Luffing Jib Raising Procedure 16000 SERIES 2, 3

Luffing Jib No. 59 on Boom No. 58 HL

Recommended boom and luffing jib raising and lowering procedure.

16000 SERIES 2 must be equipped with 296,000 lb (134 260 kg) crane counterweight and 60,000 lb (27 220 kg) carbody counterweight; 16000 SERIES 3 must be equipped with 332,000 lb (150 590 kg) crane counterweight and 120,000 lb (54 430 kg) carbody counterweight. Refer to luffing jib rigging assembly **No. A13555** for boom and luffing jib make-up of inserts, straps, struts, strut raising and lowering procedure, jib stop setup and operation and miscellaneous parts, etc. Refer to Operator's Manual for set-up and installation.

Boom and luffing jib combinations must be raised and lowered using jack-knife method.

Caution: Anytime luffing jib point rollers are in contact with ground during raising or lowering procedure, disengage swing lock and release swing brake.

Raising:

Position jib stop to clear jib butt. Luff up jib strut until straps on inserts are clear of strap supports. Slowly raise boom while jib point rollers are allowed to roll on ground. Tension should be applied to luffing jib hoist to keep jib straps above strap supports. Boom up until boom to luffing jib angle reaches 145 degrees. Lower jib stops to operating position. Continue to boom up until boom to luffing jib reaches value specified in table. Tighten luffing jib suspension with luffing jib hoist. Boom and luffing jib are then raised together using boom hoist until boom reaches desired boom operating angle. Luffing jib radius must be within capacity chart before swinging over side of machine when raising over end of blocked crawlers.

Lowering:

Position boom at 85 degrees prior to lowering luffing jib. Lower luffing jib until boom to luffing jib angle reaches value specified in table. Lower boom until luffing jib point rollers contact ground. Continue to lower boom while luffing jib rollers roll along ground until boom to luffing jib angle reaches 145 degrees. Position jib stop to clear jib butt. Keep enough tension on luffing jib hoist to keep jib straps above strap supports. Continue to lower boom while luffing jib rollers roll along ground.

CAUTION: Do not under any condition allow boom to luffing jib angle to become less than 70 degrees.

Luffing Jib Raising Procedure 16000 SERIES 2, 3

Luffing Jib No. 59 on Boom No. 58 HL

WITH OR WITHOUT BOOM AND/OR JIB CATWALKS							
16000 SERIES 2 **Maximum Boom and Luffing Jib Lengths Lifted Unassisted Using Jack-Knife Method**							
		Over End of Blocked Crawlers			**Over Side of Crawlers**		
Boom Length		Luffing Jib No. 59		Boom to Luffing Jib Angle	Luffing Jib No. 59		Boom to Luffing Jib Angle
Feet	Meters	Feet	Meters	Degrees	Feet	Meters	Degrees
98.4	30,0	78.7 - 157.5 177.2 - 275.6	24,0 - 48,0 54,0 - 84,0	145 90	78.7 - 137.8 157.5 - 236.2 255.9 - 275.6	24,0 - 42,0 48,0 - 72,0 78,0 - 84,0	145 90 70
118.1	36,0	78.7 - 118.1 137.8 - 255.9 275.6	24,0 - 36,0 42,0 - 78,0 84,0	145 90 70	78.7 - 98.4 118.1 - 216.5 236.2 - 275.6	24,0 - 30,0 36,0 - 66,0 72,0 - 84,0	145 90 70
137.8	42,0	78.7 98.4 - 216.5 236.2 - 275.6	24,0 30,0 - 66,0 72,0 - 84,0	145 90 70	78.7 - 157.5 177.2 - 275.6	24,0 - 48,0 54,0 - 84,0	90 70
157.5	48,0	78.7 - 137.8 157.5 - 275.6	24,0 - 42,0 48,0 - 84,0	90 70	78.7 - 177.2	24,0 - 54,0	70
*177.2	*54,0	78.7 - 137.8 157.5 - 236.5	24,0 - 42,0 48,0 - 72,0	90 70	—	—	—
Load blocks, hook and weight ball on ground until boom and luffing jib are erected. Boom lengths shown with an asterisk (*) require lower boom point to be removed.							

Manitowoc Cranes, Inc.
Manitowoc, Wisconsin 54220 U.S.A.

Luffing Jib Raising Procedure 16000 SERIES 2, 3

Luffing Jib No. 59 on Boom No. 58 HL

WITH OR WITHOUT BOOM AND/OR JIB CATWALKS							
16000 SERIES 3 **Maximum Boom and Luffing Jib Lengths Lifted Unassisted Using Jack-Knife Method**							
Boom Length		**Over End of Blocked Crawlers**			**Over Side of Crawlers**		
		Luffing Jib No. 59		Boom to Luffing Jib Angle	Luffing Jib No. 59		Boom to Luffing Jib Angle
Feet	Meters	Feet	Meters	Degrees	Feet	Meters	Degrees
98.4	30,0	78.7 - 196.9 216.5 - 275.6	24,0 - 60,0 66,0 - 84,0	145 90	78.7 - 157.5 177.2 - 275.6	24,0 - 48,0 54,0 - 84,0	145 90
118.1	36,0	78.7 - 157.5 177.2 - 275.6	24,0 - 48,0 54,0 - 84,0	145 90	78.7 - 118.1 137.8 - 255.9 275.6	24,0 - 36,0 42,0 - 78,0 84,0	145 90 70
137.8	42,0	78.7 - 118.1 137.8 - 255.9 275.6	24,0 - 36,0 42,0 - 78,0 84,0	145 90 70	78.7 98.4 - 216.5 236.2 - 275.6	24,0 30,0 - 66,0 72,0 - 84,0	145 90 70
157.5	48,0	78.7 98.4 - 216.5 236.2 - 275.6	24,0 30,0 - 66,0 72,0 - 84,0	145 90 70	78.7 - 137.8 157.5 - 275.6	24,0 - 42,0 48,0 - 84,0	90 70
*177.2	*54,0	78.7 98.4- 216.5 236.5 - 275.6	24,0 30,0 - 66,0 72,0 - 84,0	145 90 70	78.7 - 157.5 177.2 - 236.5	24,0 - 48,0 54,0 - 72,0	90 70
*196.9	*60,0	78.7 - 118.1 137.8 - 196.9	24,0 - 36,0 42,0 - 60,0	90 70	—	—	—
*216.5	*66,0	78.7 - 98.4	24,0 - 30,0	70	—	—	—
Load blocks, hook and weight ball on ground until boom and luffing jib are erected. Boom lengths shown with an asterisk (*) require lower boom point to be removed.							