Luffing Jib Raising Procedure

Luffing Jib No. LJ11:500-501 on
Boom No. B65:505-500
with Mast No. M11:503

MLC300
VPC-MAX

Recommended boom and luffing jib raising and lowering procedure

MLC300 VPC-MAX SERIES 1 must be equipped with 135 100 kg VPC (Variable Position Counterweight); MLC300 VPC-MAX SERIES 2 must be equipped with 175 100 kg VPC; MLC300 VPC-MAX SERIES 3 must be equipped with 215 000 kg VPC. Refer to Luffing Jib Rigging **No. 84050217** for boom and luffing jib make-up of inserts, straps, struts, strut raising and lowering procedure, jib stop operation and miscellaneous parts, etc. Refer to the Operator Manual for setup and installation.

***Caution*:** Any time luffing jib point rollers are in contact with ground during raising or lowering procedure, release swing brake. *Structural damage can occur.*

***Caution*:** Do not under any condition allow boom-to-luffing jib angle to become less than 70 degrees. *Structural damage can occur.*

Raising:

Starting position for the jib stops is resting on the boom top's jib stop lugs. Luff up jib strut until straps on inserts are clear of strap supports. Slowly raise boom while luffing jib point rollers are allowed to roll on ground. Tension should be applied to luffing jib hoist to keep jib straps clear of strap supports. Boom up and luff down until boom-to-luffing jib angle reaches value specified in Tables 1 thru 3 or luffing jib is 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 83 degrees or the operating radius is within capacity chart and the luffing jib is above horizontal. If boom-to-luffing jib angle is greater than 145 degrees, lower luffing jib to obtain this angle to allow jib stops to properly position.

Warning: Failure to lower luffing jib to 145 degree boom-to-luffing jib angle will not allow jib stops to engage. *Structural damage and/or loss of luffing jib stability can occur.*

Lowering:

Position boom at 83 degrees prior to lowering luffing jib. Lower luffing jib until boom-to-luffing jib angle reaches value specified in Tables 1 thru 3. Lower boom until luffing jib point rollers contact ground. If luffing jib is hanging vertical, raise luffing jib a few degrees forward of vertical. Should luffing jib fail to roll along ground it may be necessary to provide outside assistance. Continue to lower boom while luffing jib rolls along ground. Keep enough tension on luffing jib hoist to keep jib straps clear of strap supports.

Warning: If luffing jib fails to roll once luffing jib point rollers contact ground, lock counterweight until boom-to-luffing jib angle has reached 135 degrees. Luffing jib point rollers must remain on ground with jib straps slack. Once boom-to-luffing jib angle has reached 135 degrees unlock counterweight and continue booming down. *Failure to lock and unlock counterweight as instructed may result in a loss of machine stability.*

Warning: Do not under any condition allow boom-to-luffing jib angle to become greater than 145 degrees before luffing jib point rollers contact ground. Jib stop may engage boom top during lowering. *Structural damage can occur.*

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Refer to Tables 1 thru 3 for raising ability with the maximum weight of load blocks, hooks, weight ball, slings and hoist lines beneath boom and jib point sheaves. For block weights shown with #, load blocks, hooks, weight ball and slings must remain on ground until combined weights are within rated capacity of chart.

Table 1

MLC300 VPC-MAX SERIES 1									
Boom Length	Boom to Luffing Jib Angle	Over End or Side of Crawlers							Boom to Luffing Jib Angle
		10,6 m Counterweight Position				14,6 m Counterweight Position			
		Weight Under Load Point							
		Boom	Jib	Boom	Jib	Boom	Jib	Boom	Jib	
		#	#	3 600 kg	2 800 kg	#	#	3 600 kg	2 800 kg	
Meters	Degrees	Luffing Jib Length - Meters							Degrees
54,0	145	24,0		—		24,0 - 42,0		24,0 - 30,0	145
	90	24,0 - 54,0		24,0 - 30,0		24,0 - 78,0		24,0 - 66,0	90
	70	24,0 - 78,0		24,0 - 66,0		24,0 - 78,0		24,0 - 66,0	70
60,0	145	—		—		24,0 - 30,0		—	145
	90	24,0		—		24,0 - 66,0		24,0 - 42,0	90
	70	30,0 - 72,0		—		30,0 - 78,0		30,0 - 72,0	70
66,0	145	—		—		—		—	145
	90	—		—		24,0 - 42,0		—	90
	70	—		—		30,0 - 84,0		30,0 - 72,0	70
72,0	145	—		—		—		—	145
	90	—		—		—		—	90
	70	—		—		—		—	70
78,0	145	—		—		—		—	145
	90	—		—		—		—	90
	70	—		—		—		—	70
84,0	145	—		—		—		—	145
	90	—		—		—		—	90
	70	—		—		—		—	70

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Table 2

MLC300 VPC-MAX SERIES 2									
Boom Length	Boom to Luffing Jib Angle	Over End or Side of Crawlers							Boom to Luffing Jib Angle
		10,6 m Counterweight Position				14,6 m Counterweight Position			
		Weight Under Load Point							
		Boom	Jib	Boom	Jib	Boom	Jib	Boom	Jib
		#	#	3 600 kg	2 800 kg	#	#	3 600 kg	2 800 kg
Meters	Degrees	Luffing Jib Length - Meters							Degrees
54,0	145	24,0 - 42,0		24,0 - 30,0		24,0 - 60,0		24,0 - 48,0	145
	90	24,0 - 78,0		24,0 - 66,0		24,0 - 78,0		24,0 - 66,0	90
	70	24,0 - 78,0		24,0 - 66,0		24,0 - 78,0		24,0 - 66,0	70
60,0	145	24,0 - 30,0		—		24,0 - 54,0		24,0 - 42,0	145
	90	24,0 - 60,0		24,0 - 42,0		24,0 - 78,0		24,0 - 66,0	90
	70	30,0 - 78,0		30,0 - 66,0		30,0 - 78,0		30,0 - 66,0	70
66,0	145	—		—		24,0 - 42,0		24,0 - 30,0	145
	90	24,0 - 42,0		—		24,0 - 84,0		24,0 - 60,0	90
	70	30,0 - 84,0		—		30,0 - 84,0		30,0 - 66,0	70
72,0	145	—		—		24,0 - 30,0		—	145
	90	—		—		24,0 - 60,0		24,0 - 30,0	90
	70	—		—		36,0 - 84,0		36,0 - 66,0	70
78,0	145	—		—		—		—	145
	90	—		—		24,0 - 36,0		—	90
	70	—		—		36,0 - 84,0		—	70
84,0	145	—		—		—		—	145
	90	—		—		—		—	90
	70	—		—		—		—	70

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Table 3

MLC300 VPC-MAX SERIES 3									
		Over End or Side of Crawlers							
		10,6 m Counterweight Position				14,6 m Counterweight Position			
		Weight Under Load Point							
Boom Length	Boom to Luffing Jib Angle	Boom #	Jib #	Boom 3 600 kg	Jib 2 800 kg	Boom #	Jib #	Boom 3 600 kg	Jib 2 800 kg	Boom to Luffing Jib Angle
Meters	Degrees	Luffing Jib Length - Meters								Degrees
54,0	145	24,0 - 54,0		24,0 - 42,0		24,0 - 78,0		24,0 - 66,0		145
	90	24,0 - 78,0		24,0 - 66,0		24,0 - 78,0		24,0 - 66,0		90
	70	24,0 - 78,0		24,0 - 66,0		24,0 - 78,0		24,0 - 66,0		70
60,0	145	24,0 - 42,0		24,0 - 30,0		24,0 - 72,0		24,0 - 54,0		145
	90	24,0 - 78,0		24,0 - 66,0		24,0 - 78,0		24,0 - 66,0		90
	70	30,0 - 78,0		30,0 - 66,0		30,0 - 78,0		30,0 - 66,0		70
66,0	145	24,0 - 36,0		24,0		24,0 - 60,0		24,0 - 48,0		145
	90	24,0 - 78,0		24,0 - 48,0		24,0 - 84,0		24,0 - 66,0		90
	70	30,0 - 84,0		30,0 - 66,0		30,0 - 84,0		30,0 - 66,0		70
72,0	145	24,0		—		24,0 - 48,0		24,0 - 36,0		145
	90	24,0 - 48,0		—		24,0 - 84,0		24,0 - 66,0		90
	70	36,0 - 84,0		36,0 - 66,0		36,0 - 84,0		36,0 - 66,0		70
78,0	145	—		—		24,0 - 42,0		24,0		145
	90	—		—		24,0 - 84,0		24,0 - 54,0		90
	70	36,0 - 54,0		—		36,0 - 84,0		36,0 - 66,0		70
84,0	145	—		—		24,0 - 30,0		—		145
	90	—		—		24,0 - 54,0		—		90
	70	—		—		36,0 - 84,0		36,0 - 66,0		70