MLC165

Luffing Jib Raising Procedure

Luffing Jib No. 135 on Boom No. 74

Recommended boom and luffing jib raising and lowering procedure

MLC165 SERIES 1 must be equipped with 99,500 lb crane counterweight and 0 lb carbody counterweight; MLC165 SERIES 2 must be equipped with 121,500 lb crane counterweight and 35,300 lb carbody counterweight. Refer to luffing jib rigging assembly **No. 81022481** for boom and luffing jib make-up of inserts, pendants, struts, strut raising and lowering procedure, jib stop setup and operation and miscellaneous parts, etc. Refer to Operator's Manual for setup 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 if equipped, and release swing brake.

Raising:

Luff up jib strut to keep luffing jib strut off luffing jib during boom raising. Slowly raise boom while luffing jib point wheels are allowed to roll on ground. When luffing jib stop strut is just clear of ground, attach luffing jib stop pendants and unpin luffing jib stop inner strut from retracted position. Slowly raise boom until luffing jib stop strut is fully extended and pins engaged (approximately 168 degree boom-to-luffing jib angle). Continue to boom up with luffing jib wheels rolling on ground until boom-to-luffing jib angle reaches value specified in Tables 1 and 2 or vertical, whichever occurs first. 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 front 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 Tables 1 and 2. Lower boom until luffing jib point wheels contact ground. If luffing jib is hanging vertical, raise luffing jib a few degrees forward of vertical. Continue to lower boom while luffing jib wheels roll along ground. Keep enough tension on luffing jib hoist to keep luffing jib strut off luffing jib. Stop lowering boom when luffing jib stop pendants start to go into tension (approximately 168 degree boom-to-luffing jib angle). Disengage luffing jib stop strut pins and lower boom to retract luffing jib stop inner strut. Pin strut in retracted position.

Caution: Do not under any condition allow boom to luffing jib angle to become less than 60 degrees.

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Refer to **Tables 1 and 2** for raising ability with the maximum weight of load blocks, hooks, weight balls, slings and hoist lines beneath boom and jib point sheaves. Raising with blocks requires luffing jib wire rope guard per delta note 36 on rigging drawing. For block weights shown with #, load blocks, hooks, weight balls and slings must remain on ground until combined weights are within rated capacity of chart.

Table 1

MLC165 SERIES 1											
	Ī	Over Front of Blocked Crawlers				Over					
Boom Length	Boom to Luffing Jib Angle	Weight Under Load Point									
		Boom	Boom Jib		Boom Jib	Boom Jib		Boom Jib		Boom to Luffing Jib	
		#	#	6,100 lb	2,300 lb	#	#	6,100 lb	2,300 lb	Angle	
Feet	Degrees	Luffing Jib Length - Feet								Degrees	
68.9	168	70.0 - 170.0		70.0 - 120.0		70.0 - 130.0		70.0 - 90.0		168	
	90	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		90	
	60	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		60	
78.7	168	70.0 - 150.0		70.0 - 100.0		70.0 - 110.0		_		168	
	90	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		90	
	60	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		60	
	168	70.0 - 120.0		70.0		70.0 - 90.0		—		168	
88.6	90	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		90	
	60	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		60	
	168	70.0 - 100.0		—		70.0		_		168	
98.4	90	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 130.0		90	
	60	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		60	
108.3	168 90	70.0 - 80.0						_		168 90	
100.5	90 60	70.0 - 170.0				70.0 - 170.0		70.0 110.0		90 60	
	90	70.0 - 170.0 70.0 - 170.0		70.0 - 170.0		70.0 - 170.0 70.0		70.0 - 110.0		90	
118.1	90 60	70.0 - 170.0				70.0 - 170.0		_		90 60	
128.0	90	70.0 - 150.0								90	
	60	70.0 - 170.0								60	
(a)137.8	60	70.0 - 170.0								60	
(a) Requires lower boom point to be removed.											

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MLC165 SERIES 2										
		Over	Front of B	locked Crawlers Over End or Side of			de of Crav	e of Crawlers		
	Boom to Luffing Jib Angle	Weight Under Load Point								
Boom Length		Boom	Boom Jib	Boom	Jib	Boom	Jib	Boom	Jib	Boom to Luffing Jib Angle
		#	#	6,100 lb	2,300 lb	#	#	6,100 lb	2,300 lb	
Feet	Degrees	Luffing Jib Length - Feet								Degrees
	168	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 140.0		168
68.9	90	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		90
	60	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		60
	168	70.0 - 170.0		70.0 - 150.0		70.0 - 160.0		70.0 - 120.0		168
78.7	90	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		90
	60	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		60
	168	70.0 - 170.0		70.0 - 130.0		70.0 - 140.0		70.0 - 90.0		168
88.6	90	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		90
	60	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		60
	168	70.0 - 160.0		70.0 - 110.0		70.0 - 120.0		70.0		168
98.4	90	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		90
	60	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		60
	168	70.0 - 140.0		70.0 - 80.0		70.0 - 100.0		—		168
108.3	90	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		90
	60	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		60
	168	70.0 - 110.0		—		70.0 - 80.0		—		168
118.1	90	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 130.0		90
	60	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		60
	168	70.0 - 90.0		—		—		—		168
128.0	90	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		_		90
	60	70.0 - 170.0		70.0 - 170.0		70.0 - 170.0		70.0 - 150.0		60
137.8	168	70.0		—		—		—		168
	90	70.0 - 170.0		—		70.0 - 130.0		—		90
	60	70.0 - 170.0		70.0 - 130.0		70.0 - 170.0		—		60
147.6	90	70.0 - 170.0		—		—		—		90
	60	70.0 - 170.0		—		70.0 - 150.0				60
157.5	60	70.0 - 170.0				_		_		60
(a)167.3	60		- 170.0	_	-	_	_	—		60
(a) Requ	uires lower b	oom point t	o be remov	ved.						

Table 2

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