

BILL OF MATERIAL				
ITEM NO.	PART NUMBER	QTY	DESCRIPTION	UNIT WEIGHT
1	5001893-006	1	BOOM BASE SECTION	2860.0
2	5001895-002	1	BOOM FIRST SECTION	2394.7
3	5001899-004	1	BOOM SECOND SECTION	1598.9
4	5002713-001	1	BOOM THIRD SECTION	1229.6
5	5001903-002	1	BOOM CROWD SECTION	603.8
6	5002721-001	1	BOOM FOURTH SECTION	981.0
7	5001036-001	1	RETRACT SHEAVE BRACKET	8.55
8	5001037-001	1	RETRACT ROPE ANC. BRKT	6.54
9	5001918-002	1	EXT. ROPE BRKT 4-ROPE	10.00
10	5001916-002	1	EXT. ROPE BRKT 2-ROPE	10.75
11	5001040-001	1	RET. ROPE BRKT 4-ROPE	0.72
12	5001041-001	1	PAD MOUNTING - LH.	2.65
13	5001041-002	1	PAD MOUNTING - RH.	2.65
14	5001907-002	1	BRACKET LH	17.55
15	6000111-005	5	HEAD SHV. SUB-ASSY	8.40
16	6000112-007	4	EXT. SHV. SUB-ASSY	16.63
17	6000284-001	1	RET. SHV S/ASSY 4 ROPE	6.80
18	6000113-002	2	RET. SHV S/ASSY 2 ROPE	1.24
19	6000284-006	1	EXT. SHV S/ASSY 4-ROPE	40.42
20	4000132-001	2	BEARING INN. RACE 1.25"	0.20
21	4000132-005	9	BEARING INN. RACE	0.90
22	4000132-003	4	BEARING INN. RACE 1.69"	0.30
23	4000132-004	2	BEARING INN. RACE 2.44"	2.60
24	5001097-001	1	SPACER, INN. RACE 1.69"	0.26
25	5001097-003	1	SPACER, INN. RACE	1.88
26	4900211-002	1	CYLINDER-TEL. (WET)	1546.0
27	5001047-001	2	TEL. CYL. BRACKET	6.30
28	4000523-007	2	.75 EXT. ROPE (RT LAY)	60.87
29	4000523-008	2	.75 EXT. ROPE (LT LAY)	60.87
30	4000523-009	1	.75 EXT. ROPE (RT LAY)	63.81
31	4000523-010	1	.75 EXT. ROPE (LT LAY)	63.81
32	4000056-012	4	.31 RETRACT ROPE	6.65
33	4000327-009	2	.31 RETRACT ROPE	5.88
34	5001913-001	1	PIN (SHEAVE)	4.70
35	5001075-002	1	PIN EXT. SHEAVE 4-ROPE	21.88
36	5001072-001	1	PIN RET. SHEAVE 4-ROPE	3.50
37	5001073-004	1	PIN RET. SHEAVE 2-ROPE	4.17
38	5001074-001	1	PIN RET. ANC. - 4-ROPE	0.70
39	5001076-001	1	PIN CROWD SECTION PIVOT	4.04
40	5000353-002	2	PIN RET. ROPE RETAINER	0.20
41	2085-108056	3	HITCH PIN	2.16
42	4000039-001	11	GREASE FITTING (.12 STR.)	0.01
43	4000039-006	2	GREASE FITTING (.12 90°)	0.01
44	4000037-200	10	2.00 SNAP RING	0.05
45	2091-020350	2	3.50 SNAP RING	0.10
46	5000008-006	1	KEEPER PLATE	0.12
47	4000080-020	4	STEEL SET COLLAR	0.38
48	2035-101020	2	COTTER PIN	0.02
49	2035-081016	4	COTTER PIN	0.01
50	5001913-003	2	PIN, SHEAVE HEAD	6.20
51	4000059-001	12	SLIDER PAD REAR SIDE	0.28
52	5000304-004	36	SHIM (0.0478 THICK)	0.15
53	5000304-005	36	SHIM (0.0747 THICK)	0.24
54	5000304-006	18	SHIM (0.1345 THICK)	0.43
55	4000064-001	1	SLIDER PAD	0.22
56	4000082-001	2	SLIDER PAD	0.12
57	4000276-004	6	SLIDER PAD TEFLON PLUG	0.35
58	5001059-004	4	SHIM (0.0478 THICK)	0.20
59	5001059-005	4	SHIM (0.0747 THICK)	0.32
60	5001059-006	2	SHIM (0.1345 THICK)	0.57

BILL OF MATERIAL				
ITEM NO.	PART NUMBER	QTY	DESCRIPTION	UNIT WEIGHT
61	4900325-001	1	MANIFOLD BLOCK	2.00
62	4000289-001	20	SLIDER PAD	0.11
63	5000305-004	32	SHIM (0.0478 THICK)	0.08
64	5000305-005	32	SHIM (0.0747 THICK)	0.13
65	5000305-006	16	SHIM (0.1345 THICK)	0.23
66	5001046-002	1	PIPE SPACER (CRD SECT.)	1.11
67	5000370-003	2	PIPE SPACER (CYL BRKT)	0.61
68	5000672-004	5	CABLE GUIDE (RBKT)	1.68
69	5000672-005	5	CABLE GUIDE	1.16
70	4000057-002	8	SLIDER PAD	0.27
71	5001098-003	1	COVER, TOP FWD	5.72
72	5000804-001	2	POINTER	1.80
73	2085-108064	1	HITCH PIN, DEAD END	2.38
74	2001-081020	12	.5 D.GR.8 BOLT 1.25 LG	0.11
75	2003-080000	22	.50 HARD FLATWASHER	0.02
76	2003-180000	1	1.125 HARD FLATWASHER	0.10
77	2004-051008	10	.31 D. GR5 BOLT .50 LG	0.21
78	2004-051010	50	.31 D. GR.5 BOLT .62 LG	0.03
79	2004-051014	28	.31 D. GR.5 BOLT .88 LG	0.03
80	2004-061014	12	.38 D. GR.5 BOLT .88 LG	0.04
81	2004-061020	8	.38 D.GR.5 BOLT 1.25LG	0.05
82	2004-081024	8	.50 D.GR.5 BOLT 1.50 LG	0.12
83	2004-101028	2	.62 D.GR.5 BOLT 1.75 LG	0.20
84	2004-081080	1	.50 D.GR.5 BOLT 5.00 LG	0.31
85	2004-081128	2	.50 D.GR.5 BOLT 8.00 LG	0.51
86	2004-101032	2	.62 D.GR.5 BOLT 2.00 LG	0.23
87	2005-041000	4	.25 HEX NUT	0.01
88	5001907-003	1	BRACKET RH	17.55
89	2005-081000	3	.50 HEX NUT	0.05
90	2005-101000	8	.62 HEX NUT	0.10
91	2005-241000	8	1.50 HEX NUT	0.94
92	2006-040000	4	.25 LOCKWASHER	0.01
93	2006-050000	114	.31 LOCKWASHER	0.01
94	2006-060000	38	.37 LOCKWASHER	0.01
95	2006-080000	13	.50 LOCKWASHER	0.01
96	2006-100000	6	.62 LOCKWASHER	0.02
97	2008-050000	30	.31 SAE FLATWASHER	0.01
98	2008-060000	22	.37 SAE FLATWASHER	0.01
99	5001914-003	1	EXTEND SHEAVE BRACKET	37.67
100	2003-100000	6	.62 HARD FLATWASHER	0.03
101	2010-101000	6	.62 HEX JAM NUT	0.07
102	2010-241000	10	1.50 HEX JAM NUT	0.61
103	2011-181000	1	1.125 ELAS LOCK NUT	0.90
104	2013-061006	2	.38 X.38 LG SHLDR BOLT	0.05
105	2013-061012	4	.38 X.75 LG SHLDR BOLT	0.06
106	2013-061020	2	.38X1.25 LG SHLDR BOLT	0.12
107	2029-041012	4	.25D FLTHD SHCS .75 LG	0.01
108	2029-051008	4	.31D FLTHD SHCS .50 LG	0.02
109	2029-051012	8	.31D FLTHD SHCS .75 LG	0.02
110	2004-101020	2	.62 D.GR.5 BOLT 1.25 LG	0.17
111	2005-051000	2	.31 HEX NUT	0.01
112	2029-061012	12	.38D FLTHD SHCS .75 LG	0.04
113	2029-061016	24	.38D FLTHD SHCS 1.00 LG	0.04
114	2029-051016	20	.31D FLTHD SHCS 1.00 LG	0.03
115	2008-200000	2	1.25 SAE FLATWASHER	0.16
116	5001248-001	2	PIN, GROOVED	0.04
117	2091-020043	4	RETAINING RING	0.01
118	4000276-005	6	SLIDER PAD TEFLON PLUG	0.50
119	5001929-001	8	SHIM (0.0478 THK)	0.27
120	5001929-002	8	SHIM (0.0747 THK)	0.43

BILL OF MATERIAL					
ITEM NO.	PART NUMBER	QTY	DESCRIPTION	UNIT WEIGHT	
121	5001929-003	4	SHIM (0.1345 THK)	0.77	
122	6000113-004	2	RET SHV SUB-ASSY	2.65	
123	4000523-011	2	.75 EXT ROPE (RT LAY)	39.06	
D3	124	5001913-007	2	PIN, EXT. SHEAVE	3.06
A	125	4000059-002	2	SLIDER PAD TEFLON PLUG	0.28
A1	126	2005-142000	4	0.87 NF HEX NUT	0.19
127	30202-08-08	4	ADP STR ORS/SAE	0.14	
128	30205-08-08	4	ADP 90, ORS/SAE	0.27	
129	4000726-001	2	0.43 RET ROPE FS	25.53	
130	5001896-023	2	SHEAVE PLATE	9.42	
131	4900324-001	1	BONDED HOSE 0.50	2.50	
132	5000305-100	4	SPACER	0.75	
133	5001067-005	2	PAD MTG PLATE	2.08	
134	5001073-006	2	PIN, RET. SHEAVE	1.93	
135	5001098-004	1	COVER, TOP REAR	2.04	
D2	136	5001098-006	1	COVER, REAR	9.90
137	5002718-004	2	ANCHOR, RET. ROPE	1.15	
138	5002718-002	2	BACK-UP PLATE	0.28	
139	5002718-005	2	RETAINER, RET. ROPE	1.68	
140	5002725-001	1	ROPE KEEPER	8.95	
141	5002725-002	1	BRACKET ROPE RETAINER	3.53	
142	2004-061024	8	.38 D.GR.5 BOLT 1.50 LG	0.06	
143	2004-061032	2	.38 D.GR.5 BOLT 2.00 LG	0.07	
144	2004-061016	6	.38 D.GR.5 BOLT 1.00 LG	0.04	
145	2004-051024	8	.31 D.GR.5 BOLT 1.50 LG	0.04	
146	2004-081020	4	.50 D.GR.5 BOLT 1.25 LG	0.10	
147	2006-240000	2	1.50 LOCKWASHER	0.28	
148	2003-240000	2	1.50 FLATWASHER HRD	0.24	
149	2004-051012	8	.31 D.GR.5 BOLT .75 LG	0.02	
150	5002779-001	4	SHIM, EXT SHEAVE 18 GA	-	
151	5002779-002	4	SHIM, EXT SHEAVE 14 GA	-	
152	5002779-003	4	SHIM, EXT SHEAVE 10 GA	-	
C7	153	4000057-003	2	SLIDER PAD TEFLON PLUG	0.27
D1	154	30018-00-02	2	ADAPTOR, COUPLING	-
D1	155	30148-02024	2	PIPE NIPPLE .125 X 6"	-
D1	156	30009-02-02	2	ADP., 90 DEG MF NPT	-
D1	157	2004-061012	2	.38 D.GR.5 BOLT 0.75 LG	-
D1	158	5003129-001	2	RETAINER, SHEAVE PIN	0.43
D1	159	4000939-001	1	DECAL, WARNING BEARING	-
D1	160	4000940-001	2	DECAL, GREASE POINT	-

REVISIONS			
EN 99-0021-1	JAR 12/99	NEW RELEASE	
EN 00-0003-03	DAS 3/00	A DELETED (2)	
P/N 2010-142000	A1 QTY WAS 2	SEE ALSO SHT 6	
EN 01-0002-03	EO 02-01	B ADDED EXT SHEAVE SHIMS	
EN 03-00014-3	DM 11/03	C1 DEL GREASE FROM OUTSIDE	
4000276-003	C2 P/N WAS		
4000276-002	C3 P/N WAS		
4000276-002	C4 ADD ITEM 125		
	C5 ITEM 70 WAS QTY 10		
	C6 ITEM 51 WAS QTY 14		
	C7 ADD ITEM 153	SEE SHEET 2	
EN 09-0004-05	EV 5/09	D1 ADD	
30018-00-02	30148-02024		
3009-02-02	2004-061012		
5003129-001	4000939-001		
4000940-001	D2 BUMPED		
5001098-006 (B)	D3 5001913-007		
5001913-004	D4 2006-060000	WAS (36)	

TORQUE REQUIREMENTS FOR SLIDER PAD BOLTS.

- BOLT 0.31 - 18 UNC, TORQUE TO 13 FT-LBS OR 156 IN-LBS
- BOLT 0.38 - 16 UNC, TORQUE TO 23 FT-LBS OR 276 IN-LBS
- THREADLOCKER (LOCTITE) PRODUCT NO. 242 USE ON BOLTS WHICH DO NOT HAVE LOCKING PATCH REFERENCE DWG 2029-TABULA

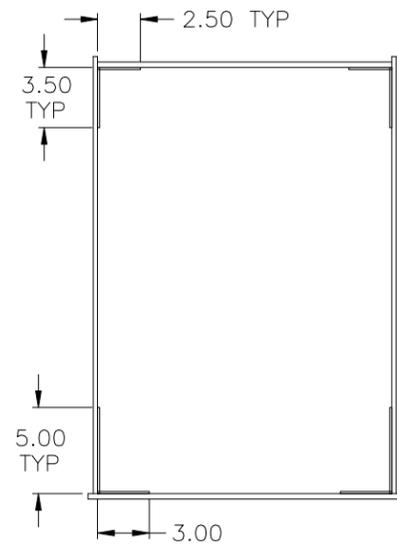
DOCUMENT CONTROL STATUS:
ELECTRONIC FILE = CONTROLLED
HARDCOPY = UNCONTROLLED

Manitex			
SCALE NONE	DRAWN TLE	CHECKED JAR	APPVD./DATE DM 12/99
BOOM ASSEMBLY 124 FT			
TOTAL WEIGHT: 12317 LBS.		6000552-009	
TOLERANCES (UNLESS SPECIFIED) ±1/16"		SHEET 1 OF 7	

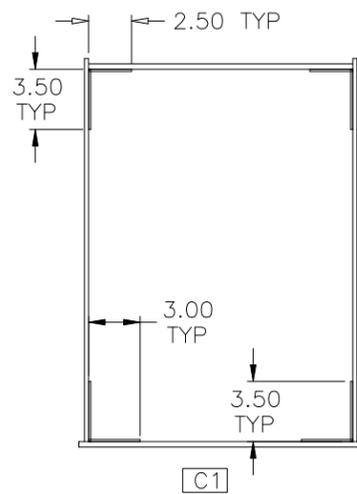
REVISIONS

EN 99-0021-1	JAR 12/99	NEW RELEASE
EN 00-0003-03	DAS 3/00	
A	SEE SHT. 1	
EN 01-0002-03	EO 02-01	
B	SEE SHT. 1	
EN 03-00014-3	DM 11/03	
C1	SEE SHT. 1	
EN 09-0004-05	EV 5/09	
D	SEE SHT. 1	

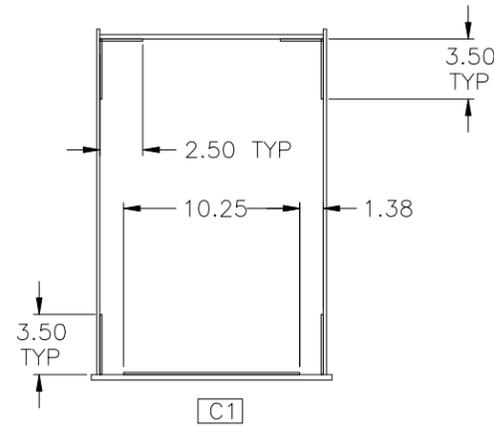
LUBRICATION PATTERNS
 APPLY THIN FILM OF GREASE TO
 BOOM SECTIONS ACCORDINGLY
 (SCALE 0.75X)



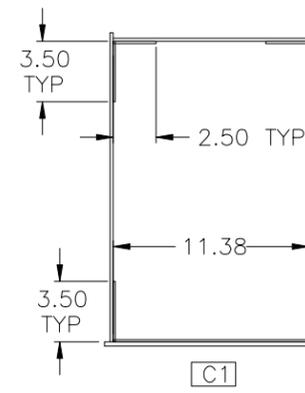
BASE SECTION



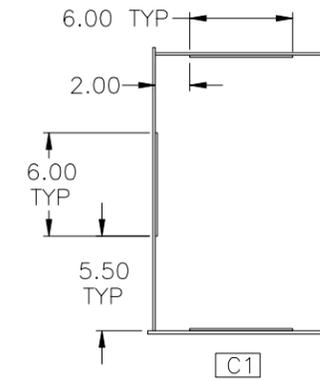
FIRST SECTION



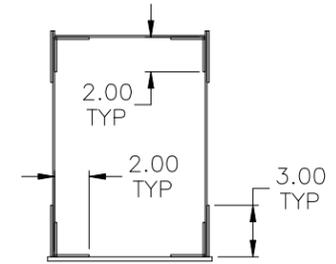
SECOND SECTION



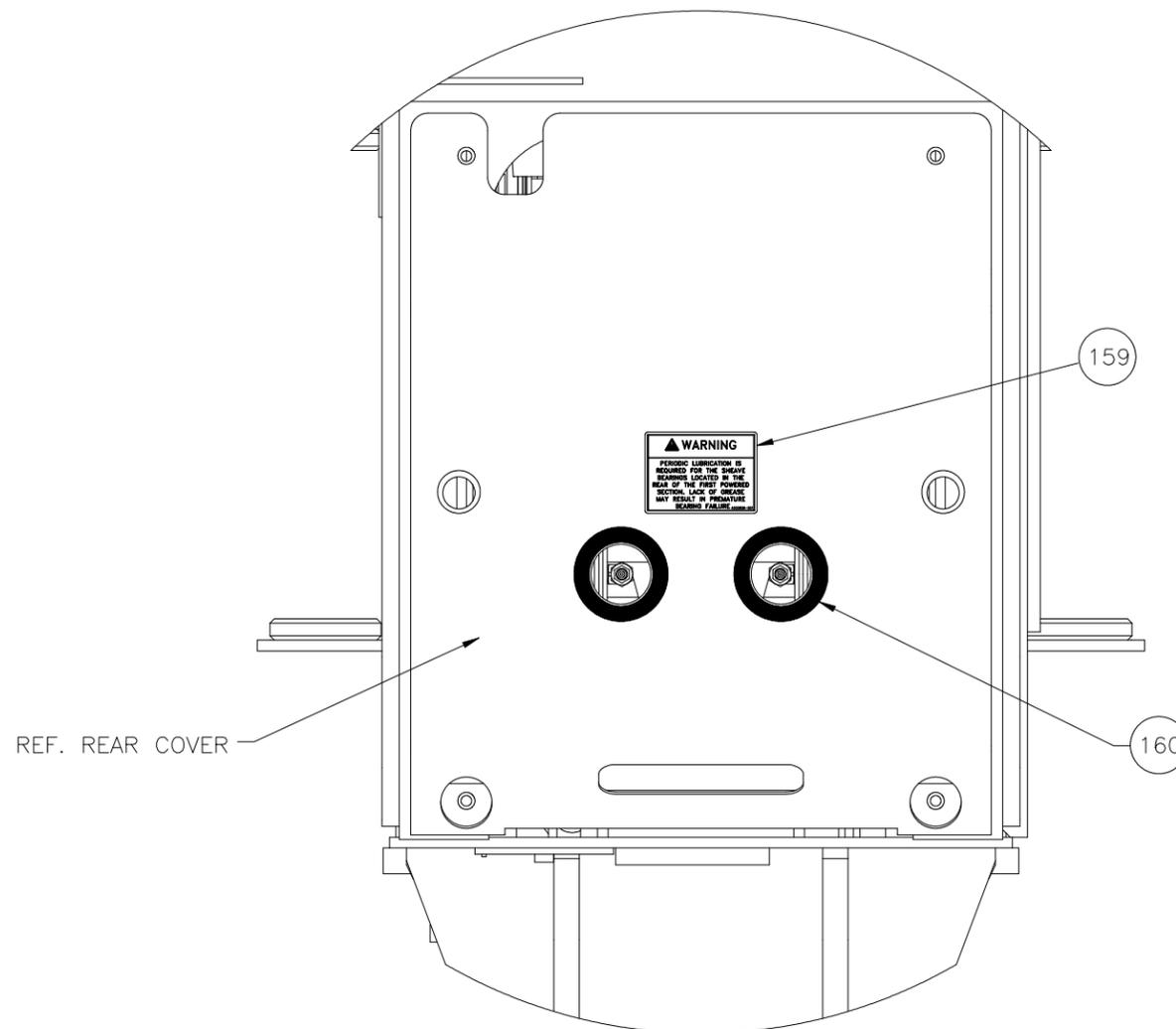
THIRD SECTION



FOURTH SECTION



CROWD SECTION



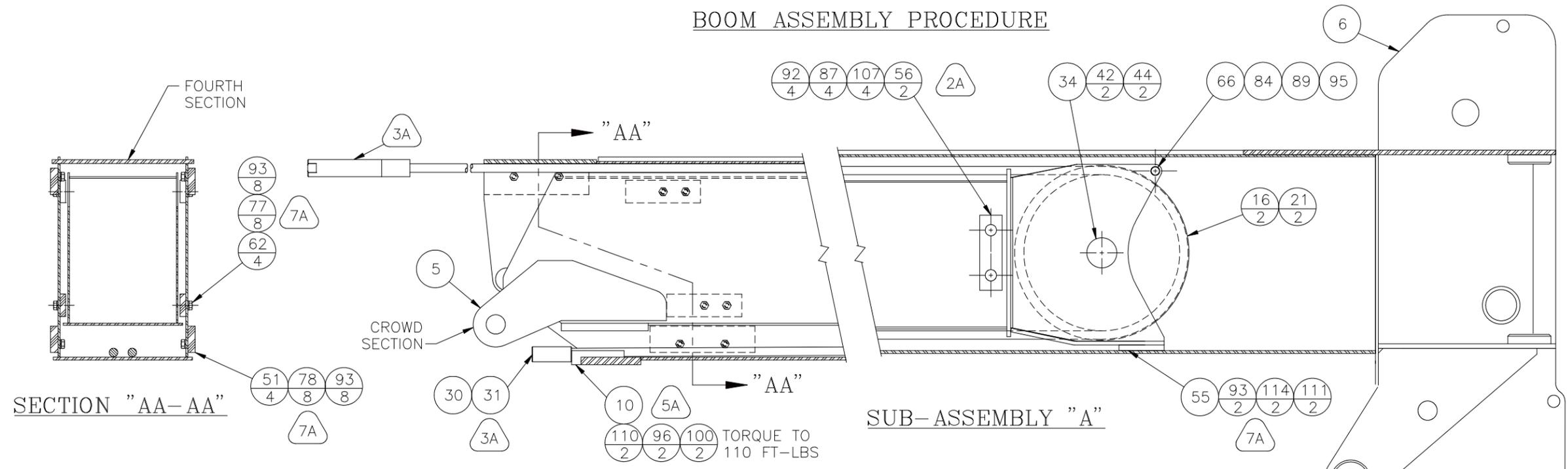
WARNING
 PERIODIC LUBRICATION IS
 REQUIRED FOR THE SHEAVE
 BEARINGS LOCATED IN THE
 REAR OF THE FIRST FOURTH
 SECTION. LACK OF LUBRICANT
 MAY RESULT IN PREMATURE
 WEAR AND FAILURE.

DOCUMENT CONTROL STATUS:
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 HARDCOPY = UNCONTROLLED

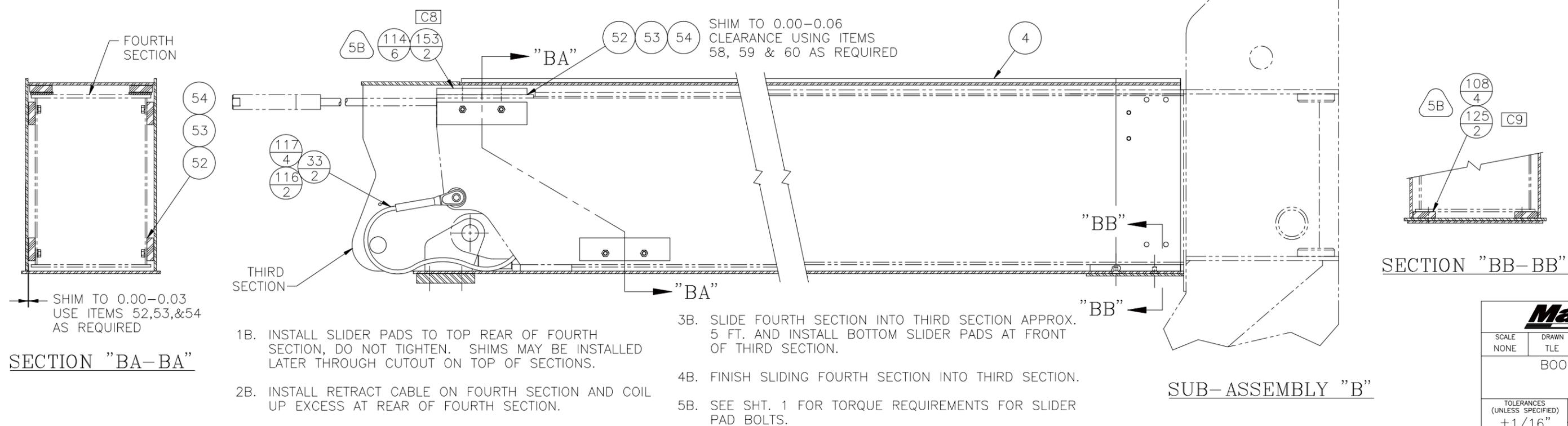
Manitex			
SCALE NONE	DRAWN TLE	CHECKED JAR	APPVD./DATE DM 12/99
BOOM ASSEMBLY 124 FT			
TOLERANCES (UNLESS SPECIFIED) ±1/16"		6000552-009	
SHEET		2 OF 7	

BOOM ASSEMBLY PROCEDURE

REVISIONS	
EN 99-0021-1	JAR 12/99
NEW RELEASE	
EN 00-0003-03	DAS 3/00
A	SEE SHT 1&6
EN 01-0002-03	EO 02-01
B	SEE SHT 1&5
EN 03-0014-3	DM 11/03
C8	ITEM WAS 70
C9	ITEM WAS 51
SEE SHEET 1	
EN 09-0004-05	EV 5/09
D	SEE SHT. 1



- 1A. INSPECT AND CLEAN ALL BOOM SECTIONS AND APPLY THIN FILM OF GREASE TO ALL INSIDE SURFACES WHERE SLIDER PADS WILL CONTACT. SEE SHEET 1.
- 2A. ASSEMBLE SHEAVES, SLIDER PADS, EXTEND CABLES AND PIPE SPACERS TO THE CROWD SECTION AS SHOWN. NOTE THAT SIDE SLIDER PADS MUST BE INSTALLED BEFORE SHEAVE ASSEMBLIES.
- 3A. USE SOME MEANS OF IDENTIFYING CABLES TO AVOID CROSSING OF EXTEND CABLES DURING THE ASSEMBLY PROCESS. NOTE THAT ONE ROPE IS LEFT LAY AND ONE ROPE IS RIGHT LAY.
- 4A.. DETERMINE QUANTITY OF SHIMS REQUIRED FOR FOURTH SECTION OUTER REAR SIDE SLIDER PADS AND INSTALL, SEE NOTE 7A.
- 5A. INSTALL THE INNER SIDE SLIDER PADS BETWEEN THE FOURTH AND CROWD SECTIONS, SEE NOTE 7A.
- 6A. SLIDE CROWD SECTION INTO FOURTH SECTION AS FAR AS NECESSARY TO INSTALL THE EXTEND ROPE BRACKET. MAKE SURE BRACKET IS BOTTOMED OUT ON BOTTOM PLATE OF FOURTH SECTION SO THAT THE MOUNTING BOLTS DO NOT CARRY ANY SHEAR LOAD. TORQUE BOLTS TO VALUE SHOWN ABOVE.
- 7A. SEE SHEET 1 FOR TORQUE REQUIREMENTS FOR SLIDER PAD BOLTS.



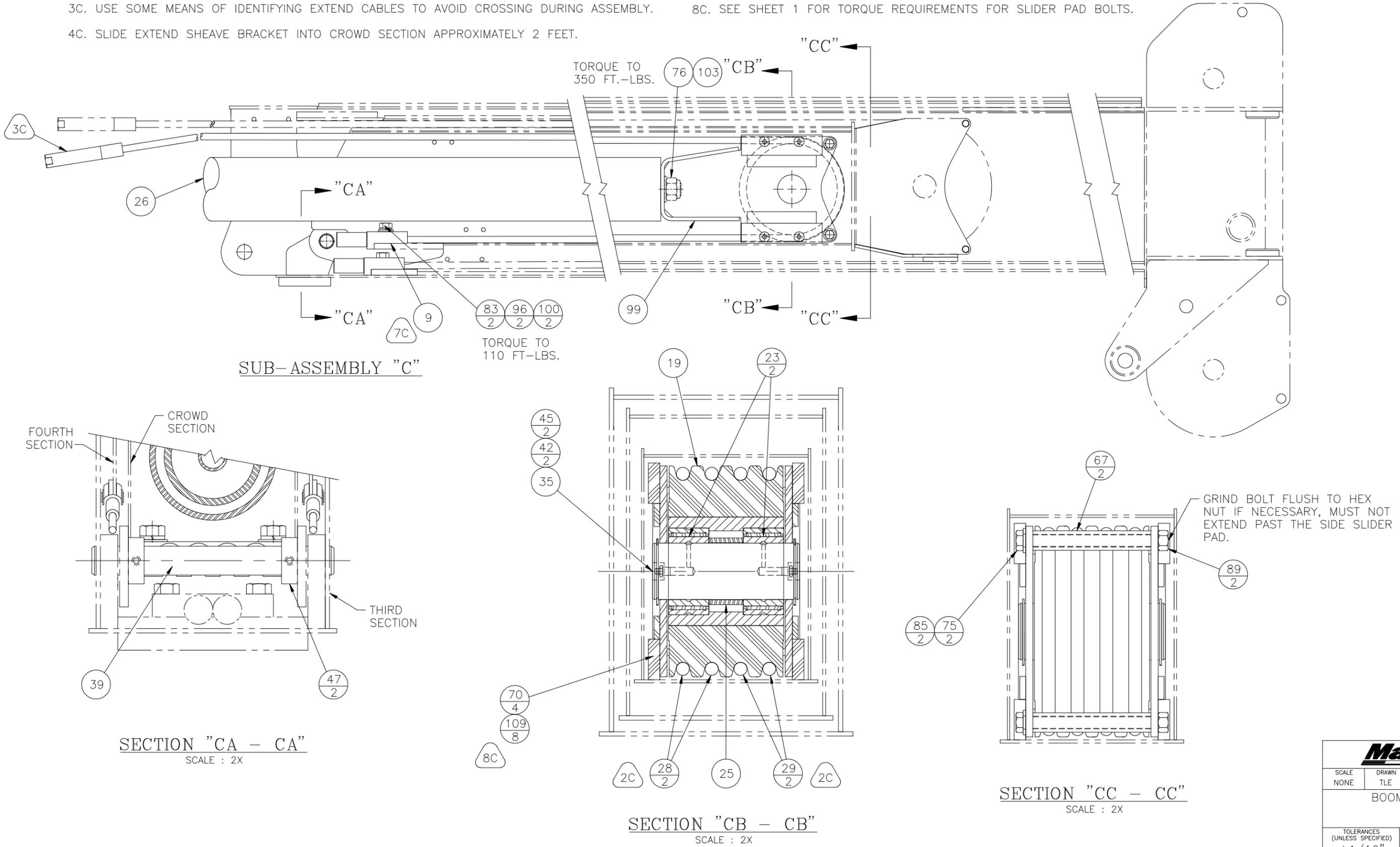
- 1B. INSTALL SLIDER PADS TO TOP REAR OF FOURTH SECTION, DO NOT TIGHTEN. SHIMS MAY BE INSTALLED LATER THROUGH CUTOUT ON TOP OF SECTIONS.
- 2B. INSTALL RETRACT CABLE ON FOURTH SECTION AND COIL UP EXCESS AT REAR OF FOURTH SECTION.
- 3B. SLIDE FOURTH SECTION INTO THIRD SECTION APPROX. 5 FT. AND INSTALL BOTTOM SLIDER PADS AT FRONT OF THIRD SECTION.
- 4B. FINISH SLIDING FOURTH SECTION INTO THIRD SECTION.
- 5B. SEE SHT. 1 FOR TORQUE REQUIREMENTS FOR SLIDER PAD BOLTS.

Manitex			
SCALE NONE	DRAWN TLE	CHECKED JAR	APPVD./DATE DM 12/99
BOOM ASSEMBLY 124 FT			
TOLERANCES (UNLESS SPECIFIED) ±1/16"		6000552-009	
SHEET		3	OF 7

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- 1C. 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.
- 2C. INSTALL SHEAVE ASSEMBLY, EXTEND ROPES, PIPE SPACERS, AND SLIDER PADS TO THE SHEAVE CASE AS SHOWN. MAKE SURE TWO RIGHT LAY ROPES ARE ON ONE SIDE AND TWO LEFT LAY ROPES ARE ON THE OTHER SIDE OF THE SHEAVE.
- 3C. USE SOME MEANS OF IDENTIFYING EXTEND CABLES TO AVOID CROSSING DURING ASSEMBLY.
- 4C. SLIDE EXTEND SHEAVE BRACKET INTO CROWD SECTION APPROXIMATELY 2 FEET.

- 5C. RAISE CROWD SECTION AND PIN TO SECOND SECTION USING THE PIN AND SET COLLARS AS SHOWN.
- 6C. FINISH SLIDING CYLINDER INTO CROWD SECTION AS SHOWN.
- 7C. RAISE CYLINDER AS HIGH AS POSSIBLE AND INSTALL EXTEND ROPE BRACKET. MAKE SURE BRACKET IS BOTTOMED OUT ON BOTTOM OF CROWD SECTION SO THAT THE MOUNTING BOLTS DO NOT CARRY ANY SHEAR LOAD.
- 8C. SEE SHEET 1 FOR TORQUE REQUIREMENTS FOR SLIDER PAD BOLTS.



REVISIONS	
EN 99-0021-1	JAR 12/99
NEW RELEASE	
EN 00-0003-03	DAS 3/00
A	SEE SHT 1&6
EN 01-0002-03	EO 02-01
B	SEE SHT 1&5
EN 03-0014-3	DM 11/03
C	SEE SHT 1&2
EN 09-0004-05	EV 5/09
D	SEE SHT. 1

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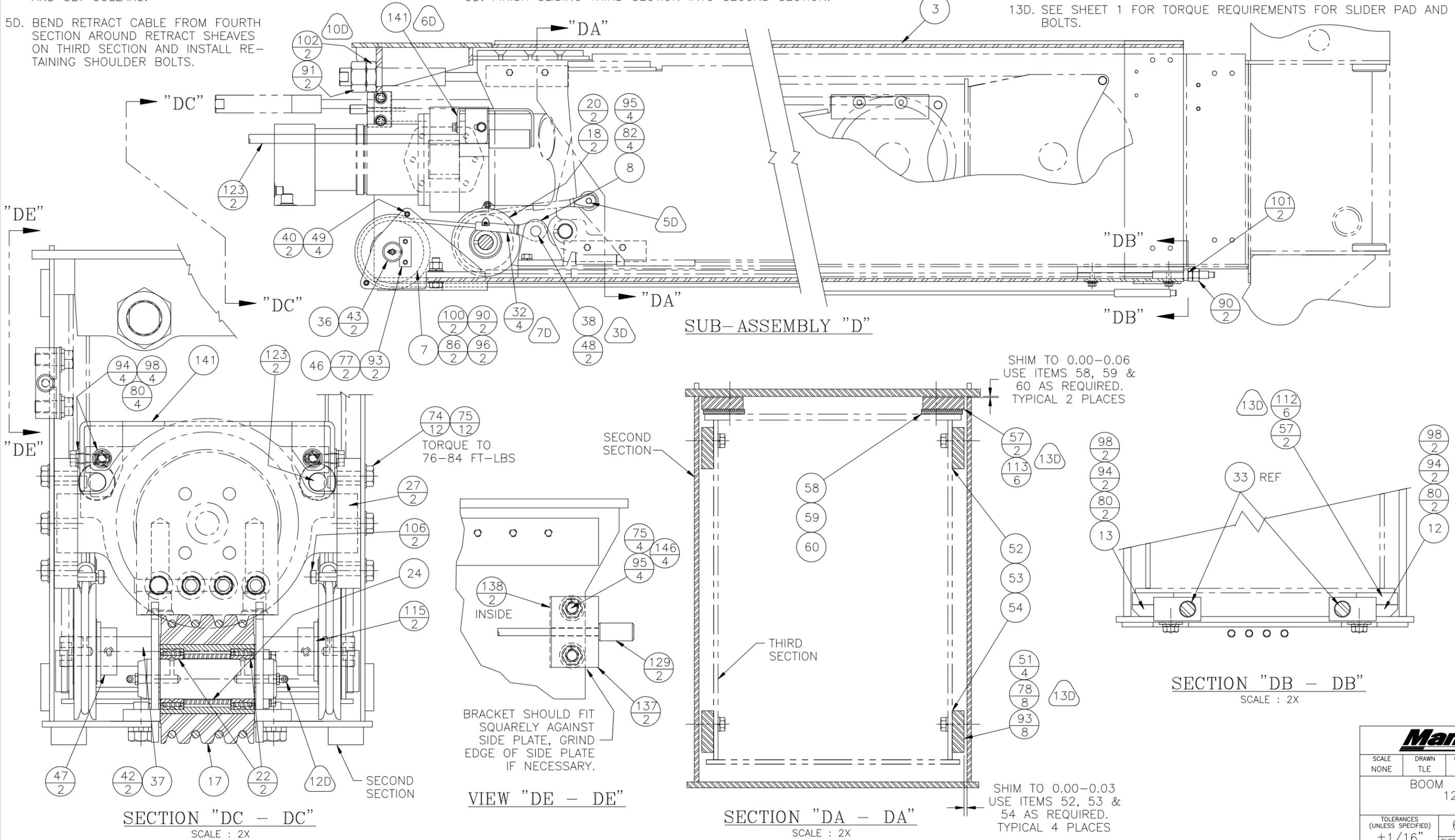
Manitex			
SCALE NONE	DRAWN TLE	CHECKED JAR	APPVD./DATE DM 12/99
BOOM ASSEMBLY 124 FT			
TOLERANCES (UNLESS SPECIFIED) ±1/16"		6000552-009	
SHEET		4	OF 7

REVISIONS	
EN 99-0021-1	JAR 12/99
NEW RELEASE	
EN 00-0003-03	DAS 3/00
A	SEE SHT 1&6
EN 01-0002-03	EO 02-01
B	SEE SHT 1&5
EN 03-0014-3	DM 11/03
C	SEE SHT 1&2
EN 09-0004-05	EV 5/09
D	SEE SHT. 1

- 1D. INSTALL SLIDER PADS TO TOP REAR OF THIRD SECTION, DO NOT TIGHTEN. SHIMS MAY BE INSTALLED LATER THROUGH THE CUTOUTS ON TOP OF THE SECTIONS.
- 2D. DETERMINE QUANTITY OF SHIMS REQUIRED FOR THIRD SECTION OUTER REAR SIDE SLIDER PADS AND INSTALL, SEE NOTE 13D.
- 3D. INSTALL THE FOUR RETRACT ROPES TO BRACKET AND BOLT BRACKET INTO PLACE AT REAR OF THIRD SECTION.
- 4D. ATTACH RETRACT SHEAVES TO REAR OF THIRD SECTION WITH PIN AND SET COLLARS.
- 5D. BEND RETRACT CABLE FROM FOURTH SECTION AROUND RETRACT SHEAVES ON THIRD SECTION AND INSTALL RETAINING SHOULDER BOLTS.

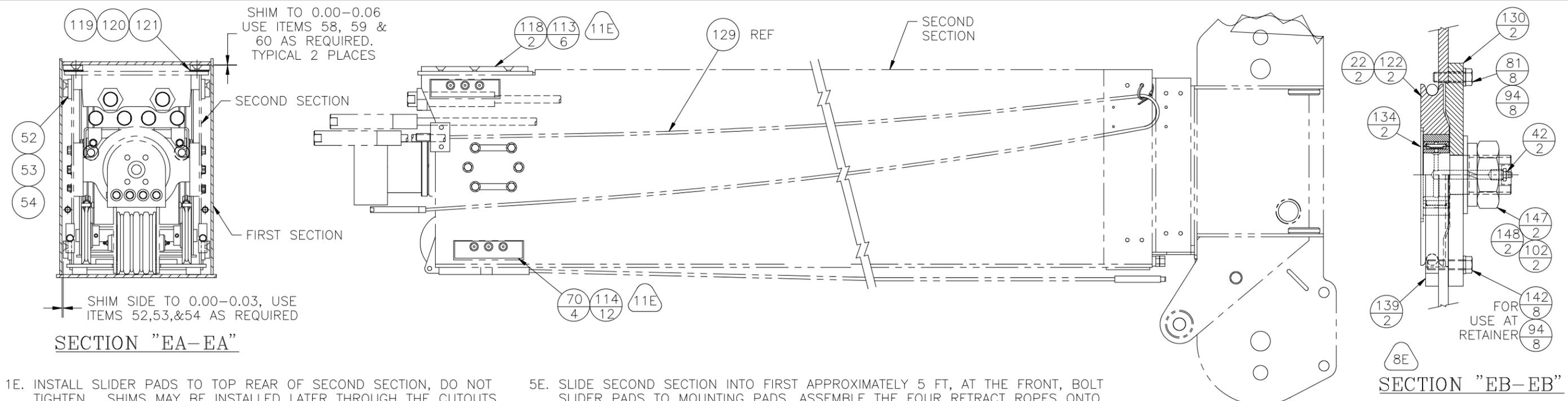
- 6D. ATTACH EXTEND CABLES TO TELESCOPE CYLINDER TRUNNION AND SECURE IN PLACE WITH RETAINER BRACKET.
- 7D. PLACE CYLINDER BRACKETS ON TRUNNION. PUSH THE FOUR RETRACT ROPES FROM THIRD SECTION AND THE TWO EXTEND ROPES FROM THE CYLINDER INTO SECOND SECTION WHILE SLIDING THE THIRD SECTION IN APPROX. 5 FEET.
- 8D. ASSEMBLE BOTTOM SLIDER PADS TO MOUNTING PADS AND THREAD RETRACT CABLES THROUGH BRACKET ON MOUNTING PADS. BOLT MOUNTING PADS IN PLACE AT THE FRONT OF THE SECOND SECTION AS SHOWN.
- 9D. FINISH SLIDING THIRD SECTION INTO SECOND SECTION.

- 10D. ATTACH EXTEND ROPES TO SECOND SECTION AS SHOWN, TAKE UP SLACK IN EXTEND AND RETRACT CABLES AT THIS TIME.
- 11D. ADJUST AND ATTACH TELESCOPE CYLINDER BRACKETS TO THE SECOND SECTION AS SHOWN. TORQUE THE BOLTS TO THE SPECIFIED TORQUE LEVELS.
- 12D. ASSEMBLE RETRACT SHEAVE TO BRACKET AND BOLT INTO PLACE AT REAR OF SECOND SECTION. ENSURE GREASE ZERKS IN THE PIN ARE DIRECTED TO THE REAR. INSTALL RETRACT ROPES & BRACKETS TO THE REAR (SIDE) OF THE SECOND SECTION.
- 13D. SEE SHEET 1 FOR TORQUE REQUIREMENTS FOR SLIDER PAD AND BOLTS.



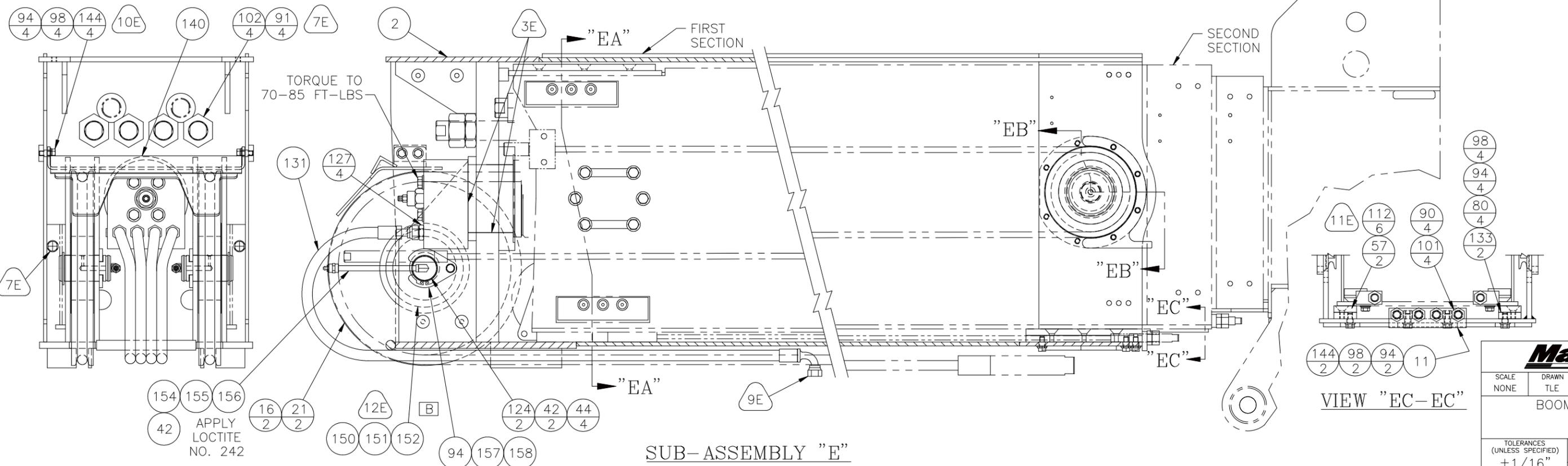
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Manitex			
SCALE NONE	DRAWN TLE	CHECKED JAR	APPVD./DATE DM 12/99
BOOM ASSEMBLY 124 FT			
TOLERANCES (UNLESS SPECIFIED) ±1/16"		6000552-009	
SHEET		5	OF 7



REVISIONS	
EN 99-0021-1	JAR 12/99
NEW RELEASE	
EN 00-0003-03	DAS 3/00
A	SEE SHT 1&6
EN 01-0002-03	EO 02-01
B	SEE SHT 1, ADDED EXT SHEAVE SHIMS ITEMS 150-152, AND NOTE 12E
EN 03-0014-3	DM 11/03
C	SEE SHT 1&2
EN 09-0004-05	EV 5/09
D	SEE SHT. 1

- 1E. INSTALL SLIDER PADS TO TOP REAR OF SECOND SECTION, DO NOT TIGHTEN. SHIMS MAY BE INSTALLED LATER THROUGH THE CUTOUTS ON TOP OF THE SECTIONS.
- 2E. DETERMINE QUANTITY OF SHIMS REQUIRED FOR SECOND SECTION OUTER REAR SIDE SLIDER PADS AND INSTALL, SEE NOTE 11E.
- 3E. REMOVE COUNTERBLANCE VALVE MANIFOLD FROM THE CYLINDER AND INSTALL HYDRAULIC FITTINGS. APPLY NEVER-SEIZE TO ROD END OF CYLINDER AND TO MATING BORE IN FOOT WELDMENT.
- 4E. USING TIE WRAPS, ATTACH THE TWO RETRACT ROPES TO EACH SIDE OF THE SECOND SECTION AS SHOWN. PULL THE ROPES TOWARD THE REAR OF THE BOOM AND HOLD IN PLACE USING ANY AVAILABLE TEMPORARY MEANS.
- 5E. SLIDE SECOND SECTION INTO FIRST APPROXIMATELY 5 FT, AT THE FRONT, BOLT SLIDER PADS TO MOUNTING PADS, ASSEMBLE THE FOUR RETRACT ROPES ONTO BRACKET AND INSTALL BRACKET AND PADS ONTO END OF FIRST SECTION.
- 6E. WITH RETRACT ROPES SECURED TO THE SIDE, FINISH SLIDING THE SECOND SECTION INTO FIRST WHILE GUIDING THE ROD END OF THE CYLINDER INTO THE BORE IN FOOT WELDMENT. INSTALL VALVE BLOCK MANIFOLD TO ROD END AND TORQUE BOLTS.
- 7E. ATTACH THE FOUR EXTEND ROPES TO THE REAR OF THE FIRST SECTION AND ENSURE THE TWO RETRACT ROPES EXTEND THROUGH THE CUTOUTS AT EACH SIDE OF THE FIRST SECTION FOOT AS SHOWN. TAKE UP SLACK IN THE FOUR EXTEND AND FOUR RETRACT ROPES AT THIS TIME.
- 8E. ASSEMBLE RETRACT SHEAVE TO SHEAVE PLATE, PLACE RETRACT ROPE IN SHEAVE GROOVE AND INSTALL ASSEMBLY IN THE HOLE AT THE FRONT OF THE FIRST SECTION. INSTALL ROPE RETAINER AND TIGHTEN ALL BOLTS.
- 9E. INSTALL BONDED HOSE TO VALVE BLOCK. HOSE SHOULD BEND UNDER THE SECTION AND MUST BE ORIENTED SO THE 90° HOSE ENDS POINT DOWNWARDS AS SHOWN.
- 10E. INSTALL EXTEND ROPE RETAINER AT REAR OF THE FIRST SECTION AND TIGHTEN BOLTS.
- 11E. SEE SHEET 1 FOR TORQUE REQUIREMENTS FOR SLIDER PAD BOLTS.
- 12E. DETERMINE QUANTITY OF SHIMS REQUIRED TO CENTER SHEAVE ON SHEAVE PIN, ALLOWING 1/16" MAXIMUM SIDE TO SIDE SHEAVE MOVEMENT.

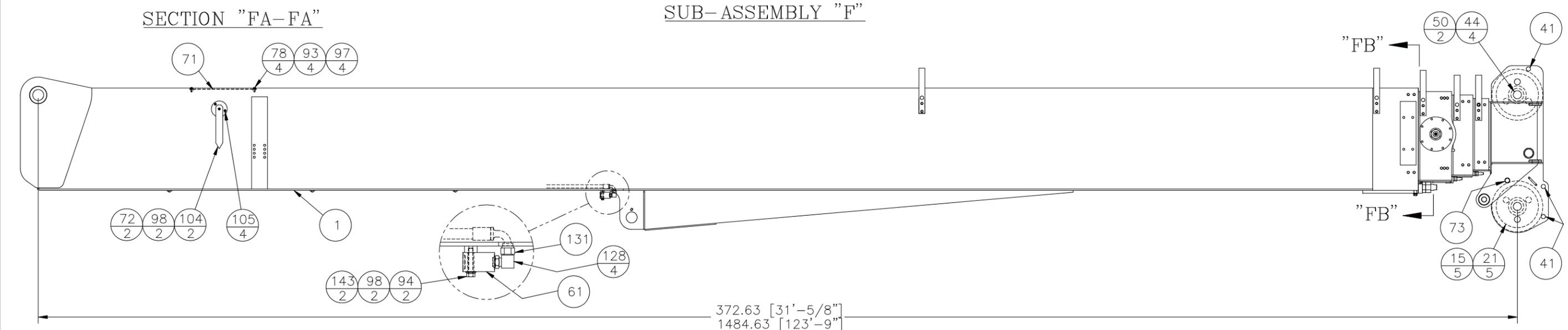
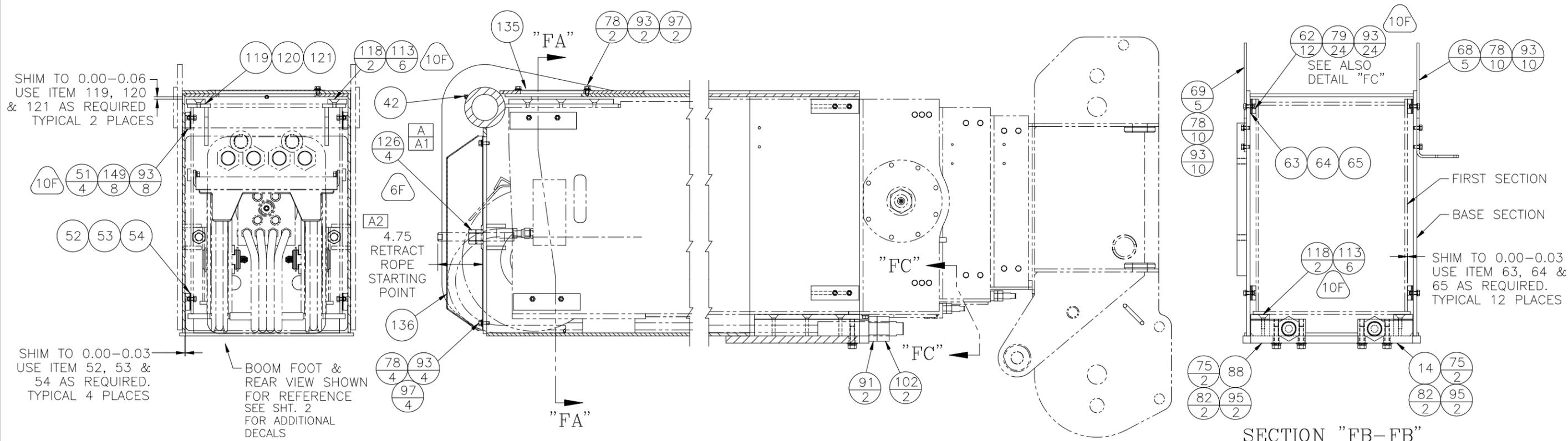


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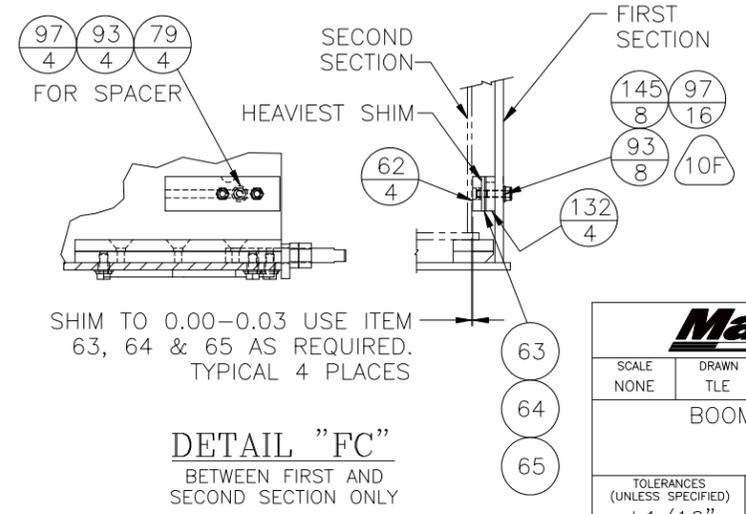
SCALE NONE	DRAWN TLE	CHECKED JAR	APPVD./DATE DM 12/99
BOOM ASSEMBLY 124 FT			
TOLERANCES (UNLESS SPECIFIED) ±1/16"		6000552-009	
SHEET		6	OF 7

REVISIONS	
EN 99-0021-1	JAR 12/99
NEW RELEASE	
EN 00-0003-03	DAS 3/00
A	QTY WAS 2
A1	DELETED (2)
PN 2010-142000	A2
ADDED	
EN 01-0002-03	EO 02-01
B	SEE SHT 1&5
EN 03-0014-3	DM 11/03
C	SEE SHT 1&2
EN 09-0004-05	EV 5/09
D	SEE SHT. 1



- 1F. INSTALL SLIDER PADS TO REAR OF FIRST SECTION, DO NOT TIGHTEN. SHIMS MAY BE INSTALLED LATER THROUGH THE CUTOUTS ON TOP OF THE SECTIONS.
- 2F. DETERMINE QUANTITY OF SHIMS REQUIRED FOR FIRST SECTION OUTER REAR SIDE SLIDER PADS AND INSTALL, SEE NOTE 10F.
- 3F. PUSH BONDED HOSE INTO BASE SECTION SO IT CAN BE INSTALLED AS FIRST SECTION IS ASSEMBLED INTO BASE SECTION.
- 4F. SLIDE FIRST SECTION INTO BASE APPROX. 5 FT. ASSEMBLE EXTEND ROPES AND SLIDER PADS TO MOUNTING PADS AND INSTALL AT FRONT OF BASE SECTION.
- 5F. SLIDE FIRST SECTION INTO BASE UNTIL THE 90° HOSE FITTING IS ACCESSIBLE AND INSTALL ONTO MANIFOLD THROUGH THE CUTOUT AT THE BOTTOM OF THE BASE SECTION. SECURE MANIFOLD TO MOUNTING PLATE. FINISH SLIDING FIRST SECTION INTO BASE.

- 6F. ATTACH THE TWO RETRACT ROPES TO THE REAR OF BASE SECTION AS SHOWN. TAKE UP SLACK IN THE EXTEND AND RETRACT ROPES AT THIS TIME.
- 7F. INSTALL THE SIDE SLIDER PADS AT THE FRONT OF ALL BOOM SECTIONS AND SHIM TO THE DIMENSIONS SHOWN. ADD SHIMS TO EACH SIDE AS REQUIRED TO ENSURE BOOM IS AS STRAIGHT AS POSSIBLE WHEN EXTENDED. BACK UP THE SLIDER PADS BY USING THE HEAVIEST SHIM DIRECTLY BEHIND THE SLIDER PAD. SEE DETAIL *FC* FOR INSTALLATION OF SPACER AT FRONT SIDE SLIDER PADS ON THE FIRST SECTION, SEE NOTE 10F.
- 8F. INSTALL SHIMS TO ALL TOP REAR SLIDER PADS OF ALL BOOM SECTIONS, SEE NOTE 10F. INSTALL TOP BOOM COVER.
- 9F. ASSEMBLE ALL REMAINING PARTS SUCH AS COVERS, BOOM POINT SHEAVES, CABLE GUIDES AND BOOM ANGLE POINTER. PROCEED TO ROPE CROWD ADJUSTMENT PROCEDURE.
- 10F. SEE SHEET 1 FOR TORQUE REQUIREMENTS FOR SLIDER PAD BOLTS.



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BOOM ASSEMBLY
124 FT

TOLERANCES
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±1/16"

6000552-009

SHEET 7 OF 7