



LUFFING JIB RAISING PROCEDURE

M-250

**FOLD UNDER LUFFING JIB NO. 133A ON
BOOM NO. 44 WITH 5' (1524 mm) TOP**

M-250 SERIES 2

RECOMMENDED BOOM AND FOLD UNDER LUFFING JIB RAISING AND LOWERING PROCEDURE.

M-250 MUST BE EQUIPPED WITH 167,000 LB. (75 750 kg) CRANE COUNTERWEIGHT AND M-250 SERIES 2 MUST BE EQUIPPED WITH 207,000 LB. (93 890 kg) CRANE COUNTERWEIGHT AND 60,000 LB. (27 220 kg) CARBODY COUNTERWEIGHT FOR RAISING AND LOWERING VARIOUS BOOM AND FOLD UNDER LUFFING JIB COMBINATIONS. BOOM LENGTHS GREATER THAN 165' (50.3m) REQUIRE MAIN BOOM POINT ASSEMBLY TO BE REMOVED. REFER TO FOLD UNDER LUFFING JIB RIGGING ASSEMBLY NO. 175501 FOR BOOM AND FOLD UNDER LUFFING JIB MAKE-UP OF INSERTS, PENDANTS, AND MISCELLANEOUS PARTS, ETC. SEE MAXIMUM ALLOWABLE WIND CONDITIONS CHART NO. 7785-A FOR WIND LIMITS DURING OPERATION.

THREE METHODS MAY BE USED TO RAISE AND LOWER BOOM AND FOLD UNDER LUFFING JIB COMBINATIONS, DEPENDING ON LENGTH.

A. FOLD UNDER JACK-KNIFE METHOD

BOOM AND FOLD UNDER LUFFING JIB ARE ASSEMBLED IN FOLD UNDER POSITION. SLOWLY RAISE BOOM, JIB POINT ROLLERS WILL ROLL ALONG GROUND. WHEN FOLD UNDER LUFFING JIB HINGE PIN IS 35' OFF GROUND, CONNECT JIB PENDANTS. TIGHTEN FOLD UNDER LUFFING JIB SUSPENSION WITH LUFFING JIB HOIST. SLOWLY RAISE BOOM UNTIL FOLD UNDER LUFFING JIB IS VERTICAL AND LUFFING JIB POINT ROLLERS ARE CLEAR OF GROUND. REPOSITION LUFFING JIB POINT ASSEMBLY IF REQUIRED. TIGHTEN FOLD UNDER LUFFING JIB SUSPENSION WITH LUFFING JIB HOIST. BOOM AND FOLD UNDER LUFFING JIB ARE THEN RAISED TOGETHER USING BOOM HOIST UNTIL BOOM REACHES DESIRED BOOM OPERATING RANGE. FOLD UNDER LUFFING JIB RADIUS MUST BE WITHIN CAPACITY CHART BEFORE SWINGING OVER SIDE OF MACHINE.

POSITION BOOM AT 80 DEGREES OR GREATER WITH BOOM AND FOLD UNDER LUFFING JIB INLINE OVER FRONT OF BLOCKED CRAWLERS PRIOR TO LOWERING FOLD UNDER LUFFING JIB. SLOWLY LOWER FOLD UNDER LUFFING JIB TO VERTICAL. LOWER BOOM UNTIL LUFFING JIB POINT ROLLERS ARE JUST CLEAR OF GROUND. REPOSITION LUFFING JIB POINT ROLLERS IF REQUIRED. SLOWLY BOOM DOWN AND ASSIST LUFFING JIB POINT ROLLERS IN FOLD UNDER DIRECTION. BOOM DOWN UNTIL FOLD UNDER LUFFING JIB HINGE PIN IS 35' OFF GROUND. DISCONNECT FOLD UNDER LUFFING JIB PENDANTS. RAISE LUFFING JIB STRUT WITH LUFFING JIB HOIST UNTIL LUFFING JIB STRUT IS IN LINE WITH FOLD UNDER LUFFING JIB. LOWER BOOM AND FOLD UNDER LUFFING JIB TO GROUND.

THE FOLLOWING BOOM AND FOLD UNDER LUFFING JIB COMBINATIONS MAY BE RAISED AND LOWERED USING FOLD UNDER JACK-KNIFE METHOD. BOOM LENGTHS SHOWN WITH ASTERISK (*) REQUIRE MAIN BOOM POINT TO BE REMOVED.

M-250, M-250 SERIES 2			
MAXIMUM BOOM AND FOLD UNDER LUFFING JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS USING FOLD UNDER JACK-KNIFE METHOD			
BOOM LENGTH		FOLD UNDER LUFFING JIB NO. 133A	
FEET	METERS	FEET	METERS
85	25.9	70	21.3
95	29.0	70 - 80	21.3 - 24.4
105	32.0	70 - 90	21.3 - 27.4
115	35.1	70 - 100	21.3 - 30.5
125	38.1	70 - 110	21.3 - 33.5
135	41.1	70 - 120	21.3 - 36.6
145	44.2	70 - 130	21.3 - 39.6
155	47.2	70 - 140	21.3 - 42.7
165	50.3	70 - 150	21.3 - 45.7
*175	53.3	70 - 160	21.3 - 48.8
*185	56.4	70 - 150	21.3 - 45.7
*195†	59.4	70 - 90	21.3 - 27.4
LOAD BLOCKS, HOOK AND WEIGHT BALL ON GROUND UNTIL BOOM AND FOLD UNDER LUFFING JIB ARE ERECTED. † 195' BOOM LENGTH REQUIRES M-250 SERIES 2 COUNTERWEIGHT.			

LUFFING JIB RAISING PROCEDURE**M-250****FOLD UNDER LUFFING JIB NO. 133A ON
BOOM NO. 44 WITH 5' (1524 mm) TOP****M-250 SERIES 2****B. LAYOUT IN-LINE METHOD**

BOOM AND FOLD UNDER LUFFING JIB ARE ASSEMBLED IN LAYOUT, END TO END, POSITION. SLOWLY RAISE BOOM UNTIL JIB STOP STRUT IS JUST CLEAR OF GROUND. ATTACH JIB STOP PENDANTS AND UNPIN JIB STOP INNER STRUT FROM RETRACTED POSITION. SLOWLY RAISE BOOM UNTIL JIB STOP STRUT IS FULLY EXTENDED AND PINS ENGAGED (APPROXIMATELY 168 DEGREE BOOM TO FOLD UNDER LUFFING JIB ANGLE). TIGHTEN FOLD UNDER LUFFING JIB SUSPENSION WITH LUFFING JIB HOIST. BOOM AND FOLD UNDER LUFFING JIB CAN THEN BE RAISED SIMULTANEOUSLY USING ONLY THE BOOM HOIST. REVERSE THIS PROCEDURE WHEN LOWERING BOOM AND FOLD UNDER LUFFING JIB.

THE FOLLOWING COMBINATIONS MAY BE RAISED AND LOWERED USING LAYOUT IN-LINE METHOD.

M-250, M-250 SERIES 2			
MAXIMUM BOOM AND FOLD UNDER LUFFING JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS USING LAYOUT IN-LINE METHOD			
BOOM LENGTH		FOLD UNDER LUFFING JIB NO. 133A	
FEET	METERS	FEET	METERS
85	25.9	70 - 200	21.3 - 61.0
95	29.0	70 - 180	21.3 - 54.9
105	32.0	70 - 170	21.3 - 51.8
115	35.1	70 - 150	21.3 - 45.7
125	38.1	70 - 130	21.3 - 39.6
135	41.1	70 - 110	21.3 - 33.5
145	44.2	70 - 90	21.3 - 27.4
155	47.2	70 - 80	21.3 - 24.4
LOAD BLOCKS, HOOK AND WEIGHT BALL ON GROUND UNTIL BOOM AND FOLD UNDER LUFFING JIB ARE ERECTED.			

LUFFING JIB RAISING PROCEDURE

M-250
**FOLD UNDER LUFFING JIB NO. 133A ON
BOOM NO. 44 WITH 5' (1524 mm) TOP**
M-250 SERIES 2
C. LAYOUT JACK-KNIFE METHOD

LONGER BOOM AND FOLD UNDER LUFFING JIB COMBINATIONS MUST BE RAISED AND LOWERED USING THIS METHOD. SLOWLY RAISE BOOM UNTIL JIB STOP STRUT IS JUST CLEAR OF GROUND. ATTACH JIB STOP PENDANTS AND UNPIN JIB STOP INNER STRUT FROM RETRACTED POSITION. SLOWLY RAISE BOOM UNTIL JIB STOP STRUT IS FULLY EXTENDED AND PINS ENGAGED (APPROXIMATELY 168 DEGREE BOOM TO FOLD UNDER LUFFING JIB ANGLE). BOOM IS THEN RAISED WHILE JIB POINT ROLLER IS ALLOWED TO ROLL ON GROUND. TENSION SHOULD BE APPLIED TO LUFFING JIB HOIST TO KEEP JIB STRUT OFF FOLD UNDER LUFFING JIB DURING BOOM RAISING. BOOM UP UNTIL BOOM TO FOLD UNDER LUFFING JIB ANGLE REACHES VALUE SPECIFIED IN TABLE OR VERTICAL, WHICHEVER OCCURS FIRST. TIGHTEN FOLD UNDER LUFFING JIB SUSPENSION WITH LUFFING JIB HOIST. BOOM AND FOLD UNDER LUFFING JIB ARE THEN RAISED TOGETHER USING BOOM HOIST UNTIL BOOM REACHES DESIRED BOOM OPERATING ANGLE. FOLD UNDER LUFFING JIB RADIUS MUST BE WITHIN CAPACITY CHART BEFORE SWINGING OVER SIDE OF MACHINE.

POSITION BOOM AT 80 DEGREES OR GREATER WITH BOOM AND FOLD UNDER LUFFING JIB INLINE OVER FRONT OF BLOCKED CRAWLERS PRIOR TO LOWERING FOLD UNDER LUFFING JIB. LOWER FOLD UNDER LUFFING JIB UNTIL BOOM TO FOLD UNDER LUFFING JIB ANGLE REACHES VALUE SPECIFIED IN TABLE. LOWER BOOM UNTIL LUFFING JIB POINT ROLLERS CONTACT GROUND. IF FOLD UNDER LUFFING JIB IS HANGING VERTICAL, RAISE FOLD UNDER LUFFING JIB A FEW DEGREES FORWARD OF VERTICAL. CONTINUE TO LOWER BOOM WHILE FOLD UNDER LUFFING JIB ROLLS ALONG GROUND. KEEP ENOUGH TENSION ON LUFFING JIB HOIST TO KEEP JIB STRUT OFF FOLD UNDER LUFFING JIB. STOP LOWERING BOOM WHEN JIB STOP PENDANTS START TO GO INTO TENSION (APPROXIMATELY 168 DEGREE BOOM TO LUFFING JIB ANGLE). DISENGAGE JIB STOP STRUT PINS AND LOWER BOOM TO RETRACT JIB STOP INNER STRUT. PIN STRUT IN RETRACTED POSITION AND UNPIN JIB STOP PENDANTS. ROTATE JIB STOP STRUTS FORWARD AND LOWER BOOM AND FOLD UNDER LUFFING JIB TO GROUND.

THE FOLLOWING BOOM AND FOLD UNDER LUFFING JIB COMBINATIONS REQUIRE JACK KNIFING TO A SPECIFIED BOOM TO FOLD UNDER LUFFING JIB ANGLE FOR RAISING AND LOWERING. BOOM LENGTHS SHOWN WITH ASTERISK (*) REQUIRE MAIN BOOM POINT TO BE REMOVED.

M-250				
MAXIMUM BOOM AND FOLD UNDER LUFFING JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS USING LAYOUT JACK-KNIFE METHOD				
BOOM FEET	LENGTH METERS	FOLD UNDER LUFFING JIB NO. 133A		BOOM TO FOLD UNDER LUFFING JIB ANGLE DEGREES
		FEET	METERS	
95	29.0	190 - 200	57.9 - 61.0	90
105	32.0	180 - 200	54.9 - 61.0	90
115	35.1	160 - 200	48.8 - 61.0	90
125	38.1	140 - 200	42.7 - 61.0	90
135	41.1	120 - 200	36.6 - 61.0	90
145	44.2	100 - 200	30.5 - 61.0	90
155	47.2	90 - 200	27.4 - 61.0	90
165	50.3	70 - 200	21.3 - 61.0	90
*175	53.3	70 - 200	21.3 - 61.0	60
*185	56.4	70 - 150	21.3 - 45.7	60
LOAD BLOCKS, HOOK AND WEIGHT BALL ON GROUND UNTIL BOOM AND FOLD UNDER LUFFING JIB ARE ERECTED.				

M-250 SERIES 2				
MAXIMUM BOOM AND FOLD UNDER LUFFING JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS USING LAYOUT JACK-KNIFE METHOD				
BOOM FEET	LENGTH METERS	FOLD UNDER LUFFING JIB NO. 133A		BOOM TO FOLD UNDER LUFFING JIB ANGLE DEGREES
		FEET	METERS	
95	29.0	190 - 200	57.9 - 61.0	90
105	32.0	180 - 200	54.9 - 61.0	90
115	35.1	160 - 200	48.8 - 61.0	90
125	38.1	140 - 200	42.7 - 61.0	90
135	41.1	120 - 200	36.6 - 61.0	90
145	44.2	100 - 200	30.5 - 61.0	90
155	47.2	90 - 200	27.4 - 61.0	90
165	50.3	70 - 200	21.3 - 61.0	90
*175	53.3	70 - 200	21.3 - 61.0	90
*185	56.4	70 - 150	21.3 - 45.7	90
*195	59.4	70 - 90	21.3 - 27.4	90
LOAD BLOCKS, HOOK AND WEIGHT BALL ON GROUND UNTIL BOOM AND FOLD UNDER LUFFING JIB ARE ERECTED.				