

ADDITIONAL PARTS REQ'D. FOR VARIOUS BOOM LENGTHS

ITEM NO.	37	47	57	67	33	43	53 OR 63	31,41,51 OR 61	32,42,52 OR 62	34,44,54 OR 64	35,45,55 OR 65	36,46,56 OR 66	38,48,58 OR 68	107
BOOM LENGTH	10 FT 3.05 M INSERT	20 FT 6.10 M INSERT	40 FT 12.19 M INSERT	40 FT 12.19 M LIGHT INSERT	9 FT 4.75 (2.86M) STRAP	19 FT 4.75 (5.91M) STRAP	39 FT 4.75 (12.00M) STRAP	PIN	TIMBER	BOOM SUPPORT LINK	COLLAR	PIN	PIN	WIRE ROPE GUIDE INTERMEDIATE
FEET	METERS													
80	24.4	1	0	0	0	2	0	4	1	4	4	4	4	25
90	27.4	0	1	0	0	0	2	4	1	4	4	4	4	
100	30.5	1	1	0	0	2	0	8	2	8	8	8	8	
110	33.5	OR 0	2	0	0	0	4	8	2	8	8	8	8	
120	36.6	OR 1	2	0	0	2	4	12	3	12	12	12	12	1
130	39.6	0	1	1	0	0	2	8	3	8	8	8	8	1
140	42.7	1	1	1	0	2	2	12	4	12	12	12	12	1
150	45.7	OR 0	2	1	0	0	4	12	4	12	12	12	12	1
160	48.8	OR 1	2	1	0	2	4	16	5	16	16	16	16	2
170	51.8	0	1	2	0	0	2	12	5	12	12	12	12	2
180	54.9	1	1	2	0	2	2	16	6	16	16	16	16	2
190	57.9	OR 0	2	2	0	0	4	16	6	16	16	16	16	2
200	61.0	OR 1	2	2	0	2	4	20	7	20	20	20	20	3
210	64.0	0	1	3	0	0	2	6	7	16	16	16	16	3
220	67.1	1	1	3	0	2	2	6	8	20	20	20	20	3
230	70.1	OR 0	2	3	0	0	4	6	8	20	20	20	20	3
240	73.2	OR 1	2	3	0	2	4	6	8	24	24	24	24	4
250	76.2	0	1	4	0	0	2	8	9	20	20	20	20	4
260	79.2	1	1	4	0	2	2	8	10	24	24	24	24	4
270	82.3	OR 0	2	4	0	0	4	8	10	24	24	24	24	4
280	85.3	OR 1	2	3	1	2	4	8	11	28	28	28	28	25
290	88.4	0	1	4	1	2	0	10	11	24	24	24	24	
300	91.4	1	1	4	1	2	2	10	11	24	24	24	24	

INSERT NOTES:

- THE SHORTER INSERTS MUST BE CLOSEST TO THE 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.
- INSERT (ITEM 67) (40 FT) (12.19 M) LIGHT INSERT MUST BE LOCATED IMMEDIATELY BELOW THE BOOM TOP.

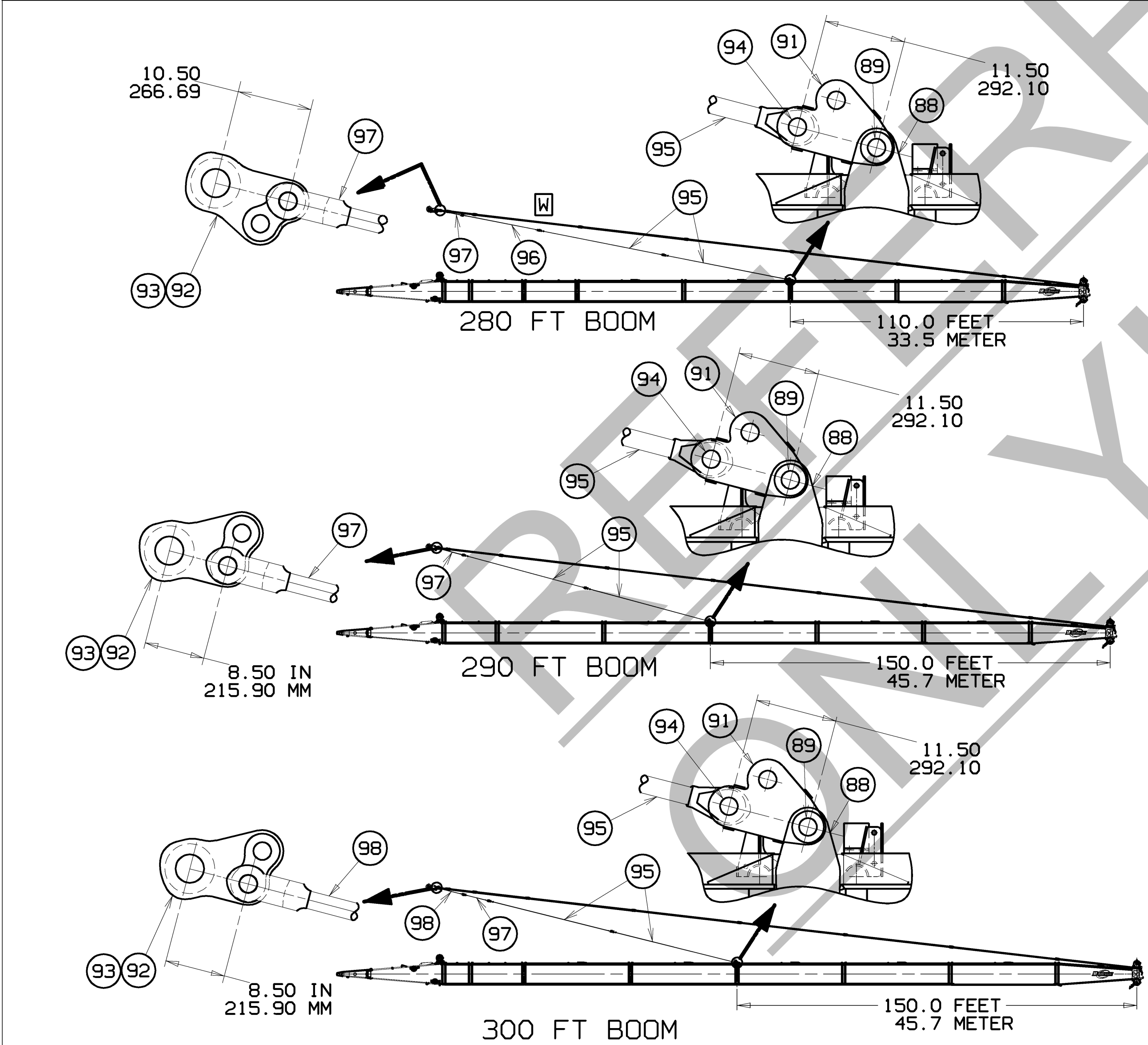
GENERAL NOTES:

- MINIMUM BOOM LENGTH REQUIRED FOR #132 JIB = 130 FT. (39.6 M)
- WHEN #132 JIB IS USED, RUN LOAD LINE FROM WIRE ROPE GUIDE ASSEMBLY (ITEM 24) OVER JIB STRUT SHEAVE, TO JIB POINT.

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	EQUALIZER PINNED TO RAILS. CAN CANTILEVER 80 FT. (24.4 M) OF INSERTS.



ITEMS AND LOCATIONS REQUIRED FOR INTERMEDIATE SUSPENSION

ITEM NO.	88	91	92 AND 93	95	96	97	98
BOOM LENGTH	LOCATION FROM BOOM TOP	PINNING DIMENSION	PINNING DIMENSION	47 FT 6.00 (14.48M) PENDANT	29 FT 5.00 (8.97M) PENDANT	9 FT 9.00 (2.97M) PENDANT	9 FT 9.00 (2.97M) PENDANT
FEET	METERS	INCH	MILLIMETER	INCH	MILLIMETER		
280	85.3	110	33.5	11.50	292	10.50	267
290	88.4	150	47.7	11.50	292	8.50	216
300	91.4	150	47.7	11.50	292	8.50	216

27 USE ONLY WITH ROPE MANUFACTURE'S APPROVAL FOR USE WITH BLOCK MCC #237087.

28 REPLACE 171283 WITH A13324 WHEN USING LUFFING DRUM ASSEMBLY A13596.

29 SHIM BUTT AWAY FROM CAB TO AVOID INTERFERENCE WITH THE BOOM ANGLE INDICATOR.

30 81007042 OR 81015888 OR 81018436 CAN BE USED IN PLACE OF 179915. 81007043 CAN BE USED IN PLACE OF 179917.

31 SEE DELTA NOTES 13, 28, AND 32.

32 BOOM POINT ASSEMBLY FOR CLAM OPTION WITH 1.38 WIRE ROPE. 50K MAX LINE PULL FOR SINGLE LINE. 40K MAX LINE PULL FOR 2 LINES SIMULTANEOUS. REMOVE ITEM #24 WHEN USING 1.38 WIRE ROPE CLAM OPTION.

33 RIGGING BELOW BOOM REQUIRED WHEN USING AUXILIARY WINCH WITH 1.38 WIRE ROPE CLAM OPTION. REMOVE ITEM #123 WHEN USING AUXILIARY WINCH RIGGING BELOW BOOM.

34 REQUIRES MODIFICATION DRAWING 417386.

35 MINIMUM BOOM LENGTH OF 110 FT. REQUIRED WHEN USING AUXILIARY WINCH RIGGED BELOW BOOM. MAX LENGTH 270 FT. FOR AUXILIARY DRUM RIGGING BELOW BOOM.

36 40 FT. MAXIMUM COMBINED INSERT LENGTH BETWEEN INTERMEDIATE ROPE GUIDES.

2580-0072 SELF-ERECT BOOM BUTT HANDLING CYLINDER-SEITZ

841	CYLINDER	3854136
2580-0074	SELF-ERECT BOOM BUTT HANDLING CYLINDER-HYCO	
851	CYLINDER	3856306
2580-0080	FOR INTERMEDIATE SUSPENSION	
862	PIN	75465 5
872	PIN	1708445
882	LINK	1717615.12
892	PIN	1718705
90		
912	LINK	192059
921	LINK (RIGHT HAND)	192060
931	LINK (LEFT HAND)	192061
942	PIN	564081
954	PENDANT - 47FT 6.00 (14.48M)	27746715
962	PENDANT - 29FT 5.00 (8.97M)	27746815
972	PENDANT - 9FT 9.00 (2.97M)	27746615
2580-0090	PENDANT FOR INTERMEDIATE SUSPENSION 300 FT BOOM	
982	PENDANT - 9FT 9.00 (2.97M)	27746615

OPTIONAL AUXILIARY WINCH RIGGING BELOW BOOM

1061	WIRE ROPE GUIDE ASS'Y. (BOOM TOP)	19589824
1071	WIRE ROPE GUIDE ASS'Y. (INTERMEDIATE)	19596026
1081	WIRE ROPE GUIDE ASS'Y. (BOOM BUTT)	195993
109		
110		
111		
112		
113		
114		

OPTIONAL PARTS

1191	PILE DRIVER LEAD ADAPTER ASSEMBLY	A07814
1201	BOOM POINT ASSEMBLY (UPPER)	19297722
1211	BOOM POINT ASSEMBLY (UPPER)	17041911.10
1221	BOOM ASSEMBLY LADDER STORAGE	192795
1231	WIRE ROPE GUIDE ASSEMBLY	1725594.2
1241	RIGGING WINCH ASSEMBLY	172577
1251	SHWEL ASSEMBLY	19606527
126	CAT WALK ASSY 30FT #44 TOP	8101696336
127	CAT WALK ASSY 10FT #44 INSERT	8101694536
128	CAT WALK ASSY 20FT #44 INSERT	8101694636
129	CAT WALK ASSY 40FT #44 INSERT	8101694736

- 1.125 (29mm) WIRE ROPE.
- ON DNG. 139117. GANTRY TIE DOWN PENDANT.
- OPTIONAL 40 FT. (12.19 M) BUTT (ITEM 30) REPLACES THE COMBINATION OF BUTT SECTIONS (ITEM 27 & 28). ONE PIECE BUTT CANNOT BE USED WITH SELF-ERECT.
- REQUIRED FOR LUFFING JIB. SELF-ERECT (CRAWLER HANDLING), RIGGING WINCH, AND FOR AUX. LINE ON TOP OF BOOM WITH 3 LINES UP BOOM
- IF MACHINE IS EQUIPPED WITH #132 JIB ASSEMBLY, LINKS (ITEM 88) AND PINS (ITEM 86,87 AND 89) FROM JIB ASSEMBLY MAY BE USED.
- BOOM BUTT HANDLING:
USED WITH 2-PIECE BOOM BUTT ONLY. MAX. COMBINATION THAT CAN BE HANDLED WITH CYLINDER (ITEM 84 OR 85) IS: BUTT SECTIONS (ITEM 27 & 28) : ROPE GUIDES (ITEM 24,74 AND 123): RIGGING WINCH (ITEM 124): EQUALIZER (ITEM 18): BOOM STOPS ITEM 6. AND 2 PARTS OF 1.125 (29mm) WIRE ROPE. (FOR EQUALIZER HANDLING.) CYLINDER MUST BE FULLY RETRACTED FOR CRANE OPERATION.
- INSTALL 2 BUSHINGS (ITEM 77) (1 EACH SIDE) IN LOWER PIN EYE AND 2 (1 EACH SIDE) IN UPPER PIN EYE OF CYLINDER (ITEM 76). BUSHINGS TO BE FLUSH WITH OUTSIDE FACE OF PIN EYE.
- FOR BOOM LENGTHS OF 250 FT. (76.2 M) THRU 300 FT (91.4 M) ONLY THE BOTTOM MIDDLE 3 SHEAVES ARE TO BE USED. REMOVE THE LEFT AND RIGHT SHEAVE CLUSTERS AND REPLACE WITH THE SPACER CALLED FOR ON THE ASSEMBLY.
- PIN IN PLACE ONLY DURING EQUALIZER RELOCATION FROM GANTRY STORAGE TO BOOM BUTT EQUALIZER RAIL. PIN TO BE STOWED FOR NORMAL CRANE OPERATION.
- REMOVE WHEN JIB IS USED.

11 USE LOCKTITE #242 OR EQUIVALENT ON MOUNTING SCREW THREADS AT ASSEMBLY.

12 BOSS ON LINK (ITEM 88) MUST ALWAYS BE TO THE OUTSIDE OF THE BOOM. SEE VIEW "B".

13 (12 FT.)-(3.66 M)

14 (28 FT.)-(8.53 M)

15 ON DRAWING 76280.

16 SAME AS MODIFICATION #421309 WITH #421315.

17 SAME AS MODIFICATION #421321.

18 SAME AS MODIFICATION #421322.

19 SAME AS MODIFICATION #421323.

20 SAME AS MODIFICATION #421324.

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

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DECIMAL PLACES	TOLERANCE UNLESS OTHERWISE SPECIFIED
(1) PLACE 0.0	± 0.10 FEET > 10 FEET ± 0.05
(2) PLACE 0.00	± 0.06
(3) PLACE 0.000	± 0.015
ANGLES	± 0.005
	± 0.01

QTY	ITEM NO.	DESCRIPTION	LOGS	MATERIAL	QTY NO.	ASSEMBLY USED ON
		2580-0000 BASIC BOOM 70 FT. (21.3M)				
1	2	SIGN BOOM MANITOWOC		81008829		
2	4	PIN		78292		
3	8	WASHERS		137502		
4	2	PIN		160720		
5	1	BOOM ANGLE INDICATOR ASSEMBLY		168779		
6	1	BOOM STOP ASSEMBLY		170474		
7	4	LINK STRAP STOWAGE		A11538		
8	4	PIN 2 HOLES 19.0 DIA X 132.0 LG		A11795		
9	1	BOOM POINT SHAFT ASSEMBLY (LOWER)		1729601.8		
10	1	PIN WASHER		562045		
11	2	PIN COTTER .125 X 1.50		17890521		
12	1	TIMBER		179777		
13	1	GANTRY ASSEMBLY		17121171301		
14	2	BOOM SUPPORT STRAP (BASIC)		179840		
15	2	BOOM SUPPORT STRAP (BASIC)		179841		
16	1	COLLAR		179862		
17	1	PIN		179863		
18	1	EQUALIZER ASSEMBLY		179896		
19	1	NUT HEX M8-1.25 10 PLN		7661170004		
20	1	BOOM TOP (30 FT.)-(9.14 M)		17991511.1		
21	1	PIN		179959		
22	1	BOOM SUPPORT LINK		179983		
23	1	BOOM SUPPORT LINK		179984		
24	1	WIRE ROPE GUIDE ASSEMBLY		19200022		
25	1	PENDANT		2774652		
26	1	WASHER LOCK M8		7951170210		

2580-0010 BOOM BUTT 2-PIECE

271	40 FT. (12.19 M) BUTT LOWER SECTION	17128331
281	BUTT ASSY 40 FT. #44 BOOM UPPER SECTION	81014196
292	TIMBER 41.00 LG X 3.50 W	8101779121
304	HHCS 5/8-11UNC X 5.00 GR 5	612685
314	HEX LOCK NUT 5/8-11UNC Gr5.2	7660201601
324	F WASHER SHIM 5/8 ST F436	709747

2580-0020 BOOM BUTT 1-PIECE

301	BUTT ASSY 40 FT. #44 BOOM OR JIB BUTT	810141973
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2580-0030 INSERT 10 FT (3.05M)

314	PIN	78292
321	TIMBER	17890521
332	BOOM SUPPORT STRAP (10 FT)	179837
344	BOOM SUPPORT LINK	192250
354	COLLAR	179862
364	PIN	179863
371	INSERT 10 FT (3.05M)	17991217.36
384	PIN	179959
39		
40		

2580-0040 INSERT 20 FT (6.10M)

414	PIN	78292
421	TIMBER	17890521
432	BOOM SUPPORT STRAP (20 FT)	179838
444	BOOM SUPPORT LINK	192250
454	COLLAR	179862
464	PIN	179863
471	INSERT 20 FT (6.10M)	17991318.3
484	PIN	179959
49		
50		

2580-0050 INSERT 40 FT (12.19M)

514	PIN	78292
522	TIMBER	17890521
532	BOOM SUPPORT STRAP (40 FT)	179839
544	BOOM SUPPORT LINK	192250
554	COLLAR	179862
564	PIN	179863
571	INSERT 40 FT (12.19M)	17991418.3
584	PIN	179959
59		
60		

2580-0060 INSERT 40 FT LIGHT (12.19M)

614	PIN	78292
622	TIMBER	17890521
632	BOOM SUPPORT STRAP (40 FT)	179839
644	BOOM SUPPORT LINK	192250
654	COLLAR	179862
664	PIN	179863
671	INSERT 40 FT LIGHT (12.19M)	17991710.3
684	PIN	179959
69		
70		

258