

REQUIRED FOR VARIOUS JIB ANGLES					
ITEM NO.	202	200	201	203	R200
JIB ANGLE	PENDANT 1 1/2' M (4 FT-8.0)	LINK	PIN	PIN COTTER	 PENDANT PIN
5°	0	0	0	0	2
15°	0	2	2	2	2
25°	2	0	0	0	4

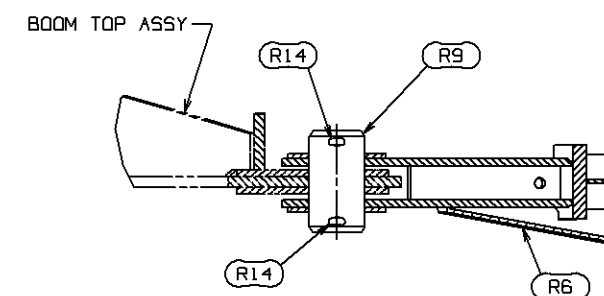
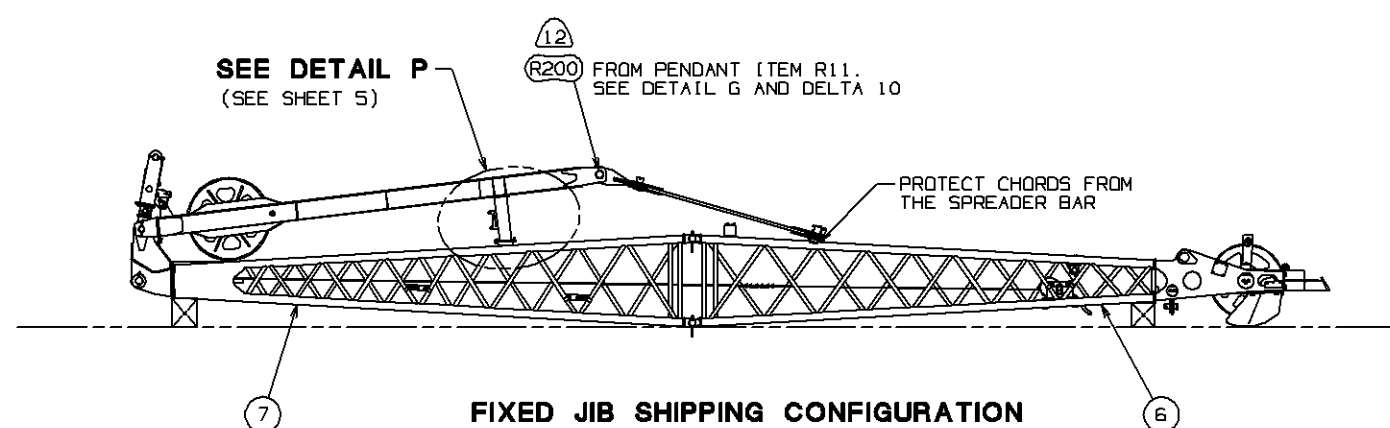


- C3 B4 ① MLC150-1 MINIMUM BOOM LENGTH REQUIRED FOR JIB = 88.6FT
 MLC200 MINIMUM BOOM LENGTH REQUIRED FOR JIB = 27.4M (90.0FT)
 MLC200 MINIMUM BOOM LENGTH REQUIRED FOR JIB = 32.0M (105.0FT)
- ② INSERTS AND CORRESPONDING PENDANTS MUST BE INSTALLED
 IN ORDER OF CORRESPONDING LENGTH STARTING AT JIB BUTT.
 PENDANTS MUST BE INSTALLED IN MATCHED SETS.
 SEE SHEET 2 FOR JIB/JIB PENDANT MAKE-UP.
- ③ SEE SHEET 3 FOR FIXED JIB SHIPPING CONFIGURATION.
- ④ ON DRAWING A02422
- ⑤ ON DRAWING A02308
- ⑥ TOP 15 FT (4.57 M) I.D. TAG #A01810.
- ⑦ INSERT 10 FT (3.05 M) I.D. TAG #032938.
- ⑧ INSERT 20 FT (6.10 M) I.D. TAG #176938.
- ⑨ BUTT 15 FT (4.57 M) I.D. TAG #177054.
- ⑩ ITEM R7 REPLACES PENDANT (ITEM R11) SUPPLIED PIN.
 THE PENDANT PIN IS REUSED /RELOCATED TO STOW THE
 SPREADER (ITEM R22) FOR SHIPPING. (SEE FIXED JIB
 SHIPPING CONFIGURATION ON SHEET 3).
 THIS PENDANT PIN IS NOT INCLUDED IN THE JIB
 ANGLE TABLE (SHEET 1) AS ITEM R200.
- ⑪ RELOCATE FROM MAIN BOOM.
- ⑫ FOR REPLACEMENT INFO ONLY.
 PENDANT PINS ARE FURNISHED WITH PENDANT.
- ⑬ LOCATE PIN HEAD TOWARD OUTSIDE OF JIB.
- ⑭ USE ADAPTER 196135 FROM OPTION 2 ON TOP ASSY
 80117865 (ITEM 6).
- C4 B5 ⑮ MLC150-1 - STOWS IN PARTS BOX 80124069
 MLC250 - STOWS IN PARTS BOX 80137468
 MLC200 - STOWS IN PARTS BOX 80150286
- ⑯ SEE DETAIL H ON SHEET 4.
- C5 B6 ⑰ FULL TITLE DESCRIPTION:
 JIB NO. 134 ON B10:350
 JIB NO. 134 ON B10:82A
 JIB NO. 134 ON B10:76A
- C6 ⑱ FRAME ASSY (R24) MUST BE USED ON THE MLC150-1.
 SHIP WITH UPPER PIN IN SHIPPING POSITION PIN HOLE TO
 RAISE UP OFF LACING AS NOTED IN DETAIL P ON SHEET 5.
- C7 ⑲ GUIDE WIRE ROPE SUBSSEMBLY (R10) MUST BE USED
 ON THE MLC200 AND THE MLC200

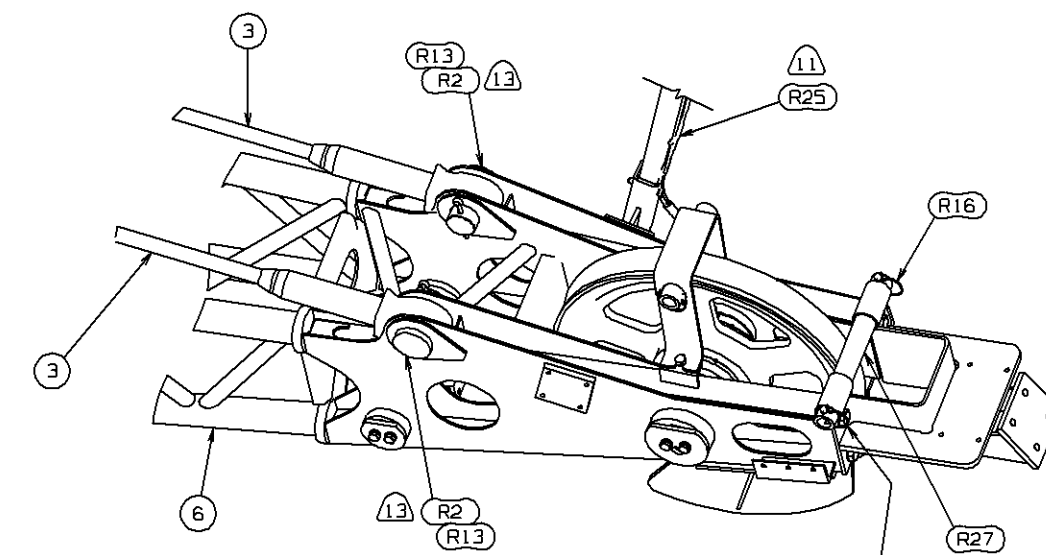
BILL OF MATERIAL							ASSEMBLY USED ON
ITEM NO. (ITEM NO.)	SEC. ITEM	DESCRIPTION	LENGTH (IN.)	MATERIAL	QTY. (OF DES. NO.)	NO.	
JIB RIGGING JIB NO. 134							80117472 80128049 80142291
1	2	PIN 2 HOLE 2.00 DIA X 2.59 LG		073045			
2	2	LINK		177299			
3	2	PENDANT 30 FT-9.00 (9.37 M)		277430	4		
4	4	PIN COTTER 3/8 DIA X 3.00 LG		562150			
5							
6	1	TOP ASSY #134		80117865	6		
7	1	FIXED JIB #134 BUTT ASSY		80118524	3		
8							
NO. REQ'D FOR THE FOLLOWING ITEMS ARE IN THE JIB LENGTH TABLE							
100		PENDANT 9 FT-6.00 (2.89 M)		276729	4		
101		PENDANT 19 FT-0.00 (5.79 M)		277422	4		
102							
103		INSERT ASSY #134 10FT		80117866	6		
104		INSERT ASSY #134 20FT		80117867	8		
105							
NO. REQ'D FOR THE FOLLOWING ITEMS ARE IN THE JIB ANGLE TABLE							
200		LINK		177298			
201		PIN 1 HOLE W/HD 2.25 X 3.17 LG		177302			
202		PENDANT 4 FT-8.00 (1.42 M)		277431	4		
203		PIN COTTER 3/8 DIA X 3.50 LG		562151			
204							
OPTIONAL PARTS FOR BLOCK HOOK AND WEDGE/BUTTON SOCKET AND ADAPTER (16)							
300	1	BLOCK 30 MTON 1 SHEAVE		80120391			
301	1	OVERHAUL BALL 15 MTON		80120392			
302							
303	1	WEDGE SOCKET		646246	15		
304	1	SOCKET BASIC 22-26MM WIRE ROPE		A11041	15		
BASIC REFERENCE ITEMS							
R1	2	PIN 2 HOLE 1.00 DIA X 1.72 LG		070846			
R2	2	PIN 1 HOLE W/HD 2.25 DIA X 3.55 LG		075052	13		
R3							
R4	2	PIN 2 HOLE 2.00 DIA X 3.35 LG		166901			
R5	2	PIN 2 HOLE 2.00 DIA X 4.69 LG		170851			
R6	1	BUTT JIB 15 FT #134		177054	9		
R7	2	PIN 1 HOLE W/HD 2.25 DIA X 4.80 LG		177303	10		
R8	2	PIN 2 HOLE 1.75 DIA X 2.72 LG		177367			
R9	2	PIN 2 HOLE 2.50 DIA X 3.22 LG		177397			
R10	1	GUIDE WIRE ROPE SUBASSEMBLY		179389	19		
R11	2	PENDANT #134 JIB BACKSTAY BASIC		277432	5		
R12							
R13	2	PIN COTTER 3/8 DIA X 3.50 LG		562151			
R14	8	PIN COTTER 3/8 DIA X 4.00 LG		562152			
R15	4	PIN COTTER 1/2 DIA X 3.50 LG		562171			
R16	10	PIN SAFETY .25X1.75 LG		563823			
R17	2	PIN SAFETY .375X2.25 LG		563871			
R18							
R19	1	SHACKLE ANCHOR ROUND PIN .250 GALV		624631			
R20							
R21	1	STRUT ASSY #134 JIB		80117864			
R22	1	SPREADER FRAME ASSY #134 JIB		80118012			
R23	1	STOP ASSY #134 JIB		80118515			
R24	1	FRAME ASSY		80155250	18		
R25	1	ESI POSITION LIGHT AND ANEMOMETER		81031642	11		
R26							
R27	1	GUARD WIRE ROPE 1.63 OD X .281 W X 14.25 LG		A02370			
R28							
NO. REQ'D FOR THE FOLLOWING REFERENCE ITEMS ARE IN THE JIB LENGTH TABLE							
R100		PIN 1 HOLE W/HD 1.38 DIA X 2.48 LG		076225	13		
R101		PIN COTTER 3/8 DIA X 6.00 LG		562158			
R102							
R103		PIN 1 HOLE W/HD 2.25 DIA X 4.66 LG		546097	12		
R104							
NO. REQ'D FOR THE FOLLOWING REFERENCE ITEMS ARE IN THE JIB ANGLE TABLE							
R200		PIN 1 HOLE W/HD 2.25 DIA X 4.66 LG		546097	12		
R201							

REV. NO.	
80117866	
SHT 1 OF 5	

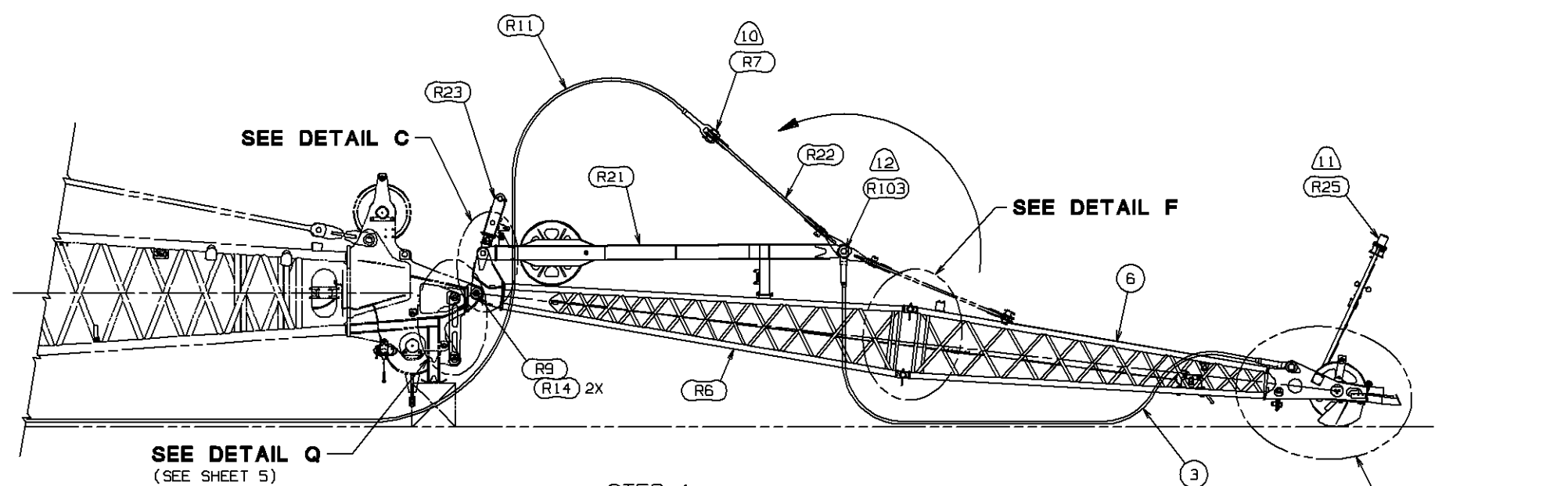
PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
6829103794 FOR
COMPONENTS LISTED
IN GDS500-05-039



SECTION D-D
JIB BUTT (R6) HINGE PIN (R9) TO BOOM TOP
SCALE 0.250



DETAIL E
SCALE 0.150



STEP 1

JIB TO BOOM TOP ASSEMBLY AND FRONTSTAY & BACKSTAY PENDANT INSTALLATION

PREP BOOM TOP WITH GUIDE WIRE ROPE ASSY (R10 OR R24) PER DETAIL Q ON SHEET 5.

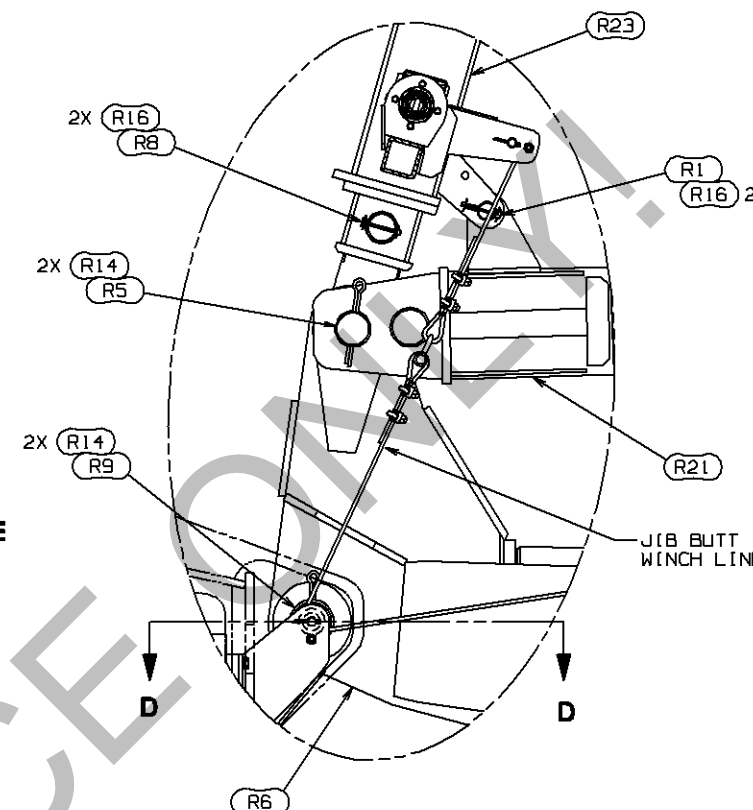
RIG BOOM PER MAIN BOOM RIGGING DRAWING (MLC150-1: 80117858) (MLC250: 80137888) (MLC200: 80149429).

TEMPORARILY REMOVE JIB HINGE HARDWARE (R9 & R14) FROM JIB BUTT ASSY (R6 OF ITEM 7). (SEE DETAIL C).
USING AN ASSIST ALIGN JIB BUTT ASSY (R6 OF ITEM 7) TO BLOCKED BOOM TOP AS SHOWN.
REINSTALL JIB HINGE HARDWARE (R9 & R14). (SEE DETAIL C).

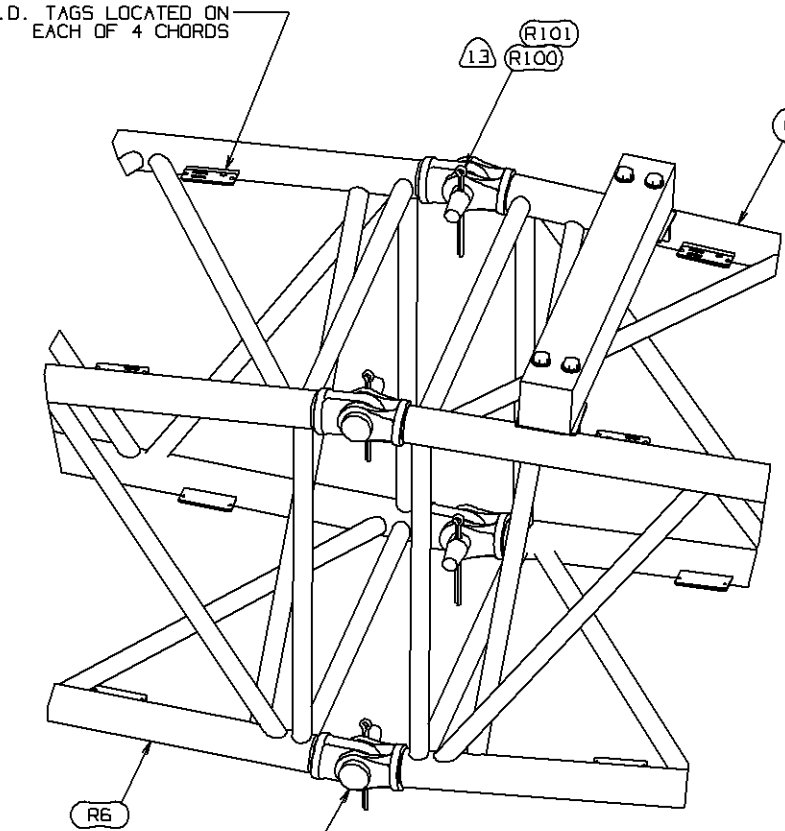
ASSEMBLE JIB INSERTS (ITEMS 103 AND 104) AND JIB TOP (ITEM 6) TO JIB BUTT ASSY (R6 OF ITEM 7) PER DESIRED JIB CONFIGURATION ON SHEET 2.
INSTALL UPPER AND LOWER CONNECTOR PINS (R100) AND COTTERS (R101). (SEE DETAIL F).

ATTACH FRONTSTAY PENDANT (ITEM 3) TO JIB TOP ASSY (ITEM 6) USING PIN (R2) AND COTTER (R13). (SEE DETAIL E).
PIN PENDANT TO PENDANT (SEE DETAIL B ON SHEET 1) PER DESIRED JIB LENGTH. (SEE JIB CONFIGURATION ON SHEET 2).
PIN REMAINING FREE END OF FRONTSTAY PENDANT TO STRUT (R21) AND SPREADER (R22) ASSEMBLY. (SEE DETAIL G).

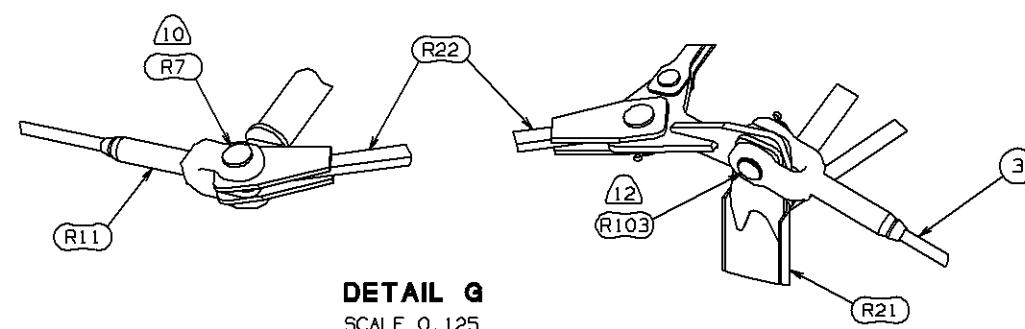
IF SHIPPED LOOSE, ATTACH BACKSTAY PENDANT (R11) TO SPREADER (R22) USING PIN (R7). (SEE DETAIL G).
WITH SPREADER (R22) ROTATED TOWARD BOOM TOP AS SHOWN, LAY BACKSTAY PENDANT (R11) ON GROUND ALONGSIDE BOOM.
IF JIB OFFSET IS TO BE 15° OR 25°, PIN REMAINING FREE END OF PENDANT (R11) TO EITHER LINK (ITEM 200) OR
PENDANT (ITEM 202). (SEE APPROPRIATE DETAIL A AND JIB ANGLE TABLE ON SHEET 1).



DETAIL C
SECTION AT JIB CENTERLINE
LOOKING TOWARDS FAR SIDE
SCALE 0.200

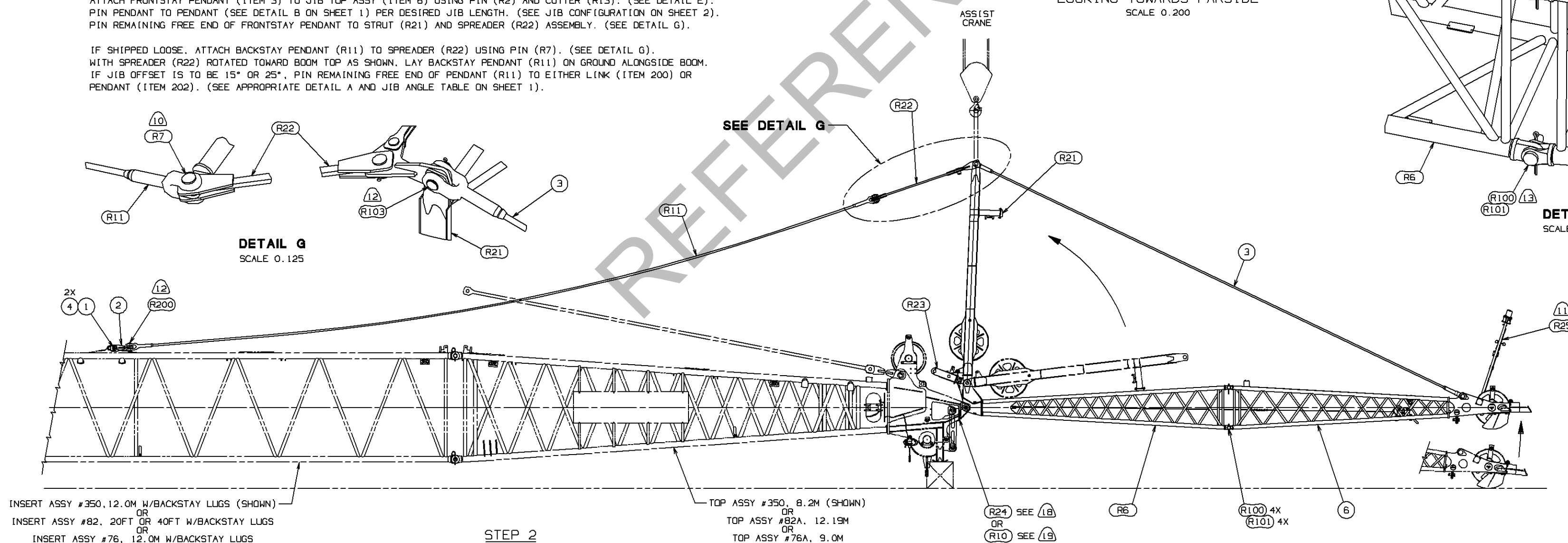


DETAIL F
SCALE 0.175



DETAIL G
SCALE 0.125

SEE DETAIL G



STEP 2

STRUT RAISING AND BACKSTAY PENDANT TO BOOM TOP

ATTACH BACKSTAY LINK (ITEM 2) TO BACKSTAY LUG ON BOOM 12M INSERT USING PIN (ITEM 1) AND COTTERS (ITEM 4). (SEE DETAIL A ON SHEET 1).

USING AN ASSIST SLOWLY LIFT STRUT (R21) TO ALLOW ATTACHMENT OF FREE END OF EITHER PENDANTS (R11 OR ITEM 202) OR LINK (ITEM 200) TO BACKSTAY LINK (ITEM 2).

NOTE:

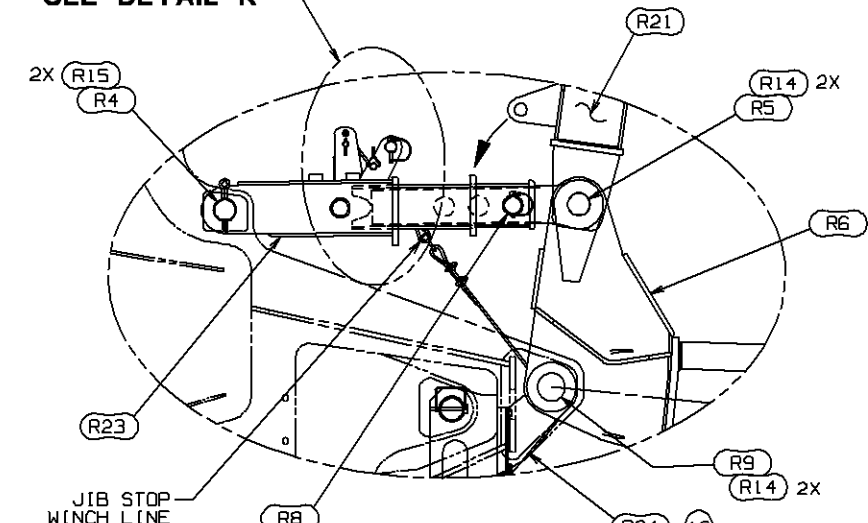
RAISE JIB POINT WITH ASSIST (FORK-LIFT TRUCK OR ANOTHER CRANE) AS REQUIRED TO GAIN SLACK TO ALLOW PINNING OF THE BACKSTAY PENDANTS.

PENDANTS (R11 OR ITEM 202) ATTACH USING PENDANT SUPPLIED PIN. LINK (ITEM 200) ATTACHES USING PIN (ITEM 201) AND COTTER (ITEM 203). (SEE DETAILS A ON SHEET 1).

CAUTION:

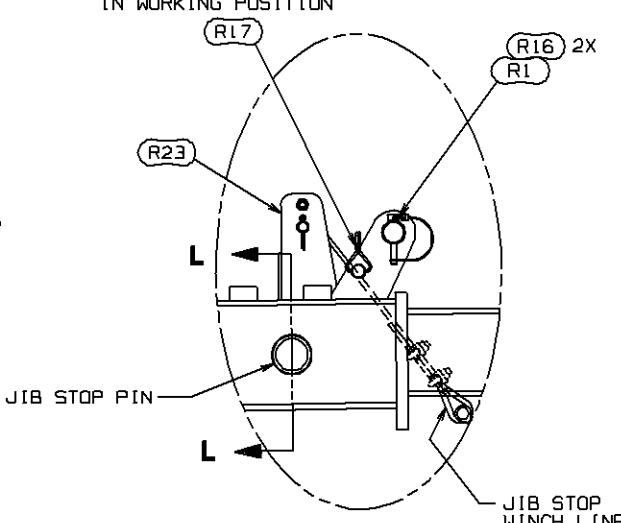
DO NOT SIDE LOAD STRUT WHILE LIFTING. DAMAGE TO STRUT MAY OCCUR.

SEE DETAIL K

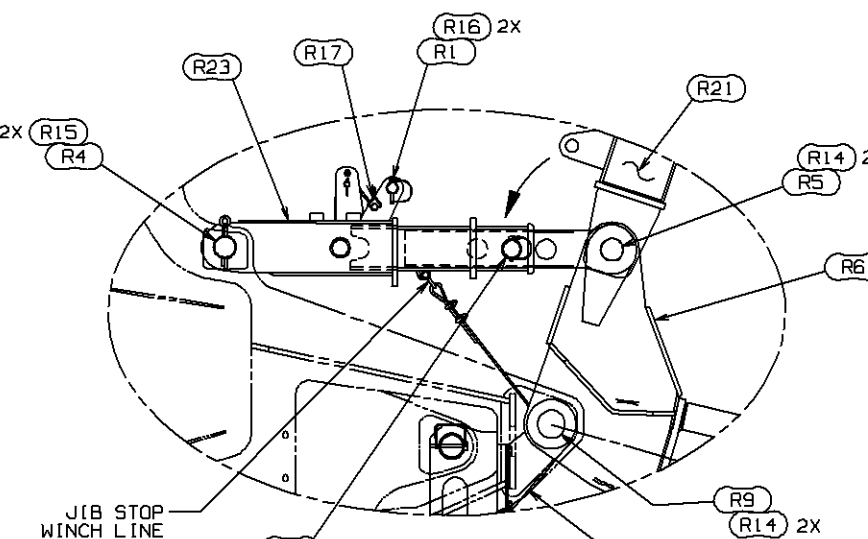


DETAIL J
5° JIB ANGLE
SCALE 0.125

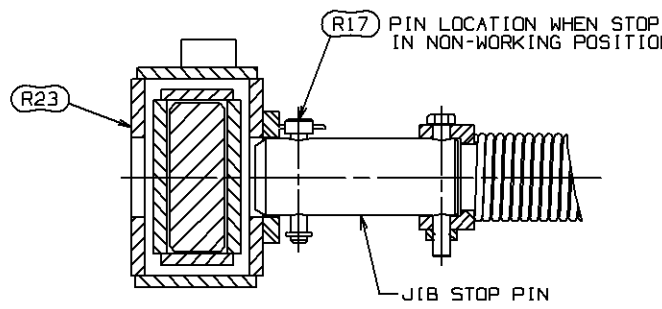
PIN LOCATION WHEN STOP
IN WORKING POSITION



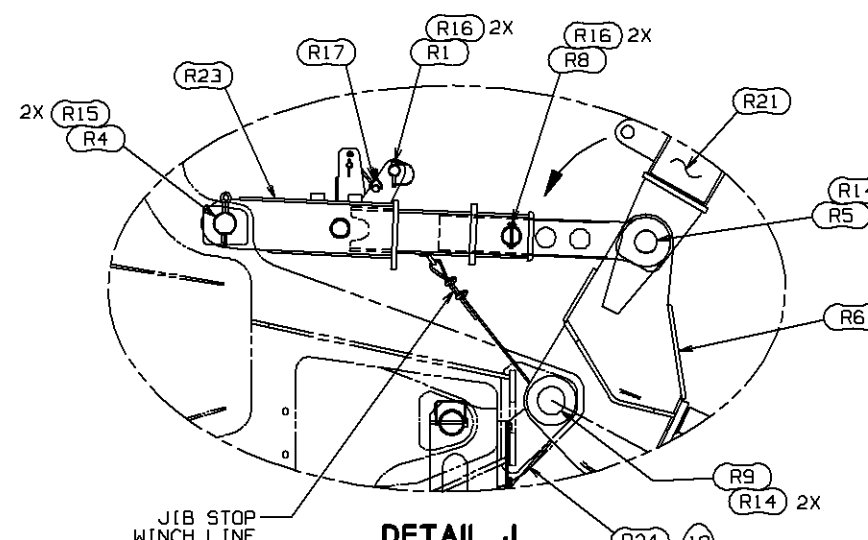
DETAIL K
SCALE 0.250



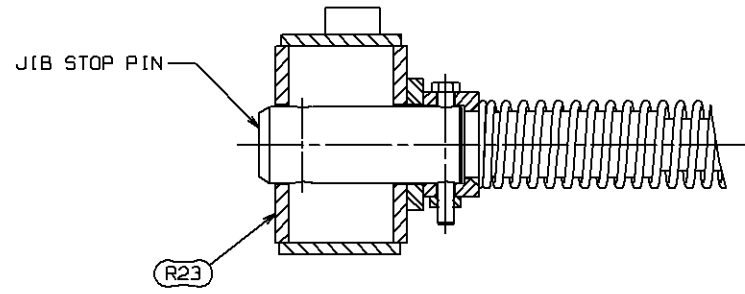
DETAIL J
15° JIB ANGLE
SCALE 0.125



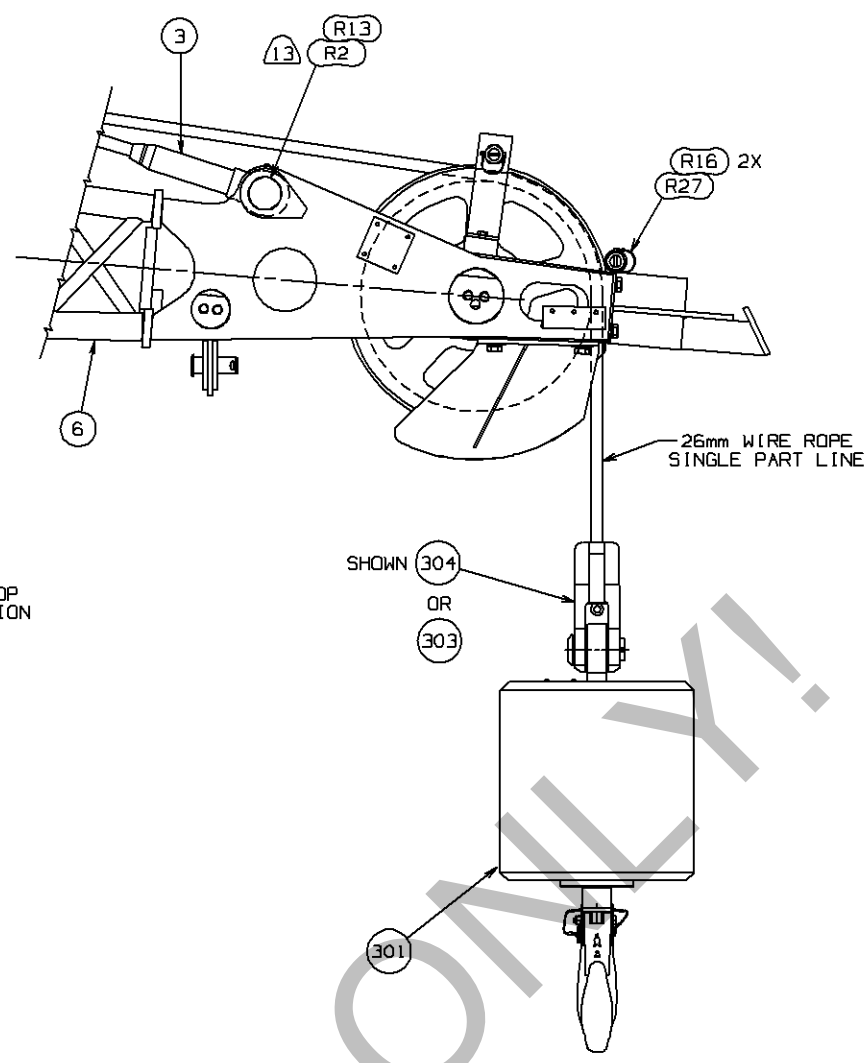
DETAIL L
JIB STOP PIN DISENGAGED
SCALE 0.500



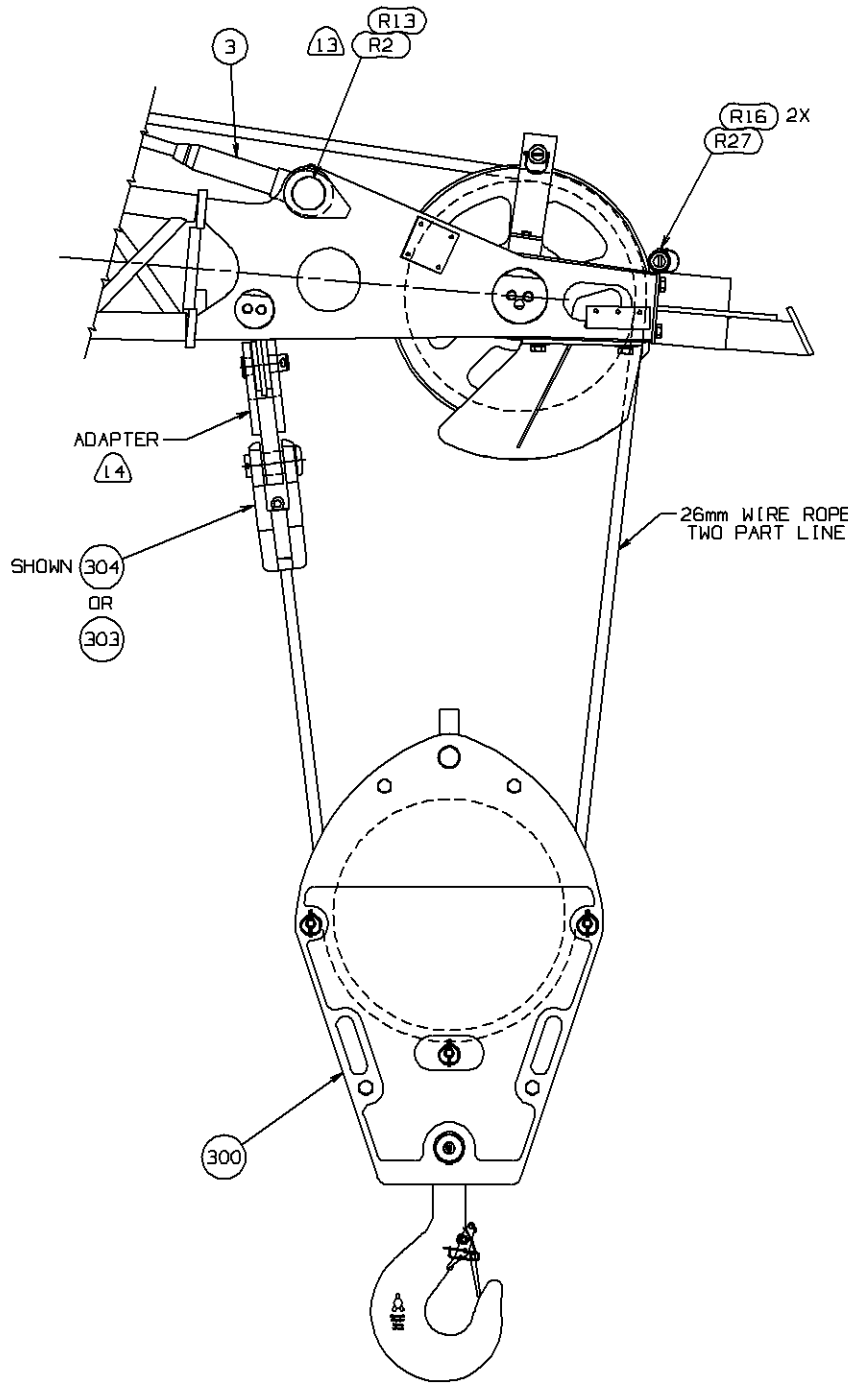
DETAIL J
25° JIB ANGLE
SCALE 0.125



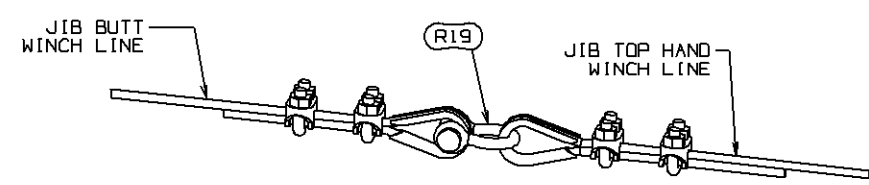
DETAIL L
JIB STOP PIN ENGAGED
W/ITEM R17 RELOCATED
TO STOWAGE POSITION
SCALE 0.500



DETAIL H
SINGLE PART LINE
WITH BUTTON SOCKET
(FROM SHEET 1)
SCALE 0.125



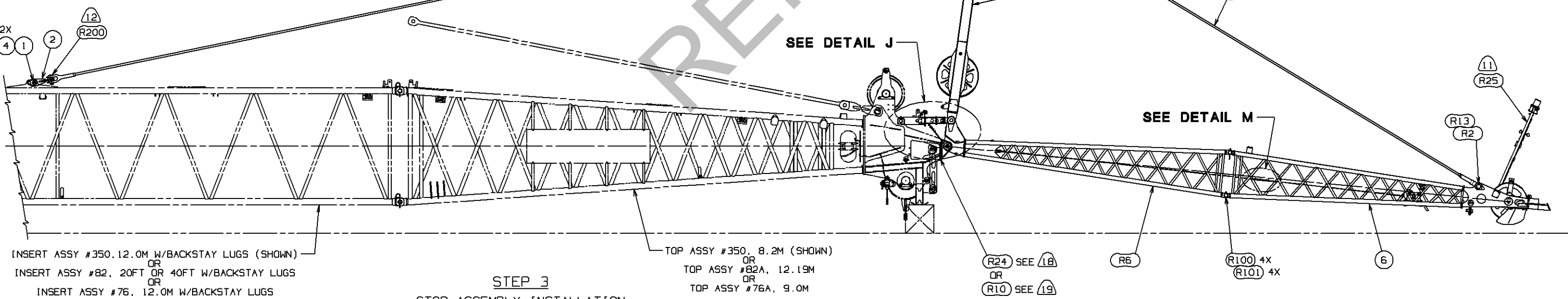
DETAIL H
TWO PART LINE
WITH BUTTON SOCKET
(FROM SHEET 1)
SCALE 0.125



DETAIL M
SCALE 0.500

TO DISASSEMBLE JIB

1. BOOM DOWN UNTIL JIB POINT IS APPROXIMATELY 12 INCHES (305mm) FROM GROUND.
 2. USING WINCH ON JIB TOP DISENGAGE JIB STOP PINS FROM FRAME AND INSTALL SAFETY PIN (R17) INTO JIB STOP PINS. (SEE DETAIL L-DISENGAGED ON SHEET 4). CAUTION: VERIFY PINS ARE FULLY DISENGAGED BEFORE LOWERING.
 3. LOWER BOOM ONTO BLOCKING.
 4. UNREEVE LOAD LINE.
 5. DISCONNECT JIB TOP WINCH LINE SHACKLE (R19) FROM JIB BUTT WINCH LINE AND SECURE APPROPRIATELY.
 6. RAISE JIB STOP ASSEMBLY (R23) AND PIN IT TO STRUT WITH STORAGE PINS (R1) AND SAFETY PINS (R16). (SEE DETAIL C ON SHEET 3).
 7. USING AN ASSIST ATTACHED TO THE FRONT SIDE OF THE SHEAVE IN THE JIB STRUT (R21) DISCONNECT BACKSTAY PENDANTS (R11, ITEM 202) AND/OR LINKS (ITEMS 2 AND 200) FROM BOOM INSERT.
 8. WITH JIB POINT LOWERED TO GROUND, LOWER JIB STRUT (R21) ONTO THE JIB BUTT (R6) AND DISCONNECT ASSIST.
 9. DISCONNECT PENDANTS.
 10. REVERSE ASSEMBLY STEPS TO DISASSEMBLE THE JIB SECTIONS.
 11. THE JIB TOP (ITEM 6), JIB BUTT (R6), STRUT (R21), SPREADER (R22) AND STOP (R23) CAN BE SHIPPED AS AN ASSEMBLED UNIT. (SEE "FIXED JIB SHIPPING CONFIGURATION" ON SHEET 3).
- NOTE: PENDANT (R11) MAY SHIP AS A PART OF THIS ASSEMBLY OR IT MAY SHIP SEPARATELY.



STEP 3
STOP ASSEMBLY INSTALLATION

INSERT ASSY #350, 12.0M W/BACKSTAY LUGS (SHOWN)
OR
INSERT ASSY #82, 20FT OR 40FT W/BACKSTAY LUGS
OR
INSERT ASSY #76, 12.0M W/BACKSTAY LUGS

TOP ASSY #350, 8.2M (SHOWN)
OR
TOP ASSY #82A, 12.19M
OR
TOP ASSY #76A, 9.0M

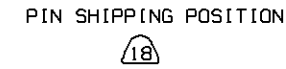
CAUTION:
SAFETY PIN (R17) IS NOT TO BE REMOVED FROM JIB STOP PIN UNTIL STOP ASSEMBLY (R23) IS PINNED TO BOOM TOP AND THE JIB BUTT WINCH LINE IS ATTACHED TO JIB TOP WINCH LINE AND READY FOR OPERATION.

REMOVE STORAGE PIN (R1) AND PIVOT THE STOP ASSEMBLY (R23) TO BOOM TOP. (SEE DETAIL J). STORE STORAGE PINS (R1) IN LUGS ON OUTER TUBE OF JIB STOP ASSEMBLY (R23). (SEE DETAIL K).
ATTACH OUTER TUBE OF JIB STOP ASSEMBLY (R23) TO LUGS ON BOOM TOP WITH PIN (R4) AND COTTERS (R15). (SEE DETAIL J).
REMOVE THE OFFSET PINS (R8) AND ADJUST THE POSITION OF THE INNER TUBES FOR PROPER OFFSET ALIGNMENT WITH THE LINKS. REINSTALL THE OFFSET PINS (R8) AND COTTERS (R16). (SEE DETAIL J).

ROUTE JIB BUTT WINCH LINE AROUND WIRE ROPE SHEAVE IN GUIDE WIRE ROPE SUBASSEMBLY (179389) AS INDICATED IN DETAIL Q ON SHEET 5 AND SHOWN IN DETAIL C ON SHEET 3.
PULL HAND WINCH LINE FROM JIB TOP (ITEM 6) AND CONNECT TO WINCH LINE OF JIB BUTT (R6) WITH SHACKLE (R19). (SEE DETAIL M).
USE JIB TOP HAND WINCH TO TAKE THE LOAD OFF THE (2) SAFETY PINS (R17) IN THE DISENGAGED JIB STOP PIN. (SEE DETAIL L-DISENGAGED).
PAY OUT SUFFICIENT CONTROL CABLE TO ENGAGE JIB STOP PINS IN THE JIB STOP FRAME AS THE JIB POINT IS LIFTED CLEAR OF THE GROUND. (SEE DETAIL L-ENGAGED).

WARNING:
FAILURE TO ENGAGE JIB STOP PINS MAY RESULT IN LOSS OF JIB STABILITY. STRUCTURAL DAMAGE AND/OR LOSS OF STABILITY MAY OCCUR.

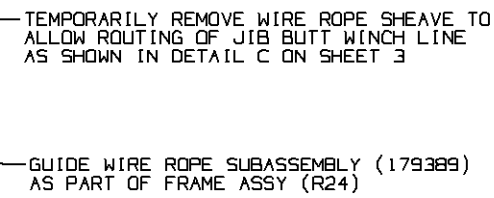
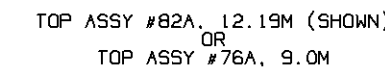
REEVE LOAD LINE THROUGH JIB STRUT WIRE ROPE GUIDE TO JIB TOP.
RAISE BOOM UNTIL BACKSTAY AND FRONTSTAY PENDANTS ARE TIGHT.



DETAIL P



DETAIL P

**DETAIL Q****DETAIL Q****DETAIL R**

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	DECIMAL PLACES	FRACTIONS				W/INCHES
	1/8" = 0.125" 1/16" = 0.0625" 1/32" = 0.03125"					
	1/64" = 0.015625" 1/128" = 0.0078125"					
1	1	1	1	1	1	
2	2	2	2	2	2	
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4	4	4	4	4	4	
5	5	5	5	5	5	
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