Luffing Jib Raising Procedure 18000

Luffing Jib No. 79A on Boom No. 55 or No. 55A with 100 Ft. (30.5m) Mast No. 56

Recommended boom and luffing jib raising and lowering procedure.

Machine must be equipped with 528,000 Lb. (239 500 kg) crane counterweight and 320,000 Lb. (145 150 kg) carbody counterweight. Refer to luffing jib rigging assembly **No. A08237** 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 CATWALKS							
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. 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 - 210 230 - 290	27.4 33.5 - 64.0 70.1 - 88.4	140 90 70
180	54.9	90 - 210 230 - 310	27.4 - 64.0 70.1 - 94.5	90 70	90 - 110 130 - 190	27.4 - 33.5 39.6 - 57.9	90 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.							