT NUT . . . . .        | 2         |
| 02       |          | FORK SHAFT BAR . . . . .        | 1         |          |          |                                           |           |
|          | L65223   | (2"X51-1/2") . . . . .          | 1         | a        |          | Used with 2" diameter fork shaft bar.     |           |
|          | L64561   | (2"X69-1/2") . . . . .          | 1         | b        |          | Used with 2-1/2" diameter fork shaft bar. |           |
|          | L68493   | (2"X75-1/2") . . . . .          | 1         |          |          |                                           |           |
|          | 101625   | (2-1/2"X51-1/2") . . . . .      | 1         |          |          |                                           |           |
|          | 101624   | (2-1/2"X69-1/2") . . . . .      | 1         |          |          |                                           |           |
|          | 104844   | (2-1/2"X74-3/4") . . . . .      | 1         |          |          |                                           |           |

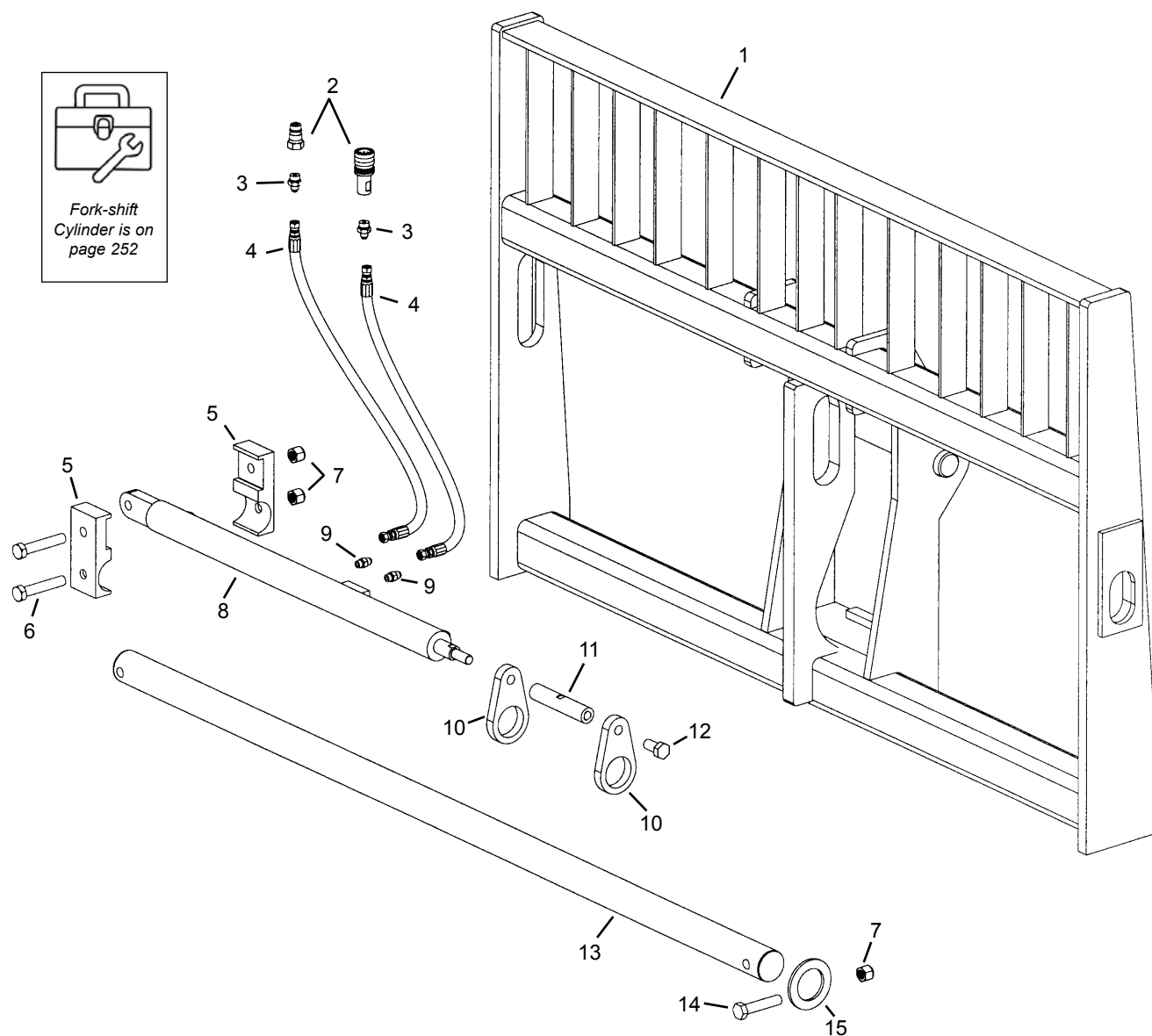


## Telescopic Handler

## Attachments

**Dynattach® 72" Fork-Shift Carriage**

Fork-shift  
Cylinder is on  
page 252



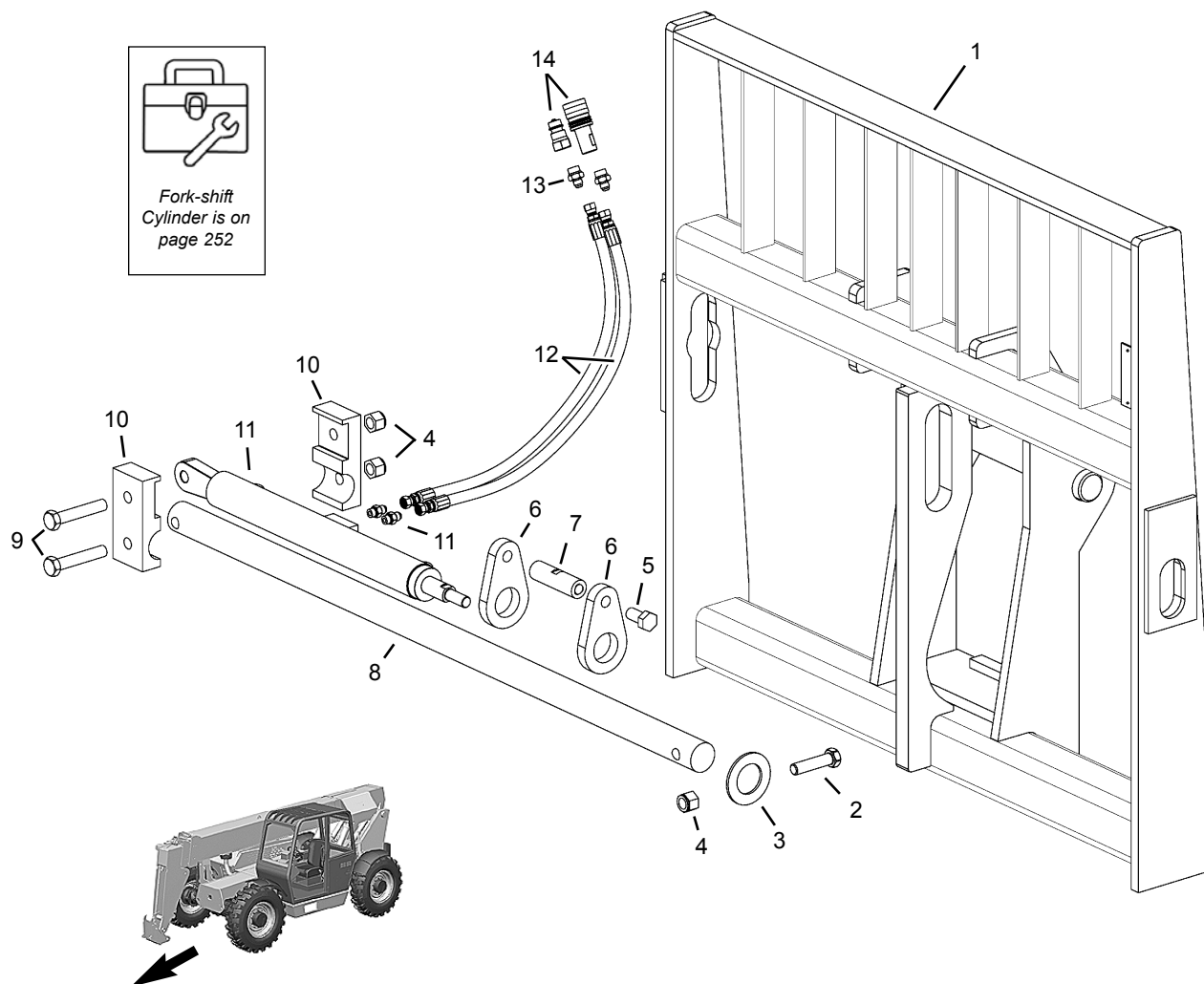
| Ref. No.        | Part No. | Description                                                          | Qty. Req. | Ref. No. | Part No.                                                                          | Description                         | Qty. Req. |
|-----------------|----------|----------------------------------------------------------------------|-----------|----------|-----------------------------------------------------------------------------------|-------------------------------------|-----------|
| 01 <sup>a</sup> | 210926   | 72" FORK-SHIFT CARRIAGE . . . . . 1<br>(Dynattach® Carriage) (frame) |           | 09       | 054994                                                                            | ADAP., -6ORM -6JICM . . . . . 2     |           |
| 02              | L65273   | COUPLER SET . . . . . 1                                              |           | 10       | 210904                                                                            | FORK SLIDE PLATE . . . . . 2        |           |
| 03              | L63143   | ADAP -8ORM -6JICM W/.06 ORF . 2                                      |           | 11       | 210905                                                                            | COUPLER, 6" . . . . . 1             |           |
| 04              | 175720   | HOSE -6 A6/A6 51" . . . . . 2                                        |           | 12       | 650500                                                                            | 3/4" x 1-1/2" BOLT . . . . . 1      |           |
| 05              | 210898   | CLAMP, CYLINDER MOUNT . . . . . 2                                    |           | 13       | 210906                                                                            | SHAFT, 2-1/2" x 77-5/8" . . . . . 1 |           |
| 06              | L50562   | 3/4"-10 x 4" BOLT . . . . . 2                                        |           | 14       | 650173                                                                            | 3/4"-10 x 3-1/2" BOLT . . . . . 1   |           |
| 07              | 079209   | 3/4"-10 NYLON INSERT NUT . . . . . 3                                 |           | 15       | 100369                                                                            | FORK SHAFT WASHER . . . . . 1       |           |
| 08              | 210901   | FORK-SHIFT CYLINDER . . . . . 1                                      |           |          |                                                                                   |                                     |           |
|                 |          |                                                                      |           | a        | Fork-shift carriage weldment only; items 2-20 will need to be ordered separately. |                                     |           |



# Attachments

# RS Series

## Dynattach® 48" Fork-Shift Carriage



| Ref. No.        | Part No. | Description                         | Qty. Req. | Ref. No. | Part No. | Description                      | Qty. Req. |
|-----------------|----------|-------------------------------------|-----------|----------|----------|----------------------------------|-----------|
| 01 <sup>a</sup> | 50220665 | 48" FORK-SHIFT FRAME . . . . .      | 1         | 09       | L50562   | 3/4"-10x4" BOLT . . . . .        | 2         |
| 02              | L50333   | 3/4"-10x3" BOLT . . . . .           | 1         | 10       | L66918   | CYLINDER MOUNT . . . . .         | 2         |
| 03              | L400425  | FORK SHAFT WASHER . . . . .         | 1         | 11       | 210932   | FORK SHIFT CYLINDER . . . . .    | 1         |
| 04              | 079209   | 3/4"-10 NYLON INSERT NUT . . . . .  | 3         | 12       | 175720   | HOSE, -6 A6/A6 51" . . . . .     | 2         |
| 05              | 650500   | 3/4"-10x1-1/2" BOLT . . . . .       | 1         | 13       | L63143   | ST MJ06-MORB08 ORIFICE . . . . . | 2         |
| 06              | L66931   | FORK SLIDE PLATE . . . . .          | 2         | 14       | L65273   | COUPLER SET . . . . .            | 1         |
| 07              |          | FORK SLIDE COUPLER . . . . .        | 1         |          |          |                                  |           |
|                 | L66921   | 4" wide forks                       |           |          |          |                                  |           |
|                 | L66948   | 5" wide forks                       |           |          |          |                                  |           |
| 08              | 210934   | FORK SHAFT (2" x 53-1/8") . . . . . | 1         |          |          |                                  |           |

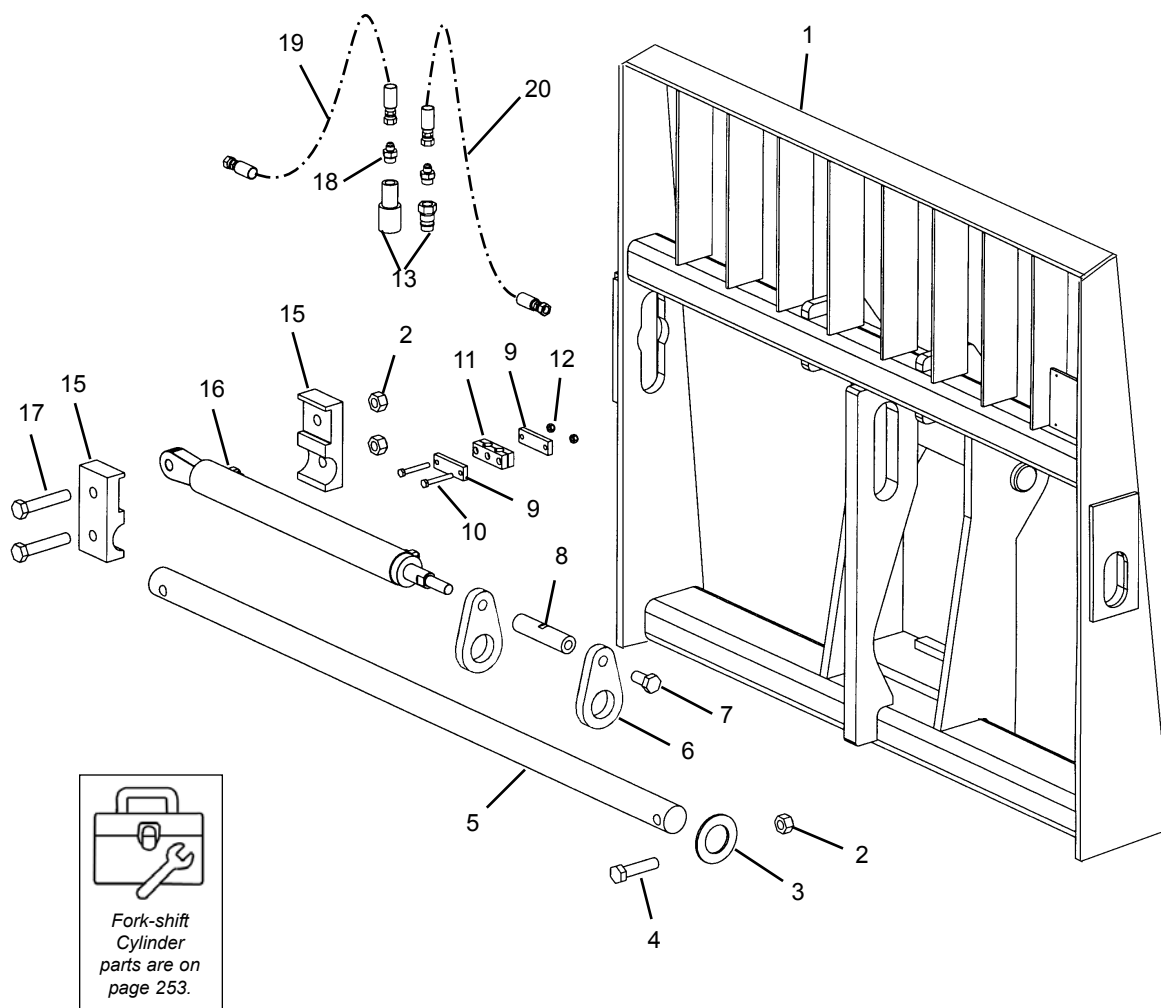
*a Fork-shift carriage weldment only; items 2-14 are separate parts and can be order individually.*



# Telescopic Handler

## Attachments

### Dynattach® 50" Fork-Shift Carriage



| Ref.<br>No. | Part<br>No. | Description                        | Qty.<br>Req. | Ref.<br>No. | Part<br>No. | Description                         | Qty.<br>Req. |
|-------------|-------------|------------------------------------|--------------|-------------|-------------|-------------------------------------|--------------|
| 01          | L500213     | FORK-SHIFT CARRIAGE . . . . .      | 1            | 12          | L520004     | 5/16"-18 NYLON INSERT NUT . . . . . | 2            |
| 02          | L50519      | 3/4"-10 NYLON INSERT NUT . . . . . | 3            | 13          | L65273      | QUICK-COUPLER SET . . . . .         | 1            |
| 03          | L400425     | FORK SHAFT WASHER . . . . .        | 1            | 15          | L66918      | CYLINDER MOUNT . . . . .            | 2            |
| 04          | L50333      | 3/4"-10X3" BOLT . . . . .          | 1            | 16          | L68337      | FORK-SHIFT CYLINDER . . . . .       | 1            |
| 05          | L66919      | FORK SHAFT, 50" . . . . .          | 1            | 17          | L50562      | 3/4"-10X4" BOLT . . . . .           | 2            |
| 06          | L66931      | FORK SLIDE PLATE . . . . .         | 2            | 18          | L63143      | ADAP., -8ORM -6JICM W/.06 ORF. 2    |              |
| 07          | 650500      | 3/4"-10X1-1/2" BOLT . . . . .      | 1            | 19          | L66950      | HOSE, -6 A6/A6 59" . . . . .        | 1            |
| 08          | Note a      | FORK SLIDE COUPLER . . . . .       | 1            | 20          | L66949      | HOSE, -6 A6/A6 56" . . . . .        | 1            |
| 09          | L63715      | TWIN CUSHION TOP PLATE . . . . .   | 2            |             |             |                                     |              |
| 10          | L50242      | 5/16"-18X2-1/4" BOLT . . . . .     | 2            |             |             |                                     |              |
| 11          | L63716      | TWIN HOSE CUSHION . . . . .        | 1            |             |             |                                     |              |

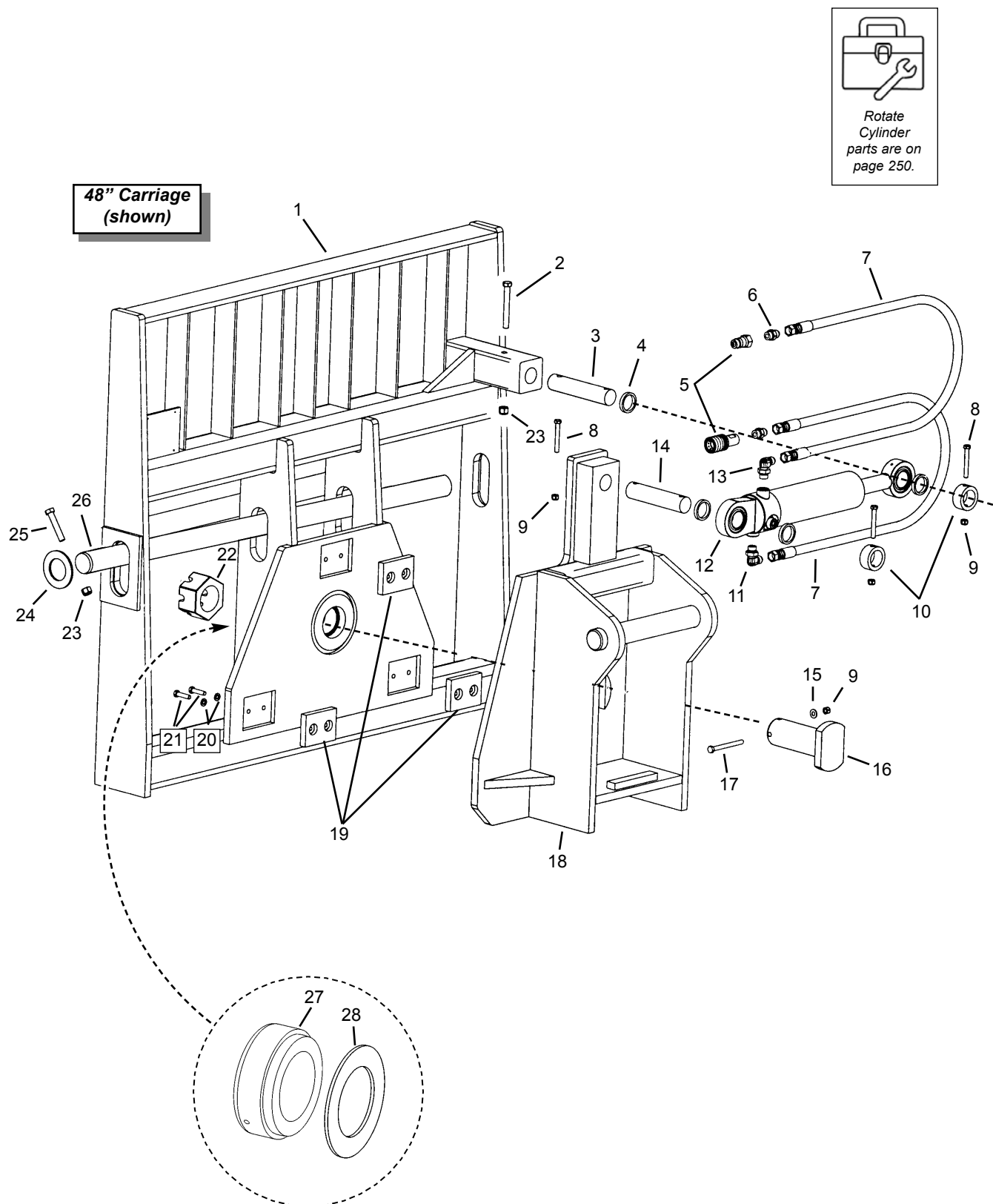
a For 4" wide forks use P/N L66921.  
For 5" wide forks use P/N L66948.



## Attachments

### Rotating Carriage

## RS Series





## Telescopic Handler

## Attachments Rotating Carriage

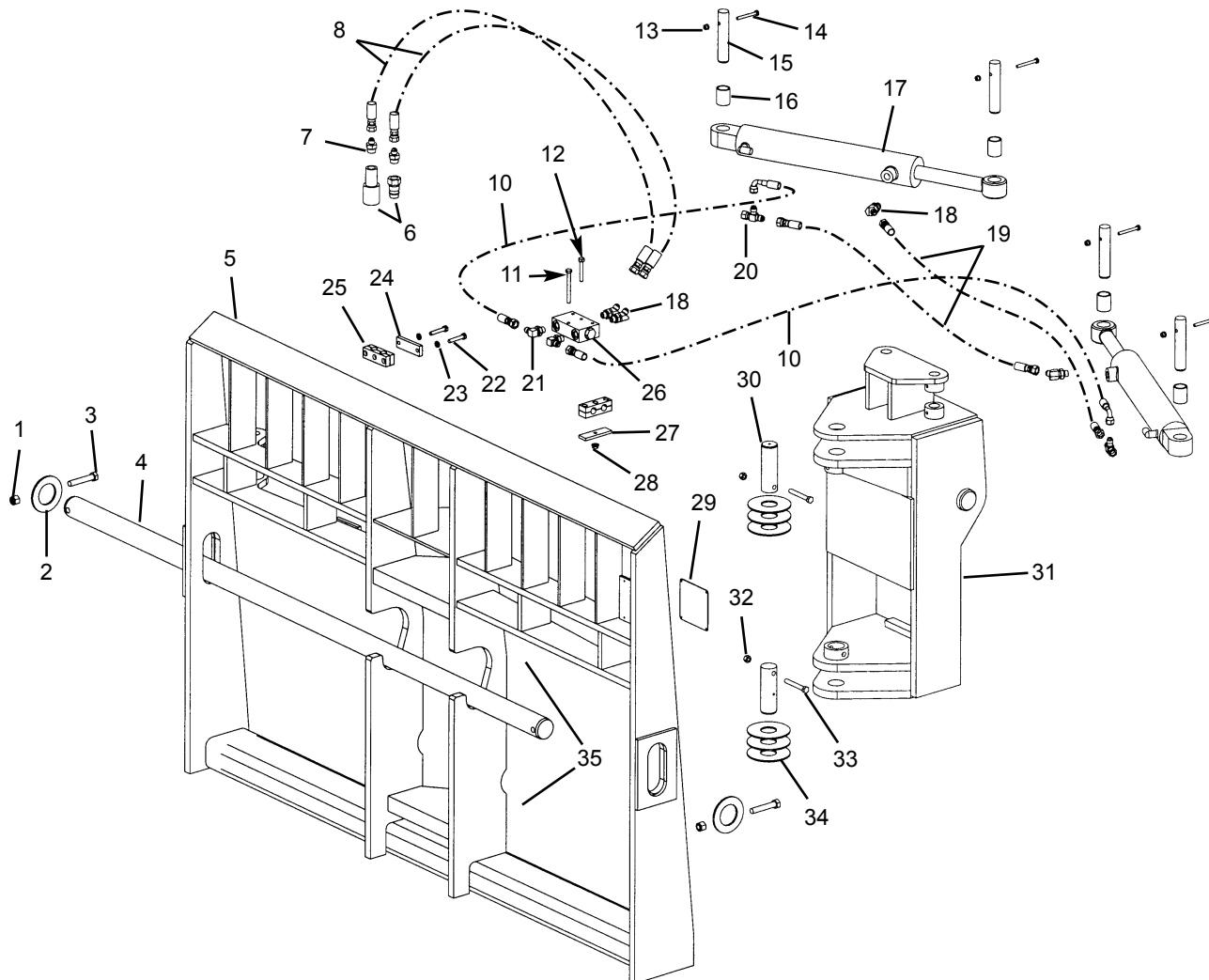
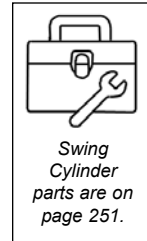
| Ref. No. | Part No. | Description                           | Qty. Req. | Ref. No. | Part No. | Description                           | Qty. Req. |
|----------|----------|---------------------------------------|-----------|----------|----------|---------------------------------------|-----------|
| 01       |          | CARRIAGE, ROTATING . . . . .          | 1         | 18       | 101999   | ROTATOR PLATE WELDMENT . . .          | 1         |
|          | 103517   | (48" Carriage) 2" dia. fork shaft     |           | 19       | L61709   | SLIDE PAD . . . . .                   | 3         |
|          | 103518   | (66" Carriage) 2" dia. fork shaft     |           | 20       | L50147   | 3/8" LOCK WASHER. . . . .             | 6         |
|          | 103519   | (48" Carriage) 2-1/2" dia. fork shaft |           | 21       | L50261   | 3/8"X1-1/2" BOLT . . . . .            | 6         |
|          | 103520   | (66" Carriage) 2-1/2" dia. fork shaft |           | 22       | L50718   | 2-1/2"-12 CASTLE NUT. . . . .         | 1         |
| 02       | L50982   | 1/2"X4" BOLT. . . . .                 | 1         | 23       | L520019  | 1/2"-13 NYLON INSERT NUT . . . .      | 4         |
| 03       | L65181   | PIN, ROTATOR ROD END . . . . .        | 1         | 24       |          | FORK SHAFT WASHER. . . . .            | 2         |
| 04       | L61307   | SPACER . . . . .                      | 4         |          | L400425  | 2" ID                                 |           |
| 05       | L65273   | QUICK COUPLER SET. . . . .            | 1         |          | 100369   | 2-1/2" ID                             |           |
| 06       | 054626   | ADAP., -8ORM -8JICM STR . . . .       | 2         | 25       |          | BOLT . . . . .                        | 2         |
| 07       | L64294   | HOSE, -8 A8/A8 53" . . . . .          | 2         |          | L510003  | 1/2"X2-3/4" BOLT (2" dia. shaft)      |           |
| 08       | L50273   | 3/8"X2-3/4" BOLT . . . . .            | 3         |          | L50294   | 1/2"X2-3/4" BOLT (2-1/2" dia. shaft)  |           |
| 09       | L520005  | 3/8"-16 NYLON INSERT NUT . . . AR     |           | 26       |          | FORK SHAFT BAR . . . . .              | 1         |
| 10       | L62026   | LOCK COLLAR 1.5" OD . . . . .         | 2         |          | L65223   | (48" Carriage) 2" dia. fork shaft     |           |
| 11       | L66017   | ADAP., -8ORM -8JICM 90° w/ORF..       | 2         |          | L64561   | (66" Carriage) 2" dia. fork shaft     |           |
| 12       | L70655   | ROTATE CYLINDER . . . . .             | 1         |          | 101625   | (48" Carriage) 2-1/2" dia. fork shaft |           |
| 13       | L66017   | ADAP., -8ORM -8JICM 90° w/ORF..       | 2         |          | 101624   | (66" Carriage) 2-1/2" dia. fork shaft |           |
| 14       | L65180   | PIN, ROTATOR BASE END . . . . .       | 1         | 27       | 100990   | BEARING . . . . .                     | 1         |
| 15       | L50145   | 3/8" FLAT WASHER. . . . . AR          |           | 28       | L61287   | WASHER (not shown) . . . . . AR       |           |
| 16       | 101003   | ROTATOR PIN. . . . .                  | 1         |          |          |                                       |           |
| 17       | L50801   | 3/8"X4" BOLT. . . . .                 | 1         |          |          |                                       |           |



## Attachments

### 90° Swing Carriage

## RS Series





## Telescopic Handler

## Attachments 90° Swing Carriage

| Ref. No. | Part No. | Description                             | Qty. Req. | Ref. No. | Part No. | Description                         | Qty. Req. |
|----------|----------|-----------------------------------------|-----------|----------|----------|-------------------------------------|-----------|
| 01       | L520019  | 1/2"-13 NYLON INSERT NUT . . . . .      | 2         | 20       | 072806   | ADAP., -6JICFS -6JICM TEE . . . . . | 2         |
| 02       | L400425  | FORK SHAFT WASHER . . . . .             | 2         | 21       | 068938   | ADAP., -6ORM -6JICM 90° . . . . .   | 2         |
| 03       | L510003  | 1/2"X2-3/4" BOLT . . . . .              | 2         | 22       | L50561   | 5/16"-18X1-3/4" BOLT . . . . .      | 2         |
| 04       | L64561   | FORK SHAFT BAR (66" Carriage) . . . . . | 1         | 23       | 654024   | 5/16" LOCK WASHER . . . . .         | 2         |
| 05       | L500216  | 66" CARRIAGE, SWING . . . . .           | 1         | 24       | L63715   | TWIN CUSH. TOP PLATE . . . . .      | 1         |
| 06       | L65273   | COUPLER, FEMALE . . . . .               | 1         | 25       | L63716   | TWIN HOSE CUSHION . . . . .         | 2         |
| 07       | L63143   | ADAP., -8ORM -6JICM STR W.06 . . . . .  | 2         | 26       | L71651   | VALVE, DUAL PO . . . . .            | 1         |
| 08       | L66958   | HOSE, -6 A6/A6 89" . . . . .            | 2         | 27       | L63233   | HOSE CUSH. TOP PLATE . . . . .      | 1         |
| 10       | L63984   | HOSE, -4 DS6/A6 22" . . . . .           | 2         | 28       | L50056   | 5/16" FLARE NUT . . . . .           | 2         |
| 11       | 650833   | 5/16"X3" BOLT . . . . .                 | 1         | 29       | NSS      | NAME PLATE . . . . .                | 1         |
| 12       | L50835   | 5/16"X2" BOLT . . . . .                 | 1         | 30       | L63994   | PIN, CARRIAGE PIVOT . . . . .       | 2         |
| 13       | L520003  | 1/4" NYLON INSERT NUT . . . . .         | 4         | 31       | L70719   | SWING PIVOT WELDMENT . . . . .      | 1         |
| 14       | L50452   | 1/4"X2-1/4" BOLT . . . . .              | 4         | 32       | L520005  | 3/8"-16 NYLON INSERT NUT . . . . .  | 2         |
| 15       | L63995   | PIN, SWING CYLINDER . . . . .           | 4         | 33       | 650493   | 3/8"-16X2-3/4" BOLT . . . . .       | 2         |
| 16       | L63593   | BUSHING . . . . .                       | 4         | 34       | L63951   | THRUST WASHER . . . . .             | 6         |
| 17       | L63970   | SWING CYLINDER . . . . .                | 2         | 35       | L63468   | BUSHING, CARRIAGE PIVOT . . . . .   | 2         |
| 18       | L445004  | ADAP., -6ORM -6JICM 45 . . . . .        | 4         |          |          | (not shown)                         |           |
| 19       | 100631   | HOSE, -4 A6/A6 36" . . . . .            | 2         |          |          |                                     |           |

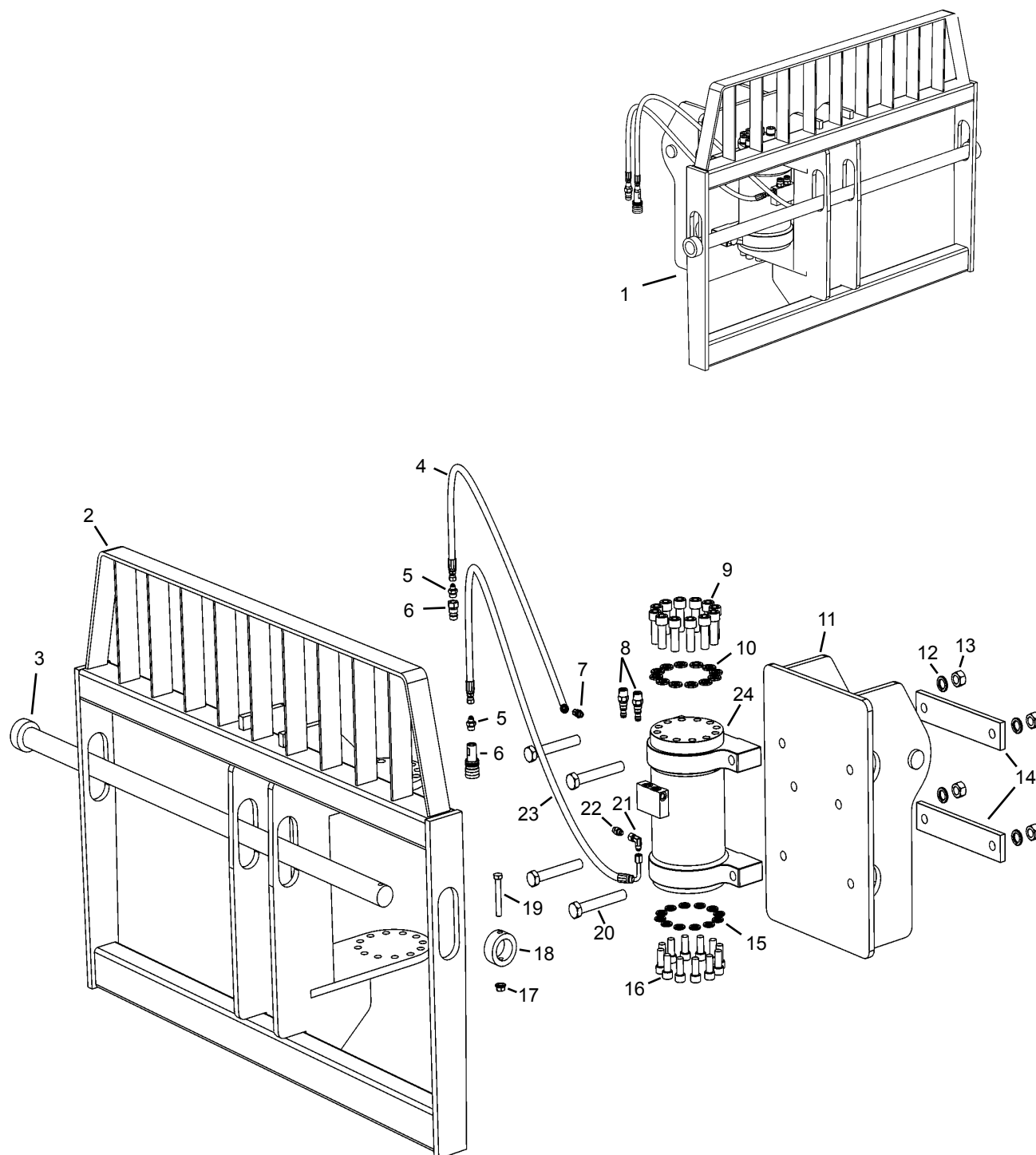




## Attachments

### 180° Swing Carriage

## RS Series





## Telescopic Handler

## Attachments 180° Swing Carriage

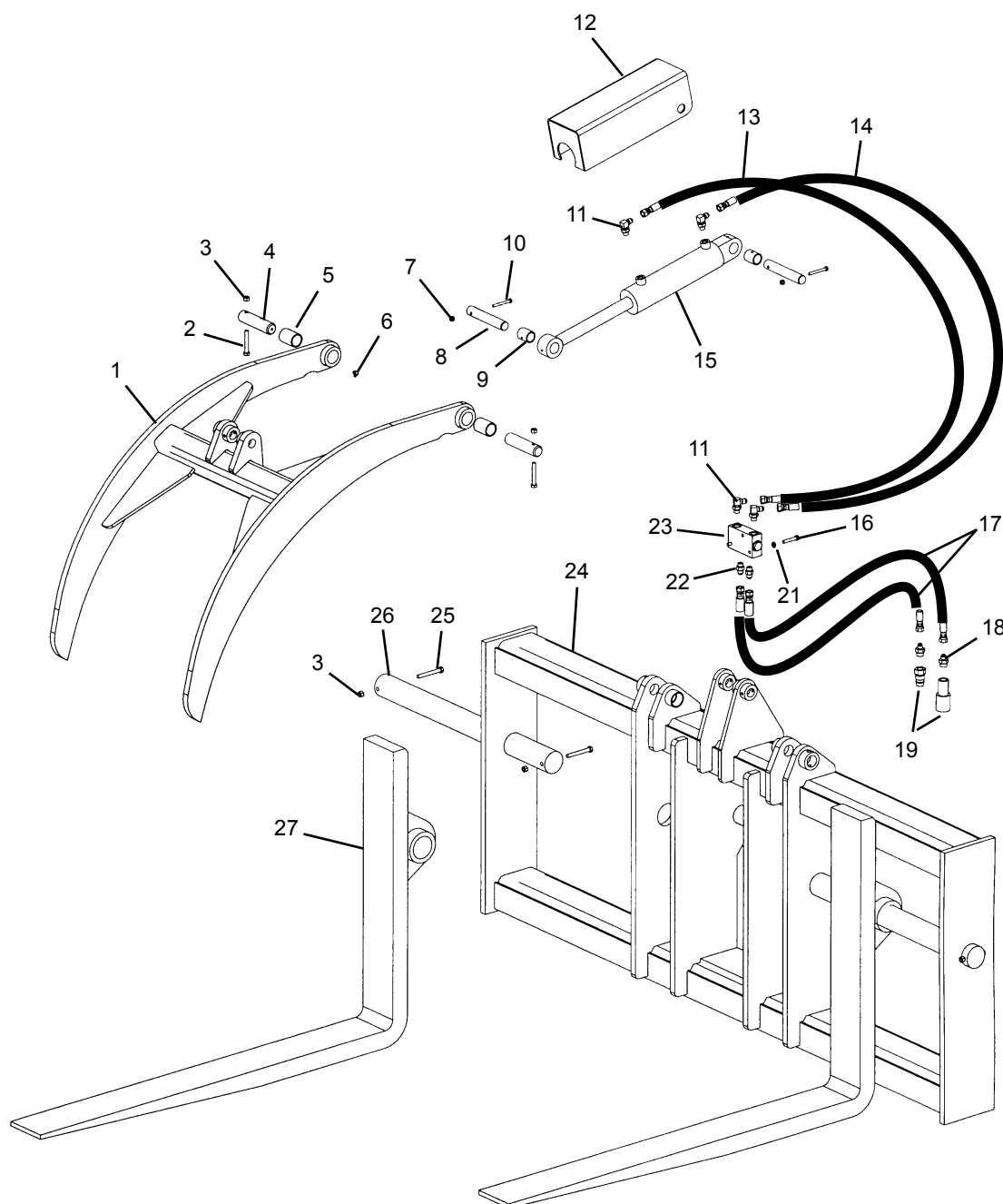
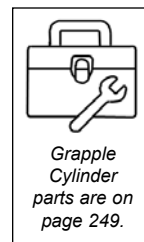
| Ref. No. | Part No. | Description                          | Qty. Req. | Ref. No. | Part No. | Description                      | Qty. Req. |
|----------|----------|--------------------------------------|-----------|----------|----------|----------------------------------|-----------|
| 01       | 50860041 | CARRIAGE, 180° SWING . . . . .       | 1         | 13       | NSS      | NUT 1"-8 GR8 . . . . .           | 4         |
| 02       | 50220297 | CARRIAGE WELDMENT . . . . .          | 1         | 14       | 50220296 | PLATE, CROSS SUPPORT . . . . .   | 2         |
| 03       | 50220305 | FORK SHAFT BAR . . . . .             | 1         | 15       | 654034   | LW 3/4" RZY . . . . .            | 12        |
| 04       | L66950   | HOSE, -6 A6/A6 59" . . . . .         | 1         | 16       | NSS      | SHCS 3/4" . . . . .              | 12        |
| 05       | 50380600 | ST MJ06-MORB08 (w/orifice) . . . . . | 2         | 17       | 081374   | HN FL SLOC 1/2 CZY . . . . .     | 1         |
| 06       | L65273   | COUPLER SET . . . . .                | 1         | 18       | 50220306 | COLLAR, FORK SHAFT BAR . . . . . | 1         |
| 07       | 079026   | 45 MJ06-MAORB06 . . . . .            | 1         | 19       | 650650   | CS 1/2" x 3-1/2" CZY . . . . .   | 1         |
| 08       | 105182   | PILOT CHECK VALVE . . . . .          | 2         | 20       | NSS      | CS 1"-8 x 6-1/2" GR8 . . . . .   | 4         |
|          | 105190   | SEAL KIT . . . . .                   | AR        | 21       | 091039   | 90 MJ06-FJS06 . . . . .          | 1         |
| 09       | NSS      | SHCS 7/8" . . . . .                  | 12        | 22       | 054994   | ST MJ06-MORB06 . . . . .         | 1         |
| 10       | 650652   | LW 7/8 RZY . . . . .                 | 12        | 23       | 50380646 | HOSE, -6 AS/DL6 64" . . . . .    | 1         |
| 11       | 50220290 | DYNATTACH ATTACHMENT . . . . .       | 1         | 24       | 50220307 | ACTUATOR . . . . .               | 1         |
| 12       | NSS      | LW 1" GR8 . . . . .                  | 4         |          |          |                                  |           |



## Attachments

### Log/Pipe Carriage

## RS Series





## Telescopic Handler

## Attachments Log/Pipe Carriage

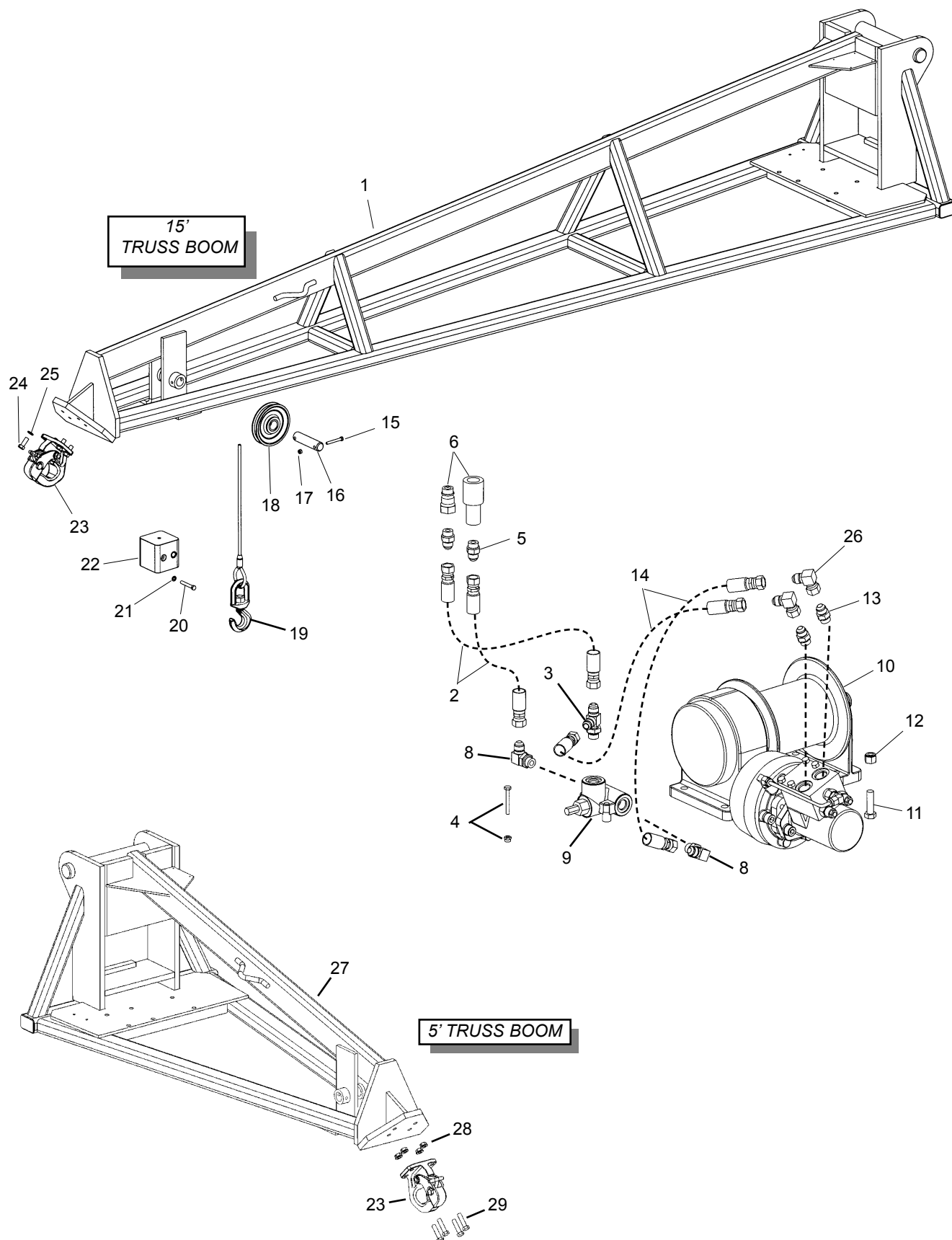
| Ref. No. | Part No. | Description                        | Qty. Req. | Ref. No. | Part No. | Description                         | Qty. Req. |
|----------|----------|------------------------------------|-----------|----------|----------|-------------------------------------|-----------|
| 01       | L67347   | LOG GRAPPLE WELDMENT . . . . .     | 1         | 15       | L67248   | LOG GRAPPLE CYLINDER . . . . .      | 1         |
| 02       | L50371   | 3/8"X2-1/2" BOLT . . . . .         | 2         |          | L98922   | SEAL KIT . . . . .                  | 1         |
| 03       | L520005  | 3/8"-16 NYLON INSERT NUT . . . . . | 6         | 16       | L50561   | 5/16"-18X1-3/4" BOLT . . . . .      | 2         |
| 04       | L67246   | LOG GRAPPLE PIVOT PIN . . . . .    | 2         | 17       | L66831   | HOSE, -6 A6/A6 52" . . . . .        | 2         |
| 05       | L61866   | BUSHING . . . . .                  | 2         | 18       | L63143   | ADAP., -8ORM -6JICM w/ORF . . . . . | 2         |
| 06       | L10057   | 1/4-28 GREASE ZERK 90° . . . . .   | 2         | 19       | L65273   | QUICK-COUPLER, SET . . . . .        | 1         |
| 07       | L520003  | 1/4" NYLON INSERT NUT . . . . .    | 2         | 21       | 654024   | 5/16" LOCKWASHER . . . . .          | 2         |
| 08       | L66811   | GRAPPLE CYLINDER PIN . . . . .     | 2         | 22       | 054994   | ADAP., -6ORM -6JICM . . . . .       | 2         |
| 09       | L63593   | BUSHING . . . . .                  | 2         | 23       | L71651   | VALVE, DOUBLE PORT CHECK . . . . .  | 1         |
| 10       | L50452   | 1/4X2-1/4" BOLT . . . . .          | 2         | 24       | L500220  | LOG CARRIAGE WELDMENT . . . . .     | 1         |
| 11       | 068938   | ADAP., -6ORM -6JICM 90° . . . . .  | 4         | 25       | 650818   | 3/8"-16X3" BOLT . . . . .           | 4         |
| 12       | L67495   | CYLINDER COVER . . . . .           | 1         | 26       | L66809   | LOG FORK SHAFT . . . . .            | 2         |
| 13       | L67598   | HOSE, -4 A6/A6 32" . . . . .       | 1         | 27       |          | LOG FORK WELDMENT . . . . .         | 2         |
| 14       | L67599   | HOSE, -4 A6/A6 20" . . . . .       | 1         |          | L66805   | 2"x5"x48"                           |           |
|          |          |                                    |           |          | 100547   | 2"x5"x60"                           |           |



## Attachments

### Truss Booms and Winch

## RS Series





## Telescopic Handler

## Attachments

### Truss Booms and Winch

| Ref. No.        | Part No. | Description                        | Qty. Req. | Ref. No.        | Part No.  | Description                           | Qty. Req. |
|-----------------|----------|------------------------------------|-----------|-----------------|-----------|---------------------------------------|-----------|
| 01              | L99235   | 15' TRUSS WELDMENT . . . . .       | 1         | 21              | 654026    | 3/8" LOCK WASHER . . . . .            | 2         |
| 02              | L64294   | HOSE, -8 A8/A8 53" . . . . .       | 2         | 22              | L60451    | WINCH BALL . . . . .                  | 1         |
| 03              | 114742   | ADAP., -8ORM -8JICM RUN TEE . .    | 1         | 23              | L61411    | PINTLE HOOK . . . . .                 | 1         |
| 04              | L50841   | 1/4"-20"X2" BOLT . . . . .         | 2         | 24              | L50380    | 1/2"-20X1-1/4" GR 8 BOLT . . . . .    | 4         |
|                 | L520003  | 1/4"-20 NYLON INSERT NUT . . . .   | 2         | 25              | 654030    | 1/2" LOCK WASHER . . . . .            | 4         |
| 05              | 054626   | ADAP., -8ORM -8JICM STR . . . . .  | 2         | 26 <sup>c</sup> | 088442    | ADAP., -8JICFS -8JICM 90° . . . . .   | 2         |
| 06              | L65273   | QUICK-COUPLER SET . . . . .        | 1         | 27              | 430497    | 5' TRUSS W/PINTLE HOOK . . . . .      | 1         |
| 08              | 054816   | ADAP., -8ORM -8JICM 90° . . . . .  | 2         |                 |           | (includes items 23, 30, and 31)       |           |
| 09              | L82358   | RELIEF VALVE . . . . .             | 1         | 28              | 651358    | CS 1/2" x 2" GR8Z . . . . .           | 4         |
| 10              | 100963   | HYDRAULIC WINCH . . . . .          | 1         | 29              | 210-19532 | HN FL CLOC 1/2" CZY . . . . .         | 4         |
| 11              | L50286   | 1/2"-13X1-3/4" GR 8 BOLT . . . . . | 6         |                 |           |                                       |           |
| 12              | L520019  | 1/2-13 NYLON INSERT NUT . . . . .  | 6         |                 |           |                                       |           |
| 13              | 089099   | ADAP., -10ORM -8JICM . . . . .     | 2         |                 |           |                                       |           |
| 14              | L400398  | HOSE, -6 A8/A8 18.5" . . . . .     | 2         | --              | L500223   | PLATE, AUGER ADAPTER . . . . .        | 1         |
| 15              | 650733   | 5/16"X2-1/2" BOLT . . . . .        | 2         |                 |           | (used with auger)                     |           |
| 16              | 100076   | PIN, TRUSS WINCH . . . . .         | 1         |                 |           |                                       |           |
| 17              | L520004  | 5/16"-18 NYLON INSERT NUT . . . .  | 2         |                 |           |                                       |           |
| 18              | L65338   | WINCH SHEAVE . . . . .             | 1         | a               |           | Used with 15' truss booms with winch. |           |
| 19 <sup>a</sup> | L71266   | 3/8"X100' WINCH CABLE . . . . .    | 1         | b               |           | Used with 5' truss booms with winch.  |           |
|                 |          | (includes hook and swivel)         |           | c               |           | Not used on all attachments.          |           |
| 19 <sup>b</sup> | L66946   | 3/8"X60' WINCH CABLE . . . . .     | 1         |                 |           |                                       |           |
|                 |          | (includes hook and swivel)         |           |                 |           |                                       |           |
| 20              | L50371   | 3/8"X2-1/2" BOLT . . . . .         | 2         |                 |           |                                       |           |

#### -- ITEMS NOT SHOWN--

-- L500223 PLATE, AUGER ADAPTER . . . . . 1  
(used with auger)

a Used with 15' truss booms with winch.

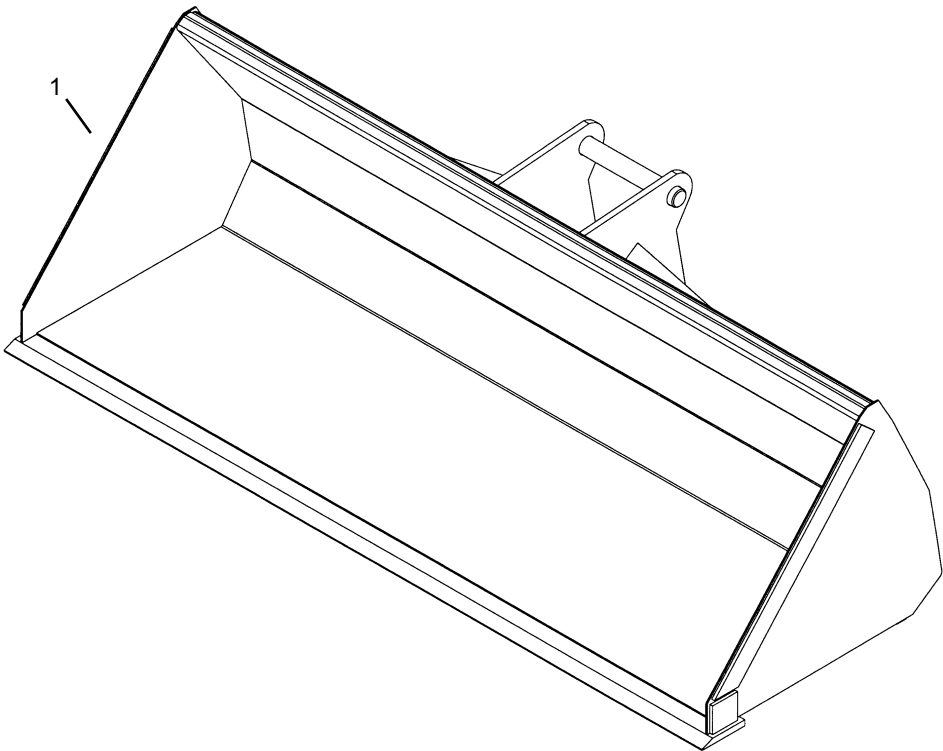
b Used with 5' truss booms with winch.

c Not used on all attachments.



**Attachments**  
***Bucket***

**RS Series**



| Ref. No. | Part No. | Description                                 | Qty. Req. |
|----------|----------|---------------------------------------------|-----------|
| 01       | L500374  | 1.3 CU. YD. BUCKET WELDMNT . 1              |           |
|          | L68831   | CUTTING EDGE 98" ( <i>weld-on</i> ) . . . 1 |           |



# Telescopic Handler

## Decals

### General Information and Application

#### GENERAL INFORMATION



### CAUTION

**ALWAYS** read and follow the safety precautions on decals. Replace decals if they are damaged, or if the unit is repainted. If repainting, **BE SURE** that all applicable decals are affixed in their proper locations.

Decal locations information is provided to assist in the proper selection and application of new decals, in the event the original decals become damaged or the machine is repainted.

For correct replacement of decals, compare the location illustrations to your machine before starting to refinish the unit. Check off each required decal using the illustration reference number to find the part number, description and quantity in the list. Refer to the appropriate illustrations for replacement locations.



***If there is a decal on a part that is to be replaced, be sure to order and affix the decal to the replacement part.***

#### NEW DECAL APPLICATION

Before applying the new decals, surfaces must be free from dirt, dust, grease and other foreign material. To apply a solid-formed decal, remove the smaller portion of the decal backing paper and apply this part of the exposed adhesive backing to the clean surface while maintaining proper position and alignment. Slowly peel off the other portion of the backing paper while applying hand pressure to smooth out decal surface. To apply a masked decal, first remove the backing paper. Then, properly orient and position the decal onto the clean mounting surface. After the decal is firmly applied and smoothly pressed down, remove the front covering paper.

#### PAINT FINISH

Use this list to order paint for refinishing:

|        |                                      |
|--------|--------------------------------------|
| 167788 | One Gallon Yellow                    |
| 167789 | 6 (12 oz. Spray Cans) Yellow         |
| 167754 | One Gallon Gun-Metal Gray            |
| 167755 | 6 (12 oz. Spray Cans) Gun-Metal Gray |

#### Decal Kits

|          |                                        |
|----------|----------------------------------------|
| 50220194 | RS6-42 Telescopic Handler without PWP  |
| 50220195 | RS6-42 Telescopic Handler with PWP     |
| 50220196 | RS8-42 Telescopic Handler without PWP  |
| 50220197 | RS8-42 Telescopic Handler with PWP     |
| 50220198 | RS8-44 Telescopic Handler without PWP  |
| 50220199 | RS8-44 Telescopic Handler with PWP     |
| 50220200 | RS10-44 Telescopic Handler without PWP |
| 50220201 | RS10-44 Telescopic Handler with PWP    |
| 50220202 | RS10-55 Telescopic Handler without PWP |
| 50220203 | RS10-55 Telescopic Handler with PWP    |
| 50220204 | RS12-42 Telescopic Handler without PWP |
| 50220205 | RS12-42 Telescopic Handler with PWP    |

**NOTE:** Decals may be purchased in kits or individually.

#### Boom Attachment Decals

|        |                           |
|--------|---------------------------|
| L65927 | WARNING - PINCH POINT     |
| L65348 | WARNING - WINCH           |
| L66042 | WARNING - TRUSS BOOM TILT |

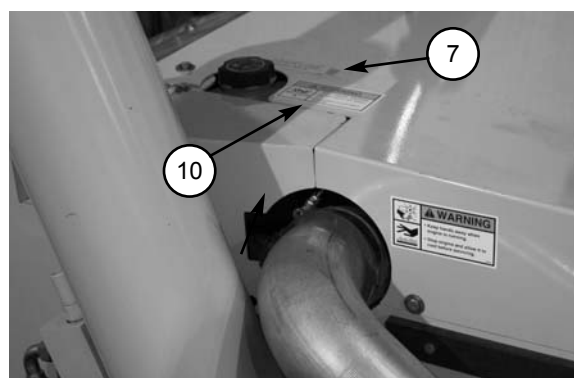
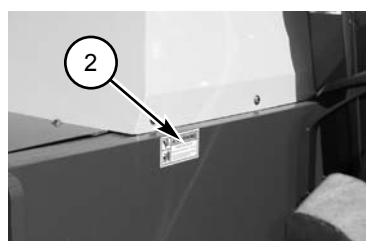
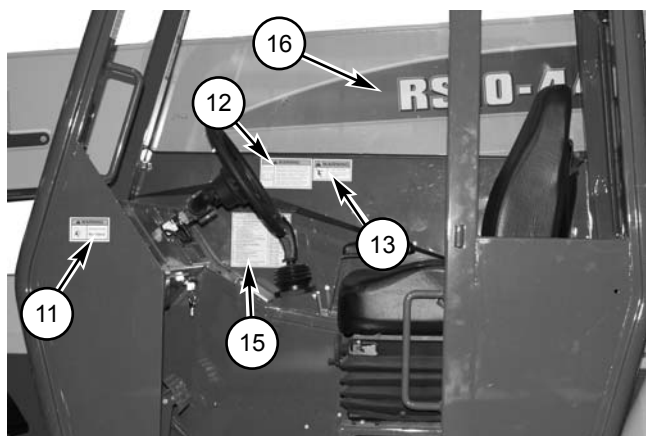
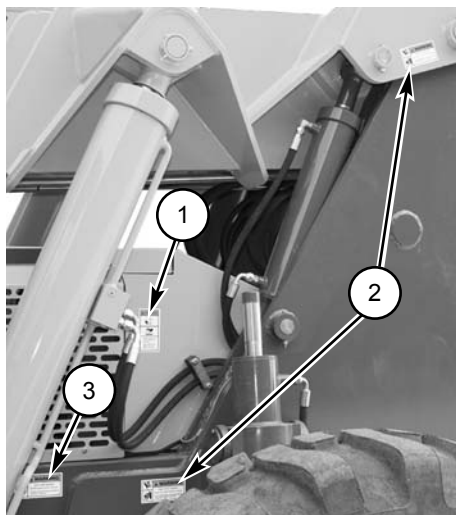
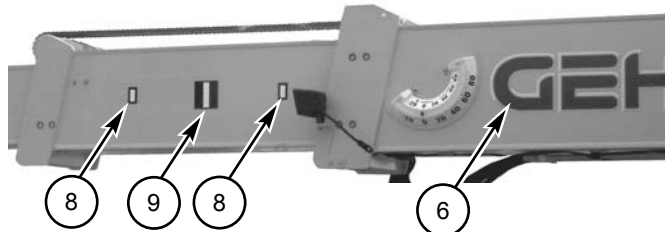
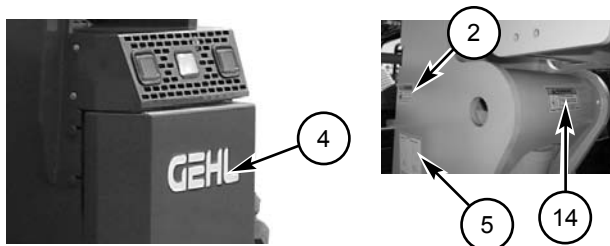




## Decals

### Various Locations

## RS Series



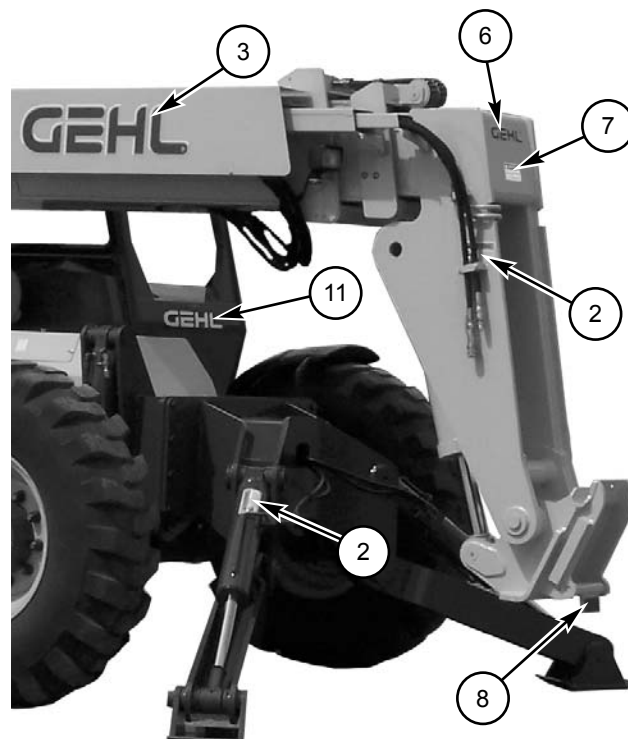
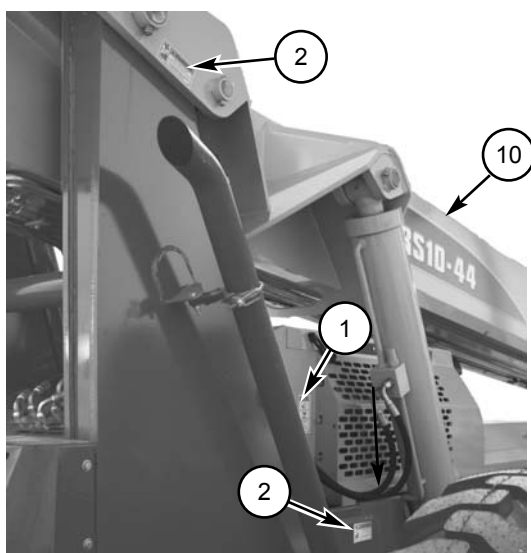
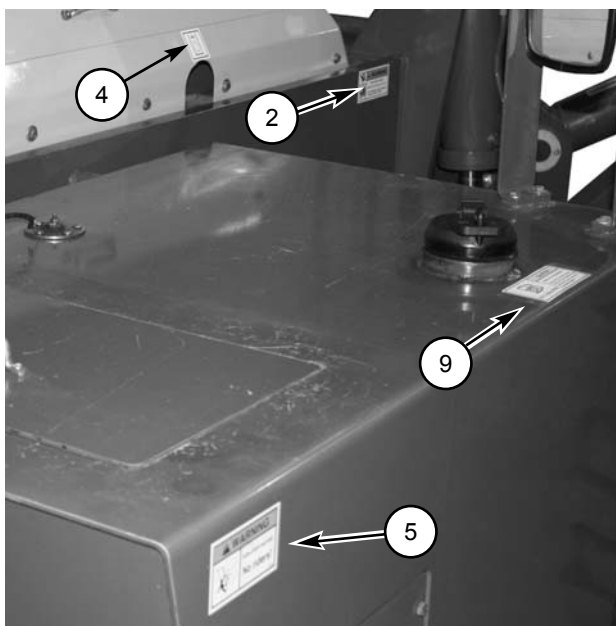
| Ref. No. | Part No. | Description                     | Qty. Req. |
|----------|----------|---------------------------------|-----------|
| 01       | L70305   | DANGER; HANDS OUT . . . . .     | AR        |
| 02       | L65927   | WARNING; PINCH POINT . . . . .  | AR        |
| 03       | L65933   | WARNING; JUMP-START . . . . .   | AR        |
| 04       | 102027   | GEHL, 5.00" . . . . .           | AR        |
| 05       | L65937   | QUICK-ATTACH DIAGRAM . . . . .  | 1         |
| 06       | 102025   | GEHL, 8.00" . . . . .           | AR        |
| 07       | 056859   | ANTI-FREEZE . . . . .           | 1         |
| 08       | L62583   | HALF-ZONE MARKER (5 pieces) . . | 1         |
| 09       |          | EXTENSION MARKERS               |           |
|          | L67719   | NO. "1" EXTENSION MARKER . . .  | 1         |
|          | L67720   | NO. "2" EXTENSION MARKER . . .  | 1         |
|          | L67721   | NO. "3" EXTENSION MARKER . . .  | 1         |
|          | L67722   | NO. "4" EXTENSION MARKER . . .  | 1         |
|          | L67723   | NO. "5" EXTENSION MARKER . . .  | 1         |
| 10       | 072798   | COOLANT UNDER PRESSURE . . .    | 1         |

| Ref. No. | Part No. | Description                   | Qty. Req. |
|----------|----------|-------------------------------|-----------|
| 11       | L65932   | WARNING; NO RIDERS . . . . .  | 1         |
| 12       | 100359   | WARNING; OPERATOR'S MAN. . .  | 1         |
| 13       | L65928   | DANGER; PERSONAL INJURY . . . | 1         |
|          |          | (units without PWP)           |           |
| 14       | L65926   | WARNING; CARRY LOAD LOW . . . | 1         |
| 15       | 50380361 | MAINTENANCE CHART . . . . .   | 1         |
| 16       |          | MODEL DESIGNATION DECAL       |           |
|          | 102802   | RS6-42, LEFT SIDE . . . . .   | 1         |
|          | 102916   | RS8-42, LEFT SIDE . . . . .   | 1         |
|          | 102804   | RS8-44, LEFT SIDE . . . . .   | 1         |
|          | 210520   | RS10-44, LEFT SIDE . . . . .  | 1         |
|          | 210775   | RS10-55, LEFT SIDE . . . . .  | 1         |
|          | 210803   | RS12-42, LEFT SIDE . . . . .  | 1         |



## Telescopic Handler

## Decals Various Locations



| Ref. No. | Part No. | Description                   | Qty. Req. |
|----------|----------|-------------------------------|-----------|
| 01       | L70305   | DANGER; HANDS OUT. . . . .    | AR        |
| 02       | L65927   | WARNING; PINCH POINT. . . . . | AR        |
| 03       | 102025   | GEHL, 8.00" . . . . .         | AR        |
| 04       | 137632   | HYDRAULIC OIL FILL. . . . .   | 1         |
| 05       | L65932   | WARNING; NO RIDERS. . . . .   | 1         |
| 06       | 102026   | GEHL, 2.00" . . . . .         | 1         |
| 07       | L65928   | DANGER; PERSONAL INJURY . . . | 1         |
|          |          | (units without PWP)           |           |
| 08       | L66613   | QUICK-ATTACH UNLOCKED . . . . | 1         |
| 09       | 50301416 | DIESEL FUEL (ULSD). . . . .   | 1         |

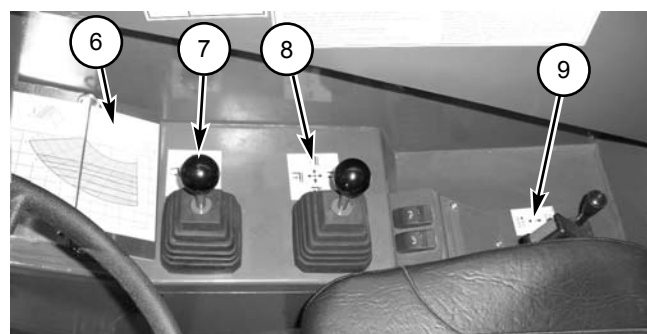
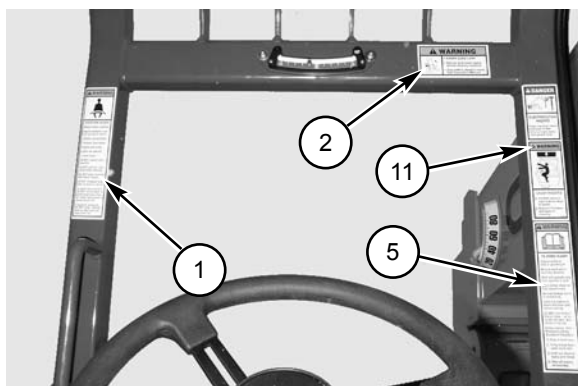
| Ref. No. | Part No. | Description                   | Qty. Req. |
|----------|----------|-------------------------------|-----------|
| 10       |          | MODEL DESIGNATION DECAL       |           |
|          | 102803   | RS6-42, RIGHT SIDE . . . . .  | 1         |
|          | 102917   | RS8-42, RIGHT SIDE . . . . .  | 1         |
|          | 102805   | RS8-44, RIGHT SIDE . . . . .  | 1         |
|          | 210521   | RS10-44, RIGHT SIDE . . . . . | 1         |
|          | 210773   | RS10-55, RIGHT SIDE . . . . . | 1         |
|          | 210802   | RS12-42, RIGHT SIDE . . . . . | 1         |
| 11       | 184043   | GEHL, 3.75" . . . . .         | 1         |



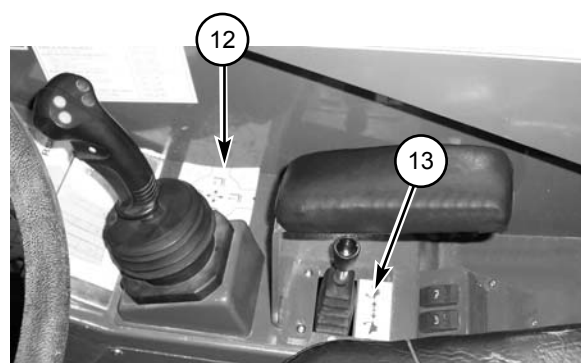
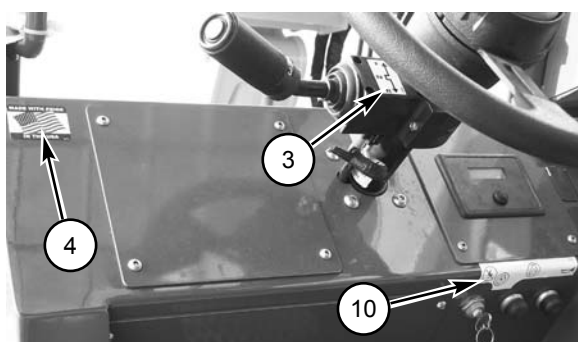
## Decals

### Various Locations

## RS Series



**Dual Joystick Control**



**Tri-function Joystick Control**

| Ref. No.        | Part No. | Description                                       | Qty. Req. |
|-----------------|----------|---------------------------------------------------|-----------|
| 01              | L70306   | WARNING; TILT HAZARD/GEN. . . AR                  |           |
| 02              | L65926   | WARNING; CARRY LOAD LOW . . AR                    |           |
| 03              | L68295   | F-N-R SHIFT . . . . . 1                           |           |
| 04              | 140516   | MADE IN U.S.A. . . . . 1                          |           |
| 05              | 101506   | WARNING; PARK BRAKE/SEAT . . 1                    |           |
| 06              | Note a   | LOAD ZONE CHARTS . . . . . AR                     |           |
| 07 <sup>b</sup> | L63632   | ATTACHMENT TILT/FRAME LVL. . 1                    |           |
| 08 <sup>b</sup> | L63631   | BOOM CONTROL . . . . . 1                          |           |
| 09 <sup>b</sup> | 102718   | AUX. HYD. CONTROL OPTION . . 1                    |           |
| 10              | 102717   | IGNITION/START/HORN. . . . . 1                    |           |
| 11              | L70307   | DANGER; HIGH VOLTAGE/<br>MOVING PARTS . . . . . 1 |           |

| Ref. No.        | Part No. | Description                  | Qty. Req. |
|-----------------|----------|------------------------------|-----------|
| 12 <sup>c</sup> | 104215   | JOYSTICK CONTROL . . . . . 1 |           |
| 13 <sup>c</sup> | L63311   | FRAME LEVEL . . . . . 1      |           |

*a To order load charts, please refer to the Load Zone Charts section in the Operator's Manual (913328).*

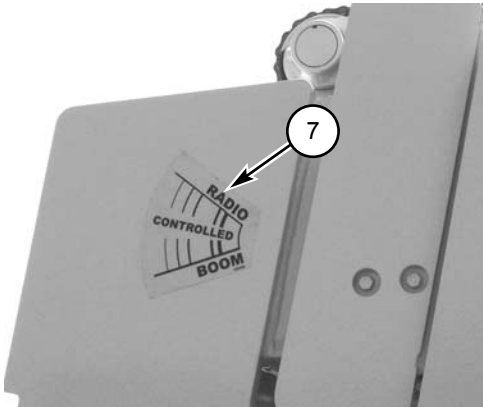
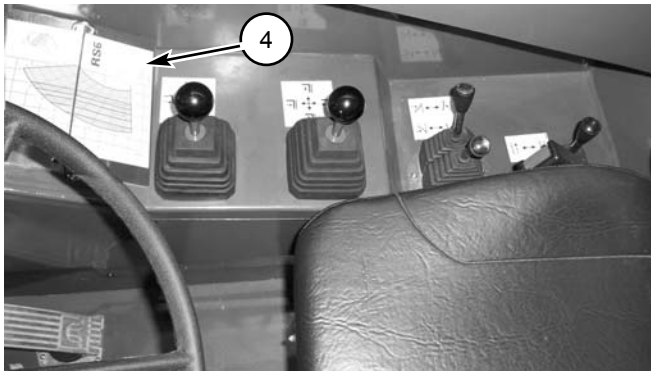
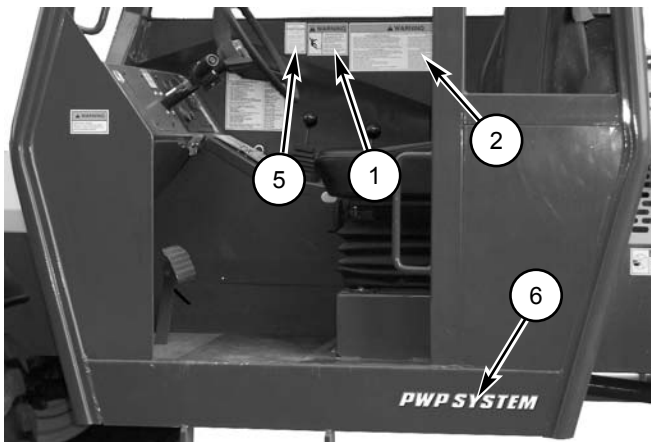
*b Used exclusively on machines equipped with the dual-control joystick option (two joysticks).*

*c Used exclusively on machines equipped with the tri-function joystick option (one joystick).*



# Telescopic Handler

## Decals Various Locations



### DECAL LOCATIONS - PWP EQUIPPED UNITS

| Ref. No. | Part No. | Description                      | Qty. Req. | Ref. No. | Part No. | Description                                                               | Qty. Req. |
|----------|----------|----------------------------------|-----------|----------|----------|---------------------------------------------------------------------------|-----------|
| 01       | L71554   | WARNING; PERSONNEL LIFT . . . AR |           | 06       | 103028   | PWP SYSTEM. . . . .                                                       | 1         |
| 02       | L71555   | WARNING; PLATFORM RULES . . AR   |           | 07       | 103453   | RADIO CONTROL. . . . .                                                    | 1         |
| 03       | L71700   | RULES, PERSONNEL LIFT . . . . AR |           |          |          | (Only for units with remote boom control, not included in the decal kit.) |           |
| 04       | 210597   | PWP LOAD CHART . . . . .         | 1         |          |          |                                                                           |           |
| 05       | 102969   | PWP SWITCH DECAL . . . . .       | 1         |          |          |                                                                           |           |





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## RS Series

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 054626   | 201      | 05       | 077965   | 207      | 19       | 101055   | 181      | 01       | 102313   | 211      | 09       |
| 054626   | 205      | 03       | 079026   | 213      | 25       | 101212   | 169      | 28       | 102313   | 213      | 09       |
| 054816   | 195      | 06       | 079026   | 217      | 07       | 101212   | 177      | 28       | 102321   | 215      | 20       |
| 054816   | 199      | 07       | 079026   | 289      | 07       | 101278   | 19       | 14       | 102321   | 217      | 23       |
| 054816   | 201      | 23       | 079029   | 75       | 20       | 101351   | 181      | 13       | 102321   | 225      | 10       |
| 054816   | 293      | 08       | 079038   | 51       | 26       | 101436   | 17       | 22       | 102321   | 227      | 14       |
| 054816   | 55       | 05       | 079209   | 281      | 07       | 101463   | 49       | 27       | 102335   | 152      | 01       |
| 054819   | 77       | 23       | 079209   | 282      | 04       | 101495   | 13       | 24       | 102335   | 183      | 12       |
| 054994   | 203      | 20       | 079209   | 47       | —        | 101506   | 298      | 05       | 102356   | 207      | 28       |
| 054994   | 221      | 03       | 079769   | 67       | 03       | 101550   | 09       | 21       | 102356   | 265      | 00       |
| 054994   | 223      | 03       | 080313   | 250      | 05       | 101550   | 09       | 24       | 102371   | 181      | 15       |
| 054994   | 225      | 03       | 080319   | 249      | 05       | 101567   | 49       | 02       | 102408   | 58       | 01       |
| 054994   | 231      | 03       | 080319   | 251      | 05       | 101624   | 280      | 02       | 102420   | 267      | 01       |
| 054994   | 281      | 09       | 080319   | 252      | 06       | 101624   | 285      | 26       | 102423   | 45       | 12       |
| 054994   | 289      | 22       | 080319   | 253      | 04       | 101625   | 280      | 02       | 102434   | 209      | 02       |
| 054994   | 291      | 22       | 081374   | 289      | 17       | 101625   | 285      | 26       | 102434   | 221      | 02       |
| 055005   | 183      | 06       | 081379   | 49       | 21       | 101667   | 43       | 05       | 102434   | 223      | 02       |
| 055005   | 185      | 01       | 084175   | 69       | 24       | 101712   | 23       | 04       | 102434   | 225      | 02       |
| 055005   | 197      | 12       | 087850   | 75       | 21       | 101717   | 13       | 11       | 102434   | 227      | 02       |
| 055005   | 203      | 08       | 088442   | 125      | 12       | 101719   | 17       | 19       | 102434   | 229      | 02       |
| 055005   | 207      | 08       | 088442   | 127      | 10       | 101727   | 11       | 13       | 102434   | 231      | 02       |
| 056089   | 197      | 11       | 088442   | 293      | 26       | 101746   | 17       | 32       | 102434   | 273      | 00       |
| 056089   | 207      | 09       | 089001   | 71       | 28       | 101792   | 17       | 20       | 102435   | 209      | 01       |
| 056859   | 296      | 07       | 089069   | 19       | 17       | 101877   | 20       | 13       | 102435   | 211      | 02       |
| 058610   | 195      | 11       | 089070   | 19       | 17       | 101877   | 21       | 02       | 102445   | 195      | 03       |
| 058610   | 207      | 13       | 089099   | 293      | 13       | 101877   | 33       | 10       | 102491   | 09       | 28       |
| 061946   | 71       | 22       | 089888   | 31       | 03       | 101879   | 51       | 24       | 102498   | 203      | 05       |
| 061946   | 75       | 07       | 090666   | 121      | 05       | 101880   | 205      | 01       | 102498   | 254      | 01       |
| 062023   | 71       | 17       | 090666   | 123      | 05       | 101880   | 256      | 01       | 102516   | 183      | 25       |
| 065415   | 187      | 24       | 090666   | 27       | 22       | 101880   | 33       | 09       | 102516   | 185      | 12       |
| 065415   | 189      | 16       | 090666   | 29       | 09       | 101954   | 49       | 22       | 102517   | 183      | 24       |
| 067761   | 187      | 25       | 090666   | 51       | 31       | 101960   | 49       | 23       | 102517   | 185      | 13       |
| 067761   | 189      | 15       | 090666   | 71       | 12       | 101961   | 49       | 22       | 102529   | 39       | 08       |
| 067823   | 63       | 16       | 090666   | 75       | 10       | 101962   | 49       | 22       | 102540   | 183      | 15       |
| 067847   | 17       | 14       | 091039   | 125      | 01       | 101963   | 49       | 23       | 102541   | 183      | 07       |
| 067847   | 71       | 08       | 091039   | 127      | 03       | 101999   | 285      | 18       | 102543   | 183      | 01       |
| 068938   | 203      | 22       | 091039   | 211      | 21       | 102025   | 296      | 06       | 102543   | 243      | 00       |
| 068938   | 223      | 06       | 091039   | 213      | 24       | 102025   | 297      | 03       | 102544   | 183      | 01       |
| 068938   | 227      | 06       | 091039   | 215      | 07       | 102026   | 297      | 06       | 102544   | 243      | 00       |
| 068938   | 231      | 06       | 091039   | 217      | 25       | 102027   | 296      | 04       | 102566   | 53       | 08       |
| 068938   | 235      | 05       | 091039   | 223      | 05       | 102122   | 121      | 23       | 102569   | 121      | 08       |
| 068938   | 237      | 05       | 091039   | 227      | 05       | 102123   | 121      | 23       | 102569   | 123      | 08       |
| 070648   | 31       | 13       | 091039   | 231      | 05       | 102173   | 07       | 01       | 102570   | 121      | 08       |
| 071043   | 63       | 30       | 091039   | 289      | 21       | 102211   | 77       | 30       | 102570   | 123      | 08       |
| 072580   | 187      | 23       | 095601   | 205      | 02       | 102212   | 77       | 28       | 102572   | 20       | —        |
| 072580   | 189      | 17       | 095601   | 205      | 19       | 102245   | 159      | 01       | 102572   | 23       | 00       |
| 072580   | 197      | 06       | 095955   | 29       | 03       | 102245   | 159      | 02       | 102573   | 129      | 03       |
| 072587   | 203      | 25       | 100011   | 125      | 11       | 102245   | 161      | 01       | 102575   | 129      | 06       |
| 072587   | 77       | 03       | 100011   | 127      | 09       | 102245   | 161      | 02       | 102575   | 133      | 25       |
| 072602   | 195      | 12       | 100071   | 35       | 10       | 102246   | 159      | 01       | 102576   | 129      | 07       |
| 072602   | 207      | 14       | 100076   | 293      | 16       | 102246   | 159      | 02       | 102576   | 133      | 24       |
| 072798   | 296      | 10       | 100102   | 23       | 10       | 102246   | 161      | 01       | 102577   | 129      | 10       |
| 072806   | 125      | 02       | 100118   | 181      | 15       | 102246   | 161      | 02       | 102578   | 129      | 11       |
| 072806   | 221      | 04       | 100119   | 177      | 16       | 102247   | 201      | 04       | 102579   | 131      | 03       |
| 072806   | 223      | 04       | 100119   | 179      | 01       | 102247   | 239      | 00       | 102580   | 131      | 03       |
| 072806   | 225      | 04       | 100359   | 296      | 12       | 102262   | 71       | 25       | 102581   | 133      | 02       |
| 072806   | 231      | 04       | 100369   | 280      | 03       | 102282   | 154      | 01       | 102581   | 143      | 02       |
| 072806   | 287      | 20       | 100369   | 281      | 15       | 102282   | 157      | 01       | 102581   | 147      | 02       |
| 072916   | 63       | 25       | 100369   | 285      | 24       | 102283   | 163      | 12       | 102582   | 133      | 03       |
| 075235   | 77       | 04       | 100547   | 291      | 27       | 102283   | 179      | 01       | 102582   | 133      | 03       |
| 076002   | 170      | 13       | 100631   | 287      | 19       | 102285   | 154      | 01       | 102583   | 133      | 50       |
| 076589   | 71       | 10       | 100963   | 293      | 10       | 102285   | 157      | 01       | 102583   | 143      | 57       |
| 076589   | 75       | 09       | 100990   | 285      | 27       | 102286   | 163      | 12       | 102583   | 147      | 57       |
| 076880   | 125      | 07       | 101003   | 285      | 16       | 102286   | 179      | 01       | 102584   | 133      | 04       |
| 076880   | 127      | 08       | 101028   | 169      | 05       | 102313   | 203      | 19       | 102584   | 133      | 04       |



## Telescopic Handler

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| 102586   | 133      | 11       | 102621   | 148      | 21       | 102778   | 09       | 20       | 102877   | 262      | 01       |
| 102586   | 133      | 11       | 102622   | 135      | 06       | 102779   | 123      | 15       | 102878   | 238      | 11       |
| 102587   | 121      | 07       | 102622   | 137      | 02       | 102779   | 43       | 01       | 102878   | 262      | 02       |
| 102587   | 123      | 07       | 102622   | 148      | 04       | 102781   | 123      | 09       | 102880   | 09       | 09       |
| 102587   | 133      | 51       | 102623   | 135      | 07       | 102781   | 43       | 04       | 102881   | 09       | 13       |
| 102587   | 143      | 58       | 102624   | 135      | 09       | 102783   | 33       | 05       | 102883   | 43       | 07       |
| 102587   | 147      | 58       | 102624   | 137      | 16       | 102784   | 209      | 03       | 102886   | 17       | 21       |
| 102588   | 133      | 12       | 102625   | 135      | 10       | 102784   | 221      | 01       | 102889   | 243      | 04       |
| 102588   | 143      | 15       | 102626   | 135      | 11       | 102786   | 203      | 24       | 102890   | 243      | 08       |
| 102588   | 147      | 15       | 102626   | 137      | 15       | 102786   | 211      | 04       | 102897   | 136      | 02       |
| 102589   | 133      | 13       | 102627   | 135      | 12       | 102786   | 235      | 06       | 102897   | 137      | 09       |
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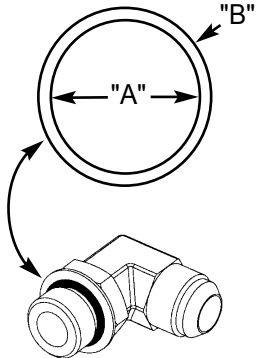




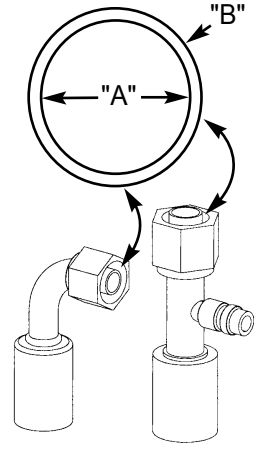
## REFERENCE

### O-RING TABLES

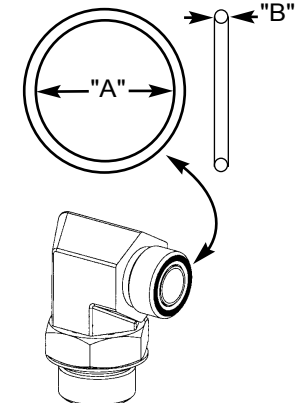
**O-Ring Table — Male Boss Fittings**

|  | Fitting Thread Size | Diameter "A" | Diameter "B" | Part Number |
|-----------------------------------------------------------------------------------|---------------------|--------------|--------------|-------------|
|                                                                                   | 9/16 - 18           | 0.468        | 0.078        | 055897      |
|                                                                                   | 3/4 - 16            | 0.644        | 0.087        | 055896      |
|                                                                                   | 7/8 - 14            | 0.755        | 0.097        | 055898      |
|                                                                                   | 1-1/16 - 12         | 0.924        | 0.116        | 048953      |
|                                                                                   | 1-5/16 - 12         | 1.171        | 0.116        | 058674      |
|                                                                                   | 1-5/8 - 12          | 1.475        | 0.118        | 077970      |
|                                                                                   | A/C #6              | 0.312        | 0.453        | 138777      |
|                                                                                   | A/C #8              | 0.437        | 0.578        | 138778      |
|                                                                                   | A/C #10             | 0.562        | 0.703        | 138779      |

**O-Ring Table — Air Conditioning Fittings**

|  | A/C Fitting | Diameter "A" | Diameter "B" | Part Number |
|------------------------------------------------------------------------------------|-------------|--------------|--------------|-------------|
|                                                                                    | A/C #6      | 0.312        | 0.453        | 138777      |
|                                                                                    | A/C #8      | 0.437        | 0.578        | 138778      |
|                                                                                    | A/C #10     | 0.562        | 0.703        | 138779      |
|                                                                                    |             |              |              |             |

**O-Ring Table — Face Seal Fittings**

|  | Fitting Thread Size | Tube O.D. | Diameter "A" | Thickness "B" | Part Number |
|-------------------------------------------------------------------------------------|---------------------|-----------|--------------|---------------|-------------|
|                                                                                     | 9/16 - 18           | 1/4       | 0.301        | 0.070         | 50300165    |
|                                                                                     | 11/16 - 16          | 3/8       | 0.364        | 0.070         | 50300166    |
|                                                                                     | 13/16 - 16          | 1/2       | 0.489        | 0.070         | 50300167    |
|                                                                                     | 1-14 - 14           | 5/8       | 0.614        | 0.070         | 135124      |
|                                                                                     | 1-13/16 - 12        | 3/4       | 0.739        | 0.070         | 137205      |
|                                                                                     | 1-7/16 - 12         | 1         | 0.926        | 0.070         | 50300168    |



## REFERENCE ADAPTER (FITTINGS) TORQUE GUIDE

Use these torque values when tightening hydraulic, fuel, or coolant adapters (fittings).

| SAE "O-Ring" Boss (Steel) Adapters |            |                                |         |                       |         |
|------------------------------------|------------|--------------------------------|---------|-----------------------|---------|
| Size                               |            | Pounds-Force Foot<br>(lb.-ft.) |         | Newton Meter<br>(N-m) |         |
| Dash                               | Fractional | Minimum                        | Maximum | Minimum               | Maximum |
| -3                                 | 3/16       | 8                              | 10      | 11                    | 13      |
| -4                                 | 1/4        | 14                             | 16      | 19                    | 21      |
| -5                                 | 5/16       | 18                             | 20      | 24                    | 27      |
| -6                                 | 3/8        | 24                             | 26      | 32                    | 35      |
| -8                                 | 1/2        | 50                             | 60      | 68                    | 81      |
| -10                                | 5/8        | 72                             | 80      | 97                    | 108     |
| -12                                | 3/4        | 125                            | 135     | 170                   | 183     |
| -14                                | 7/8        | 160                            | 180     | 216                   | 244     |
| -16                                | 1          | 200                            | 220     | 271                   | 298     |
| -20                                | 1-1/4      | 210                            | 280     | 285                   | 380     |
| -24                                | 1-1/2      | 270                            | 360     | 366                   | 488     |

| JIC 37° and 45° (Machined or Flared) Adapters |            |                                |         |                       |         |
|-----------------------------------------------|------------|--------------------------------|---------|-----------------------|---------|
| Size                                          |            | Pounds-Force Foot<br>(lb.-ft.) |         | Newton Meter<br>(N-m) |         |
| Dash                                          | Fractional | Minimum                        | Maximum | Minimum               | Maximum |
| -4                                            | 1/4        | 10                             | 11      | 13                    | 15      |
| -5                                            | 5/16       | 13                             | 15      | 17                    | 20      |
| -6                                            | 3/8        | 17                             | 19      | 23                    | 26      |
| -8                                            | 1/2        | 34                             | 38      | 46                    | 51      |
| -10                                           | 5/8        | 50                             | 56      | 68                    | 78      |
| -12                                           | 3/4        | 70                             | 78      | 95                    | 106     |
| -16                                           | 1          | 94                             | 104     | 127                   | 141     |
| -20                                           | 1-1/4      | 124                            | 138     | 168                   | 187     |
| -24                                           | 1-1/2      | 156                            | 173     | 211                   | 234     |
| -32                                           | 2          | 219                            | 243     | 297                   | 329     |



## REFERENCE

### METRIC BOLT TORQUE GUIDE

Use these torque values when tightening hardware—excluding: lock nuts, thread-forming, self-tapping, and metal screws—unless otherwise specified.

| Metric<br>Coarse-Pitch<br>Thread—(DRY) | All torque values are in Foot-Pounds and Newton Meters (Nm). |             |             |            |             |
|----------------------------------------|--------------------------------------------------------------|-------------|-------------|------------|-------------|
|                                        | DIN 912, DIN 931, DIN 933, etc...                            |             |             | DIN 7984   |             |
|                                        | 8.8                                                          | 10.9        | 12.9        | 8.8        | 10.9        |
| M5                                     | 4.1 (5.5)                                                    | 6 (8)       | 7 (10)      | 4 (5)      | 5 (7)       |
| M6                                     | 7 (10)                                                       | 10 (14)     | 13 (17)     | 6.3 (8.5)  | 9 (12)      |
| M8                                     | 18 (25)                                                      | 26 (35)     | 31 (42)     | 15 (20)    | 22 (30)     |
| M10                                    | 33 (45)                                                      | 48 (65)     | 59 (80)     | 30 (40)    | 44 (59)     |
| M12                                    | 64 (87)                                                      | 81 (110)    | 108 (147)   | 51 (69)    | 74 (100)    |
| M14                                    | 100 (135)                                                    | 133 (180)   | 170 (230)   | 81 (110)   | 118 (160)   |
| M16                                    | 155 (210)                                                    | 203 (275)   | 258 (350)   | 125 (170)  | 184 (250)   |
| M18                                    | 207 (280)                                                    | 302 (410)   | 354 (480)   | 181 (245)  | 254 (345)   |
| M20                                    | 302 (410)                                                    | 420 (570)   | 509 (690)   | 251 (340)  | 361 (490)   |
| M22                                    | 406 (550)                                                    | 575 (780)   | 686 (930)   | 339 (460)  | 487 (660)   |
| M24                                    | 524 (710)                                                    | 738 (1000)  | 878 (1190)  | 435 (590)  | 620 (840)   |
| M27                                    | 767 (1040)                                                   | 1092 (1480) | 1305 (1770) | 642 (870)  | 922 (1250)  |
| M30                                    | 1047 (1420)                                                  | 1482 (2010) | 1770 (2400) | 885 (1200) | 1254 (1700) |

| Metric<br>Coarse-Pitch<br>Thread—(OILED) | All torque values are in Foot-Pounds and Newton Meters (Nm). |           |           |  |  |
|------------------------------------------|--------------------------------------------------------------|-----------|-----------|--|--|
|                                          | DIN 912, DIN 931, DIN 933, etc...                            |           |           |  |  |
|                                          | 8.8                                                          | 10.9      | 12.9      |  |  |
| M6-1                                     | 6 (8)                                                        | 8 (11)    | 10 (14)   |  |  |
| M8-1.25                                  | 14 (19)                                                      | 20 (27)   | 24 (33)   |  |  |
| M10-1.5                                  | 28 (38)                                                      | 39 (53)   | 47 (63)   |  |  |
| M12-1.75                                 | 48 (65)                                                      | 68 (91)   | 82 (111)  |  |  |
| M14-2                                    | 77 (103)                                                     | 108 (146) | 131 (177) |  |  |
| M16-2                                    | 118 (160)                                                    | 166 (224) | 200 (271) |  |  |

| Metric<br>Fine-Pitch<br>Thread—(DRY) | All torque values are in Foot-Pounds and Newton Meters (Nm). |             |             |            |             |
|--------------------------------------|--------------------------------------------------------------|-------------|-------------|------------|-------------|
|                                      | DIN 912, DIN 931, DIN 933, etc...                            |             |             | DIN 7984   |             |
|                                      | 8.8                                                          | 10.9        | 12.9        | 8.8        | 10.9        |
| M8X1.0                               | 18 (25)                                                      | 27 (37)     | 32 (43)     | 16 (22)    | 24 (32)     |
| M10X1.0                              | 37 (50)                                                      | 55 (75)     | 65 (88)     | 32 (43)    | 48 (65)     |
| M10X1.25                             | 36 (49)                                                      | 52 (71)     | 61 (83)     | 31 (42)    | 46 (62)     |
| M12X1.25                             | 64 (87)                                                      | 96 (130)    | 111 (150)   | 55 (75)    | 81 (110)    |
| M12X1.5                              | 61 (83)                                                      | 92 (125)    | 107 (145)   | 53 (72)    | 77 (105)    |
| M14X1.5                              | 100 (135)                                                    | 148 (200)   | 173 (235)   | 89 (120)   | 129 (175)   |
| M16X1.5                              | 155 (210)                                                    | 229 (310)   | 266 (360)   | 133 (180)  | 195 (265)   |
| M18X1.5                              | 232 (315)                                                    | 332 (450)   | 391 (530)   | 199 (270)  | 284 (385)   |
| M20X1.5                              | 325 (440)                                                    | 465 (630)   | 538 (730)   | 277 (375)  | 391 (530)   |
| M22X1.5                              | 435 (590)                                                    | 620 (840)   | 723 (980)   | 369 (500)  | 524 (710)   |
| M24X2.0                              | 546 (740)                                                    | 789 (1070)  | 922 (1250)  | 465 (630)  | 664 (900)   |
| M27X2.0                              | 811 (1100)                                                   | 1143 (1550) | 1328 (1800) | 679 (920)  | 959 (1300)  |
| M30X2.0                              | 1106 (1500)                                                  | 1586 (2150) | 1844 (2500) | 959 (1300) | 1364 (1850) |



## REFERENCE

### SAE BOLT TORQUE GUIDE

Use these torque values when tightening hardware—excluding: lock nuts, thread-forming, self-tapping, and metal screws—unless otherwise specified.

**NOTE:** All torque values are in foot-pounds (lb.-ft.), except those marked with asterisks (\*), which are in inch-pounds (lb.-in.). To convert lb.-ft. to Newton Meter (Nm)—metric—torque values, multiply the lb.-ft. value by 1.355, or for inch pounds, multiply the lb.-in. value by 0.113.

| Unified<br>National<br>Thread | Grade 2  |       | Grade 5  |       | Grade 8  |       |
|-------------------------------|-------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------|-------|
|                               | Dry                                                                                       | Oiled | Dry                                                                                        | Oiled | Dry                                                                                         | Oiled |
| 8-32                          | 19*                                                                                       | 14*   | 30*                                                                                        | 22*   | 41*                                                                                         | 31*   |
| 8-36                          | 20*                                                                                       | 15*   | 31*                                                                                        | 23*   | 43*                                                                                         | 32*   |
| 10-24                         | 27*                                                                                       | 21*   | 43*                                                                                        | 32*   | 60*                                                                                         | 45*   |
| 10-32                         | 31*                                                                                       | 23*   | 49*                                                                                        | 36*   | 68*                                                                                         | 51*   |
| 1/4-20                        | 66*                                                                                       | 50*   | 9                                                                                          | 75*   | 12                                                                                          | 9     |
| 1/4-28                        | 76*                                                                                       | 56*   | 10                                                                                         | 86*   | 14                                                                                          | 10    |
| 5/16-18                       | 11                                                                                        | 9     | 17                                                                                         | 13    | 25                                                                                          | 18    |
| 5/16/24                       | 12                                                                                        | 9     | 19                                                                                         | 14    | 25                                                                                          | 20    |
| 3/8-16                        | 20                                                                                        | 15    | 30                                                                                         | 23    | 45                                                                                          | 35    |
| 3/8-24                        | 23                                                                                        | 17    | 35                                                                                         | 25    | 50                                                                                          | 35    |
| 7/16-14                       | 32                                                                                        | 24    | 50                                                                                         | 35    | 70                                                                                          | 55    |
| 7/16-20                       | 36                                                                                        | 27    | 55                                                                                         | 40    | 80                                                                                          | 60    |
| 1/2-13                        | 35                                                                                        | 35    | 75                                                                                         | 55    | 110                                                                                         | 80    |
| 1/2-20                        | 40                                                                                        | 40    | 90                                                                                         | 65    | 120                                                                                         | 90    |
| 9/16-12                       | 55                                                                                        | 55    | 110                                                                                        | 80    | 150                                                                                         | 110   |
| 9/16-18                       | 60                                                                                        | 60    | 120                                                                                        | 90    | 170                                                                                         | 130   |
| 5/8-11                        | 75                                                                                        | 75    | 150                                                                                        | 110   | 220                                                                                         | 170   |
| 5/8-18                        | 85                                                                                        | 85    | 180                                                                                        | 130   | 240                                                                                         | 180   |
| 3/4-10                        | 130                                                                                       | 130   | 260                                                                                        | 200   | 380                                                                                         | 280   |
| 3/4-16                        | 150                                                                                       | 150   | 300                                                                                        | 220   | 420                                                                                         | 320   |
| 7/8-9                         | 125                                                                                       | 125   | 430                                                                                        | 320   | 600                                                                                         | 460   |
| 7/8-14                        | 140                                                                                       | 140   | 470                                                                                        | 630   | 660                                                                                         | 500   |
| 1-8                           | 190                                                                                       | 190   | 640                                                                                        | 480   | 900                                                                                         | 680   |
| 1-14                          | 210                                                                                       | 210   | 710                                                                                        | 530   | 1000                                                                                        | 740   |

\* Value shown is in pound-force inch (lb.-in.)—inch pounds.



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