

OPERATOR'S MANUAL FOR MORSE MODEL 85 SERIES

85A and 85A-M for 55 gallon standard steel drums (22½" diameter)

85B and 85B-M for 30 gallon standard steel drums (19" diameter)

85C and 85C-M for steel or fibre drums (21-23" diameter)

85D and 85D-M for steel or fibre drums (19-20½" diameter)

A. IMPORTANT:

1. Review the Material Safety Data Sheet(s) for the material(s) in the drum(s) and take all necessary precautions. Safety shoes, work gloves, hard hat and other personal protective devices are recommended.
2. Please read all instructions *thoroughly* before attempting to operate your new MORSE drum handler.
3. The 85 Series has a maximum capacity rating of 800 Lb. in a full drum or 500 Lb. in a half-full drum and is intended for lifting, moving and pouring drums of size and type noted above. *DO NOT* exceed these ratings or an unsafe condition may result which could cause damage, excessive wear, or make the unit awkward or dangerous to handle.
4. When loading, unloading, operating, or maintaining your MORSE drum handler, always use care and good judgment. Maintain secure footing and a firm hold. Keep hands and loose clothing away from all moving parts. Never allow anyone to be below any part of a raised drum handler or drum. Read operating instructions and review the pictures in the sales brochure before operation.

B. OPERATING INSTRUCTIONS:

1. Start with Drum-Karrier on the floor. Lower hoist and engage hoist hook to lift Drum-Karrier.
2. Raise hoist to lift Drum-Karrier clear of floor and transport it to the drum.
3. Suspend Drum-Karrier at a height which aligns drum saddle with center of drum.
4. With binder (item 10 or 11) chain hanging freely, push Drum-Karrier against drum so that saddle will encircle drum.
5. Secure the drum: drape the binder chain (item 10 or 11) across the face of the drum and engage a link in notch in hub of ratchet (item 12). Pull up on ratchet handle to tighten chain. If the chain doesn't cinch tightly on the drum, lift the pawl (item 13) to loosen and release the chain and try again with a different link in the notch. Firm hand pressure on the ratchet handle should tighten the chain sufficiently to hold the drum. *DO NOT* use mechanical aids such as a pipe to extend handle for extra leverage.
6. Either one of the two spring loaded plunger tilt-locks may be locked to hold the drum upright. It is not necessary to lock both of them.
7. Raise hoist and position drum at pouring station.
8. Before unlocking the tilt-lock(s) to permit tilting the drum, it is recommended that you steady the drum and be prepared for its possible tendency to tilt toward its heavier side.
9. With tilt-locks unlocked, manually tilt the drum for pouring. The drum pouring angle may be varied or it can be locked in horizontal position by one of the tilt-locks.
10. After emptying, rotate drum back to vertical position and lower hoist to return the empty drum.
11. To remove drum: Pull ratchet handle to relieve pressure on ratchet teeth. Lift pawl handle (item 13) to release teeth engagement and rotate ratchet to loosen chain and allow its removal from notch.

CAUTION: Do not exceed weight capacity of 800 Lb. for FULL drum; 500 Lb. for HALF-FULL drum.

CAUTION: DO NOT allow drum to impact on floor, ground, dumping station, etc. or there may be damage.

C. MAINTENANCE:

1. Lubricate ratchet, pawl, tilt locks, fulcrum shafts and other moving parts periodically to maintain free action and reduce wear.
2. Periodically inspect all moving parts, framework and contact areas for signs of wear, fatigue or loosening. Tighten, adjust or replace parts as necessary to prevent failure and maintain proper function.
3. The inner, drum-gripping friction surface of the fibre drum strap (item 11) should be kept clean to maintain its ability to grip the drum.

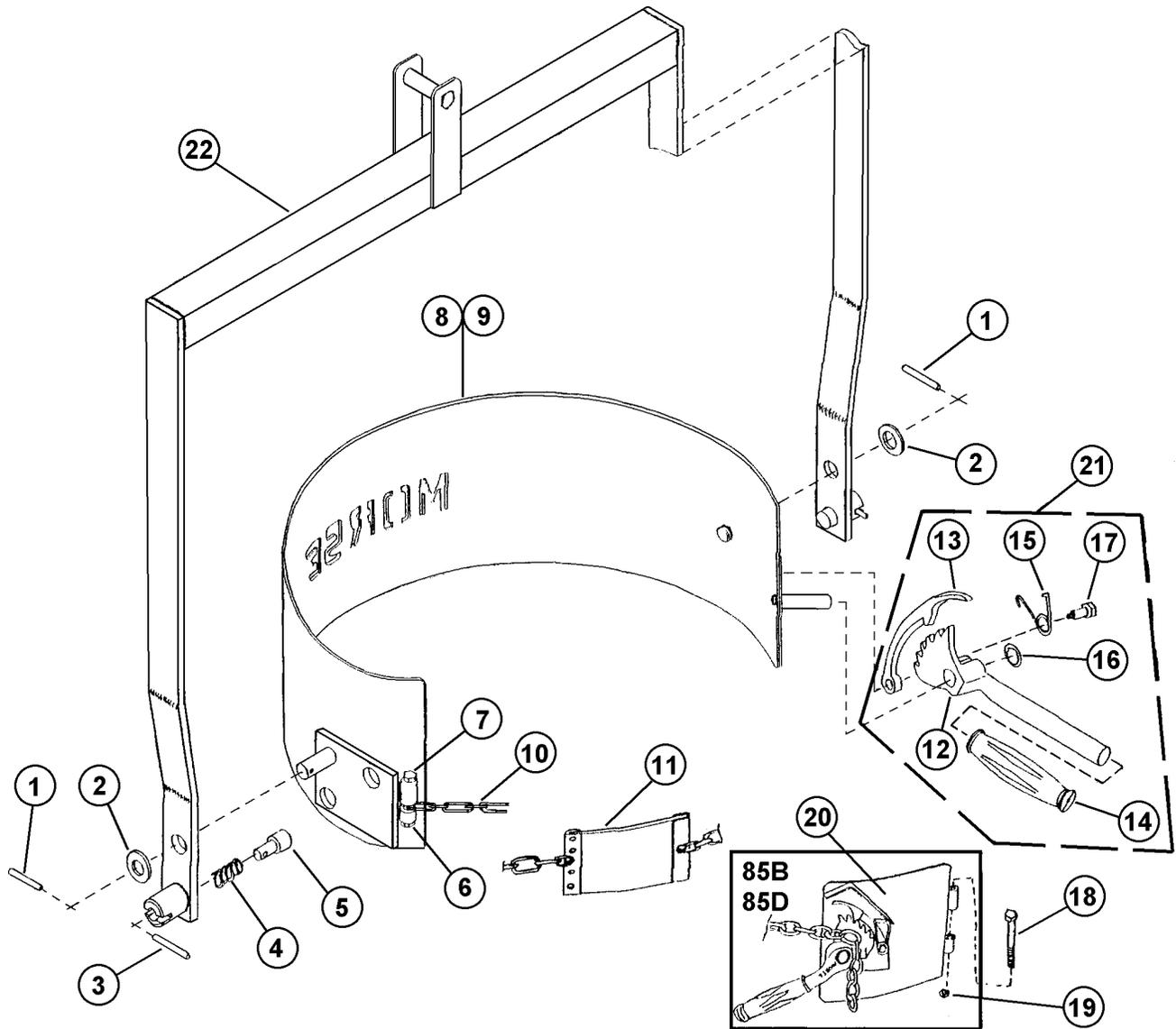
PARTS LIST

ITEM NUMBER	MODEL LETTER SUFFIX see note #1	QTY. REQ'D PER UNIT	PART NUMBER	DESCRIPTION
1		2	64-P	ROLL PIN, 3/16 X 1-1/4
2		2	62-P	WASHER, 3/4 SPRING
3		2	61-P	ROLL PIN, 3/16 X 2-1/2
4		2	60-P	PLUNGER SPRING, 80, 85
5		2	59-P	PLUNGER, 80, 85
6		1	1169-P	3/8 - 16 REV HEXLOC NUT
7		1	82-P	3/8 - 16 X 2-1/4 HHCS GR 2 STL
8	A	1	130A-P	SADDLE WELDMENT, 80A, 85A
8	A-M	1	130AM-P	SADDLE WELDMENT, SR, 80 85 A-M
8	B	1	130B-P	SADDLE WELDMENT, 80B, 85B
8	B-M	1	130BM-P	SADDLE WELDMENT, SR, 80 85 B-M
8	C	1	130C-P	SADDLE WELDMENT, 80C, 85C
8	C-M	1	130CM-P	SADDLE WELDMENT, SR, 80 85 C-M
8	D	1	130D-P	SADDLE WELDMENT, 80D, 85D
8	D-M	1	130DM-P	SADDLE WELDMENT, SR, 80 85 D-M
9	A	1	101A-P	SADDLE ASM CPT, 80A, 85A
9	A-M	1	101AM-P	SADDLE ASM CPT, SR, 80, 85 A-M
9	B	1	101B-P	SADDLE ASM CPT, 80B, 85B
9	B-M	1	101BM-P	SADDLE ASM CPT, SR, 80, 85 B-M
9	C	1	101C-P	SADDLE ASM CPT, 80C, 85C
9	C-M	1	101CM-P	SADDLE ASM CPT, SR, 80, 85 C-M
9	D	1	101D-P	SADDLE ASM CPT, 80D, 85D
9	D-M	1	101DM-P	SADDLE ASM CPT, SR, 80, 85 D-M
10	A, B	1	180-P	CHAIN, CINCH, 3/16 ALLOY 33 LK
10	A-M, B-M	1	1287-P	CHAIN, CINCH, 3/16" SS 33 LINK
11	C, D	1	E14	FIBRE DRUM STRAP 14"
11	C-M, D-M	1	E14SS	FIBRE DRUM STRAP, SS, SR
12		1	165-P	RATCHET, MALLEABLE, FOR SADDLE
13		1	168-P	PAWL, WITH DRILLED HOLE
14		1	136-P	HANDLE GRIP, 7/8" X 4-3/4"
15		1	169-P	PAWL SPRING
16		1	710-P	RETAINER, RATCHET PUSH ON 3/4"
17		1	170-P	3/8" DIA X 5/8" SHOULDER SCREW
18	B, B-M, D, D-M	1	1296-P	1/4 - 20 X 7-1/2 HHCS GR 5 STL
19	B, B-M, D, D-M	1	1297-P	1/4 - 20 REV HEXLOC NUT
20	B, D	1	725-P	RATCHET HINGE PLATE CPT 1/4" B
20	B-M, D-M	1	726M-P	HINGE PLATE CPT, 1/4" SR
21		1	165KIT-P	KIT, RATCHET CHAIN TIGHTENER
22	A, B, C, D	1	2389-P	LIFT YOKE, OVERHEAD CPT, 85
22	A-M, B-M, C-M, D-M	1	2389M-P	OVERHEAD ASM CPT, 85 SR

Note #1: If no letter is shown, the part is for all model 85.
If a letter is shown, the part is for the model with that letter suffix only.

Note #2: "SADDLE ASSEMBLY COMPLETE" includes the drum band and appropriate attached moving parts, such as 10 or 11, 18, 19, 20, 21.
"SADDLE WELDMENT" has no moving parts added.

PARTS DIAGRAM



For replacement parts, please contact your Morse dealer.

When ordering parts, please specify:

- Part number and description,
- Model number
- Serial number

Find model number and serial number on metal name plate attached to Drum-Karrier.