

**OPERATORS MANUAL FOR MORSE 185HD Series Heavy-Duty Kontrol-Karriers
Serial # 0385 to 0787 (MMYY)**

185A-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 chain hanging freely, push Kontrol-Karrier against drum so that saddle will encircle drum.
5. Drape the binder across the face of the drum and engage a link in notch in hub of ratchet. *See assembly detail on page 3.*
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 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 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.

PARTS LIST FOR MORSE 185HD Series Heavy-Duty Kontrol-Karriers
Serial # 0385 to 0787 (MMYY)

MORSE MODEL 185A-HD SERIES KONTROL-KARRIER S/N 0385-0787

ITEM NUMBER	MODEL LETTER SUFFIX see note #1	QTY	P/N	DESCRIPTION
1		1	1-P	CHAIN WHEEL #1-1/2 W/ GUIDE
2		1	2-185-P	PULL CHAIN, 1/0, 12' LENGTH
3		1	3-P	TRIANGLE & SHAFT W/ BOLTS
4		4	33-P	ALEMITE GREASE FIT
5		1	19-P	BEARING, 3/4" ID X 2-1/2"
6		2	55-P	WASHER, 3/4 SAE FL 1-1/2 OD
7		1	11-P	SPROCKET, #35 12T, 3/4" BORE
8		1	12-P	CHAIN, ROLLER, #35 W/ M LINK
9		1	13-P	SPROCKET #35 36T, 3/4" BORE
10		1	14-P	GEAR, PINION, 7 TOOTH
11		2	735-P	KEY, WOODRUFF, SIZE 9, ASA606
12		1	27-P	SPUR GEAR W/ 1" SHAFT, HD TYPE
13		2	736-P	KEY, WOODRUFF, SIZE 15, ASA808
14		1	29-P	SPACER, SPUR GEAR .15"
15		1	7-P	BEARING, 3/4" ID X 1-1/2"
16		2	18-P	BEARING, 1" ID X 2-1/2"
17		1	15-P	COLLAR, 3/4" ID
18		1	30-P	SPROCKET #40D 16T, 1" BORE
19		1	31-P	CHAIN, ROLLER, #40D W/ M. LINK
20		1	32-P	SPROCKET #40D 32T, 1" BORE
21		1	48-P	LIFT YOKE W/ BRGS, 185HD, A, C
22	A	1	103A-P	** SADDLE CPT, 185A-HD
22	B	1	103B-P	** SADDLE CPT, 185B-HD
22	C	1	103C-P	** SADDLE CPT, 185C-HD
22	D	1	103D-P	** SADDLE CPT, 185D-HD
23	A	1	132A-P	** DRUM BAND ONLY 185A-HD
23	B	1	132B-P	** DRUM BAND ONLY 185B-HD
23	C	1	132C-P	** DRUM BAND ONLY 185C-HD
23	D	1	132D-P	** DRUM BAND ONLY 185D-HD
24		2	1632-P	3/8 - 16 X 7-1/2 HINGE BOLT
25		2	1169-P	3/8 - 16 REV HEX LOC NUT
26		1	155-P	3/8 - 16 X 2-1/2 HHCS GR 2
27		1	150-P	CHAIN HINGE PLT, 285 TYPE
28	AB	1	180-P	CHAIN, CINCH, 3/16 ALLOY 33 LK
28	C,D	1	E14	FIBRE DRUM STRAP 14"
29		1	64-P	ROLL PIN, 3/16 X 1-1/4
30		1	491-P	5/16 - 18 REV HEX LOC NUT
31		1	159-P	RATCHET HINGE PLATE ONLY, 3/8"
32		1	168-P	PAWL, WITH DRILLED HOLE
33		1	169-P	PAWL SPRING
34		1	170-P	3/8" DIA X 5/8" SHOULDER SCREW
35		1	166-P	SNAP RING, EXTERNAL, 5SSC-P 82
36		1	165-P	RATCHET, MALLEABLE, SADDLE
37		1	136-P	HANDLE GRIP, 7/8" X 4-3/4"
38		1	159-PC	RATCHET HINGE PLATE CPT, 3/8"
39		1	165KIT-P	KIT, RATCHET CHAIN TIGHTENER

Note #1: If no letter is shown, the part is for Models 185A-HD, 185B-HD, 185C-HD, or 185D-HD
If a letter is shown, the part is for the model with that letter suffix only.

Note #2: "SADDLE COMPLETE" includes the drum band and appropriate attached moving parts, 24-37.

PARTS DIAGRAM FOR
MORSE 185HD Series Heavy-Duty Kontrol-Karriers
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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 frame.

