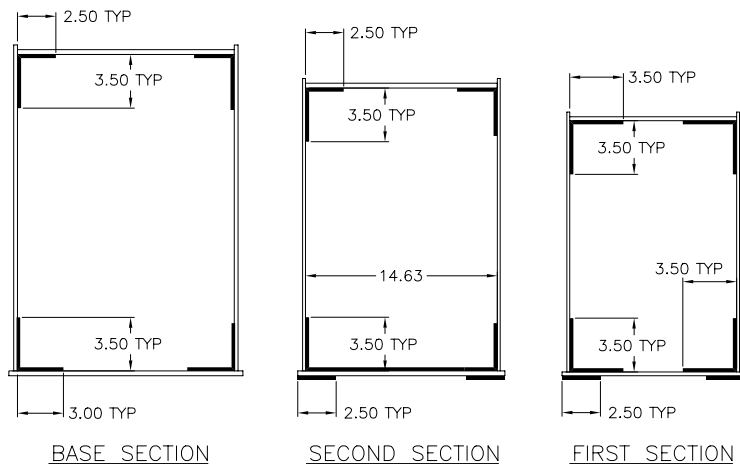




BILL OF MATERIAL				
ITEM NO.	PART NUMBER	QTY	DESCRIPTION	UNIT WEIGHT
111				
112	2029-061012	12	FH SCR $\emptyset$ 0.38 X 0.75	0.04
113	2029-061016	12	FH SCR $\emptyset$ 0.38 X 1.00	0.04
114				
115				
116				
117				
118	4000276-002	4	SLIDER PAD 11" 3-H	0.50
119	5001929-001	4	SHIM (.047 THK)	0.27
120	5001929-002	4	SHIM (.074 THK)	0.43
121	5001929-003	2	SHIM (.134 THK)	0.77

TOTAL BOOM ASSEMBLY WEIGHT-- 8873.0 LBS

LUBRICATION PATTERNS FOR BOOM SECTIONS
APPLY THIN FILM OF GREASE ACCORDINGLYTORQUE SPECIFICATIONS

NOTE:

TORQUE REQUIREMENTS FOR SLIDER PAD BOLTS.

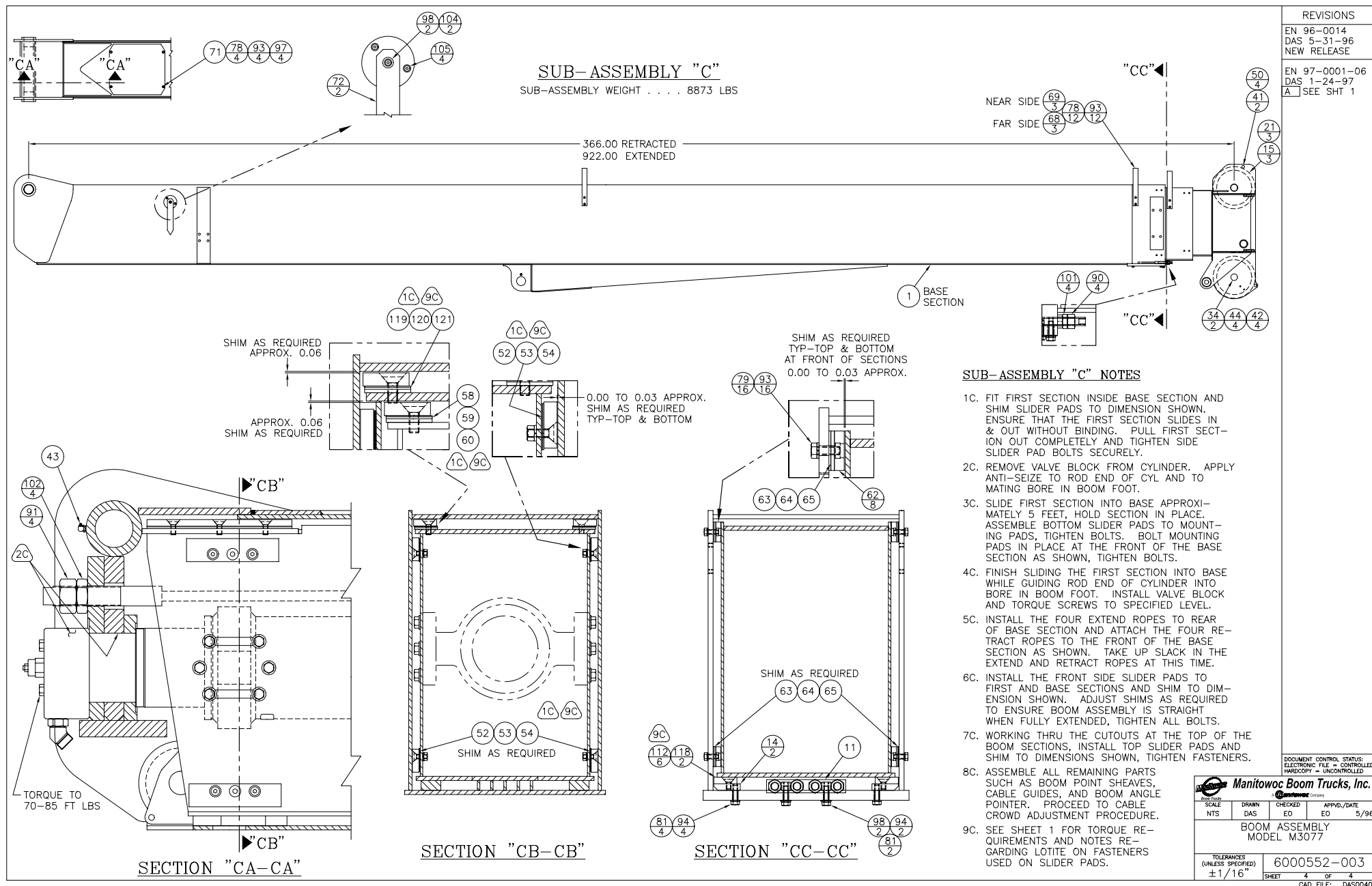
1. BOLT 5/16"-18UNC
TORQUE TO 13 FT. LBS / 156 IN. LBS
2. BOLT 3/8"-16UNC
TORQUE TO 23 FT. LBS / 276 IN. LBS
3. THREADLOCKER (LOCTITE) PRODUCT NO. 242
USE ONLY ON SCREWS WHICH DO NOT HAVE THE
LOCKING PATCH - SEE DRAWING 2029-TABULA

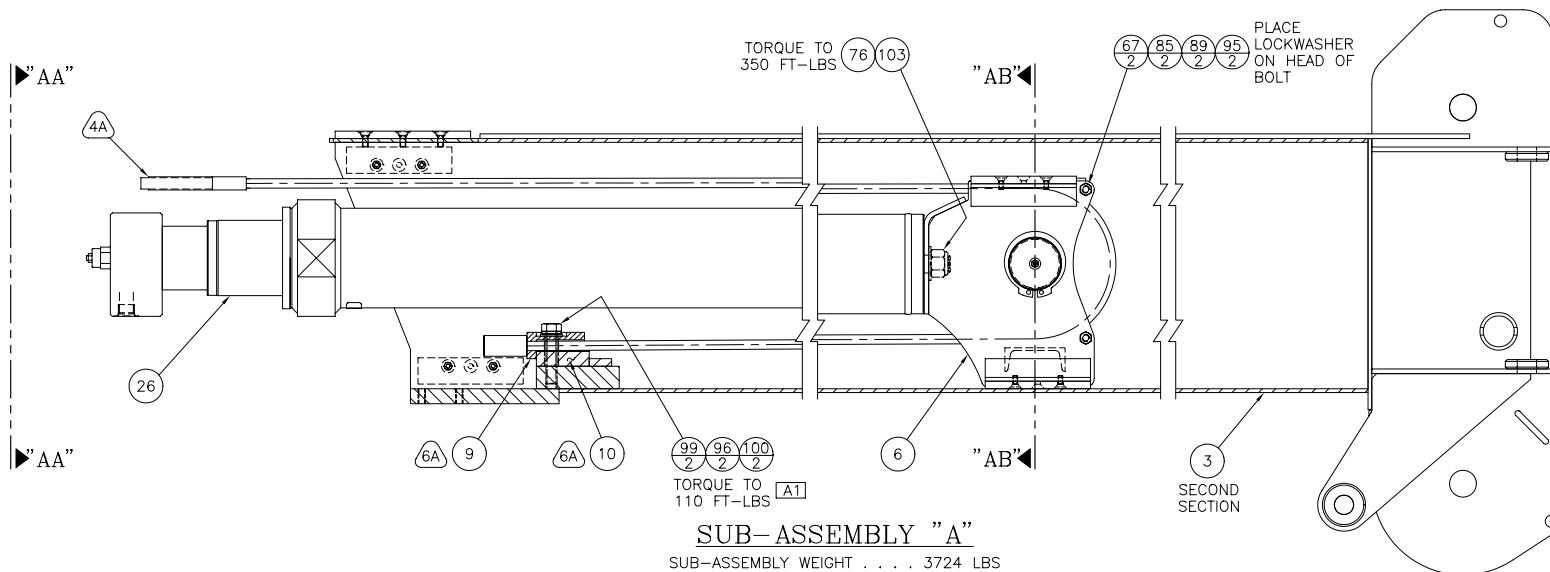
BILL OF MATERIAL				
ITEM NO.	PART NUMBER	QTY	DESCRIPTION	UNIT WEIGHT
52	5000304-004	16	SHIM (.047 THK)	0.15
53	5000304-005	12	SHIM (.074 THK)	0.24
54	5000304-006	12	SHIM (.134 THK)	0.43
55				
56				
57	4000276-003	4	SLIDER PAD 9" 3-HOL	0.35
58	5001059-004	3	SHIM (.047 THK)	0.20
59	5001059-005	3	SHIM (.074 THK)	0.32
60	5001059-006	2	SHIM (.134 THK)	0.57
61				
62	4000289-001	8	SLIDER PAD 5"	0.11
63	5000305-001	16	SHIM (.047 THK)	0.09
64	5000305-002	16	SHIM (.074 THK)	0.14
65	5000305-003	8	SHIM (.134 THK)	0.26
66				
67	5000370-003	2	SPACER PIPE	0.61
68	5000672-004	3	CABLE GUIDE F/ROLR	1.80
69	5000672-005	3	CABLE GUIDE	1.20
70				
71	5001098-002	1	COVER BASE SECT	5.40
72	5000804-001	2	POINTER	1.80
73				
74	2001-081020	12	BOLT $\emptyset$ 0.50 X 1.25	0.11
75	2003-080000	12	FLATWASHER $\emptyset$ 0.50	0.02
76	2003-180000	1	FLATWASHER $\emptyset$ 1.13	0.10
77	2004-051008	2	BOLT $\emptyset$ 0.31 X 0.50	0.02
78	2004-051010	16	BOLT $\emptyset$ 0.31 X 0.63	0.03
79	2004-051014	16	BOLT $\emptyset$ 0.31 X 0.88	0.03
80	2004-061014	4	BOLT $\emptyset$ 0.38 X 0.88	0.04
81	2004-061020	6	BOLT $\emptyset$ 0.38 X 1.25	0.05
82	2004-081024	4	BOLT $\emptyset$ 0.50 X 1.50	0.12
83				
84				
85	2004-081128	2	BOLT $\emptyset$ 0.50 X 8.00	0.51
86	2004-101032	2	BOLT $\emptyset$ 0.62 X 2.00	0.23
87				
88	2005-051000	16	HEX NUT $\emptyset$ 0.31 NC	0.01
89	2005-081000	2	HEX NUT $\emptyset$ 0.50 NC	0.05
90	2005-101000	6	HEX NUT $\emptyset$ 0.62 NC	0.10
91	2005-241000	4	HEX NUT $\emptyset$ 1.50 NC	0.94
92				
93	2006-050000	50	LOCKWASHER $\emptyset$ 0.31	0.01
94	2006-060000	10	LOCKWASHER $\emptyset$ 0.38	0.01
95	2006-080000	6	LOCKWASHER $\emptyset$ 0.50	0.01
96	2006-100000	4	LOCKWASHER $\emptyset$ 0.62	0.02
97	2008-050000	4	FLATWASHER $\emptyset$ 0.31	0.01
98	2008-060000	8	FLATWASHER $\emptyset$ 0.38	0.01
99	2001-101056	2	BOLT $\emptyset$ 0.62 X 3.50	0.36
100	2003-100000	4	FLATWASHER 0.62 HRD	0.03
101	2010-101000	4	JAM NUT $\emptyset$ 0.62 NC	0.07
102	2010-241000	4	JAM NUT $\emptyset$ 1.50 NC	0.61
103	2011-181000	1	LOCK NUT $\emptyset$ 1.13	0.90
104	2013-061006	2	SHLDR BOLT $\emptyset$ 0.38	0.05
105	2013-061012	4	SHLDR BOLT $\emptyset$ 0.38	0.06
106				
107				
108				
109	2029-051012	8	FH SCR $\emptyset$ 0.31 X 0.75	0.02
110	2029-051020	16	FH SCR $\emptyset$ 0.31 X 1.25	0.03

BILL OF MATERIAL					REVISIONS
ITEM NO.	PART NUMBER	QTY	DESCRIPTION	UNIT WEIGHT	
1	5001893-001	1	BASE SECTION WELD	2851.0	EN 96-0014
2	5001895-001	1	FIRST SECTION WELD	2118.0	DAS 5-31-96
3	5001899-002	1	SECOND SECT WELD	1791.0	NEW RELEASE
4					EN 97-0001-06
5					DAS 1-24-97
6	5001914-002	1	BRACKET EXT SHEAVE	54.20	A P/N WAS
7	5001036-001	1	BRACKET RET SHEAVE	12.70	2008-100000
8	5001037-001	1	BRACKET RET 2-ROPE	6.54	
9	5001918-001	1	BRACKET EXT 4-ROPE	8.46	
10	5001324-002	1	SPACER ROPE BKT	10.40	
11	5001040-001	1	BRACKET RET 4-ROPE	0.72	
12	5001067-001	2	MOUNTING PLATE	2.40	
13					
14	5001907-001	2	MOUNTING PAD	2.90	
15	6000111-004	3	SHEAVE ASSY BM HD	8.40	
16					
17	6000284-001	1	SHEAVE ASSY 4-RET	6.90	
18					
19	6000284-003	1	SHEAVE ASSY 4-EXT	47.70	
20					
21	4000132-005	3	INNER RACE $\emptyset$ 2.00"	0.90	
22	4000132-003	2	INNER RACE $\emptyset$ 1.68"	0.30	
23	4000132-004	2	INNER RACE $\emptyset$ 3.50"	2.60	
24	5001097-001	1	SPACER INNER RACE	0.26	
25	5001097-003	1	SPACER INNER RACE	1.88	
26	4900211-001	1	CYL TELESCOPE (WET)	1531.0	
27	5001047-001	2	BRACKET TELE CYL	6.30	
28	4000523-007	2	ROPE EXTEND $\emptyset$ 0.75"	60.87	
29	4000523-008	2	ROPE EXTEND $\emptyset$ 0.75"	60.87	
30					
31					
32	4000056-006	4	ROPE RETRACT $\emptyset$ 0.31"	6.69	
33					
34	5001913-001	2	PIN BM HD SHEAVE	4.70	
35	5001075-002	1	PIN CYL EXT SHEAVE	21.88	
36	5001072-001	1	PIN RET SHV 1ST SEC	3.50	
37					
38	5001074-001	1	PIN RET ROPE	0.81	
39					
40	5000353-002	2	PIN RET ROPE RETNR	0.20	
41	5000412-004	2	PIN BOOM ROPE RETN	0.65	
42	4000039-001	6	GREASE FITTING STR	0.01	
43	4000039-006	3	GREASE FITTING 90°	0.01	
44	4000037-200	4	SNAP RING	0.05	
45	2091-020350	2	SNAP RING $\emptyset$ 3.50	0.10	
46	5000008-006	1	KEEPER PLATE	0.12	
47					
48	2035-101020	2	COTTER PIN $\emptyset$ 0.15	0.02	
49	2035-081016	4	COTTER PIN $\emptyset$ 0.12	0.01	
50	2039-171148	4	HAIR PIN COTTER	0.03	
51	4000057-002	12	SLIDER PAD 7" 3-HOL	0.27	

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HARD COPY = UNCONTROLLED

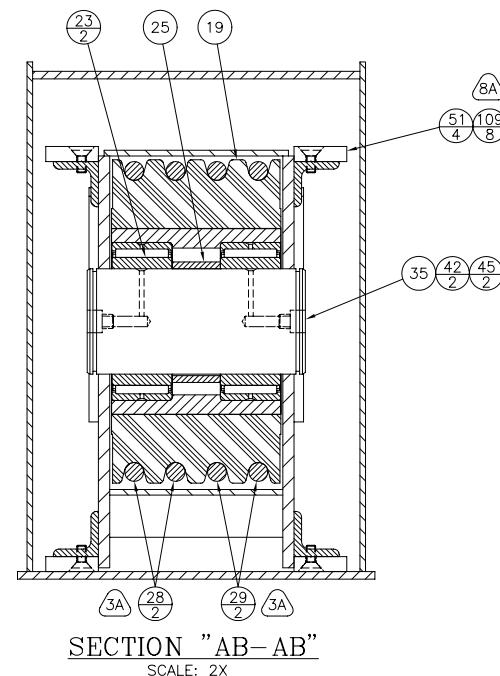
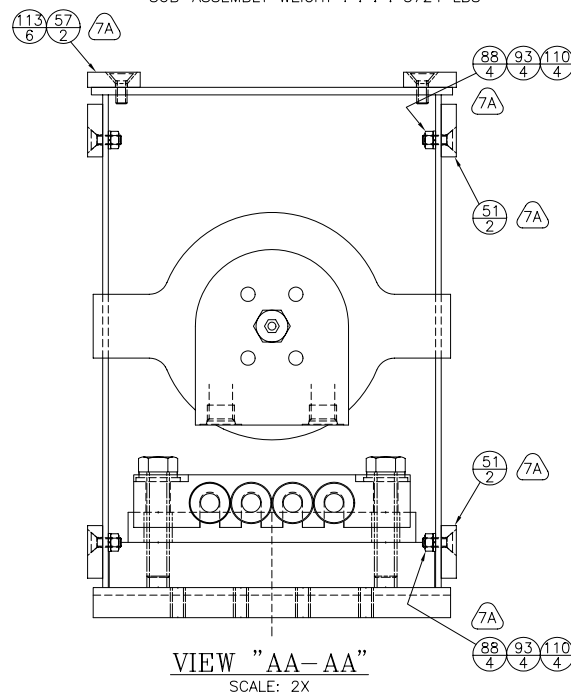
Manitowoc Boom Trucks, Inc.				
SCALE	DRAWN	CHECKED	APPROV./DATE	
NTS	DAS	EO	EO	5/96
BOOM ASSEMBLY MODEL M3077				
TOLERANCES (UNLESS SPECIFIED)		6000552-003		
$\pm 1/16"$		SHEET 1 OF 4		





SUB-ASSEMBLY "A" NOTES

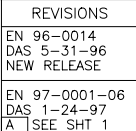
- 1A. INSPECT AND CLEAN ALL BOOM SECTIONS AND APPLY THIN FILM OF GREASE TO ALL INSIDE SURFACES WHERE SLIDER PADS WILL CONTACT. SEE SHT 1 OF 4.
- 2A. INSTALL EXTEND SHEAVE BRACKET TO THE END OF THE TELESCOPE CYLINDER HOLDING ITS POSITION RELATIVE TO THE TRUNNION ON THE OTHER END OF THE CYLINDER. TORQUE NUT TO THE SPECIFIED TORQUE LEVEL.
- 3A. INSTALL SHEAVE ASSEMBLY, EXTEND ROPES, PIPE SPACERS AND SLIDER PADS TO THE SHEAVE CASE AS SHOWN. MAKE CERTAIN TWO RIGHT LAY ROPES ARE TOGETHER ON ONE SIDE AND TO LEFT LAY ROPES ARE ON THE OTHER SIDE OF THE SHEAVE.
- 4A. USE SOME MEANS OF IDENTIFYING THE EXTEND ROPES TO AVOID CROSSING THEM DURING ASSEMBLY.
- 5A. SLIDE EXTEND SHEAVE BRACKET INTO THE SECOND SECTION.
- 6A. RAISE THE CYLINDER AS HIGH AS POSSIBLE AND INSTALL THE EXTEND ROPE BRACKET. MAKE CERTAIN THAT THE SPACER IS BOTTOMED OUT AGAINST THE SHEAR BAR, AND ALSO THAT THE BRACKET IS BOTTOMED OUT AGAINST THE SPACER SO THAT THE MOUNTING BOLTS DO NOT CARRY ANY SHEAR LOAD.
- 7A. INSTALL REAR SIDE AND TOP SLIDER PADS AS SHOWN. DO NOT TIGHTEN FASTENERS.
- 8A. SEE SHEET 1 FOR TORQUE REQUIREMENTS AND NOTES REGARDING LOCTITE ON FASTENERS USED ON SLIDER PADS.



REVISIONS	
EN 96-0014	DAS 5-31-96
NEW RELEASE	
EN 97-0001-06	DAS 1-24-97
A1	ADDED

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ELECTRONIC FILE = CONTROLLED
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Manitowoc Boom Trucks, Inc.				
SCALE	DRAWN	CHECKED	APPROV./DATE	
NTS	DAS	EO	EO	5/96
BOOM ASSEMBLY MODEL M3077				
TOLERANCES (UNLESS SPECIFIED)		6000552-003		
±1/16"		SHEET	2	OF 4
CAD FILE: DAS0038A				



DOCUMENT CONTROL STATUS:
ELECTRONIC FILE = CONTROLLED
HARDCOPY = UNCONTROLLED

 Manitowoc Boom Trucks, Inc.

SCALE NTS		DRAWN DAS	CHECKED EO	APPVD./DATE EO 5/96
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BOOM ASSEMBLY
MODEL M3077

TOLERANCES (UNLESS SPECIFIED)	6000552-003
$\pm 1/16"$	SHEET 3 OF 4

CAD FILE: DAS0039A