

**OPERATOR'S MANUAL FOR MORSE 285 SERIES FORK LIFT KARRIER**  
Serial Number 0793 to \_\_\_\_ (MMYY)

**MODELS:**     **285A – for 55 gallon standard steel, ribbed drums**  
                  **285A/E – for 55 gallon standard steel drums and \*fibre drums**  
                  **285G – for 55 gallon standard steel drums / features three-piece saddle**

**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 models 285A, 285A/E, and 285G have a maximum capacity rating of 800 lb. full drum and 500 lb. half-full drum and are designed to lift, move and pour *55 gallon steel drums*. (The model 285A/E can handle a fibre drum if the appropriate saddle adaptor, 55/30 series, is installed.) *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 awkward handling.
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.
5. Because the 285 series are front-end attachments for a forklift, OSHA recommends that “... *the truck (forklift) be marked to identify the attachment(s) and show the approximate weight of the truck and attachment combination at maximum elevation with load laterally centered.*”

Prior to initial use, inspect all moving parts and test rotation of chain wheel and saddle assembly. Inspect ratchet, pawl and cinch chain for proper operation. Perform necessary load test, inspections, operator training, etc.

**B. OPERATING INSTRUCTIONS:**

1. Before sliding forklift forks into the fork tubes, adjust forks to an inside spread of 24-1/2” minimum. Lock forks into position on the forklift carriage.
2. Drive the forklift forward to slip the forks into the fork tubes (see item #36). Tighten tee screws (item #37) to secure the Forklift Karrier to the forks.
3. Release the cinch chain (item #19), or E14 strap (item #38), and hang the loose end from the upright peg on the front of the gear block. Swing the ratchet hinge plate to the open position. (On the model 285G, pull the linchpin (item #46), open the toggle clamp, and swing both hinge bands to the open position.)
4. Drive the forklift with the Forklift Karrier near floor level to position the saddle band around the middle of the drum between the ribs.
5. Drape the cinch chain across the front of the drum and insert one link into the slot on the ratchet handle (item #33). Turn the ratchet handle clockwise to tighten the cinch chain around the drum (see detail). (On the model 285G, close the two hinged bands around the drum, latch the toggle clamp, and insert the linchpin.)
6. Remove pull chain (item #3) from chain box on base frame (item #36) and place end of loop near operator’s seat.
7. Raise forks to clear the floor and transport drum in **vertical** position to dispensing location.
8. To pour drum: pull on chain (item #3), rotating drum to angle required for dispensing. To control the pouring angle of the drum, pay out one side of chain and pull the other side to prevent the drum from free-wheeling.
9. When dispensing is completed, rotate the drum back to vertical and return drum. While transporting, ensure that the drum is raised away from the floor to prevent the drum bottom from interfering with a pallet or other obstacle.

**CAUTION: DO NOT ALLOW DRUM TO IMPACT ON FLOOR, GROUND, OR DUMPING STATION, ETC.**

**CAUTION: DO NOT exceed weight capacity of 800 lb. for FULL drum, 500 lb. for HALF-FULL drum.**

**MORSE 285 SERIES FORK LIFT KARRIER**  
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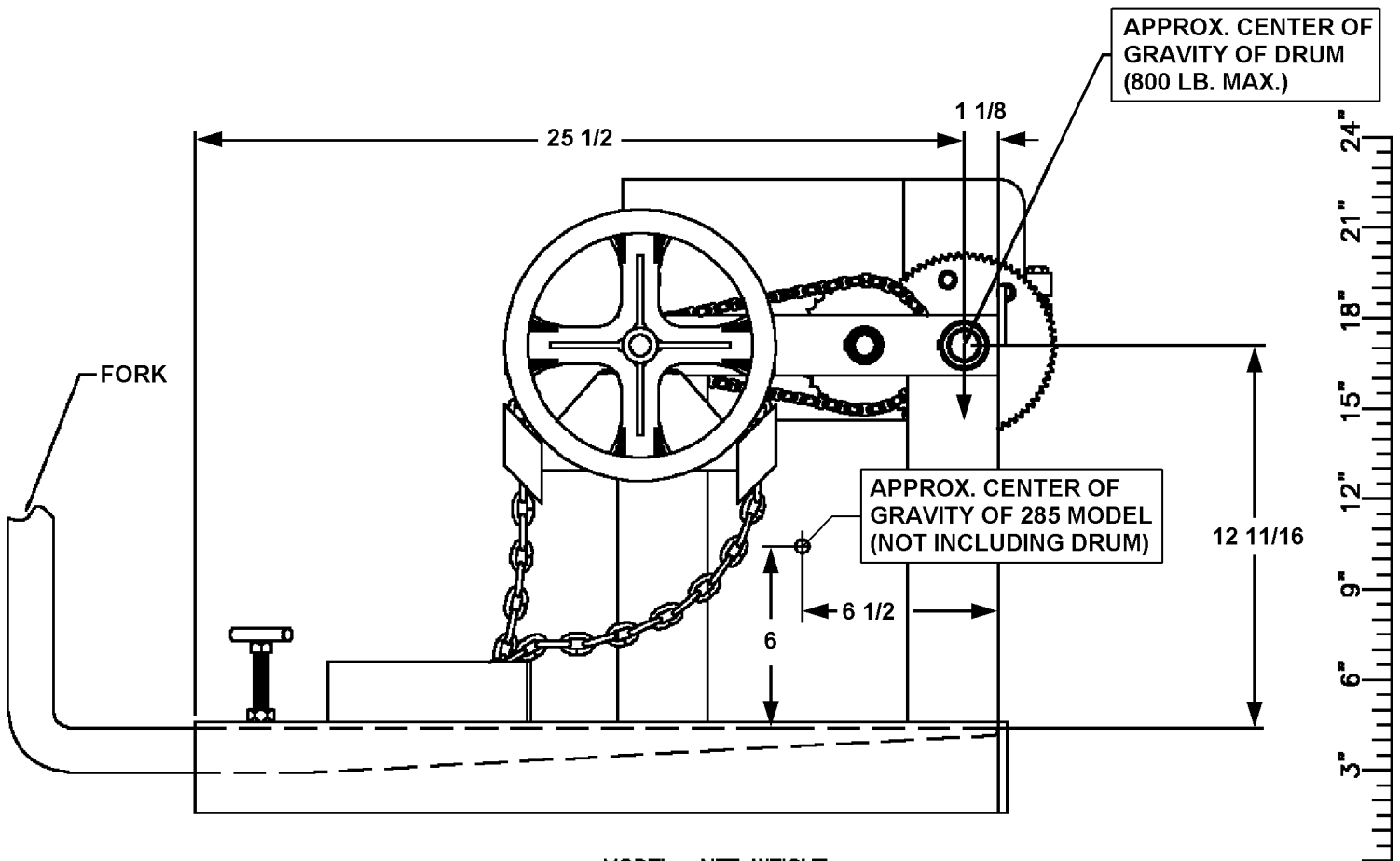
**C. MAINTENANCE:**

1. Lubricate gear teeth and roller chain.
2. Clean and oil ratchet, pawl, saddle hinge, and other moving parts periodically. (Clean & lubricate more often in environments where dust, dirt or other foreign particles will effect the performance of moving parts.)
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.

*\* For each size fibre drum, the model 285A/E requires a 55/30 series saddle adaptor.*

**LOST LOAD CAPACITY WITH MORSE 285 SERIES FORK LIFT KARRIER**  
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**CENTER OF GRAVITY DIMENSIONS FOR CALCULATING LOST LOAD ON EQUIPMENT**



DIMENSIONS ARE MEASURED FROM INSIDE OF FORK TUBE END. THIS WILL GIVE A FIXED POINT TO WHICH LOST LOAD DATA CAN BE DETERMINED. (FORKS MUST BE TOUCHING THIS FORK TUBE END.)

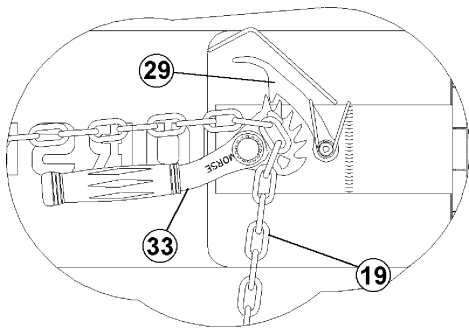
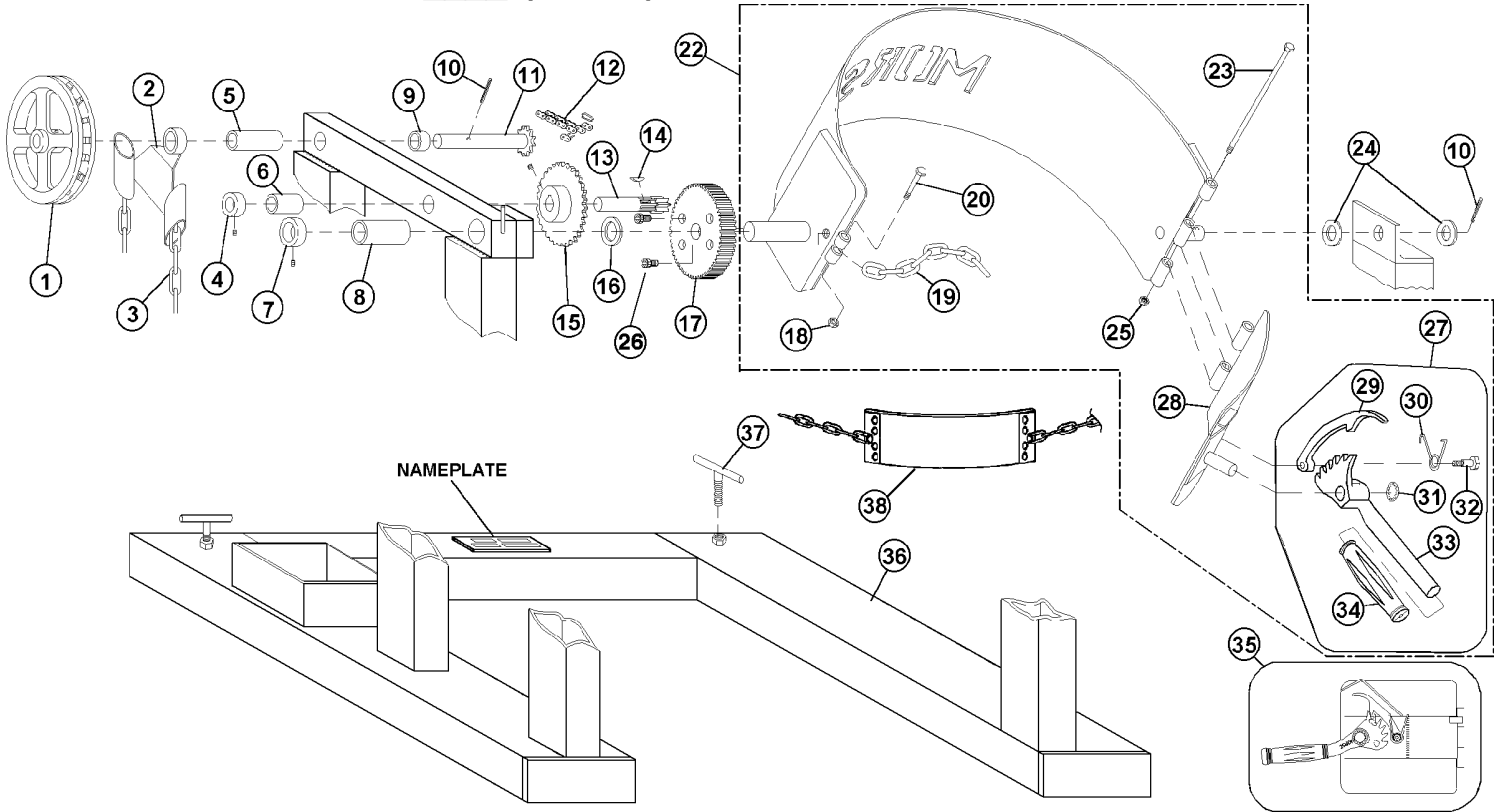
| MODEL  | NET WEIGHT |
|--------|------------|
| 285A   | 138 LB.    |
| 285A-M | 138 LB.    |
| 285A/E | 140 LB.    |
| 285G   | 148 LB.    |

| OPTION | ADD OR SUBTRACT TO MODEL |
|--------|--------------------------|
| X01    | 0 LB.                    |
| X02    | -4 LB.                   |
| X03    | 0 LB.                    |

| ITEM | * MODEL      | MODEL SUFFIX | QTY. | PART NUMBER | DESCRIPTION                                |
|------|--------------|--------------|------|-------------|--|
| 1    |              |              | 1    | 1303-P      | POCKET CHAIN WHEEL, 3/4 BORE               |
| 2    |              |              | 1    | 1304-P      | GUIDE, POCKET CHAIN WHEEL                  |
| 3    |              |              | 1    | 3-285-P     | PULL CHAIN, POCKET, 20' LENGTH             |
| 4    |              |              | 1    | 15-P        | COLLAR, 3/4" ID                            |
| 5    |              |              | 1    | 19-P        | BEARING, 3/4" ID X 2-1/2"                  |
| 6    |              |              | 1    | 7-P         | BEARING, 3/4" ID X 1-1/2"                  |
| 7    |              |              | 1    | 16-P        | COLLAR, 1" ID                              |
| 8    |              |              | 1    | 18-P        | BEARING, 1" ID X 2-1/2"                    |
| 9    |              |              | 1    | 1411-P      | SPACER, FOR SHAFT W/ 12T                   |
| 10   |              |              | 2    | 64-P        | ROLL PIN, 3/16 X 1-1/4                     |
| 11   |              |              | 1    | 1302-P      | SHAFT W/ 12T SPROCKET, POCKET              |
| 12   |              |              | 1    | 12-P        | CHAIN, ROLLER, #35 W/ M LINK               |
| 13   |              |              | 1    | 14-P        | GEAR, PINION, 7 TOOTH                      |
| 14   |              |              | 1    | 735-P       | KEY, WOODRUFF, SIZE 9, ASA606              |
| 15   |              |              | 1    | 13-P        | SPROCKET #35 36T, 3/4" BORE                |
| 16   |              |              | 1    | 29-P        | SPACER, SPUR GEAR .15"                     |
| 17   |              |              | 1    | 23-P        | GEAR, SPUR, 72T, 1" HOLE                   |
| 18   | 285A, 285A/E |              | 1    | 1169-P      | 3/8 - 16 REV HEX LOC NUT                   |
| 19   | 285A         |              | 1    | 180-P       | CHAIN, CINCH, 3/16 ALLOY 33 LK             |
| 20   | 285A, 285A/E |              | 1    | 82-P        | 3/8 - 16 X 2-1/4 HHCS GR 2 STL             |
| 21   |              |              |      |             | SADDLE WELDMENT (NOT SOLD SEPARATELY)      |
| 22   | 285A         |              | 1    | 725A-P      | SADDLE ASM CPT, 285A, 400                  |
| 22   | 285A/E       |              | 1    | 725A-E-P    | SADDLE ASM CPT, 285A W/ E14                |
| 23   | 285A, 285A/E |              | 1    | 1296-P      | 1/4 - 20 X 7-1/2 HHCS GR 5 STL             |
| 23   | 285G         |              | 2    | 1296-P      | 1/4 - 20 X 7-1/2 HHCS GR 5 STL             |
| 24   |              |              | 2    | 55-P        | WASHER, 3/4 SAE FL 1-1/2 OD                |
| 25   | 285A, 285A/E |              | 1    | 1297-P      | 1/4 - 20 REV HEX LOC NUT                   |
| 25   | 285G         |              | 2    | 1297-P      | 1/4 - 20 REV HEX LOC NUT                   |
| 26   |              |              | 2    | 22-P        | 3/8 - 24 X 5/8" SHCS STL                   |
| 27   | 285A, 285A/E |              | 1    | 165KIT-P    | KIT, RATCHET CHAIN TIGHTENER               |
| 28   | 285A, 285A/E |              | 1    | 731-P       | RATCHET HINGE PLATE ONLY 1/4 A             |
| 29   | 285A, 285A/E |              | 1    | 168-P       | PAWL, WITH DRILLED HOLE                    |
| 30   | 285A, 285A/E |              | 1    | 169-P       | PAWL SPRING                                |
| 31   | 285A, 285A/E |              | 1    | 710-P       | RETAINER, RATCHET PUSH ON 3/4"             |
| 32   | 285A, 285A/E |              | 1    | 170-P       | 3/8" DIA X 5/8" SHOULDER SCREW             |
| 33   | 285A, 285A/E |              | 1    | 165-P       | RATCHET, MALLEABLE, FOR SADDLE             |
| 34   | 285A, 285A/E |              | 1    | 136-P       | HANDLE GRIP, 7/8" X 4-3/4"                 |
| 35   | 285A, 285A/E |              | 1    | 726-P       | RATCHET HINGE PLATE CPT 1/4" A             |
| 36   |              |              | 1    | 770A-P      | BASE FRAME 285A W/BRG                      |
| 37   |              |              | 2    | 58-P        | LOCK TEE SET SCREW, 285                    |
| 38   | 285A/E       |              | 1    | E14         | FIBRE DRUM STRAP 14"                       |
| 39   |              |              |      |             | SADDLE WELDMENT, 3PC (NOT SOLD SEPARATELY) |
| 40   | 285G         |              | 1    | 725G-P      | SADDLE ASM CPT, 3PC, 285G                  |
| 41   | 285G         |              | 1    | 2671-P      | HINGE CPT, IDLER, 3PC                      |
| 42   | 285G         |              | 1    | 2672-P      | HINGE CPT, DRIVE, 3PC                      |
| 43   | 285G         |              | 1    | 2870-P      | THREADED ROD, PCR-2000                     |
| 44   | 285G         |              | 1    | 2674-P      | THREADED BARREL, CAMLOCK                   |
| 45   | 285G         |              | 2    | 2872-P      | 3/8 - 24 FIN HEX NUT, PCR-2000             |
| 46   | 285G         |              | 1    | 2871-P      | LINCH PIN, 3PC SADDLE                      |
| 47   | 285G         |              | 1    | 2680-P      | KEEPER CHAIN, LINCH PIN, 6"                |

\* UNLESS OTHERWISE SPECIFIED, PARTS ARE FOR MODELS 285A, 285A/E, & 285G.

### PARTS DIAGRAM FOR MORSE 285 SERIES FORK LIFT KARRIER Serial Number 0793 to \_\_\_\_ (MMYY)

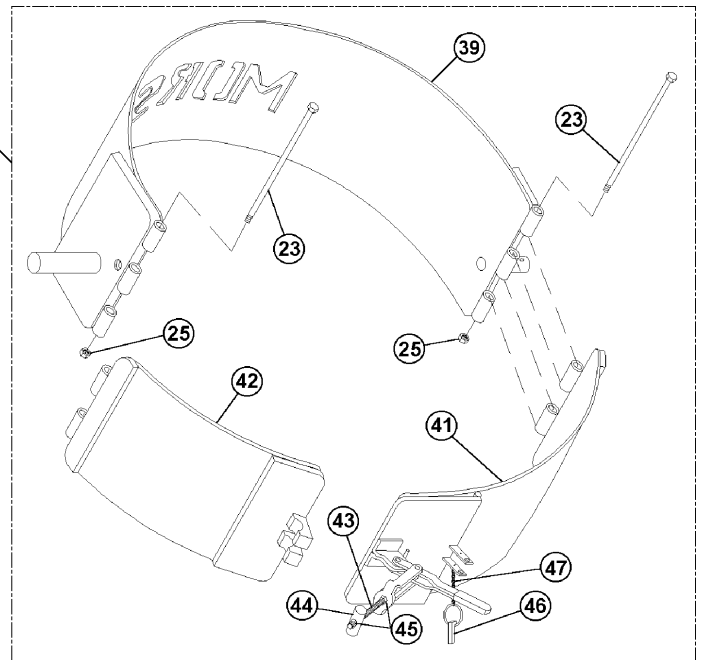


CINCH CHAIN WITH RATCHET HINGE PLATE

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.



PART NUMBER 725G-P  
3-PIECE SADDLE (DRUM HOLDER)  
USED ON MODEL 285G

**WARRANTY FOR MORSE 285 SERIES FORK LIFT KARRIER**  
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MORSE DRUM HANDLING EQUIPMENT IS GUARANTEED AGAINST DEFECTS in workmanship or materials for 2 years when used properly within its rated capacity. Motors and other purchased parts carry the warranties of their manufacturers.

For warranty claims, contact Morse to obtain a return authorization number. Return freight must be prepaid.

In all instances, liability is limited to the purchase price paid or to repairing or replacing the product. Customer assumes liability for any modifications, unauthorized repairs or parts substitution.