

**Operators Manual for Morse Omni-Lift Karriers**  
**Serial Number 0992 to 0702**

**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. Model 405 series Omni-Lift Karriers have a maximum capacity of 800 Lb. full and 500 Lb. half-full and are intended for 55 gallon, 22½" diameter standard steel drums. *DO NOT* exceed these ratings. Exceeding these ratings or handling drums other than those mentioned above is unsafe and could result in equipment damage, excessive wear, or make the unit awkward or dangerous to handle.
4. Omni-Lift Karriers are intended for lifting, moving, and holding drums for tilting, pouring or racking. Drums may be lifted upright to or from the floor or other suitable surface on dollies, scales, etc.
5. 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. Roll the Omni-Lift Carrier to the drum.
2. Position the drum holder (Saddle Assembly: item 43) into the vertical position with the cross bar on top. Swing open ratchet hinge plate. The cinch chain (item 44) can be kept from dragging on the floor by hanging it on the pin at the front of the gear block (item 57).
3. Roll forward to mate the drum holder squarely and tightly to the drum. If necessary, turn drum tilt control to adjust attitude of the drum holder to fit flush to the drum.
4. Secure the drum: Drape the cinch chain across the face of the drum and engage a link into the slot on the ratchet (item 53). Turn ratchet handle clockwise to tighten the chain. If ratchet turns to the extent that the pawl (item 49) is beyond the last ratchet tooth and the chain is not tight, back up and try putting the next link in the slot. The chain should tighten as the ratchet turns and be held tight by the teeth of the ratchet and pawl. See page 4 (item 57) for how it might look when it's tight.
5. Pump the lever handle (item 5) (or operate the power lift) to raise the drum enough to clear the floor.
6. Move the Omni-Lift with the drum to the racking area. NOTE: DO NOT TRANSPORT WITH A RAISED DRUM. TRANSPORT THE DRUM UPRIGHT AT A HEIGHT CLEAR OF THE FLOOR. DO NOT ALLOW THE DRUM TO IMPACT ON FLOOR, RACKING STATION, ETC. OR A SPILL OR DAMAGE COULD OCCUR.
7. Raise the drum (hand pump or power lift) to the desired racking height. Drum attitude may be adjusted during the lift. (Turn the crank or use the power tilt control). Note: Before releasing your grip on the hand crank (item 24), pull out the crank stop pin (item 27) to block the crank from spinning freely. Disconnect cinch chain with drum in horizontal and place drum into rack.
8. To lower the drum with the hand pump, open release valve slowly, a part of a turn. Allow the drum to descend at a controlled rate. The valve may be reclosed to hold the drum at any height. To lower the drum with the power lift, lower the left control valve.
9. When retrieving drum from rack, raise drum slightly, back unit out of rack and lower with drum in horizontal position to a point where the cinch chain can be reattached. Lower drum to the floor in a vertical or horizontal position and disconnect cinch chain to release drum.
10. The screw-down floor lock may be used if there is a tendency for the unit to roll while dispensing.

**C. MAINTENANCE:**

1. Grease wheel bearings periodically. Oil or grease all moving parts including: the three clevis pins (item 9) and the surfaces of the boom which contact the inside of the mast cap, the hinge pin (item 46), the pump handle-socket linkage, the gears and sprockets in the tilt drive, and the ratchet and pawl.
2. Information for hydraulic components is provided on other sheets.
3. Periodically inspect all framework and parts for signs of wear, fatigue or loose hardware, etc. Replace, tighten or adjust as necessary to maintain proper function and prevent failures.

**D. PARTS INFORMATION**

Worn or damaged parts must be properly replaced with the correct, genuine Morse parts. See parts list and diagram on pages 2, 3, 4, 5 and 6.

### PARTS LIST FOR MORSE 405 OMNI-LIFT SERIES

Serial Number 0992 to 0702 (MMYY)

ITEM NUMBER	MODEL	QUANTITY PER UNIT	PART NUMBER	DESCRIPTION
1		4	1521-P	3/8 - 16 X 3" HHCS GR 5 STL
2		8	1166-P	WASHER, 3/8 USS 1" OD
3		10	1169-P	3/8 - 16 REV HEX LOC NUT
4		2	134-84-P	LEG WELDMENT, 400A-84
5		1	96CP13-23	HANDLE, LEVER W/ GRIP, STAR
6		8	215-P	5/16 - 18 X 5/8 HHCS GR 2
7		8	491-P	5/16 - 18 REV HEX LOC NUT
8		1	96MK1939-P	PUMP, HYD, HAND STAR
9		3	138-P	CLEVIS PIN 5/8 X 3"
10		4	1572-P	3/8 - 16 X 1" HHCS GR 2 STL
11		1	765-P	HYD FITTING, MALE ELBOW
12		2	705-P	PUSH-ON HUB CAP, 3/4"
13		2	704-P	AXLE, 3/4", USE WITH PUSH-ON
14		2	87-P	WHEEL, MORTUF, 8", 3/4" BRG
15		2	86-P	CASTER, SWIVEL, 4"
16		1	135-P	TOWER WELDMENT, 400A-60, 72
17		1	139-P	OVERHEAD WELDMENT, 405
18 (Note 1)	405	1	139CPT-P	OVERHEAD ASM CPT, 405
18 (Note 1)	405M	1	139MCPT-P	OVERHEAD ASM CPT, 405M
19		1	766-P	HYD HOSE ASM, 12"
20		7	17-P	WASHER, 5/8 SAE FL 1-5/16 OD
21		4	64-P	ROLL PIN, 3/16 X 1-1/4
22		1	780-P	CYLINDER, 1.5 X 22.625" STROKE
23		4	136-P	HANDLE GRIP, 7/8" X 4-3/4"
24		1	5-P	HAND CRANK, 400, 405
25		2	735-P	KEY, WOODRUFF, SIZE 9, A SA606
26		1	19-P	BEARING, 3/4" ID X 2-1/2"
27	405	1	100-P	STOP PIN, HAND CRANK, 1/2"
27	405M	1	2779-P	STOP PIN, HAND CRANK, SS
28		1	15-P	COLLAR, 3/4" ID
29		1	7-P	BEARING, 3/4" ID X 1-1/2"
30		1	16-P	COLLAR, 1" ID
31		1	18-P	BEARING, 1" ID X 2-1/2"
32		3	55-P	WASHER, 3/4 SAE FL 1-1/2 OD
33		1	11-P	SPROCKET, #35 12T, 3/4" BORE
34		1	795-P	LINK, MASTER, #35 CHAIN
35		1	12-P	CHAIN, ROLLER, #35 W/ M LINK
36		1	13-P	SPROCKET #35 36T, 3/4" BORE
37		1	718-P	PUSH NUT, 1/2"
38		1	14-P	GEAR, PINION, 7 TOOTH

### PARTS LIST FOR MORSE 405 OMNI-LIFT SERIES

Serial Number 0992 to 0702 (MMYY)

ITEM NUMBER	MODEL	QUANTITY PER UNIT	PART NUMBER	DESCRIPTION
39		1	23-P	GEAR, SPUR, 72T, 1" HOLE
40		1	29-P	SPACER, SPUR GEAR .15"
41		2	22-P	3/8 - 24 X 5/8" SHCS STL
42	405	1	1179-P	SADDLE WELDMENT, 405
42	405M	1	1179M-P	SADDLE WELDMENT, 405M
43 (Note 2)	405	1	1180-P	SADDLE ASM CPT, 405
43 (Note 2)	405M	1	1118-P	SADDLE ASM CPT, 405M
44	405	1	180-P	CHAIN, CINCH, 3/16 ALLOY 33 LK
44	405M	1	1287-P	CHAIN, CINCH, 3/16" SS 33 LINK
45		1	82-P	3/8 - 16 X 2-1/4 HHCS GR 2 STL
46		1	1632-P	HINGE BOLT, 3/8 - 16 X 7-1/2
47	405	1	156-P	RATCHET HINGE PLATE ONLY, 405
47	405M	1	156M-P	RATCHET HINGE PLATE ONLY 405M
48		1	165KIT-P	KIT, RATCHET CHAIN TIGHTENER
49		1	168-P	PAWL, WITH DRILLED HOLE
50		1	710-P	RETAINER, RATCHET PUSH ON 3/4"
51		1	169-P	PAWL SPRING
52		1	170-P	3/8" DIA X 5/8" SHOULDER SCREW
53		1	165-P	RATCHET, MALLEABLE, FOR SADDLE
54		1	2021-P	IDLER ANGLE SUPPORT, 405
55		2	1474-P	WASHER, 3/8 SPLIT LOCK
56		2	535-P	3/8 - 16 X 1-1/4 HHCS GR 5 STL
57	405	1	156CPT-P	RATCHET HINGE PLATE CPT, 405
57	405M	1	156MCPT-P	RATCHET HINGE PLATE CPT, 405M

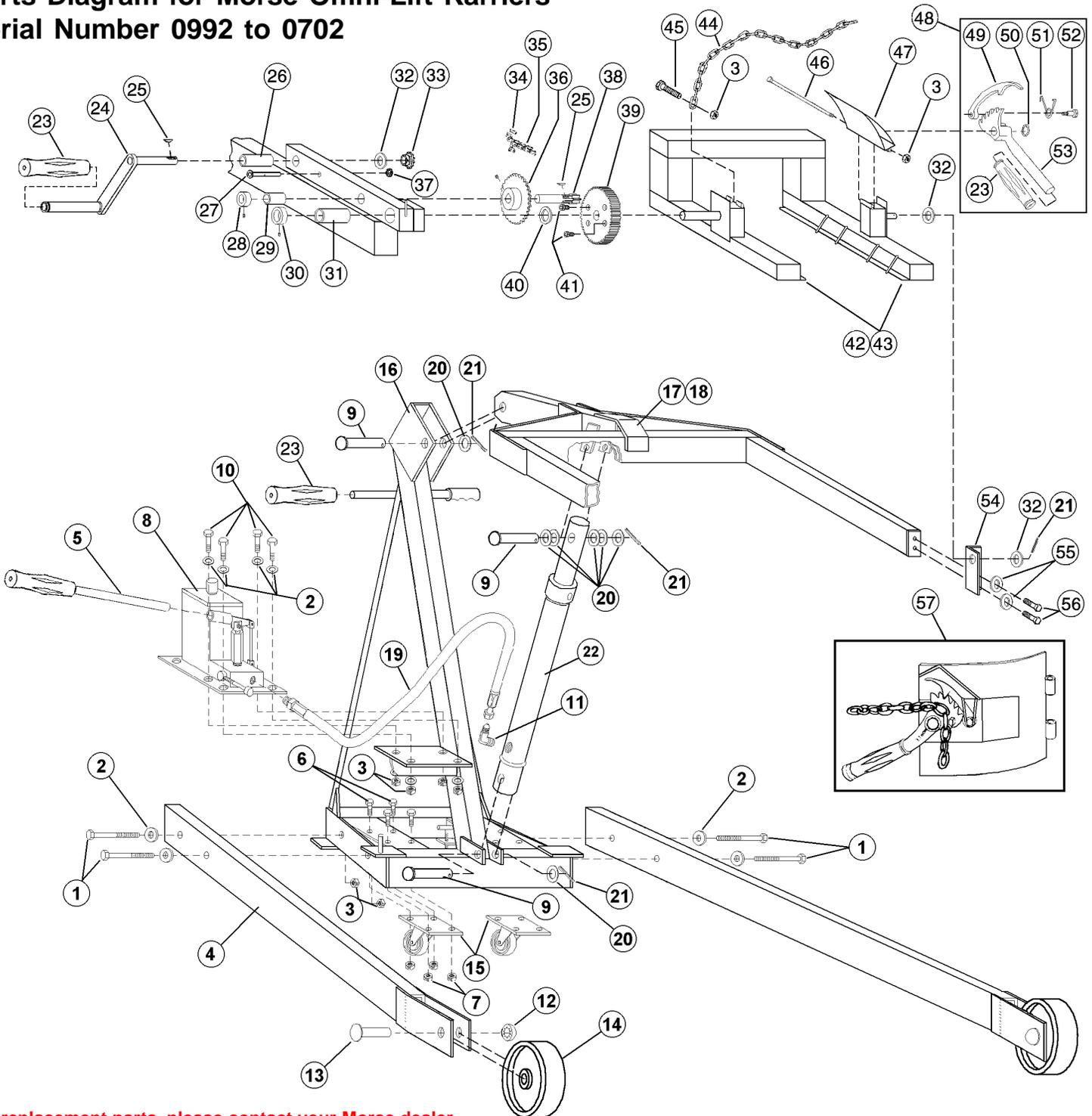
**NOTE #1:** "Overhead Assembly Complete" includes the overhead weldment #17, saddle assembly complete #43, tilt gear assembly #24 with related parts and #26 through 41, etc., all factory assembled.

**NOTE #2:** "Saddle Assembly Complete" includes the saddle weldment #42 and appropriate attached moving parts, such as #3, 44, 45, 46 & 57.

**NOTE #3:** Basic model 405 includes hand pump hydraulic lift and manually driven geared tilt as pictured. Motor powered hydraulic lift and powered tilt are available options. Power lift is available for retrofit to replace hand pump lift. Contact your dealer for info.

**NOTE #4:** Unless otherwise specified, parts are for Model 405 or 405M.

### Parts Diagram for Morse Omni-Lift Karriers Serial Number 0992 to 0702



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 Omni-Lift Karrier.

Website: [www.MORSEmfgco.com](http://www.MORSEmfgco.com)

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Form PL 405 (0992-0702)

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### Parts List for Morse Omni-Lift Karriers Power Tilt Option Serial Number 0992 to 0702

ITEM NUMBER	MODEL LETTER SUFFIX see note #1	QTY. REQ'D PER UNIT	PART NUMBER	DESCRIPTION
1		9	193-P	SCREW, TEK, 12-14 X 3/4" 3 PT
2		1	1755-P	COVER HALF SQ, NO HOLES 400 PT
3		1	351-P	MOTOR, HYDRAULIC HYD, 400, 456
4		2	2120-P	HYD FITTING 0103-8-4, 456 400
5		1	30-P	SPROCKET #40D 16T, 1" BORE
6		1	32-P	SPROCKET #40D 32T, 1" BORE
7		1	31-P	CHAIN, ROLLER, #40D W/ M. LINK
8		1	796-P	LINK, MASTER, FOR #40D CHAIN
9		1	15-P	COLLAR, 3/4" ID
10		1	7-P	BEARING, 3/4" ID X 1-1/2"
11		2	18-P	BEARING, 1" ID X 2-1/2"
12		4	1474-P	WASHER, 3/8 SPLIT LOCK
13		4	1657-P	3/8 - 16 X 3/4 HHCS GR 2 STL
14		1	1116-P	SPROCKET #35 17T, 1" BORE
15		1	12-P	CHAIN, ROLLER, #35 W/ M LINK
16		1	13-P	SPROCKET #35 36T, 3/4" BORE
17		1	735-P	KEY, WOODRUFF, SIZE 9, ASA606
18		1	14-P	GEAR, PINION, 7 TOOTH
19		1	29-P	SPACER, SPUR GEAR .15"
20		3	736-P	KEY, WOODRUFF, SIZE 15, ASA808
21		1	27-P	SPUR GEAR W/ 1" SHAFT, HD TYPE
22		1	1772-P	COVER HALF SQ, 1 HOLE, 400 PT
23		2	1169-P	3/8 - 16 REV HEX LOC NUT
24	405	1	180-P	CHAIN, CINCH, 3/16 ALLOY 33 LK
24	405M	1	1287-P	CHAIN, CINCH, 3/16" SS 33 LINK
25		1	82-P	3/8 - 16 X 2-1/4 HHCS GR 2 STL
26 (Note 1)	405	1	1181-P	SADDLE ASM CPT, 405 PT
26 (Note 1)	405M	1	2781-P	SADDLE ASM CPT, 405MPT
27	405	1	2691-P	SADDLE WELDMENT, 405 PT
27	405M	1	2782-P	SADDLE WELDMENT, 405MPT
28		1	2021-P	IDLER ANGLE SUPPORT, 405
29		1	1632-P	HINGE BOLT, 3/8 - 16 X 7-1/2
30		1	64-P	ROLL PIN, 3/16 X 1-1/4
31		2	55-P	WASHER, 3/4 SAE FL 1-1/2 OD
32	405	1	156-P	RATCHET HINGE PLATE ONLY, 405
32	405M	1	156M-P	RATCHET HINGE PLATE ONLY 405M
33		1	168-P	PAWL, WITH DRILLED HOLE
34		1	169-P	PAWL SPRING
35		1	170-P	3/8" DIA X 5/8" SHOULDER SCREW
36		1	710-P	RETAINER, RATCHET PUSH ON 3/4"
37		1	165-P	RATCHET, MALLEABLE, FOR SADDLE
38		1	136-P	HANDLE GRIP, 7/8" X 4-3/4"
39		1	165KIT-P	KIT, RATCHET CHAIN TIGHTENER
40	405	1	156CPT-P	RATCHET HINGE PLATE CPT, 405
40	405M	1	156MCPT-P	RATCHET HINGE PLATE CPT, 405M
41		2	1474-P	WASHER, 3/8 SPLIT LOCK
42		2	535-P	3/8 - 16 X 1-1/4 HHCS GR 5 STL
43		2	1766-P	HYD HOSE ASM, 405 PT, 91"
44 (Note 2)	405	1	2019-P	OVERHEAD ASM CPT, 405 PT
44 (Note 2)	405M	1	2780-P	OVERHEAD ASM CPT, 405MPT
45	405	1	2018-P	OVERHEAD WELDMENT, 405 PT

NOTE #1: Saddle Assembly Complete includes the Saddle Weldment (#27) and appropriate attached moving parts: #23, 24, 25, 29, & 40.

NOTE #2: Overhead Assembly Complete includes the Overhead Weldment (#45), Saddle Assembly complete (#26) and part #'s 1 through 42, all factory assembled.

### Parts Diagram for Morse Omni-Lift Karriers Serial Number 0992 to 0702

