

Operator's Manual for MORSE 185-HD HEAVY-DUTY KONTROL-KARRIERS
Serial Number 0793 to _____ (MMYY)

185A-HD for 55 gallon standard steel drums (22 ½" diameter)

185G-HD for 55 gallon standard steel drums (22 ½" diameter)

185B-HD for 30 gallon standard steel drums (19" diameter)

185C-HD for steel or fibre drums (21-23" diameter)

185D-HD 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 185-HD series has a maximum capacity rating of 1500 Lb. FULL drum, and 800 Lb. HALF-FULL drum, and is intended for lifting, moving and pouring drums of size and type noted above. *DO NOT* exceed these ratings as an unsafe condition may result which could cause damage or excessive wear, or make the unit awkward to handle.
4. When loading, unloading, operating, or maintaining your MORSE drum handler, always use care and good judgment, have good footing and a firm hold. Keep hands and loose clothing, etc. 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.
5. The 185-HD is a "Group 1 - Structural and Mechanical" Below-the-Hook Lifting Device which is covered by the American National Standard ANSI/ASME B30.20. The user should comply with all aspects of this standard.

B. OPERATING INSTRUCTIONS:

1. Start with Kontrol-Karrier on the floor. Lower hoist and engage hoist hook to off-center lift point. Empty Kontrol-Karrier will hang plumb from off-center lift point.
2. Raise hoist to lift Kontrol-Karrier clear of floor and transport it next to the drum.
3. Suspend Kontrol-Karrier at a height which aligns drum saddle with center of drum.
4. With binder (item 28 or 29) chain hanging freely, push Kontrol-Karrier against drum so that saddle will encircle drum. (On the Model 185G-HD, pull the lynch pin (item 46), open the toggle clamp, and swing both hinge bands to the open position.)
5. Drape the binder across the face of the drum and engage a link in notch in hub of ratchet (item 37).
See assembly detail on page 3. (On the Model 185G-HD, close the two hinged bands around the drum, latch the toggle clamp, and insert the lynch pin.)
6. Lock drum in place by turning ratchet to tighten chain.
7. Move hoist hook to lift point which is centered over the drum.
8. Raise hoist and position drum at pouring station.
9. To pour drum: Pull on control chain (item 3) rotating drum to angle required for emptying. For best control of drum pouring angle, pay out one side of the loop while pulling in the other, thus being able to hold back the drum rotation after the load shifts.
10. After emptying, rotate drum back to vertical position and lower hoist to return empty drum.
11. To remove drum: Pull ratchet handle to relieve pressure on ratchet teeth. Lift pawl handle (item 33) to release teeth engagement and rotate ratchet to loosen chain and allow its removal from notch.

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

CAUTION: DO NOT exceed weight capacity of 1500 Lb. for FULL drum, 800 Lb. for HALF-FULL drum.

C. MAINTENANCE:

1. Lubricate gear teeth and roller chain.
2. Oil ratchet, pawl, saddle hinge and other moving parts periodically.
3. 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.

MORSE 185HD SERIES HEAVY-DUTY KONTROL-KARRIERS

Serial Numbers 0793 to ____ (MMYY)

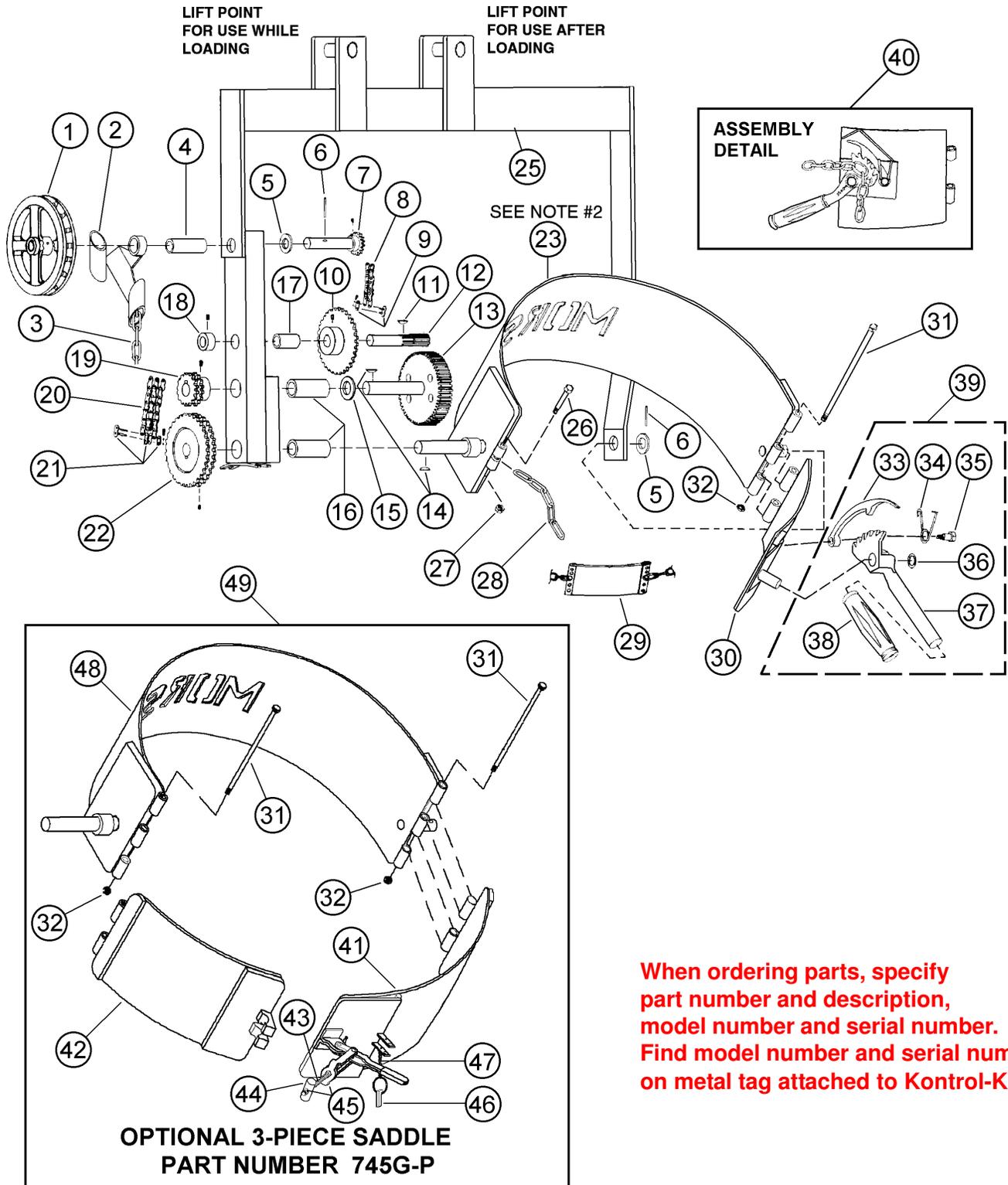
ITEM	MODEL SUFFIX (See note 1)	QTY	P/N	DESCRIPTION
1		1	1303-P	POCKET CHAIN WHEEL, 3/4 BORE
2		1	1304-P	GUIDE, POCKET CHAIN WHEEL
3		1	3-185-P	PULL CHAIN, POCKET, 12' LENGTH
4		1	19-P	BEARING, 3/4" ID X 2-1/2"
5		2	55-P	WASHER, 3/4 SAE FL 1-1/2 OD
6		2	64-P	ROLL PIN, 3/16 X 1-1/4
7		1	1302-P	SHAFT W/ 12T SPROCKET, POCKET
8		1	12-P	CHAIN, ROLLER, #35 W/ M LINK
9		1	795-P	LINK, MASTER, #35 CHAIN
10		1	13-P	SPROCKET #35 36T, 3/4" BORE
11		1	735-P	KEY, WOODRUFF, SIZE 9, ASA606
12		1	14-P	GEAR, PINION, 7 TOOTH
13		1	27-P	SPUR GEAR W/ 1" SHAFT, HD TYPE
14		2	736-P	KEY, WOODRUFF, SIZE 15, ASA808
15		1	29-P	SPACER, SPUR GEAR .15"
16		2	18-P	BEARING, 1" ID X 2-1/2"
17		1	7-P	BEARING, 3/4" ID X 1-1/2"
18		1	15-P	COLLAR, 3/4" ID
19		1	30-P	SPROCKET #40D 16T, 1" BORE
20		1	31-P	CHAIN, ROLLER, #40D W/ M. LINK
21		1	796-P	LINK, MASTER, FOR #40D CHAIN
22		1	32-P	SPROCKET #40D 32T, 1" BORE
23 (See note 2)	A	1	745A-P	SADDLE ASM CPT, A-HD, '88
23 (See note 2)	B	1	745B-P	SADDLE ASM CPT, B-HD, '88
23 (See note 2)	C	1	745C-P	SADDLE ASM CPT, 185C-HD
23 (See note 2)	D	1	745D-P	SADDLE ASM CPT, 185D-HD
24 **				SADDLE WELDMENT
25	A,C	1	48-P	LIFT YOKE W/ BRGS, 185HD, A, C
25	B,D	1	48B-P	LIFT YOKE W/ BRGS, 185HD, B, D
26	A,B,C,D	1	82-P	3/8 - 16 X 2-1/4 HHCS GR 2 STL
27	A,B,C,D	1	1169-P	3/8 - 16 REV HEX LOC NUT
28	A,B	1	180-P	CHAIN, CINCH, 3/16 ALLOY 33 LK
29	C,D	1	E14	FIBRE DRUM STRAP 14"
30	A,C	1	731-P	RATCHET HINGE PLATE ONLY 1/4 A
30	B,D	1	730-P	RATCHET HINGE PLATE ONLY 1/4 B
31	A,B,C,D	1	1296-P	1/4 - 20 X 7-1/2 HHCS GR 5 STL
31	G	2	1296-P	1/4 - 20 X 7-1/2 HHCS GR 5 STL
32	A,B,C,D	1	1297-P	1/4 - 20 REV HEX LOC NUT
32	G	2	1297-P	1/4 - 20 REV HEX LOC NUT
33	A,B,C,D	1	168-P	PAWL, WITH DRILLED HOLE
34	A,B,C,D	1	169-P	PAWL SPRING
35	A,B,C,D	1	170-P	3/8" DIA X 5/8" SHOULDER SCREW
36	A,B,C,D	1	710-P	RETAINER, RATCHET PUSH ON 3/4"
37	A,B,C,D	1	165-P	RATCHET, MALLEABLE, FOR SADDLE
38	A,B,C,D	1	136-P	HANDLE GRIP, 7/8" X 4-3/4"
39	A,B,C,D	1	165KIT-P	KIT, RATCHET CHAIN TIGHTENER
40	A,C	1	726-P	RATCHET HINGE PLATE CPT 1/4" A
40	B,D	1	725-P	RATCHET HINGE PLATE CPT 1/4" B
41	G	1	2671-P	HINGE CPT, IDLER, 3PC
42	G	1	2672-P	HINGE CPT, DRIVE, 3PC
43	G	1	2870-P	THREADED ROD, PCR-2000
44	G	1	2674-P	THREADED BARREL, CAMLOCK
45	G	1	2872-P	3/8 - 24 FIN HEX NUT, PCR-2000
46	G	1	2871-P	LINCH PIN, 3PC SADDLE
47	G	1	2680-P	KEEPER CHAIN, LINCH PIN, 6"
48	G	1	750G-P	SADDLE WELDMENT, 3PC, HD
49	G	1	745G-P	SADDLE ASM CPT, 3PC, G-HD

Note #1: If no letter is shown, the part is for Models 185A-HD, 185B-HD, 185C-HD, 185D-HD OR 185G-HD.
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, 26-38.

** SADDLE WELDMENT IS NO LONGER SOLD SEPARATELY

Heavy-Duty Kontrol-Karriers
 Serial Number 0793 to _____



When ordering parts, specify part number and description, model number and serial number. Find model number and serial number on metal tag attached to Kontrol-Karrier.