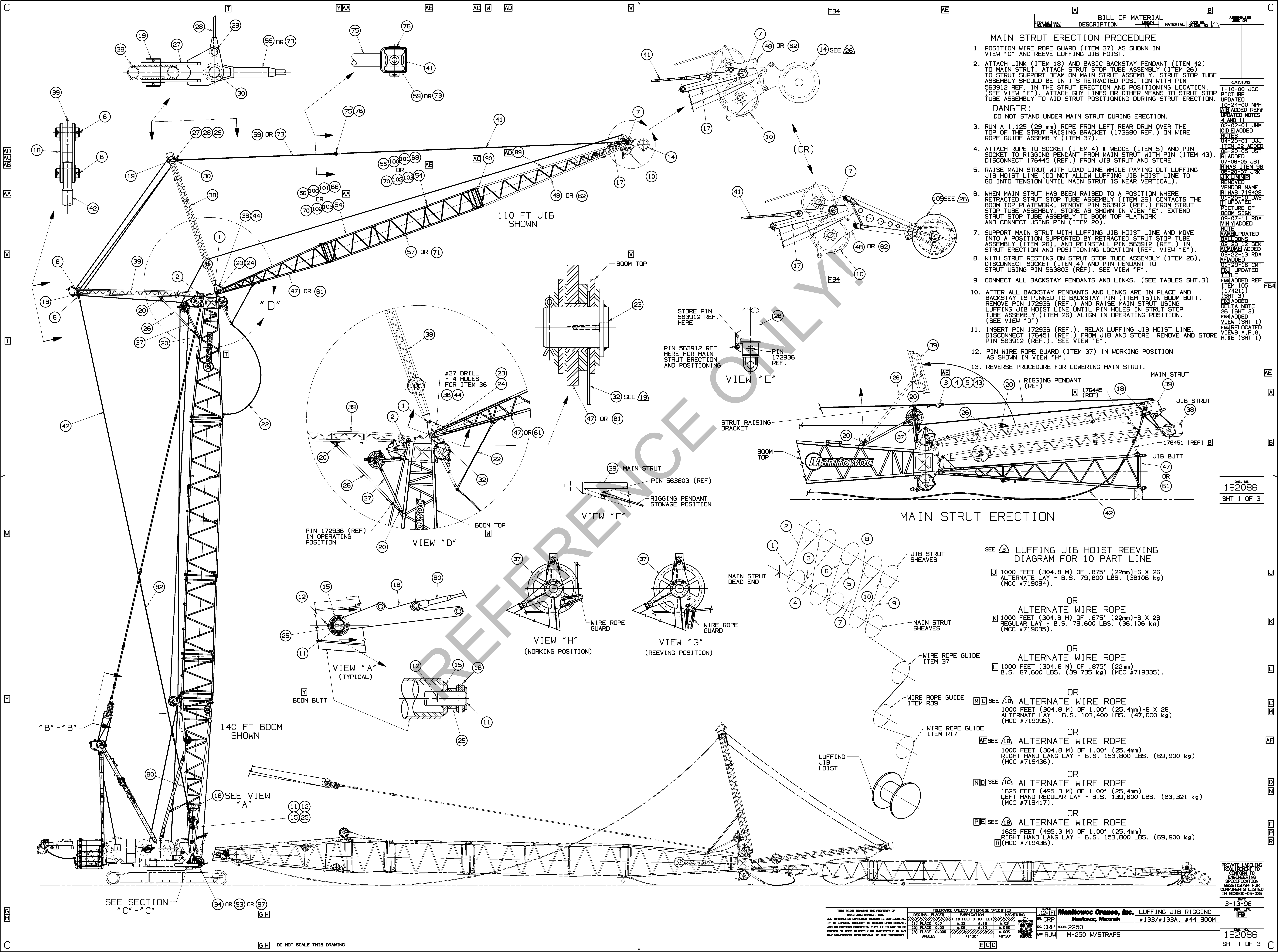
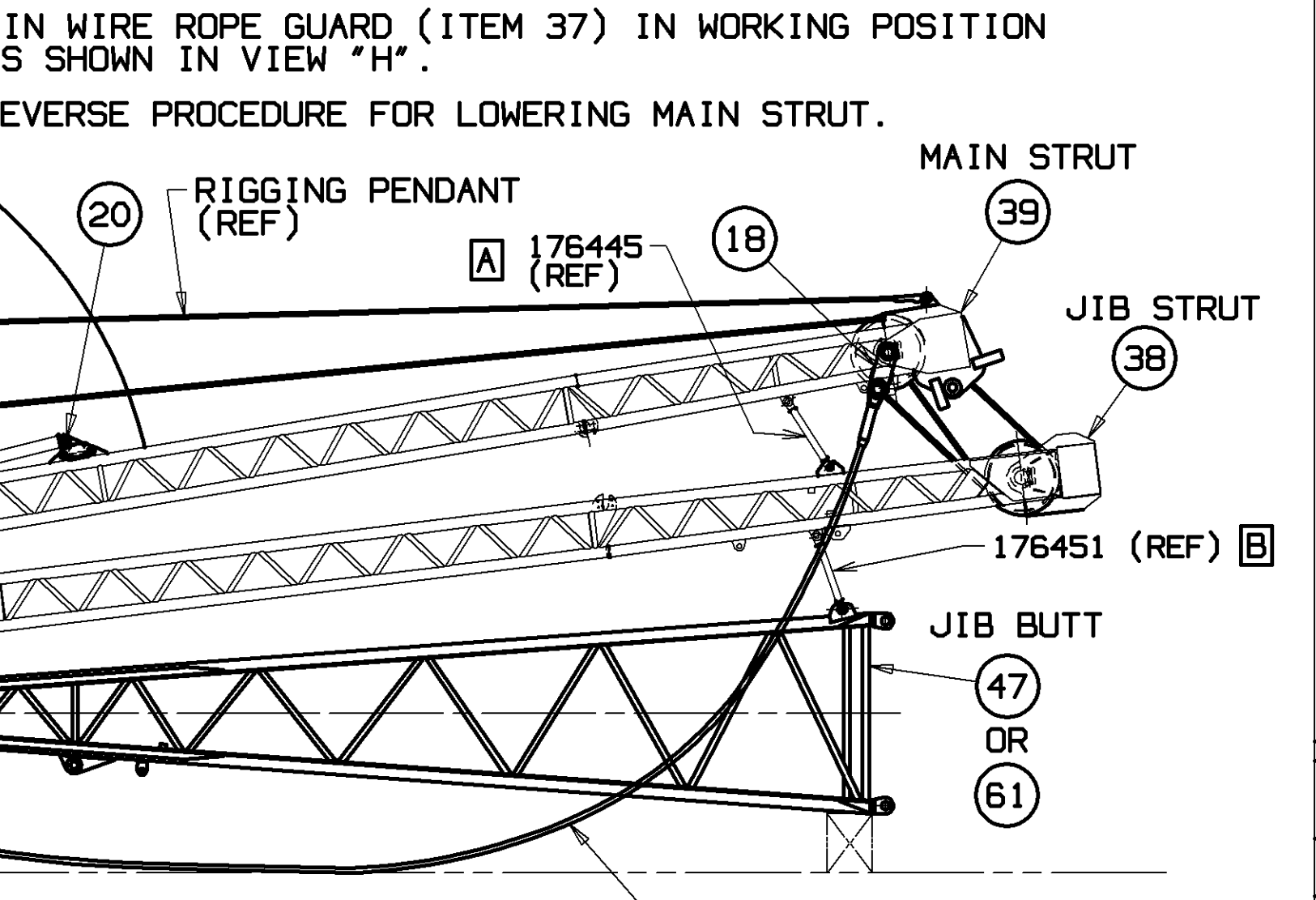




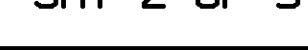
BILL OF MATERIAL				ASSEMBLY USED IN
QTY	UNIT	DESCRIPTION	MATERIAL	
MAIN STRUT ERECTION PROCEDURE				
POSITION WIRE ROPE GUARD (ITEM 37) AS SHOWN IN VIEW "G" AND REEVE LUFFING JIB HOIST.				
ATTACH LINK (ITEM 18) AND BASIC BACKSTAY PENDANT (ITEM 42) TO MAIN STRUT. ATTACH STRUT STOP TUBE ASSEMBLY (ITEM 26) TO STRUT SUPPORT BEAM ON MAIN STRUT ASSEMBLY. STRUT STOP TUBE ASSEMBLY SHOULD BE IN ITS RETRACTED POSITION WITH PIN 563912 REF. IN THE STRUT ERECTION AND POSITIONING LOCATION. (SEE VIEW "E"). ATTACH GUY LINES OR OTHER MEANS TO STRUT STOP TUBE ASSEMBLY TO AID STRUT POSITIONING DURING STRUT ERECTION.				
DANGER: DO NOT STAND UNDER MAIN STRUT DURING ERECTION.				
RUN A 1.125 (29 mm) ROPE FROM LEFT REAR DRUM OVER THE TOP OF THE STRUT RAISING BRACKET (173680 REF.) ON WIRE ROPE GUIDE ASSEMBLY (ITEM 37).				
ATTACH ROPE TO SOCKET (ITEM 4) & WEDGE (ITEM 5) AND PIN SOCKET TO RIGGING PENDANT FROM MAIN STRUT WITH PIN (ITEM 43). DISCONNECT 176445 (REF.) FROM JIB STRUT AND STORE.				
RAISE MAIN STRUT WITH LOAD LINE WHILE PAYING OUT LUFFING JIB HOIST LINE (DO NOT ALLOW LUFFING JIB HOIST LINE TO GO INTO TENSION UNTIL MAIN STRUT IS NEAR VERTICAL).				
WHEN MAIN STRUT HAS BEEN RAISED TO A POSITION WHERE RETRACTED STRUT STOP TUBE ASSEMBLY (ITEM 26) CONTACTS THE BOOM TOP PLATEWORK, REMOVE PIN 563912 (REF.) FROM STRUT STOP TUBE ASSEMBLY. STORE AS SHOWN IN VIEW "E". EXTEND STRUT STOP TUBE ASSEMBLY TO BOOM TOP PLATEWORK AND CONNECT USING PIN (ITEM 20).				
SUPPORT MAIN STRUT WITH LUFFING JIB HOIST LINE AND MOVE INTO A POSITION SUPPORTED BY RETRACTED STRUT STOP TUBE ASSEMBLY (ITEM 26). AND REINSTALL PIN 563912 (REF.) IN STRUT ERECTION AND POSITIONING LOCATION (REF. VIEW "E").				
WITH STRUT RESTING ON STRUT STOP TUBE ASSEMBLY (ITEM 26), DISCONNECT SOCKET (ITEM 4) AND PIN PENDANT TO STRUT USING PIN 563803 (REF.). SEE VIEW "F".				
CONNECT ALL BACKSTAY PENDANTS AND LINKS. (SEE TABLES SHT.3)				
AFTER ALL BACKSTAY PENDANTS AND LINKS ARE IN PLACE AND BACKSTAY IS PINNED TO BACKSTAY PIN (ITEM 15) IN BOOM BUTT, REMOVE PIN 172936 (REF.) AND RAISE MAIN STRUT USING LUFFING JIB HOIST LINE UNTIL PIN HOLES IN STRUT STOP TUBE ASSEMBLY (ITEM 26) ALIGN IN OPERATING POSITION. (SEE VIEW "D").				
INSERT PIN 172936 (REF.). RELAX LUFFING JIB HOIST LINE. DISCONNECT 176451 (REF.) FROM JIB AND STORE. REMOVE AND STORE IN 563912 (REF.). SEE VIEW "E".				
PIN WIRE ROPE GUARD (ITEM 37) IN WORKING POSITION AS SHOWN IN VIEW "H".				
REVERSE PROCEDURE FOR LOWERING MAIN STRUT.				



MAIN STRUT ERECTION

- SEE **A** LUFFING JIB HOIST REEVEING DIAGRAM FOR 10 PART LINE
- ☒ 1000 FEET (304.8 M) OF .875" (22mm)-6 X 26 ALTERNATE LAY - B.S. 79,600 LBS. (36,106 kg) (MCC #719094).
- OR
- ☒ 1000 FEET (304.8 M) OF .875" (22mm)-6 X 26 REGULAR LAY - B.S. 79,600 LBS. (36,106 kg) (MCC #719035).
- OR
- ALTERNATE WIRE ROPE
- ☒ 1000 FEET (304.8 M) OF .875" (22mm) B.S. 87,600 LBS. (39,735 kg) (MCC #719335).
- OR
- ALTERNATE WIRE ROPE
- ☒ 1000 FEET (304.8 M) OF 1.00" (25.4mm) B.S. 103,400 LBS. (47,000 kg) (MCC #719095).
- OR
- ☒ SEE **B** ALTERNATE WIRE ROPE
- 1000 FEET (304.8 M) OF 1.00" (25.4mm)-6 X 26 ALTERNATE LAY - B.S. 103,400 LBS. (47,000 kg) (MCC #719095).
- OR
- ☒ SEE **B** ALTERNATE WIRE ROPE
- 1000 FEET (304.8 M) OF 1.00" (25.4mm) RIGHT HAND LANG LAY - B.S. 153,800 LBS. (69,900 kg) (MCC #719436).
- OR
- ☒ SEE **B** ALTERNATE WIRE ROPE
- 1625 FEET (495.3 M) OF 1.00" (25.4mm) LEFT HAND REGULAR LAY - B.S. 139,600 LBS. (63,321 kg) (MCC #719417).
- OR
- ☒ SEE **B** ALTERNATE WIRE ROPE
- 1625 FEET (495.3 M) OF 1.00" (25.4mm) RIGHT HAND LANG LAY - B.S. 153,800 LBS. (69,900 kg) (MCC #719436).

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	DECIMAL PLACES	FRACTIONS		MACHINING		CR. DRP		
	(1) PLACE 0.00	≤ 10 PIPS	> 10 PIPS	≤ 10 PIPS	> 10 PIPS	CR. DRP		
	(2) PLACE 0.00	15	15	15	15	CR. DRP		
	(3) PLACE 0.000	0.05	0.05	0.05	0.015	CR. DRP		
	ANGLES	$\pm 1^{\circ} 30'$		$\pm 0^{\circ} 50'$		APP. RJW		
						M-250 W/STRAPS		



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	DECIMAL PLACES	FABRICATION	MACHINING	1/2" = 1'	
	(1) PLACE 0.0	± 1/16 TO ± 1/8	± 0.005	DR: CRP	
	(2) PLACE 0.00	+0.08 ± 0.12	± 0.015	APP: RJP	
	(3) PLACE 0.000	± 0.005	± 0.005	MODEL: 2250	
			W/STRAPS	M-250	

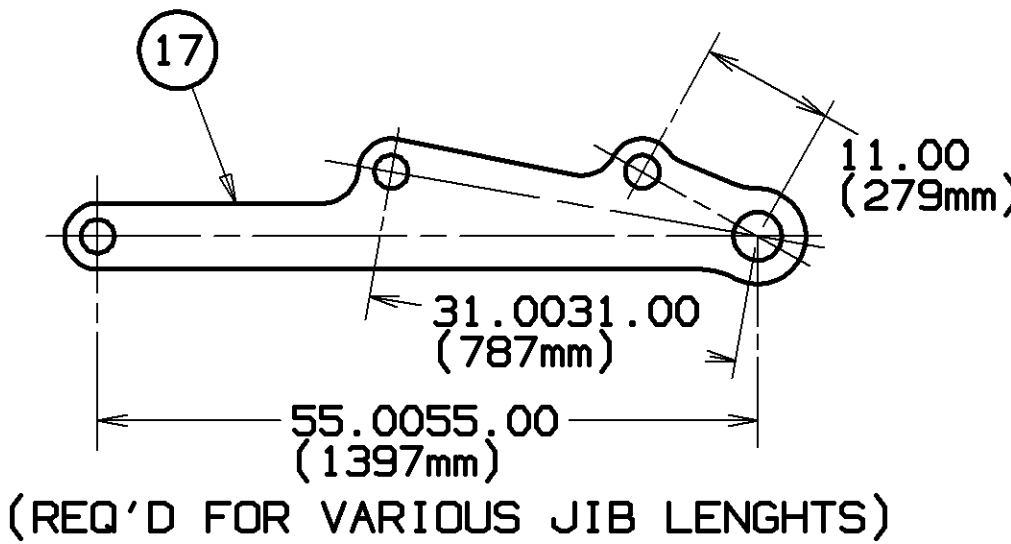
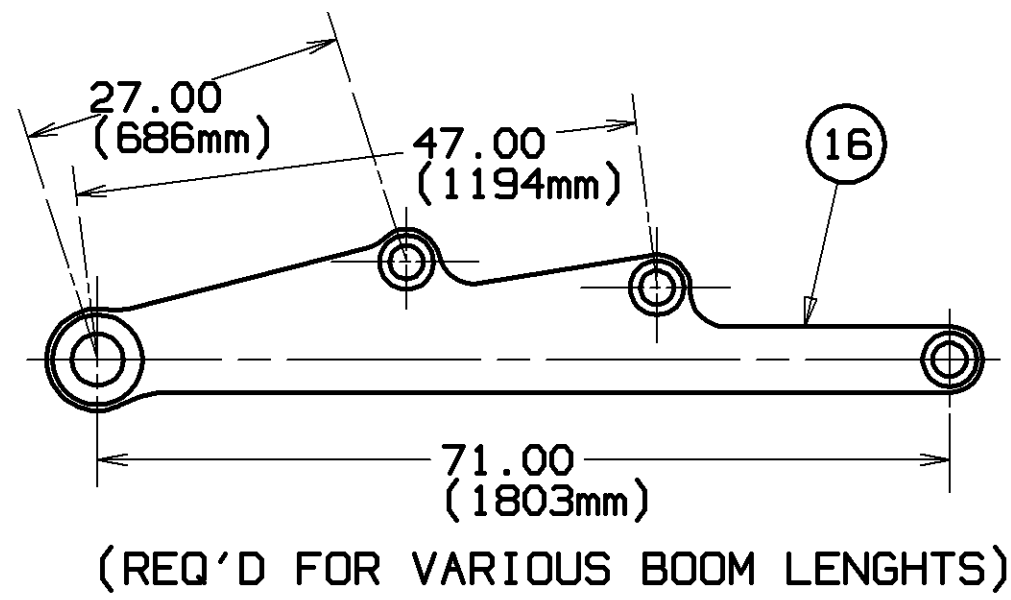
REQUIRED FOR VARIOUS JIB BACKSTAYS						
ITEM NO.		78	80	82	16	91
BOOM LENGTH		10 FT-1.00 (3.07M) PENDANT	20 FT-1.50 (6.13M) PENDANT	40 FT-3.00 (12.27M) PENDANT	BACKSTAY LINK ADJUSTMENT	(OPTIONAL) PENDANT TIE DOWN STRAPS
FEET	METERS				INCHES	mm
80	24.4	0	0	0	71.00	1803
90	27.4	2	0	0	71.00	1803
100	30.5	0	2	0	71.00	1803
110	33.5	OR 2	2	0	47.00	1194
		2	2	0	47.00	1194
120	36.6	OR 0	0	2	47.00	1194
		0	0	2	47.00	1194
130	39.6	2	0	2	47.00	1194
140	42.7	0	2	2	47.00	1194
150	45.7	OR 2	2	2	27.00	686
		2	2	2	27.00	686
160	48.8	OR 0	0	4	27.00	686
		0	0	4	27.00	686
170	51.8	2	0	4	27.00	686
180	54.9	0	2	4	27.00	686
190	57.9	OR 2	2	4	27.00	686
		2	2	4	27.00	686
200	61.0	OR 0	0	6	27.00	686
		0	0	6	27.00	686
210	64.0	2	0	6	27.00	686

INSERT NOTES:

- THE SHORTER INSERTS MUST BE CLOSEST TO THE BOOM BUTT AND JIB BUTT (10 FT. (3.05 M) INSERT FIRST). THEN THE 20 FT. (6.10 M) INSERTS.)
- SEE CRANE ASSEMBLY AND RIGGING GUIDE IN THE OPERATORS MANUAL FOR INSTRUCTIONS ON JIB STOWAGE.

PENDANT NOTES:

- THE SHORTER PENDANTS MUST BE CLOSEST TO THE BOOM BUTT AND JIB BUTT. (THE 10 FT. (3.05 M) PENDANTS FIRST. THEN THE 20 FT. (6.10 M) PENDANTS.)



Ⓔ Ⓙ REQUIRED FOR VARIOUS JIB LENGTHS																
ITEM NO.		50 OR 64	53 OR 67	57 OR 71	51 OR 65	55 OR 69	59 OR 73	54, 58 68 OR 72	17		75	76	91	76	76	76
JIB LENGTHS		10 FT 3.05 M INSERT	20 FT 6.10 M INSERT	40 FT 12.19 M INSERT	10 FT 1.0 3.07 M PENDANT	20 FT 1.5 6.13 M PENDANT	40 FT 3.0 12.27 M PENDANT	WIRE ROPE TIMBER Ⓒ	JIB PENDANT LINK ADJUSTMENT		SPREADER Ⓒ	PINS Ⓓ	(OPTIONAL) PENDANT TIE DOWN STRAPS Ⓔ	HHCS	HEX LOCK NUT	F WASHER SHIM
FEET	METERS								INCHES	mm						
70	21.3	0	0	0	0	0	0	0	55.00	1397	0	0	0	0	0	0
80	24.4	1	0	0	2	0	0	0	55.00	1397	1	2	4	0	0	0
90	27.4	0	1	0	0	2	0	1	55.00	1397	1	2	4	4	4	8
100	30.5	1	1	0	2	2	0	1	55.00	1397	2	4	8	4	4	8
110	33.5	OR 0	2	0	0	4	0	2	31.00	787	2	4	8	8	8	16
		0	0	1	0	0	2	2	31.00	787	1	2	6	8	8	16
120	36.6	OR 1	2	0	2	4	0	2	31.00	787	2	4	12	8	8	16
		1	0	1	2	0	2	2	31.00	787	2	4	10	8	8	16
130	39.6	0	1	1	0	2	2	3	31.00	787	2	4	10	12	12	24
140	42.7	1	1	1	2	2	2	3	31.00	787	2	4	14	12	12	24
150	45.7	OR 0	2	1	0	4	2	4	11.00	279	2	4	14	16	16	32
		0	0	2	0	0	4	4	11.00	279	2	4	12	16	16	32
160	48.8	OR 1	2	1	2	4	2	4	11.00	279	2	4	18	16	16	32
		1	0	2	2	0	4	4	11.00	279	2	4	16	16	16	32
170	51.8	0	1	2	0	2	4	5	11.00	279	2	4	16	20	20	40
180	54.9	1	1	2	2	2	4	5	11.00	279	2	4	20	20	20	40
190	57.9	OR 0	2	2	0	4	4	6	11.00	279	2	4	20	24	24	48
		0	0	3	0	0	6	6	11.00	279	2	4	18	24	24	48
200	61.0	OR 1	2	2	2	4	4	6	11.00	279	2	4	24	24	24	48
		1	0	3	2	0	6	6	11.00	279	2	4	22	24	24	48

ADAPTER FRAME MOD A13712 TO BE USED WITH LUFFING JIB HOIST ASSEMBLY A13596.

BOOM CAN NOT BE LOWERED BELOW HORIZONTAL DUE TO INTERFERENCE BETWEEN LOWER BOOM BUTT AND AUXILIARY DRUM (A13596) HYDRAULIC MOTOR.

81018510 AND 81019264 MAY BE USED IN PLACE OF 192063

81018921 MAY BE USED IN PLACE OF 174306

TIMBERS 81019336 AND 192468 CAN ONLY BE USED FOR 81019264
CRANE MUST BE EQUIPPED WITH ELECTRICAL ACCESSORY ASSY LOAD CENTER 81038073, NOT SHOWN

UPPER BOOM POINT (174211) IS PERMITTED IN PLACE OF LUFFING JIB UPPER POINT (172147) ONLY FOR SERIES 2 & SERIES 3 COUNTERWEIGHTS.

BOOM HANDLING INSTRUCTIONS				
TRAVEL SPEED NOT TO EXCEED 1/2 MPH (.80 km/h) BOOM ANGLE AT 10° OR LESS.				
GANTRY POSITION	MAX. LENGTH OF BOOM HANDLED		BOOM MAKE UP	BOOM CONDITIONS OR LIMITATIONS
	FEET	METERS		
DOWN	40	12.19	BUTT ONLY	EQUALIZER PINNED TO RAILS
UP	120	36.6	BUTT & INSERTS	EQUAL PINNED TO RAILS. CAN CANTILEVER 80 FT. (24.4 M) OF INSERTS.

BILL OF MATERIAL		
ITEM NO.	DESCRIPTION	QTY
751	SPREADER	1953719
782	PIN	19537210
77		
1510-0100 PENDANT 10 FT (JIB BACKSTAY)		
782	PENDANT 10 FT-1.00 (3.07M)	277382
79		
1510-0110 PENDANT 20 FT (JIB BACKSTAY)		
802	PENDANT 20 FT-1.50 (6.13M)	277383
81		
1510-0120 PENDANT 40 FT (JIB BACKSTAY)		
822	PENDANT 40 FT-3.00 (12.27M)	277384
83		
84		
85		
86		
87		
88		
OPTIONAL PARTS		
891	TIMBER	8101933624
901	TIMBER	19246824
981	LIGHT ASSY BOOM AND LUFFING JIB	8103769425
1510-0140 PENDANT TIE DOWN STRAP		
916	PENDANT TIE DOWN STRAP	66685213
92		
1510-0150 1.00" LUFFING DRUM		
931	JIB LUFFING HOIST ASSEMBLY	19482318
94		
1510-0160 GUARD WIRE ROPE ASSEMBLY FOR CE CODE		
951	CE CODE DRUM GUARD FOR 194823	A06120
961	CE CODE DRUM GUARD FOR 177356	A06121
1.00" LUFFING DRUM WITH REDUNDANT BRAKE (21)		
971	JIB LUFFING HOIST ASSEMBLY	A1359620
107		
UPPER POINT		
1081	POINT UPPER W/ ROLLER ASSY	1742111.26
108		

1.125 (29mm) WIRE ROPE.

ON DWG. 78145.

LUFFING JIB ASSEMBLIES REQUIRING OUTSIDE ASSIST MUST HAVE 1000 FT. (304.8 M) OF JIB HOIST LINE.

SEE JIB STOP ASSEM. FOR JIB STOP ERECTION PROCEDURE.

ATTACH TIMBERS SO THEY ARE FREE TO SLIDE UNDER THERMAL EXPANSION/CONTRACTION OF PLASTIC.

REFER TO SPECIFIC CAPACITY CHART FOR APPROPRIATE BOOM AND JIB COMBINATIONS.

REFER TO LUFFING JIB RAISING PROCEDURE FOR RAISING LOWERING BOOM AND JIB.

SEE CRANE ASSEMBLY & RIGGING GUIDE IN THE OPERATIONS MANUAL FOR INSTRUCTIONS ON PENDANT STOWAGE.

SPREADER LOCATIONS:

A) FOR JIBS REQUIRING ONE SPREADER:
LOCATE AT THE FIRST PENDANT CONNECTION CLOSEST TO THE LUFFING JIB TOP.

B) FOR JIBS REQUIRING TWO SPREADERS:
LOCATE ONE AT THE FIRST PENDANT CONNECTION CLOSEST TO THE LUFFING JIB TOP AND THE SECOND SPREADER AT THE PENDANT CONNECTION CLOSEST TO THE JIB STRUT.

PIN (ITEM 76) IS USED IN CONJUNCTION WITH SPREADER (ITEM 75)(2 PINS PER SPREADER) AND REPLACES PIN SUPPLIED WITH PENDANT.

STAMP DATA ON (ITEM 36) AND INSTALL AFTER FINAL PAINTING.

PIN (ITEM 43) IS TO BE USED FOR MAIN STRUT ERECTION ONLY. IF WEDGE SOCKET (ITEM 4) IS USED FOR ANY LOAD LIFTING LINE, PIN 563960 (REF.) IS REQUIRED.

USED ON LUFFING JIB TOP - SEE (8)

PIN CONNECTED 133A

FACT CONNECTED 133

PIN CONNECTED 133A - MAY USE 421319 OR 174307

FACT CONNECTED 133 - MAY USE 421318 OR 171483

USE 1.00" ROPE IN CONJUNCTION WITH ITEM 93. WHEN 2250 IS EQUIPPED WITH MAXER 2000, 133 JIB MUST BE EQUIPPED WITH 1.00" GROOVED SHEAVES. ON OLDER MACHINES, MODIFICATION DWG. 417398 MAY BE NECESSARY. VERIFY SHEAVE SIZES.

ADD SHIMS (ITEM 32) AS REQUIRED (IN AREA SHOWN) TO LIMIT LATERAL MOVEMENT OF JIB BUTT. USE AN EQUAL AMOUNT OF SHIMS ON BOTH SIDES TO CENTER JIB BUTT WITH BOOM TOP.

BILL OF MATERIAL					ASSEMBLIES USED ON
ITEM NO.	DESCRIPTION	QTY	MATERIAL	QTY	
1510-0000 BASIC LUFFING JIB FOR 70 FT (21.3M) (SEE TABLE OF COMPONENTS FOR VARIOUS JIB LENGTHS)					
12	PIN	183022			
22	PIN	138402			
31	CLIP	349292			
41	SOCKET	162233			
51	WEDGE	162234			
64	PIN	165513			
72	PIN	167015			
8					
9					
101	JIB POINT SHAFT ASSEMBLY (LOWER)	1704221			
112	END PLATE	170671			
122	PIN	170673			
13					
141	LUFFING JIB UPPER POINT ROLLER ASSEMBLY	1721471.26			
152	BACKSTAY PIN	172194			
162	RATCHET LINK	172195			
172	RATCHET LINK	172197			
182	LINK	172507			
192	PIN	172688			
204	PIN	172937			
21					
221	JIB STOP ASSEMBLY	1730174			
231	PIN R.H.	173035			
241	PIN L.H.	173045			
252	SPACER	173374			
262	STRUT STOP TUBE ASSEMBLY	173649			
272	LINK	173738			
281	TIE LINK	173740			
292	PIN	173741			
302	PIN	173742			
31					
3210	SHIM	A0052019			
33					
341	JIB LUFFING HOIST ASSEMBLY	177356			
35					
361	BUILDERS PLATE	18150311			
371	WIRE ROPE GUIDE ASSEMBLY	192085			
381	JIB STRUT ASSEMBLY	192132			
391	MAIN STRUT ASSEMBLY	192133			
40					
412	BASIC JIB PENDANT 71 FT-3.00 - (21.7 M)	2771462			
422	BASIC BACKSTAY PENDANT 73 FT-6.00 - (22.4 M)	2771472			
431	PIN	56409412			
444	#4 X .31(8mm) LG. TYPE J DRIVE SCREW	62065611			
45					
46					
BASIC 133A JIB					
471	JIB BUTT 30 FT (9.14M)	17430614			
481	JIB TOP 40 FT (12.19M)	192063162			
491	TOP 40 FT MOD #44 BOOM/#133 JIB	81002420			
NUMBER REQUIRED FOR THE FOLLOWING ITEMS ARE IN JIB LENGTH TABLE					192086
					SHT 3 OF 3
50	INSERT 10 FT (3.05M)	17148014			
51	PENDANT 10 FT-1.00 (3.07M)	277382			
52					
53	INSERT 20 FT (6.10M)	17148114			
54	TIMBER 70.50 LG X 3.50 W	810173515			
55	PENDANT 20 FT-1.50 (6.13M)	277383			
56	HHCS 3/8-16UNCx5 G5	7115164050			
100	F WASHER 3/8 ST SAE	709703			
101	HEX LOCK NUT PA 3/8-16UNC GrC	548342			
57	INSERT 40 FT (12.19M)	17148214			
58					
59	PENDANT 40 FT-3.00 (12.27M)	277384			
BASIC 133 JIB					
611	JIB BUTT 30 FT (9.14M)	17306615			
621	JIB TOP 40 FT (12.19M)	19206217			
63					
NUMBER REQUIRED FOR THE FOLLOWING ITEMS ARE IN JIB LENGTH TABLE					
64	INSERT 10 FT (3.05M)	17204515			
65	PENDANT 10 FT-1.00 (3.07M)	277382			
66					
67	INSERT 20 FT (6.10M)	17204615			
68	TIMBER 70.50 LG X 3.50 W	810173515			
69	PENDANT 20 FT-1.50 (6.13M)	277383			
70	HHCS 3/8-16UNCx5 G5	7115164050			
71	INSERT 40 FT (12.19M)	17204715			
72					
73	PENDANT 40 FT-3.00 (12.27M)	277384			
102	F WASHER 3/8 ST SAE	709703			
103	HEX LOCK NUT PA 3/8-16UNC GrC	548342			