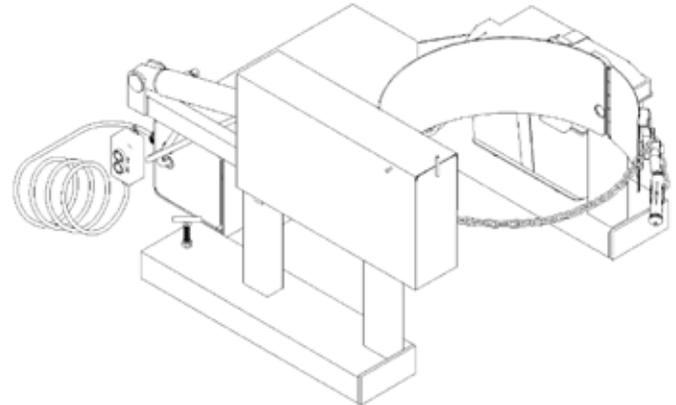


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**Operator's Manual**  
**for Morse Model 285A-BP**  
**Battery-Powered Forklift-Karrier**

Serial Number 0306 to 0509 (MMYY)



**Receiving Procedures**

Every Morse drum handler is inspected prior to shipping. However, damage may be incurred during transit.

- Check for visible damage. If you choose to accept damaged freight, always sign noting the damage on the **Bill of Lading**.
- Document the damage and have the truck driver sign. We recommend keeping a digital camera at your receiving dock for this purpose.
- Open packages expeditiously to check the condition of the goods. There is only a 24 hour window to notify the carrier of any concealed damage.
- Immediately **report all damage to the shipping company!** Then you may contact Morse for assistance with your freight claim.
- Morse Manufacturing will not be held responsible for any damaged freight that is not signed for as damaged.

**Limited 2 Year Warranty**

Morse drum handling equipment is guaranteed against defects in workmanship or materials for two years when used properly within its rated capacity. Warranty does not cover wear from normal use or damage from accident or abuse. Motors and other purchased parts carry the warranties of their manufacturers.

For warranty claims, contact your Morse Dealer to obtain a return authorization number, and for return freight advice. 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.

**Safety Information**

While Morse Manufacturing Co. drum handling equipment is engineered for safety and efficiency, a high degree of responsibility must be placed upon the machine operator to follow safe practices, based primarily on common sense, upon which true safety depends.

Failure to follow the safety precautions in this manual can result in personal injury or property damage. Observe the same precautions as with similar machinery where carelessness in operating or maintenance is hazardous to personnel. Carefully read the safety precautions below and throughout this manual.

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.

Prior to initial use, inspect all moving parts and test rotation of drum holder. Perform necessary load test, inspections, operator training, etc.

### Operator's Manual for Morse Battery-Powered Forklift-Karrier Model 285A-BP Serial Number 0306 to 0509 (MMYY)

#### Safety Information (continued)



**DANGER** - Indicates a situation which, if not avoided, will result in serious injury or death. This signal word is limited to the most extreme situations.



**WARNING** - Indicates a situation which, if not avoided, could result in serious injury or death.



**CAUTION** - Indicates a situation which, if not avoided, can result in damage to the machine.



**CAUTION** – Do Not Transport with Drum Raised. Always lower the drum holder to lowest position before transporting.



**WARNING** - The Forklift-Karrier is designed to handle one drum of the types listed at the top of page 3. Machine Description. DO NOT attempt to handle any other type of drum or object. DO NOT exceed the weight capacity of 1200 Lb.



**WARNING** - Do Not Modify the Unit.  
**Under** no circumstances should any modifications be made to the Morse machinery without factory authorization. Any modifications may void the warranty. This machine was designed to perform a specific job and alterations may result in injury to operator or machine.



**WARNING** - No Loose Fitting Clothing  
**Wear** close-fitting clothing and safety equipment appropriate to the job. Loose fitting clothing may become caught on the machinery and cause severe personal injury.



**CAUTION** - Wear Safety Shoes  
**Wear** safety shoes with non-slip soles and hard toe protection.



**CAUTION:** DO NOT allow drum to impact on floor, ground, or dumping station, etc.

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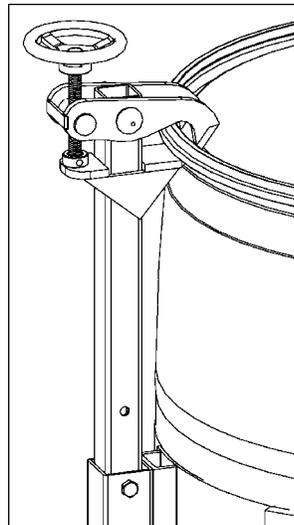
**Machine Description**

The Model 285A-BP Forklift-Karrier is designed to lift, transport, and dispense a ribbed 55-gallon steel drum 22.5" in diameter. The maximum full-drum capacity is 1200 Lb. The capacity is derated to 600 Lb. for a half-full drum. The half-full rating is based on the tilt mechanism's capacity for handling an unbalanced bottom-heavy drum.

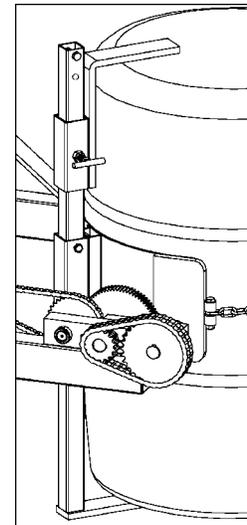


**Options**

- A smaller diameter drum can be handled with the correct size 55/30 Series Diameter Adaptor installed (see Diameter Adaptor literature)
- A 55-gallon plastic drum can be handled with either the Adjustable Bracket (Part # 1465-P) or the Top Rim Clamp (Part # 3540-P). Use the Top Rim Clamp with a plastic drum that has a suitable top rim (see figure 2.1). Use the Adjustable Bracket for a drum with or without a top rim (see figure 2.2).



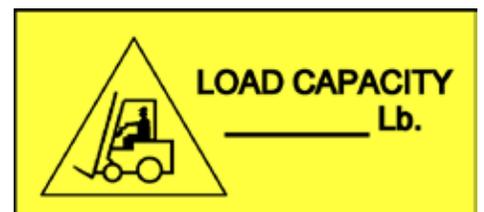
**Figure 2.1**  
Plastic drum being lifted with part number 3540-P Rim Clamp Assembly installed.



**Figure 2.2**  
Plastic drum being lifted with part number 1465-P Bracket Assembly installed.

**Important**

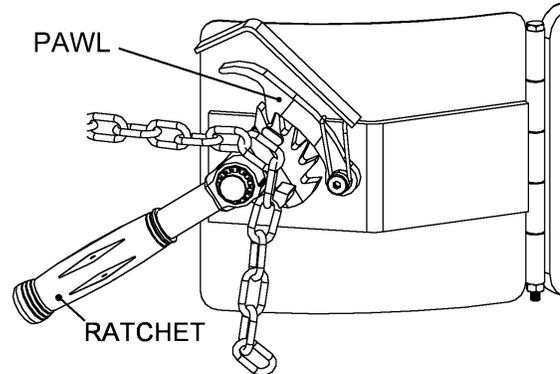
1. Please read all instructions thoroughly before attempting to operate your new Morse drum handler.
2. The model 285A-BP has a maximum capacity rating of 1200 Lb. full drum and 600 Lb. half-full drum and is designed to lift, move and pour a 55-gallon steel drum. **DO NOT** exceed these ratings. Exceeding these ratings or handling drums other than those mentioned above is unsafe and could result in equipment damage, excessive wear or awkward handling.
3. 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.
4. Because the model 285A-BP is a front-end attachment 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." See center of gravity dimensions of model 285A-BP on page 5 for calculating lost load on your equipment.



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**Operating Instructions**

1. Before sliding forklift forks into the fork tubes, adjust forks to an inside spread of 24.5" minimum. Lock forks into position on the forklift carriage.
2. Drive the forklift forward to slip the forks into the fork tubes (item #1). Tighten tee screws (item #21) to secure the Forklift Karrier to the forks.
3. Release the cinch chain (item #35) and hang the loose end from the upright peg on the front of the guard. Allow the ratchet hinge plate to swing 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 #44). Turn the ratchet handle clockwise to tighten the cinch chain around the drum (Figure 3.1).
6. Remove pendant assembly (item #8) from holder on guard and place near operator's seat.
7. Raise forks to clear the floor and transport drum in vertical position to dispensing location.
8. To pour drum: press the down button on the pendant, rotating drum to angle required for dispensing.
9. When dispensing is completed, rotate the drum back to vertical by pressing the up button on the pendant 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.



**Figure 3.1**



**CAUTION:**

**DO NOT exceed weight capacity of 1200 L.b for FULL drum,  
600 Lb. for HALF-FULL drum.**



**CAUTION:**

**DO NOT allow drum to impact on floor, ground, or dumping station, etc.**

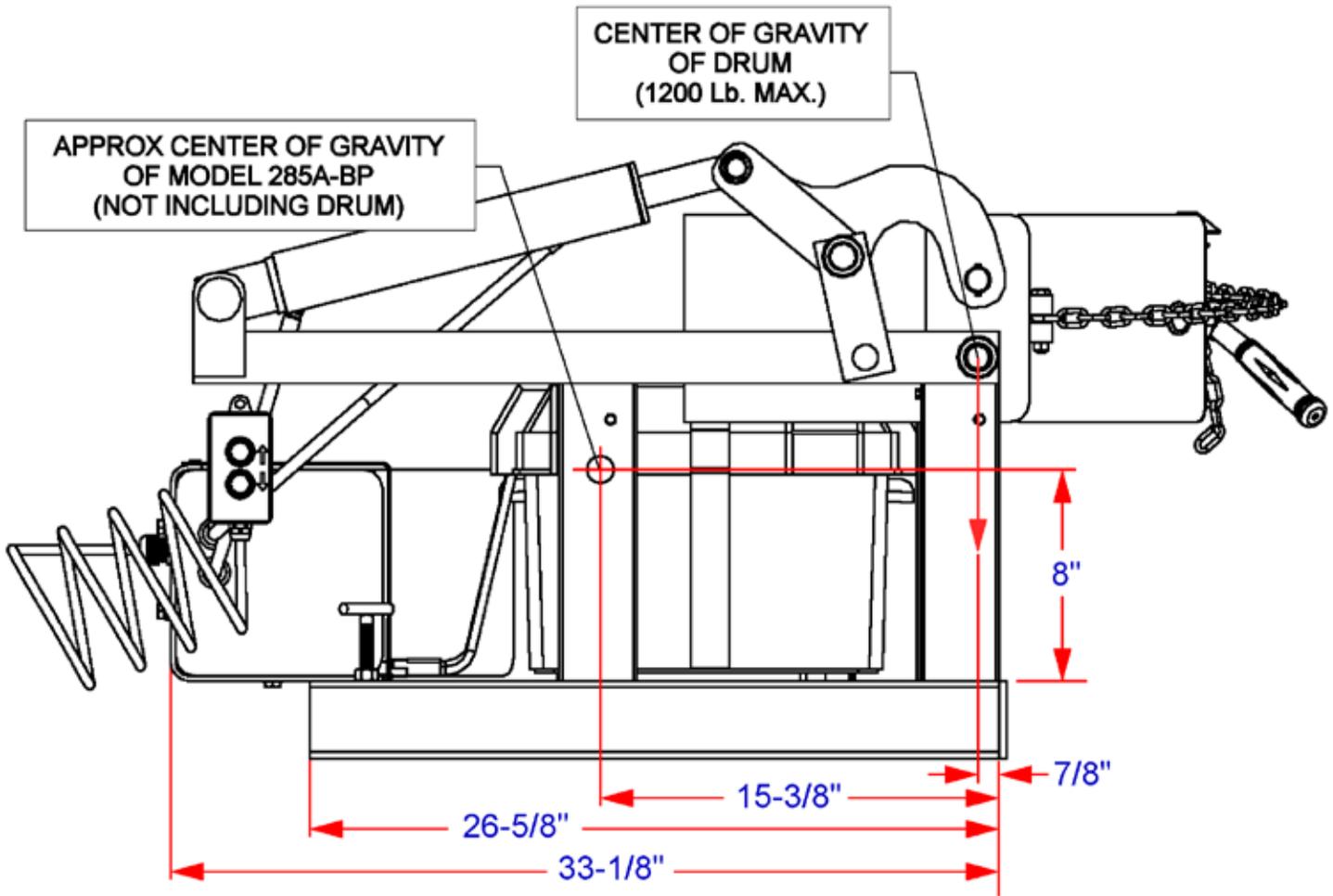
**Maintenance**

1. Lubricate cylinder pins (items 9 & 32) and linkages (items 6 & 38).
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. Hydraulic pump has been filled with Dexron III automatic transmission fluid. Inspect the hydraulic system for oil drips, hose damage, or other signs of wear. Inspect the level & condition of the hydraulic fluid. Replace any parts that show signs of wear (see parts diagrams for pump & cylinder).
4. 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 fiber drum, this model requires a 55/30 series Diameter Adaptor and model E14 Fiber Drum Strap.

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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: 285A-BP**  
**NET WEIGHT: 295 Lb.**

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ITEM #	QTY	PART #	DESCRIPTION
1	1	2476-P	BASE WELD, 285A-BP
2	2	18-P	BEARING, 1" ID X 2-1/2"
3	3	16-P	COLLAR, 1" ID
4	1	29-P	SPACER, SPUR GEAR .15"
5	2	1643-P	GROMMET, 1-1/16" OD
6	1	2500-P	DRAG LINK WELD, A-BP
7	1	3682-P	STRAIN RELIEF, 285A-BP
8	1	4605-P	PENDANT ASM, WIRED, 20' A-BP
9	1	704-P	AXLE, 3/4", USE WITH PUSH-ON
10	1	4418-P	CYLINDER, 2 X 10, SAE ADJ CLEV
11	2	15-P	COLLAR, 3/4" ID
12	4	3610-P	HYD FIT, MALE ELBOW, SAE
13	1	2466A-P	HYD HOSE ASM, 35" 285A-BP
14	3	1657-P	3/8 - 16 X 3/4 HHCS GR 2
15	4	1166-P	WASHER, 3/8 USS 1" OD
16	4	1739-P	WASHER, 3/8 INTERNAL TOOTH LOC
17	1	2467A-P	HYD HOSE ASM, 40" 285A-BP
18	1	M3551-P	HYD POWER PACK, 12V DC, BP
19	1	4665-P	HARNESS, PUMP CABLE, 14/20
20	1	4222-P	SADDLE ASM, 285A-BP W/ APS
21	2	58-P	LOCK TEE SET SCREW, 285
22	2	1169-P	3/8 - 16 REV HEX LOC NUT
23	1	4664-P	HARNESS, BATTERY CABLE, 12/20
24	1	1728-P	TOP, BATTERY BOX, 400, 285A-BP
25	1	391-P	CHARGER 12V 50HZ 60HZ 50/60 HZ
26	1	388-P	BATTERY, 12V DC
27	10	193-P	SCREW, TEK, 12-14 X 3/4" 3 PT
28	4	4168-P	WASHER, 7/32, 1-1/2 OD, FENDER
29	1	1729-P	BOTTOM, BATTERY BOX, 400
30	2	64-P	ROLL PIN, 3/16 X 1-1/4
31	2	55-P	WASHER, 3/4 SAE FL 1-1/2 OD
32	1	2506-P	CYLINDER PIN WELD, 285A-BP
33 *	1	1296-P	1/4 - 20 X 7-1/2 HHCS GR 5 STL
34 *	1	726-P	RATCHET HINGE PLATE CPT 1/4" A
35 *	1	180-P	CHAIN, CINCH, 3/16 ALLOY 33 LK
36 *	1	1297-P	1/4 - 20 REV HEX LOC NUT
37 *	1	4079-P	HHCS, M8 X 60 MM CL8.8, 8MM
38	1	1281-P	POWER LINK WELD, A-BP
39	1	165KIT-P	KIT, RATCHET CHAIN TIGHTENER
40	1	168-P	PAWL, WITH DRILLED HOLE
41	1	169-P	PAWL SPRING
42	1	170-P	3/8" DIA X 5/8" SHOULDER SCREW

\* Recommended spare parts

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ITEM #	QTY	PART #	DESCRIPTION
43	1	710-P	RETAINER, RATCHET PUSH NUT 3/4"
44	1	165-P	RATCHET, MALLEABLE, SADDLE
45	1	136-P	GRIP, HANDLE 7/8" X 4-3/4"
46 *	1	4081-P	NUT, M8 ESNA, 8MM
NOT SHOWN	1	2511-P	LINKAGE GUARD WELD, 285A-BP
NOT SHOWN	1	2508-P	COVER, HYD POWER PACK 285A-BP

\* Recommended spare parts

