Luffing Jib Raising Procedure

Luffing Jib No. 79A on Boom No. 55 or No. 55A with 140 Ft. (42.7m) Mast No. 56 Hanging Counterweight



Recommended boom and luffing jib raising and lowering procedure.

Machine must be equipped with 492,000 Lb. (223 170 kg) crane counterweight, 320,000 Lb. (145 150 kg) carbody counterweight and 0 Lb. (0 kg), 247,800 Lb. (112 400 kg), 467,800 Lb. (212 190 kg), or 599,800 Lb. (272 060 kg) hanging counterweight. Refer to luffing jib rigging assembly **No. A08238** for boom and luffing jib make-up of inserts, straps, struts, strut raising procedure, jib stop positioner setup and operation, jib stop raising and lowering procedure and miscellaneous parts, etc.

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

Release swing brake (disengage swing lock) and slowly raise boom while jib point dolly is allowed to roll on ground. Tension should be applied to luffing jib hoist to keep jib strut off luffing jib during boom raising. Boom up until boom to luffing jib angle reaches 140 degrees. Extend jib stop positioner cylinders (see procedure). 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.

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 is just above ground. Position dolly under upper jib point, then lower upper jib point onto dolly. Release swing brake (disengage swing lock) and continue to lower boom while luffing jib rolls along ground until boom to luffing jib angle reaches 140 degrees. Keep enough tension on luffing jib hoist to keep jib strut off luffing jib. Retract jib stop positioner cylinders (see procedure). Continue to lower boom while luffing jib rolls along ground.

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

WITH OR WITHOUT BOOM AND/OR JIB CATWALKS Maximum Boom and Luffing Jib Lengths Lifted Unassisted Using Jack-Knife Method							
		Over End of Blocked Crawlers			Over Side of Crawlers		
		0 Lb. (0 kg) Hanging Counterweight					
Boom Length		Luffing Jib No. 79A		Boom to Luffing Jib Angle	Luffing Jib No. 79A		Boom to Luffing Jib Angle
Feet	Meters	Feet	Meters	Degrees	Feet	Meters	Degrees
160	48,8	90 - 130 150 - 270 290 - 310	27,4 - 39,6 45,7 - 82,3 88,4 - 94,5	140 90 70	90 - 110 130 - 210 230 - 310	27,4 - 33,5 39,6 - 64,0 70,1 - 94,5	140 90 70
180	54,9	90 - 210 230 - 310	27,4 - 64,0 70,1 - 94,5	90 70	90 - 110 130 - 270	27,4 - 33,5 39,6 - 82,3	90 70
200	61,0	90 - 190	27,4 - 57,9	70	_		_
200 61,0 90 - 190 27,4 - 57,9 70 — — — — — Load blocks, hook and weight ball on ground until boom and luffing jib are erected.							

Luffing Jib Raising Procedure

Luffing Jib No. 79A on Boom No. 55 or No. 55A with 140 Ft. (42.7m) Mast No. 56 Hanging Counterweight



190-270

57,9 - 82,3

70

WITH OR WITHOUT BOOM AND/OR JIB CATWALKS Maximum Boom and Luffing Jib Lengths Lifted Unassisted Using Jack-Knife Method Over Side or End of Unblocked Crawlers **599.800 Lb.** (272 060 kg) 247.800 Lb. (112 400 kg) 467.800 Lb. (212 190 kg) Hanging Counterweight Hanging Counterweight Hanging Counterweight at 59 Ft. (18m) Position at 59 Ft. (18m) Position at 59 Ft. (18m) Position Boom to Boom to Boom to Boom Luffing Jib Luffing Jib Luffing Jib Length Luffing Jib No. 79A Angle Luffing Jib No. 79A Angle Luffing Jib No. 79A Angle Feet Meters Feet Meters Degrees Feet Meters Degrees Feet Meters Degrees 90 - 230 90 - 290 160 48,8 27,4 - 70,1 140 27,4 - 88,4 140 90 - 310 27,4 - 94,5 140 250 - 310 76,2 - 94,5 90 310 94,5 90 27,4 - 82,3 54,9 90 - 210 90 - 270 140 180 27,4 - 64,0 140 90 - 310 27,4 - 94,5 140 70,1 - 94,5 88,4 - 94,5 230 - 310 290 - 310 90 90 200 61,0 90 - 170 27,4 - 51,8 140 90 - 230 27,4 - 70,1 140 90 - 290 27,4 - 88,4 140 190 - 310 57,9 - 94,5 250 - 310 76,2 - 94,5 90 90 310 94,5 90 90 - 210 220 67,1 90 - 130 27,4 - 39,6 140 27,4 - 64,0 140 90 - 270 27,4 - 82,3 140 150 - 27045,7 - 82,3 90 230 - 310 70,1 - 94,5 90 290 - 310 88,4 - 94,5 90 290 - 310 88,4 - 94,5 70 27,4 - 64,0 240 73.2 90 - 210 90 90 - 170 27.4 - 51.8 140 90 - 230 27,4 - 70,1140 70,1 - 94,5 230 - 310 70 250 - 310 190 - 310 57,9 - 94,5 90 76,2 - 94,5 90 90 - 250* 27,4 - 39,6 27,4 - 57,9 79,2 27,4 - 76,2 90 - 130 140 90 - 190 140 260 70 150 - 310 45,7 - 94,5 90 210 - 310 64,0 - 94,5 90 85,3 90 - 110 27,4 - 33,5 140 90 - 170 140 280 27,4 - 51,8 130 - 250 39,6 - 76,2 90 190 - 310 57,9 - 94,5 90 270 - 310 82,3 - 94,5 70 91.4 90 - 110 27.4 - 33.5 90 - 130 27.4 - 39.6 140 300 90 130 - 230 39.6 - 70.1 70 150 - 270 45.7 - 82.3 90 290 - 310 88,4 - 94,5 70 320 97,5 90 27,4 140 110 - 170 33,5 - 51,8 90

Load blocks, hook and weight ball on ground until boom and luffing jib are erected.

^{*} When equipped with boom and/or jib catwalks, 250 Ft. luffing jib on 260 Ft. boom cannot be raised with 247,800 Lb. hanging counterweight.