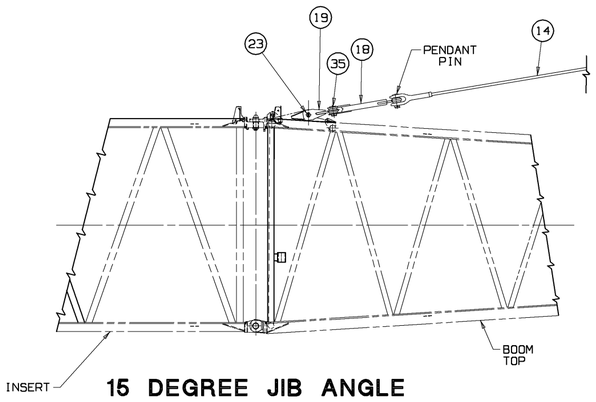
## REQUIRED FOR VARIOUS JIB LENGHTS (5)

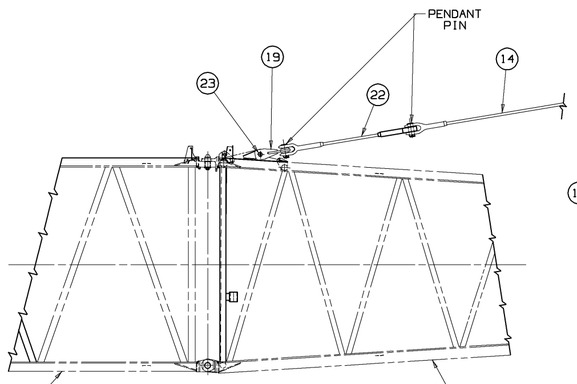
| JIB LENGTH FEET | JIB LENGTH METERS | | INSERT 10 FT-00 (3.05 M) ITEM 45 | INSERT 20 FT-00 (6.10 M) ITEM 52 | PENDANT 9 FT-6.00 (2.89 M) ITEM 46 | PENDANT 19 FT-00 (5.79 M) ITEM 53 | PIN JIB JOINT ITEM 40 OR 54 | TIMBER ITEM 41 OR 55 |
|---|---|---|---|---|---|---|---|---|
| 40 | 12.19 | | 1 | 0 | 2 | 0 | 4 | 1 |
| 50 | 15.24 | | 2 | 0 | 4 | 0 | 8 | 2 |
| | | OR | 0 | 1 | 0 | 2 | 4 | |
| 60 | 18.29 | | 1 | 1 | 2 | 2 | 8 | 3 |
| | | OR | 3 | 0 | 6 | 0 | 12 | |
| 70 | 21.33 | | 0 | 2 | 0 | 4 | 8 | 4 |
| | | OR | 2 | 1 | 4 | 2 | 12 | |
| 80 | 24.38 | | 1 | 2 | 2 | 4 | 12 | 5 |
| | | OR | 3 | 1 | 6 | 2 | 16 | |

## REQUIRED FOR VARIOUS JIB ANGLES

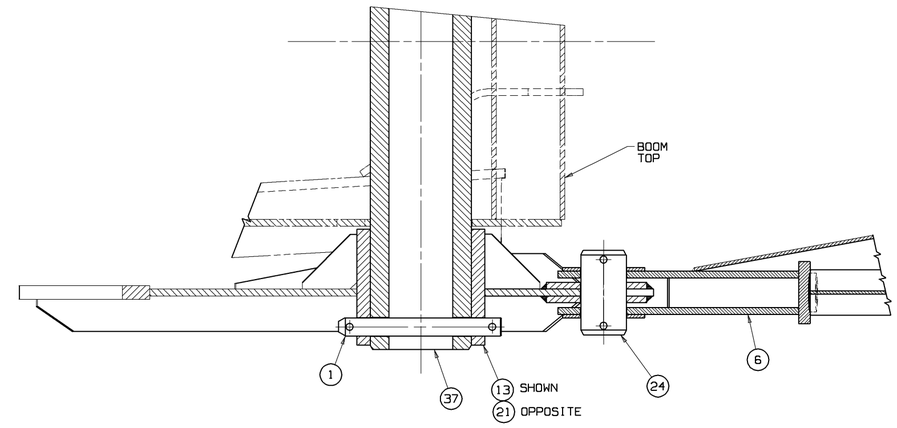
| JIB ANGLE | PENDANT 44 FT-7.00 (15.59) M ITEM 14 | PENDANT 4 FT-8.00 (1.42 M) ITEM 22 | LINK 28.00 (711 mm) ITEM 18 | PIN ITEM 35 |
|---|---|---|---|---|
| 5° | 2 | 0 | 0 | 0 |
| 15° | 2 | 0 | 2 | 2 |
| 25° | 2 | 2 | 0 | 0 |



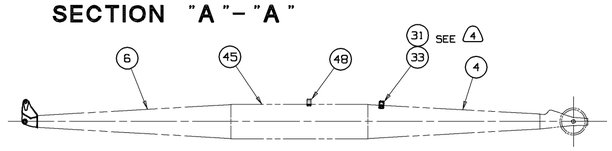

**15 DEGREE JIB ANGLE**



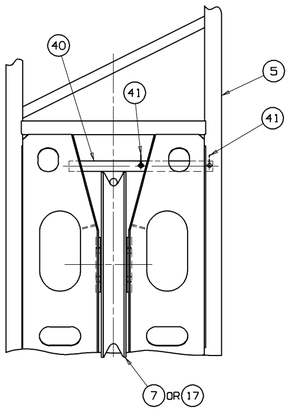

**25 DEGREE JIB ANGLE**



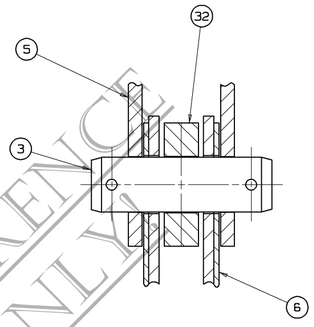

**SECTION "A"–"A"**



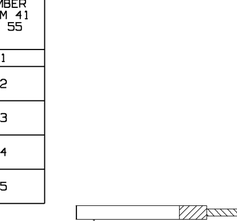

VIEW OF 40 FT JIB WITH WIRE ROPE ROLLER GUIDE




**VIEW D–D** (H)
SCALE: 1.50=1FT

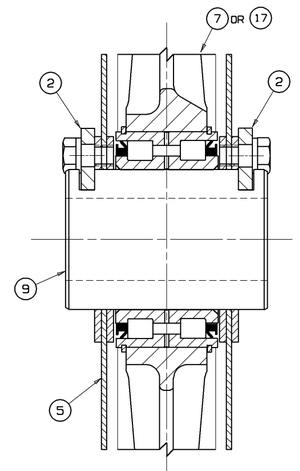



**SECTION "B"–"B"**

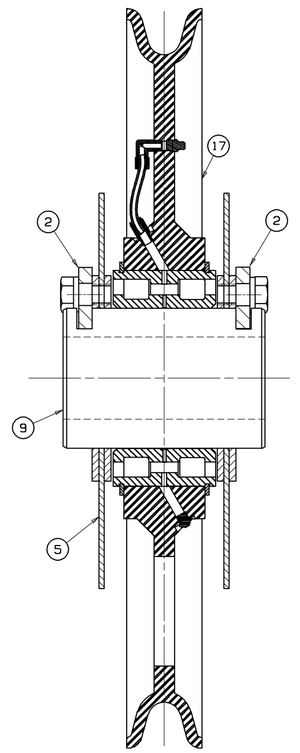



**JVIEW E–E**
SCALE: 1.50=1FT

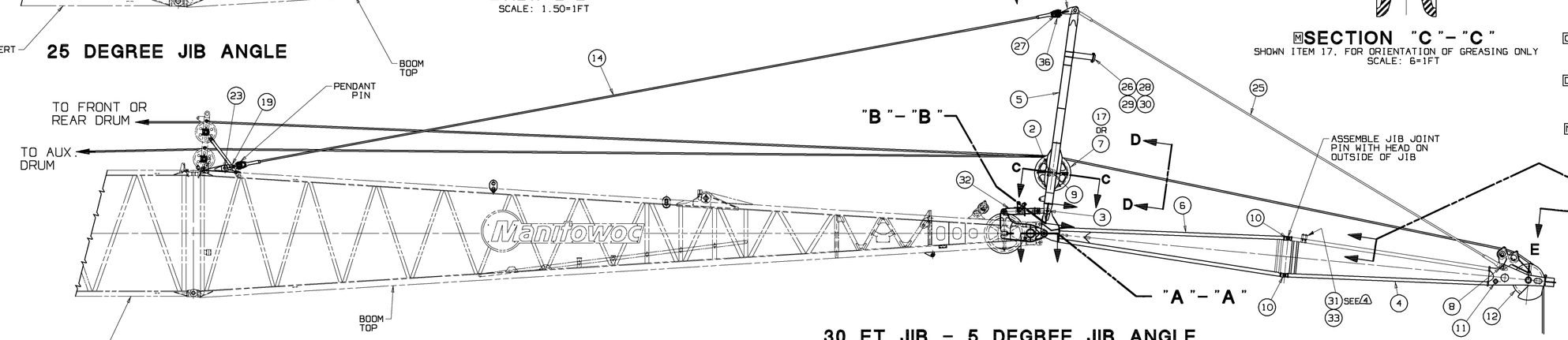


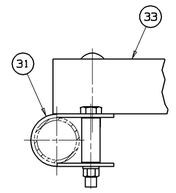

**SECTION "C"–"C"**
SCALE: 6=1FT



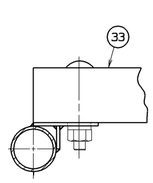

**MSECTION "C"–"C"**
SHOWN ITEM 17, FOR ORIENTATION OF GREASING ONLY
SCALE: 6=1FT




**30 FT JIB – 5 DEGREE JIB ANGLE WITH 50 FT #82LR TOP SHOWN**




VIEW SHOWN WITH CLAMP (ITEM 31) SEE (4)




## BILL OF MATERIAL

| ITEM NO. | NO. REQ'D | SEC-TION | DESCRIPTION | LENGTH IN | MATERIAL | CODE NO. OR DWG. NO. | |
|---|---|---|---|---|---|---|---|
| | | | 8986-0000 #134 JIB ASSEMBLY | | | | |
| 1 | 2 | | PIN | | | 196270 | 6 |
| 2 | 2 | | KEEPER | | | 169810 | |
| 3 | 2 | | PIN | | | 170851 | |
| A 4 | 1 | | JIB TOP 15 FT-0 (4.57 M) | | | A01810 | 7,9 |
| B 5 | 1 | | STRUT 12 FT-6 (3.81 M) | | | A01797 | 8 |
| 6 | 1 | | JIB BUTT 15 FT-0 (4.57 M) | | | 177054 | |
| 7 | 1 | | SHEAVE ASSEMBLY | | | 176799 | |
| 8 | 2 | | PIN | | | 75052 | |
| 9 | 1 | | PIN | | | 177219 | |
| 10 | 4 | | PIN | | | 76225 | |
| 11 | 1 | | UNIVERSAL WIRE ROPE ANCHOR JOINT | | | 90317 | |
| OR 12 | 1 | | JIB POINT SHAFT ASSEMBLY | | | 90318 | |
| 13 | 1 | | JIB ADAPTER (R.H.) | | | 196267 | |
| 14 | 2 | | PENDANT 51 FT-4 (15.65 M) | | | 277507 | 3 |
| 15 | 2 | | LINK | | | 177295 | |
| 16 | 1 | | LINK | | | 177296 | |
| L 17 | 1 | | SHEAVE WIRE ROPE ASSY | | | 81007542 | |
| 18 | 2 | | LINK 28.00 LONG (711 mm) | | | 177298 | |
| 19 | 2 | | LINK | | | 177299 | |
| 20 | | | | | | | |
| 21 | 1 | | JIB ADAPTER (L.H.) | | | 196274 | |
| 22 | 2 | | PENDANT 4FT 8.00 (1.42 M) | | | 277431 | 2 |
| 23 | 2 | | PIN | | | 73045 | |
| 24 | 2 | | PIN | | | 177397 | |
| 25 | 2 | | PENDANT 30 FT-9.00 (9.37 M) | | | 277430 | 2 |
| 26 | 2 | | RUBBER BUMPER | | | 285220 | |
| 27 | 4 | | SPACER | | | 196278 | |
| 28 | 4 | | SCR HEX .375-16UNC-2A X 1.25 GR5 | | | 612456 | |
| 29 | 4 | | NUT HEX .375-16 UNC-2B | | | 546054 | |
| 30 | 4 | | LOCKWASHER .375 | | | 710304 | |
| 31 | 2 | | CLAMP | | | 177473 | 4 |
| 32 | 1 | | JIB STOP ASSEMBLY | | | 179332 | |
| 33 | 1 | | TIMBER | | | 177221 | |
| 34 | 2 | | PIN | | | 177301 | |
| 35 | 2 | | PIN | | | 177302 | |
| 36 | 2 | | PIN | | | 177303 | |
| 37 | 1 | | SHAFT | | | 196271 | 6 |
| 38 | | | | | | | |
| 39 | | | | | | | |
| E 40 | 1 | | GUARD WIRE ROPE | | | A02066 | 8 |
| F 41 | 4 | | PIN, SAFTY SNAP, .25 DIA. | | | 563823 | 7,8 |
| 42 | | | | | | | |
| G 43 | 1 | | GUARD WIRE ROPE | | | A02370 | 7 |
| 44 | | | | | | | |
| | | | 8986-0010 INSERT 10 FT (3.04 M) | | | | |
| 45 | 1 | | INSERT - 10 FT (3.05 M) | | | 32938 | |
| 46 | 2 | | PENDANT - 9 FT-6.00 (2.89 M) | | | 276729 | 2 |
| 47 | 4 | | PIN - JIB JOINT | | | 76225 | |
| 48 | 1 | | TIMBER | | | 192028 | |
| 49 | | | | | | | |
| 50 | | | | | | | |
| 51 | | | | | | | |
| | | | 8986-0020 INSERT 20 FT (6.09 M) | | | | |
| 52 | 1 | | INSERT - 20 FT (6.10 M) | | | 176938 | |
| 53 | 2 | | PENDANT - 19 FT-00 (5.79 M) | | | 277422 | 2 |
| 54 | 4 | | PIN - JIB JOINT | | | 76225 | |
| 55 | 2 | | TIMBER | | | 192028 | |
| 56 | | | | | | | |
| 57 | | | | | | | |
| 58 | | | | | | | |

ASSEMBLIES USED ON

REVISIONS

| | |
|---|---|
| | 2-25-02 EDB |
| A | WAS 32948 |
| B | WAS 177131 |
| C D E F G | ADDED |
| H | ADDED VIEW |
| J | ADDED VIEW |
| | 03-16-09 MER |
| K | ADDED ITEM |
| M | ADDED VIEW |
| | 09-15-09 JWS |
| N | ADDED DELTA |
| | 05-12-10 JAS |
| | UPDATED BOOM SIGN |

1. (1) MINIMUM BOOM LENGTH REQ'D. FOR JIB = 120 FT.
2. (2) ON DWG. 74958
3. (3) ON DWG. 139117
4. (4) REQ'D. FOR JIB TOPS NOT EQUIPPED WITH TIMBER MOUNTING BRACKETS.
5. (5) INSERTS AND CORRESPONDING PENDANTS MUST BE INSTALLED IN ORDER OF ASCENDING LENGTH STARTING AT JIB BUTT.
6. (6) ALSO USED ON #123 JIB ASSEMBLY FOR #82LR BM.
7. C (7) TOP 32948 CAN BE USED IN PLACE OF TOP A01810. GUARD WIRE ROPE A02370 AND PIN SNAP 563823. USE OF 32948 REQUIRES THAT THE WEDGE SOCKET BE REMOVED FROM THE LOAD LINE TO REEVE.
8. D (8) STRUT 177131 CAN BE USED IN PLACE OF STRUT A01797. GUARD WIRE ROPE A02066 AND PIN SNAP 563823. USE OF 177131 REQUIRES THAT THE WEDGE SOCKET BE REMOVED FROM THE LOADLINE TO REEVE.
9. N (9) JIB TOP 81010308 CAN BE USED IN PLACE OF JIB TOP A01810.

DWG. NO. 196263

PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 6829103794 FOR COMPONENTS LISTED IN 605500-05-035

DATE 8-17-00

PATTERN NO.

DWG. NO. 196263

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TOLERANCE UNLESS OTHERWISE SPECIFIED

| DECIMAL PLACES | FABRICATION ≤ 10 FEET | FABRICATION > 10 FEET | MACHINING |
|---|---|---|---|
| (1) PLACE 0.0 | ±.12 | ±.18 | ±.03 |
| (2) PLACE 0.00 | ±.06 | ±.12 | ±.015 |
| (3) PLACE 0.000 | | | ±.005 |
| ANGLES | ±1°30' | | ±0°30' |

ALL MACHINING SURFACES TO HAVE 125 MICRO INCH MAXIMUM SURFACE

SCALE 3/8=1FT
DR. CRP
CK. MJW
APP. RJW

Manitowoc Cranes, Inc.
Manitowoc, Wisconsin
MODEL 999

JIB ASSEMBLY
#134 JIB
FOR #82LR BOOM

DO NOT SCALE THIS DRAWING

REFERENCE ONLY