

Luffing Jib Raising Procedure

16000 MAX-ER

Luffing Jib No. 59 on Boom No. 58 HL with 98.4 ft (30,0 m) Mast No. 59A Wheeled Counterweight

Recommended Boom and Luffing Jib Raising and Lowering Procedure

Machine must be equipped with 332,000 lb (150 590 kg) crane counterweight, 120,000 lb (54 430 kg) carbody counterweight and 0 lb (0 kg), 335,400 lb (152 140 kg) or 511,400 lb (231 970 kg) wheeled counterweight. Refer to luffing jib rigging assembly **No. A13416** for boom and luffing jib make-up of inserts, straps, struts, strut raising 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 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.

		Over End of Blocked Crawlers			Over Side of Crawlers			
		0 lb (0 kg) Wheeled Counterweight						
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	
137.8	42,0	78.7 - 137.8 157.5 - 255.9 275.6	24,0 - 42,0 48,0 - 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	
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 - 157.5 177.2 - 275.6	24,0 - 48,0 54,0 - 84,0	90 70	
177.2	54,0	78.7 - 157.5 177.2 - 275.6	24,0 - 48,0 54,0 - 84,0	90 70	_ _	<u> </u>	_ _	
196.9	60,0	78.7 - 177.2	24,0 - 54,0	70	_	_	_	



Luffing Jib Raising Procedure Luffing Jib No. 59 on Boom No. 58 HL with 98.4 ft (30,0 m) Mast No. 59A

Wheeled Counterweight

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Max	imum Bo		ng Jib Length r End or Side		assisted Using ed Crawlers	Jack-Knife	Method
		335,400 lb (152 140 kg) Wheeled Counterweight at 36.1 ft (11 m) Position			511,400 lb (231 970 kg) Wheeled Counterweight at 36.1 ft (11 m) Position		
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
137.8	42,0	78.7 - 275.6	24,0 - 84,0	145	78.7 - 275.6	24,0 - 84,0	145
157.5	48,0	78.7 - 255.9 275.6	24,0 - 78,0 84,0	145 90	78.7 - 275.6	24,0 - 84,0	145
177.2	54,0	78.7 - 236.2 255.9 - 275.6	24,0 - 72,0 78,0 - 84,0	145 90	78.7 - 275.6	24,0 - 84,0	145
196.9	60,0	78.7 - 196.9 216.6 - 275.6	24,0 - 60,0 66,0 - 84,0	145 90	78.7 - 275.6	24,0 - 84,0	145
216.5	66,0	78.7 - 157.5 177.2 - 275.6	24,0 - 48,0 54,0 - 84,0	145 90	78.7 - 255.9 275.6	24,0 - 78,0 84,0	145 90
236.2	72,0	78.7 - 118.1 137.8 - 275.6	24,0 - 36,0 42,0 - 84,0	145 90	78.7 - 216.5 236.2 - 275.6	24,0 - 66,0 72,0 - 84,0	145 90
255.9	78,0	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 - 177.2 196.9 - 275.6	24,0 - 54,0 60,0 - 84,0	145 90
275.6	84,0	78.7 - 98.4 118.1 - 275.6	24,0 - 30,0 36,0 - 84,0	90 70	78.7 - 137.8 157.5 - 275.6	24,0 - 42,0 48,0 - 84,0	145 90
295.3	90,0	_		_	78.7 - 98.4 118.1 - 236.2 255.9 - 275.6	24,0 - 30,0 36,0 - 72,0 78,0 - 84,0	145 90 70
315.0	96,0	_	_	_	78.7 - 137.8 157.5 - 275.6	24,0 - 42,0 48,0 - 84,0	90 70
Load bl	ocks, ho	ok and weight b	oall on ground	until boom a	and luffing jib ar	e erected.	



Luffing Jib Raising Procedure Luffing Jib No. 59 on Boom No. 58 HL with 98.4 ft (30,0 m) Mast No. 59A

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Wheeled Counterweight

Maxi	mum Bo	oom and Luffin Over			assisted Using ed Crawlers	g Jack-Knife	Method	
	335,400 lb (152 140 kg) Wheeled Counterweight at 42.7 ft (13 m) Position			eight	511 400 lb (231 970 kg) Wheeled Counterweight at 42.7 ft (13 m) Position			
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	
138.7	42,0	78.7 - 275.6	24,0 - 84,0	145	78.7 - 275.6	24,0 - 84,0	145	
157.5	48,0	78.7 - 275.6	24,0 - 84,0	145	78.7 - 275.6	24,0 - 84,0	145	
177.2	54,0	78.7 - 255.9 275.6	24,0 - 78,0 84,0	145 90	78.7 - 275.6	24,0 - 84,0	145	
196.9	60,0	78.7 - 216.5 236.2 - 275.6	24,0 - 66,0 72,0 - 84,0	145 90	78.7 - 275.6	24,0 - 84,0	145	
216.5	66,0	78.7 - 177.2 196.9 - 275.6	24,0 - 54,0 60,0 - 84,0	145 90	78.7 - 275.6	24,0 - 84,0	145	
236.2	72,0	78.7 - 137.8 157.5 - 275.6	24,0 - 42,0 48,0 - 84,0	145 90	78.7 - 255.9 275.6	24,0 - 78,0 84,0	145 90	
255.9	78,0	78.7 - 98.4 118.1 - 255.9 275.6	24,0 - 30,0 36,0 - 78,0 84.0	145 90 70	78.7 - 216.5 236.2 - 275.6	24,0 - 66,0 72,0 - 84,0	145 90	
275.6	84,0	78.7 - 157.5 177.2 - 275.6	24,0 - 48,0 54,0 - 84,0	90 70	78.7 - 177.2 196.9 - 275.6	24,0 - 54,0 60,0 - 84,0	145 90	
295.3	90,0	78.7 - 255.9	24,0 - 78,0	70	78.7 - 137.8 157.5 - 275.6	24,0 - 42,0 48,0 - 84,0	145 90	
315.0	96,0	_	_	_	78.7 - 98.4 118.1 - 236.2	24,0 - 30,0 36,0 - 72,0	145 90	
					255.9 - 275.6	78,0 - 84,0	70	
Load b	locks, ho	ook and weight l	ball on ground	d until boom	and luffing jib a	are erected.		



Luffing Jib Raising Procedure Luffing Jib No. 59 on Boom No. 58 HL with 98.4 ft (30,0 m) Mast No. 59A

Wheeled Counterweight

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Maximum Boom and Luffing Jib Lengths Lifted Unassisted Using Jack-Knife Method Over End or Side of Unblocked Crawlers								
		335,400 lb (152 140 kg) Wheeled Counterweight at 49.2 ft (15 m) Position			511,400 lb (231 970 kg) Wheeled Counterweight at 49.2 ft (15 m) Position			
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	
137.8	42,0	78.7 - 275.6	24,0 - 84,0	145	78.7 - 275.6	24,0 - 84,0	145	
157.5	48,0	78.7 - 275.6		145	78.7 - 275.6		145	
177.2	54,0	78.7 - 275.6	24,0 - 84,0	145	78.7 - 275.6	24,0 - 84,0	145	
196.9	60,0	78.7 - 236.2		145	78.7 - 275.6	24,0 - 84,0	145	
		255.9 - 275.6		90				
216.5	66,0	78.7 - 196.9		145	78.7 - 275.6	24,0 - 84,0	145	
000.0		216.5 - 275.6		90	70 7 075 0	040 040	4.45	
236.2	72,0	78.7 - 177.2 196.9 - 275.6		145 90	78.7 - 275.6	24,0 - 84,0	145	
255.9	78,0	78.7 - 137.8		145	78.7 - 236.2	24.0 - 72.0	145	
200.0	70,0	157.5 - 275.6		90	255.9 - 275.6		90	
275.6	84,0	78.7 - 98.4		145	78.7 - 216.5	, ,	145	
270.0	04,0	118.1 - 216.5		90	236.2 - 275.6		90	
		236.2 - 275.6		70	200.2 270.0	72,0 01,0	00	
295.3	90,0	78.7 - 118.1		90	78.7 - 177.2	24.0 - 54.0	145	
	,-	137.8 - 275.6		70	196.9 - 275.6		90	
315.0	96,0	_		_	78.7 - 137.8		145	
					157.5 - 275.6		90	
Load blocks, hook and weight ball on ground until boom and luffing jib are erected.								