

RECOMMENDED FOR VARIOUS BOOM LENGTHS

DWG NO.	182927-2	190377-2	16277-2 DWG # 16277	16276-2 DWG # 16276	16275-2 DWG # 16275	144099
BOOM LENGTH	20 FT INSERT	40 FT INSERT	PENDANT 90 FT 3	PENDANT 109 FT 6	PENDANT 129 FT 0	WIRE ROPE ROLLER GUIDE ASSY
100 FT BASIC	0 FT OF INSERTS	4	0	0	0	1
120 FT	20 FT OF INSERTS	0	4	0	0	2
140 FT	40 FT OF INSERTS	0	0	4	0	3

TORQUE BOOM JOINT BOLTS TO THE FOLLOWING VALUES USING SAE #20 OIL

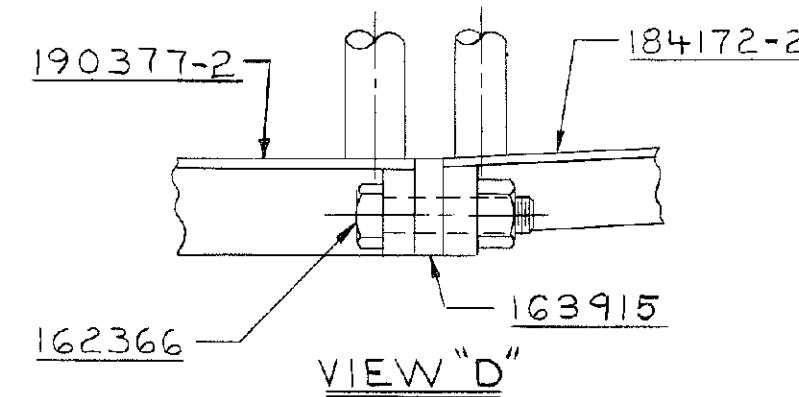
1 3/4 IN. DIA.	2100 FT.-LBS
2 IN DIA.	2100 FT.-LBS

BILL OF MATERIAL

ITEM NO.	QTY	DESCRIPTION	UNIT	MATERIAL	CODE NO.	REMARKS
1	1	16281	PIN			
2	1	160986	LINK			
4	1	17749	PENDANT TIE BAR			
2	1	22656	BOOM SIGN			
1	1	49043	MAST RIGGING ASSEMBLY			
1	1	65993-2	BOOM BUTT (40 FT 0)			
1	1	66022	BOOM TOP (40 FT 0)			
2	1	74222	LINK			
1	1	77314	WIRE ROPE ROLLER GUIDE ASSEMBLY			
2	1	160985	PENDANT STRAP			
1	1	96155	BOOM POINT SHAFT ASSEMBLY-1 SHEAVE 47 DIA - 1 3/8 ROPE			
1	1	97688	WIRE ROPE GUIDE ASSEMBLY			SEE NOTE 1
1	1	184172-2	20 FT TAPERED INSERT			
1	1	97127	WIRE ROPE GUARD FOR ROLLER GUIDE			UPPER
1	1	146683	WIRE ROPE GUARD ASSEMBLY			

REVISIONS

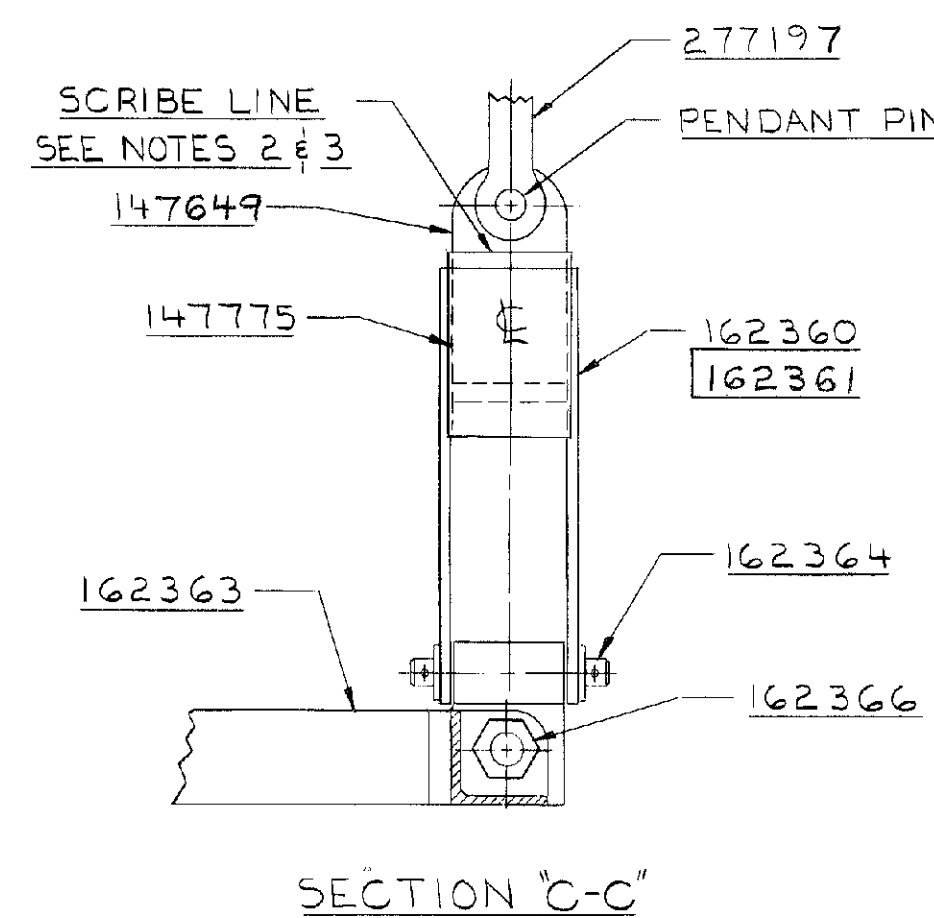
8-30-83 JHS
 (A) REVISED
 PRIOR TO MFR
 9-9-83 JHS
 (B) RELOCATED
 PARTS LIST
 1-9-84 SPS
 (C) ADDED
 6-17-86 LS
 (D) WAS 162362



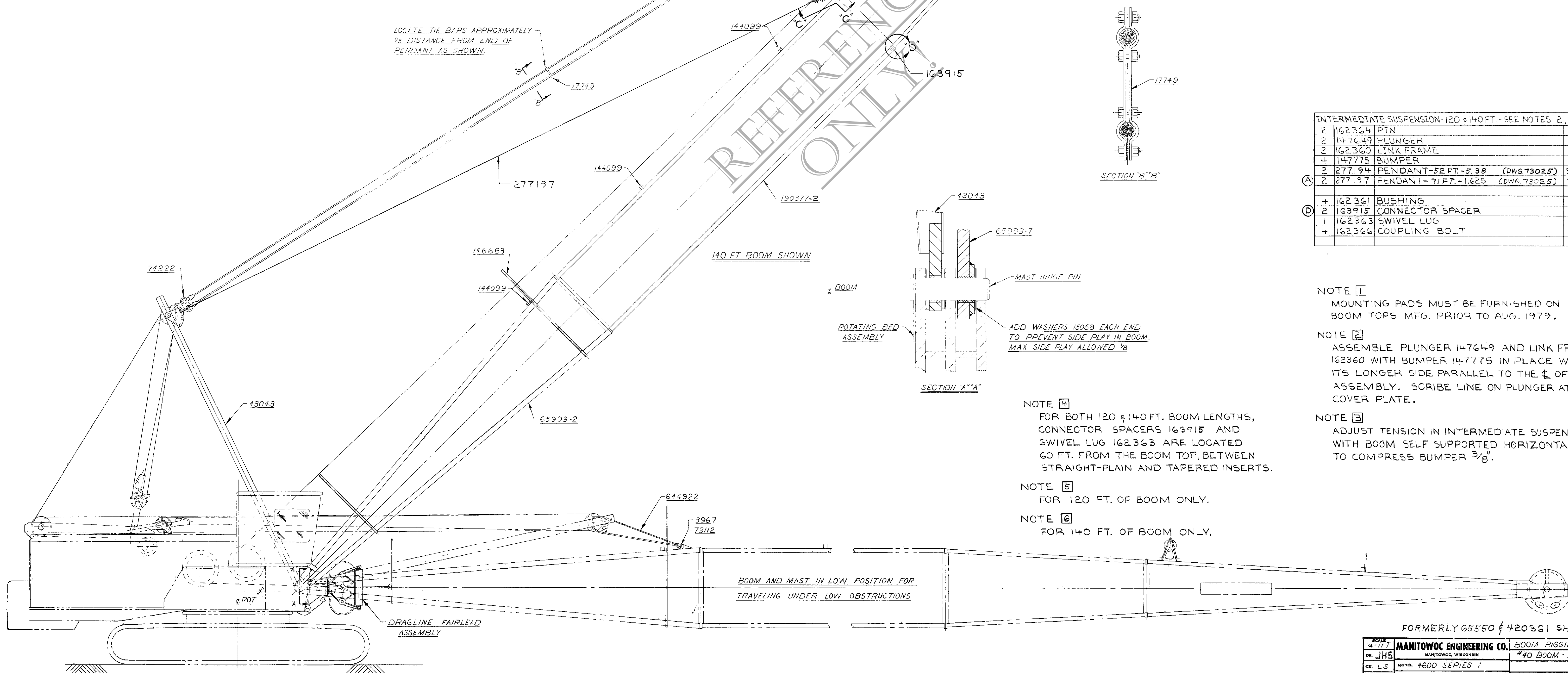
182927-2 PLAIN INSERT.
 190377-2 PLAIN INSERT.

OPTIONAL PARTS

NO.	DWG NO.	DESCRIPTION	REMARKS
2	3967	FLAT WASHER	
2	73112	PIN	
1	98637	UNIVERSAL ANCHOR JOINT ASSY.	SINGLE HANGER
2	644922	SLING - 20 FT. 0 LONG	DWG. 73111
1	163220	BOOM POINT SHAFT ASSEM. (1 SHEAVE)	PERMA-LUBE HYDRA 1 3/8 ROPE



LOCATE TIE BARS APPROXIMATELY 1/3 DISTANCE FROM END OF PENDANT AS SHOWN.



100 FT BASIC BOOM

NO.	DWG NO.	DESCRIPTION	REMARKS
2	15058	WASHER	
2	16281	PIN	
2	160986	LINK	
4	17749	PENDANT TIE BAR	
2	22656	BOOM SIGN	
1	49043	MAST RIGGING ASSEMBLY	
1	65993-2	BOOM BUTT (40 FT 0)	
1	66022	BOOM TOP (40 FT 0)	
2	74222	LINK	
1	77314	WIRE ROPE ROLLER GUIDE ASSEMBLY	
2	160985	PENDANT STRAP	
1	96155	BOOM POINT SHAFT ASSEMBLY-1 SHEAVE 47 DIA - 1 3/8 ROPE	
1	97688	WIRE ROPE GUIDE ASSEMBLY	SEE NOTE 1
1	184172-2	20 FT TAPERED INSERT	
1	97127	WIRE ROPE GUARD FOR ROLLER GUIDE	UPPER
1	146683	WIRE ROPE GUARD ASSEMBLY	

INTERMEDIATE SUSPENSION-120 & 140 FT-SEE NOTES 2, 3 & 4

2	162364	PIN	
2	147649	PLUNGER	
2	162360	LINK FRAME	
4	147775	BUMPER	
2	277194	PENDANT-52 FT.-5.38 (DWG. 73025)	SEE NOTE 5
2	277197	PENDANT-71 FT.-1.625 (DWG. 73025)	SEE NOTE 6
4	162361	BUSHING	
2	163915	CONNECTOR SPACER	
1	162363	SWIVEL LUG	
4	162366	COUPLING BOLT	

NOTE 1
 MOUNTING PADS MUST BE FURNISHED ON BOOM TOPS MFG. PRIOR TO AUG. 1979.

NOTE 2
 ASSEMBLE PLUNGER 147649 AND LINK FRAME 162360 WITH BUMPER 147775 IN PLACE WITH ITS LONGER SIDE PARALLEL TO THE ϕ OF THE ASSEMBLY. SCRIBE LINE ON PLUNGER AT COVER PLATE.

NOTE 3
 ADJUST TENSION IN INTERMEDIATE SUSPENSION WITH BOOM SELF SUPPORTED HORIZONTAL TO COMPRESS BUMPER 3/8".

NOTE 4
 FOR BOTH 120 & 140 FT. BOOM LENGTHS, CONNECTOR SPACERS 163915 AND SWIVEL LUG 162363 ARE LOCATED 60 FT. FROM THE BOOM TOP, BETWEEN STRAIGHT-PLAIN AND TAPERED INSERTS.

NOTE 5
 FOR 120 FT. OF BOOM ONLY.

NOTE 6
 FOR 140 FT. OF BOOM ONLY.

FORMERLY 65550 & 420361 SHT. 1

SCALE	1/4" = 1'-0"
DR.	JHS
CHK.	LS
APP.	
MANITOWOC ENGINEERING CO.	BOOM RIGGING ASSEMBLY
MANITOWOC, WISCONSIN	40 BOOM - DRAGLINE
MODEL	4600 SERIES 1
PATTERN NO.	66234
DWG. NO.	66234

DATE

8-3-83

PATTERN NO.

66234

DWG. NO.

66234