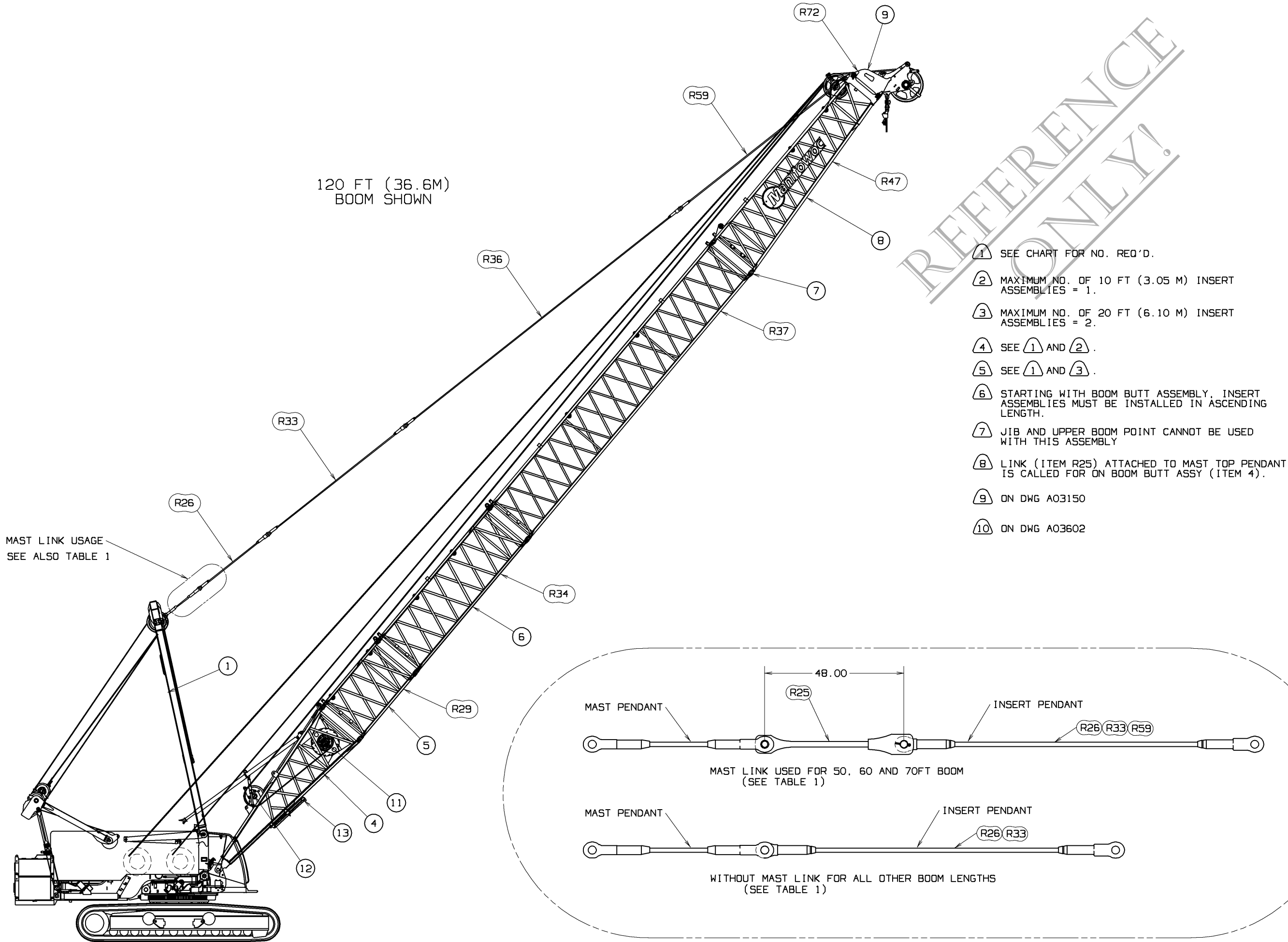


INSERT ASSY'S REQ'D. FOR VARIOUS BOOM LENGTHS

ITEM NO.		5	6	7	R25
BOOM LENGTH		10 FT 3.05 M INSERT ASSEMBLY	20 FT 6.10 M INSERT ASSEMBLY	40 FT 12.19 M INSERT ASSEMBLY	LINK
FEET	METERS				
50	15.2	0	0	0	1
60	18.3	1	0	0	1
70	21.3	0	1	0	1
80	24.4	1	1	0	0
90	27.4	0	0	1	0
100	30.5	1	0	1	0
110	33.5	0	1	1	0
120	36.6	1	1	1	0

120 FT (36.6M)
BOOM SHOWN

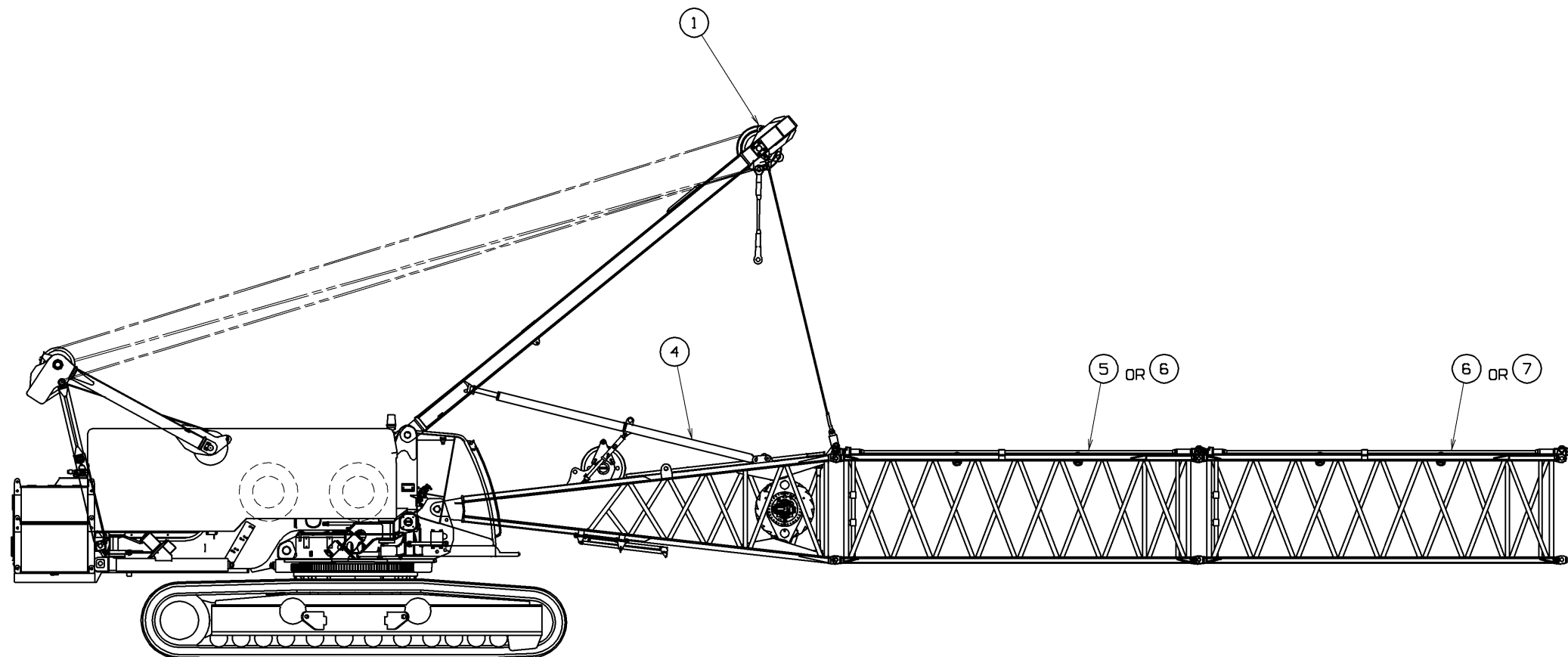


MAST LINK USAGE
SEE ALSO TABLE 1

- SEE CHART FOR NO. REQ'D.
- MAXIMUM NO. OF 10 FT (3.05 M) INSERT ASSEMBLIES = 1.
- MAXIMUM NO. OF 20 FT (6.10 M) INSERT ASSEMBLIES = 2.
- SEE ① AND ②.
- SEE ① AND ③.
- STARTING WITH BOOM BUTT ASSEMBLY, INSERT ASSEMBLIES MUST BE INSTALLED IN ASCENDING LENGTH.
- JIB AND UPPER BOOM POINT CANNOT BE USED WITH THIS ASSEMBLY
- LINK (ITEM R25) ATTACHED TO MAST TOP PENDANT IS CALLED FOR ON BOOM BUTT ASSY (ITEM 4).
- ON DWG A03150
- ON DWG A03602

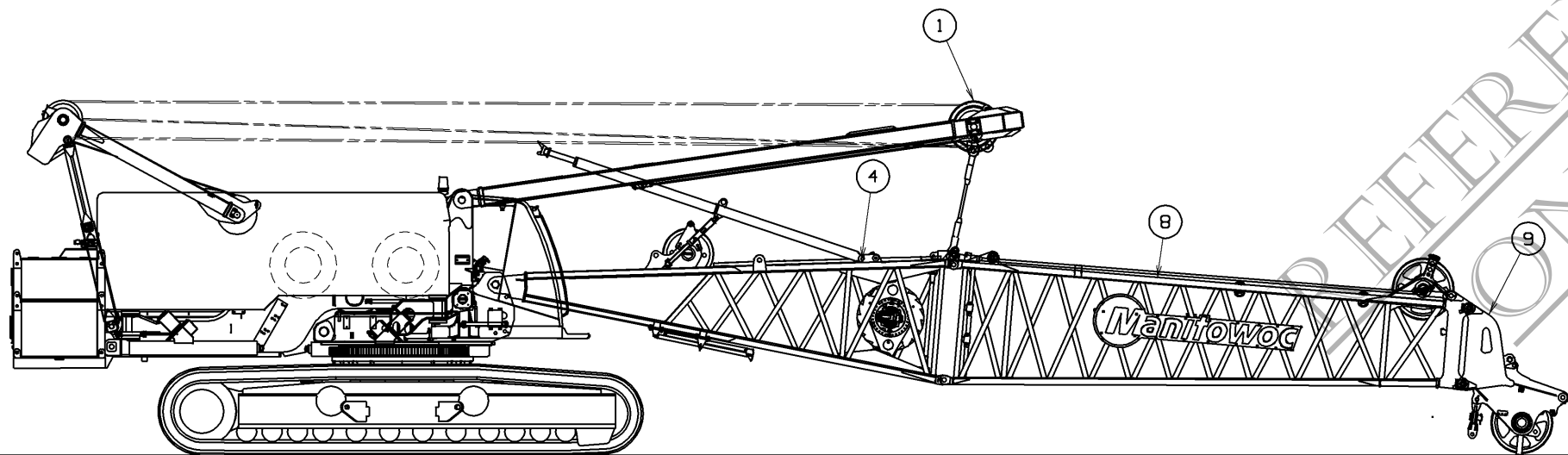
25 FT (7.62M) TRAN INSERT ASSY		
8	1	TRANSITION INSERT ASSEMBLY #83 A00143
R38	1	BEARING LOCKWASHER 225100
R39	2	BEARING LOCKNUT A01427
R32	4	BOLT CARRIAGE .625 244134
R40	20	SCREW MACHINE 5/16-18 X 1-1/4 254555
R41	20	NUT HEX .3125-18 ZC 546053
R5	8	NUT HEX .625-11 546058
R42	4	NUT HEX JAM 2-12 546281
R27	4	PIN COTTER .250 X 1.50 562105
R43	4	PIN COTTER .250 X 1.75 562108
R28	8	PIN COTTER .375 X 4.00 562152
R8	4	PIN COTTER .500 X 4.00 562172
R9	2	PIN SNAP .25 DIA X 1.75 563823
R44	4	SCREW CAP HEX HEAD .625 612691
R45	8	SCREW CAP HEX HEAD .875 613947
R46	20	WASHER LOCK .3125 710303
R17	4	WASHER LOCK .625 710307
R47	1	INSERT TRANSITION 25 FT #83 A00144
R30	4	PIN COTTER 2 HOLE 2.75 DIA X 7.75 A00158
R48	1	GUARD WIRE ROPE A00490
R49	1	SLEEVE 9.00 OD X 6.25 ID A00491
R50	1	SHAFT 6.75 OD X 4.75 ID X 30.00 A00494
R51	4	LOCK PLATE A00495
R52	4	SLEEVE TAPER PIN A00496
R53	4	CLAMP A00497
R54	4	PIN THREADED 3.50 DIA X 6.88 A00498
R55	1	PIN 2 HOLE 1.00 OD X 11.00 A00523
R56	2	PIN 2 HOLE .75 DIA X 6.50 A00524
R57	1	TIMBER 4.00 X 3.00 X 68.00 A00525
R58	4	PLATE KEEPER .50 THK A00526
R59	2	PENDANT A0186710
R60	2	PIN COTTER 2 HOLE 2.75 DIA X 7.25 A02141
R61	2	SIGN BOOM MANITOWOC 81008829
R31	2	PIN COTTER 2 HOLE .75 DIA X 10.25 A02757
R90	4	NUT LOCK NE 0.625-11 548345
R91	4	WASHER FLAT 0.625,0.108 ZC 709480
OPTION 1 (38mm WIRE ROPE)		
R65	2	SHEAVE WIRE ROPE ASSY 1.50 ROPE A00492
R89	2	SPACER TUBE 9.00 OD X 8.00 ID A02829
OPTION 2 (TIMBERS FOR DUTY CYCLE)		
R98	4	TIMBER 193273
R99	16	NUT LOCK NE .4375-14 548352
R100	32	WASHER FLAT .4375 709746
R101	16	SCREW CAP HEX HEAD .4375 A10539
R102	8	CLAMP TUBE 2.75 A10540
3 FT (0.91M) TOP ASSEMBLY		
9	1	TOP 3 FT ASSEMBLY A15442
R66	1	PIN COTTER 1 HOLE W/HD 3.00 DIA 163064
R38	1	BEARING LOCKWASHER 225100
R39	2	BEARING LOCKNUT 225101
R67	1	PIN COTTER .50 X 4.50 562174
R83	4	PIN COTTER .375 X 3.50 562151
R69	1	PIN HITCH .375 DIA 563822
R70	4	SCREW CAP HEX HEAD .875 612768
R71	4	WASHER LOCK .875 710309
R72	1	TOP 3FT MACHINING A15439
R73	2	PIN COTTER 2 HOLE 2.00 DIA A02145
R74	1	SHAFT 8.00 DIA X 34.88 A02146
R75	2	SPACER TUBE 8.755 OD X 8.00 ID A02738
R76	2	PLATE KEEPER .625 THK A02739
R77	1	PIN COTTER 1 HOLE W/HD 2.28 DIA A02766
R78	1	LINK #83 BOOM 38 MM ROPE A02772
OPTION 1 (38mm WIRE ROPE)		
R85	1	STEEL WASHER .125 012535
R86	1	WEDGE 1.50 DIA ROPE 015828
R87	1	OPEN WEDGE SOCKET 1.50 DIA ROPE 015865
R88	1	CLIP 1.50 WIRE ROPE 349295
R65	2	SHEAVE WIRE ROPE ASSY 1.50 ROPE A15303
R89	2	SPACER TUBE 9.00 OD X 8.00 ID A02829

BILL OF MATERIAL					ASSEMBLIES USED ON
ITEM NO. (NO. IN QTY.)	QTY.	DESCRIPTION	UNIT	MATERIAL	
BOOM RIGGING ASSEMBLY					
1	1	MAST ASSEMBLY		A00009	
2					
3					
BOOM BUTT ASSEMBLY					
4	1	BUTT 22 FT ASSEMBLY BOOM		A00139	REVISIONS
R1	2	PIN COTTER 2 HOLE 2.75 DIA X 6.50		167075	
R2	1	BOOM ANGLE INDICATOR ASSY		168779	
R3	2	PIN COTTER 1 HOLE W/HD		172415	05-24-06 TMD A) ADDED S/N 10151002 05-25-06 JST B) WAS A00131 C) WAS A00132 D) ADDED OPT. E) DELETED
R4	7	NUT HEX .375		546054	
R5	16	NUT HEX .625		546058	
R6	2	NUT LOCK NE .5-13		548344	06-10-10 JAS UPDATED BOOM SIGN
R7	2	PAD BEARING 3.00 X 3.00 X 1.00		554175	
R8	8	PIN COTTER .50 X 4.00		562172	
R9	2	PIN SNAP .25 DIA		563823	
R10	4	SCREW CAP HEX HEAD .375		612454	
R11	14	SCREW CAP HEX HEAD .625		612661	
R12	2	SCREW CAP HEX HEAD .625		612663	
R13	2	SCREW CAP SOCKET FLAT HEAD		614003	
R14	4	WASHER FLAT .375		709703	
R15	16	WASHER FLAT .625		709747	
R16	7	WASHER LOCK .375		710304	
R17	16	WASHER LOCK .625		710307	
R18	3	SCREW CAP SOCKET BUTTON HEAD .375		970491	
R19	1	BUTT 22 FT #83 BOOM		A00140	
R20	2	BOOM STOP ASSEMBLY #83 BOOM		A00149	
R21	1	LACING REMOVABLE		A00796	
R22	1	FLOOR ASSEMBLY RIGHT PANEL		A00853	
R23	1	FLOOR ASSEMBLY TOP PANEL		A00854	
R24	1	FLOOR ASSEMBLY LEFT PANEL		A00855	
R25	2	LINK		A03459	
R92	2	LINK BOOM HANDLING		A08027	
R93	2	PIN COTTER 2 HOLE 2.75 DIA X 3.75		A08032	
OPTION 1 (WIRE ROPE GUARD)					
R94	4	BOLT CARRIAGE .625-11		244136	
R5	8	NUT HEX .625		546058	
R12	4	SCREW CAP HEX HEAD .625		612663	
R15	8	WASHER FLAT .625		709747	
R17	8	WASHER LOCK .625		710307	
R95	2	GUARD WIRE ROPE ASSEMBLY		A08064	
R96	1	TIMBER		A08174	
R97	2	PLATE .25		A08188	
10 FT (3.05M) INSERT ASSEMBLY					
5		INSERT 10 FT ASSEMBLY #83		A00135	
R26	2	PENDANT		277382	
R27	4	PIN COTTER .25 X 1.50		562105	
R28	8	PIN COTTER .375 X 4.00		562152	
R29	1	INSERT 10FT #83		A00136	
R30	4	PIN 2 HOLE 2.75 DIA X 7.75		A00158	
R31	2	PIN 2 HOLE .75 DIA X 10.25		A02757	
OPTION 1 (TIMBERS FOR DUTY CYCLE)					
R98	2	TIMBER		193273	
R99	8	NUT LOCK NE .4375-14		548352	
R100	16	WASHER FLAT .4375		709746	DATE: NO A15438 SHT 1 OF 3
R101	8	SCREW CAP HEX HEAD .4375		A10539	
R102	4	CLAMP TUBE 2.75		A10540	
20 FT (6.10M) INSERT ASSEMBLY					
6		INSERT 20 FT ASSEMBLY #83		A00133	
R32	4	BOLT CARRIAGE .625-11		244134	
R33	2	PENDANT		277383	
R90	4	NUT LOCK NE 0.625-11		548345	
R27	4	PIN COTTER .250 X 1.50		562105	
R28	8	PIN COTTER .375 X 4.00		562152	
R91	4	WASHER FLAT 0.625,0.108 ZC		709480	
R34	1	INSERT 20FT. #83		A00134	
R30	4	PIN COTTER 2 HOLE 2.75 X 7.75		A00158	
R35	1	TIMBER 4.00 X 3.0 X 75.00 LG		A00194	
R31	2	PIN 2 HOLE .75 DIA X 10.25 LG		A02757	
OPTION 1 (TIMBERS FOR DUTY CYCLE)					
R98	3	TIMBER		193273	
R99	12	NUT LOCK NE .4375-14		548352	
R100	24	WASHER FLAT .4375		709746	
R101	12	SCREW CAP HEX HEAD .4375		A10539	
R102	6	CLAMP TUBE 2.75		A10540	
40 FT (12.19M) INSERT ASSY					
7		INSERT 40 FT ASSEMBLY #83 HEAVY		A10123	
R32	8	BOLT CARRIAGE .625-11		244134	
R36	2	PENDANT		277384	
R90	8	NUT LOCK NE 0.625-11		548345	
R27	8	PIN COTTER .250 X 1.50		562105	
R28	8	PIN COTTER .375 X 4.00		562152	
R91	8	WASHER FLAT 0.625,0.108 ZC		709480	
R37	1	INSERT 40FT #83 HEAVY		A10124	
R30	4	PIN COTTER 2 HOLE 2.75 X 7.75		A00158	
R35	2	TIMBER 4.00 X 3.00 X 75.00 LG		A00194	
R31	4	PIN 2 HOLE .75 DIA X 10.25 LG		A02757	
OPTION 1 (TIMBERS FOR DUTY CYCLE)					
R98	7	TIMBER		193273	
R99	28	NUT LOCK NE .4375-14		548352	
R100	56	WASHER FLAT .4375		709746	
R101	28	SCREW CAP HEX HEAD .4375		A10539	PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 6629103794 FOR COMPONENTS LISTED IN 6629103794-06-026 DATE 12-12-05 PARTIAL NO. Manitowoc Cranes, Inc. Manitowoc, Wisconsin BOOM ASSEMBLY #83 BOOM WITH 48 INCH SHEAVES DATE 12-12-05 PARTIAL NO. Manitowoc Cranes, Inc. Manitowoc, Wisconsin BOOM ASSEMBLY #83 BOOM WITH 48 INCH SHEAVES DATE 12-12-05 PARTIAL NO. Manitowoc Cranes, Inc. Manitowoc, Wisconsin BOOM ASSEMBLY #83 BOOM WITH 48 INCH SHEAVES DATE 12-12-05 PARTIAL NO.
R102	14	CLAMP TUBE 2.75		A10540	
SPECIAL FOR S/N 10151003 FOR IPC 800268 10161002					
SCALE: ---					
DR: JDC	Manitowoc Cranes, Inc.			BOOM ASSEMBLY	
CK: JST	Manitowoc, Wisconsin			#83 BOOM	
APP: TSC	MODEL 1015			WITH 48 INCH SHEAVES	
DATE 12-12-05					
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DATE 12-12-05					
PARTIAL NO.					
Manitowoc Cranes, Inc.					
Manitowoc, Wisconsin					
BOOM ASSEMBLY					



BOOM HANDLING WITH MAST

BOOM HANDLING WITH MAST WITH MAST PENDANT ATTACHED TO BOOM MAXIMUM BOOM THAT CAN BE CANTILEVERED IS AS FOLLOWS:			
LENGTH	10 FT. (3.05 M) INSERT	20 FT. (6.10 M) INSERT	40 FT. (12.2 M) INSERT
40 FT. (12.2 M)	0	0	1
50 FT. (15.2 M)	1	0	1
60 FT. (18.3 M)	0	1	1
70 FT. (21.3 M)	1	1	1



CONNECTING OR DISCONNECTING
MAST AND INSERT PENDANTS