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**Operator's Manual
for Morse Mobile-Karrier
with Spark Resistant Parts**

Model 80iM

Serial Number 0509 to 1110 (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. Inspect saddle assembly for proper operation. Perform necessary load test, inspections, operator training, etc.

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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 Mobile-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 800 Lb.



WARNING - Level Floors Only

For operation only on clean, level floors of suitable bearing capacity. Do not use on sloped surfaces, ramps, irregular or debris strewn floors.



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 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 Mobile-Karrier is designed to lift, transport, and dispense a ribbed 55-gallon steel drum 22.5" in diameter. The maximum capacity is 800 Lb.

Options

- A smaller diameter drum can be handled with the correct size 55/30M Series Diameter Adaptor installed (see [Diameter Adaptor literature](#)).
- The **Bracket Assembly** (Part # 4556M-P) is **required** to handle a plastic drum without a top rim (see figure 2.1). It is also recommended to more securely handle a fiber drum. You can use the Bracket Assembly with a 55-gallon plastic, steel or fiber drum. The brace at top and bottom of the drum prevent it from slipping lengthways through the drum holder. It adjusts for a drum 31" to 37" tall.
- The **Top Rim Clamp** (Part # 4560M-P) grips the upper rim of your drum to prevent it from slipping through the drum holder (see figure 2.2). To handle a 55-gallon plastic drum with top rim, you **must** install either the Bracket Assembly or the Top Rim Clamp. You can use the Top Rim Clamp with a 55-gallon plastic, steel or fiber drum with suitable top rim

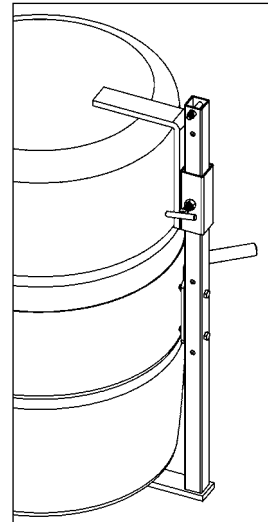


Figure 2.1
Plastic drum being lifted
with part number
4556M-P Bracket
Assembly installed.

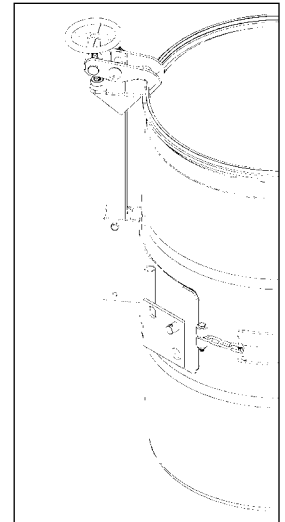
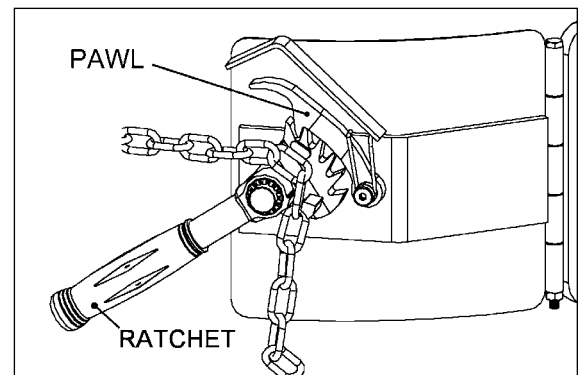


Figure 2.2
Plastic drum being
lifted with part number
4560M-P Top Rim Clamp
Assembly installed.

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Operating Instructions

1. Roll the assembled Mobile-Karrier to the drum (assembly instructions are on page 4).
2. Grip the push-handle, squeeze both release rods and raise the handle to a position straight up. This lowers the saddle to reach the middle of the drum. The cinch chain can be hung on the chain pin on top of left stanchion to keep it off the floor.
3. Roll the Mobile-Karrier forward and push the saddle so that it slips around the drum near the mid-point of the drum.
4. Secure the drum: Drape the cinch chain across the face of the drum and engage a link into the notch in the hub of the ratchet. Pull up on ratchet handle to tighten the chain. If ratchet turns to the extent that the pawl is beyond the last ratchet tooth and the chain is not tight, back up and try putting the next link in the notch. The chain should tighten as the ratchet turns and be held tight by the teeth of the ratchet and pawl. Firm hand pressure on the ratchet handle should tension the chain sufficiently to secure the drum. **DO NOT** use mechanical aids such as a pipe to extend ratchet handle for extra leverage.
5. Pull down the push-handle to raise the drum. The Mobile-Karrier will hold up the drum and may be rolled away carrying the drum.
6. Either one of the two spring loaded plunger tilt locks may be locked to hold the drum upright. Unlocking both will permit the drum to be tilted. Either one may be locked to hold the drum in the tilted position. It is not necessary to lock both tilt locks. Before unlocking the tilt lock it is recommended that you steady the drum and be prepared to resist its tendency to tilt toward its heavy end.
7. Before unloading the drum, release the tilt locks and return the drum to upright.
8. It is necessary to have a firm, two hand hold to lower the push-handle and squeeze the release rods. With both release rods squeezed, the handle will unlock and allow the weight of the drum to make the handle tend to rise. Apply sufficient force to allow the handle to rise slowly to control the descent of the drum.
9. **LEVERAGE AND HEIGHT ADJUSTMENTS:** The Mobile-Karrier will hold a vertical drum and raise it as high as 11". With the drum held horizontally, there can be as much as 17" floor clearance. There are extra holes in the handle plates and links to provide adjustment for various heights and drum weights. The greatest leverage, with the least lift height is obtained when using the handle holes nearest the handle pivot. This position is recommended for ease of use when extra floor clearance is not necessary.



Maintenance

- Periodic inspection for the general condition of structural and mechanical components is imperative for safe and efficient operation.
- 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.
- Grease wheel bearings periodically. Oil or grease all moving parts including: Tilt locks, fulcrum shafts, links, 1/2" carriage bolts, and the ratchet and pawl.
- Worn or damaged parts must be properly replaced with the correct, genuine Morse parts.
- Tighten all nuts and bolts periodically, except the four 1/2" carriage bolts (assembly steps 1, 2 and 3) which should be just loose enough to permit a hinging motion of the links and handle.

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Assembly Instructions

Please unpack and identify the following items:

Handle Assembly

Left and Right Stanchions

Saddle Assembly

Base Assembly

Hardware Bag 1578-P. Containing:

4 pc 1/2" washers, 807-P

2 pc 3/8-16 x 2-1/4" Hex Bolts, 82-P

2 pc 3/8-16 Lock Nuts, 1169-P

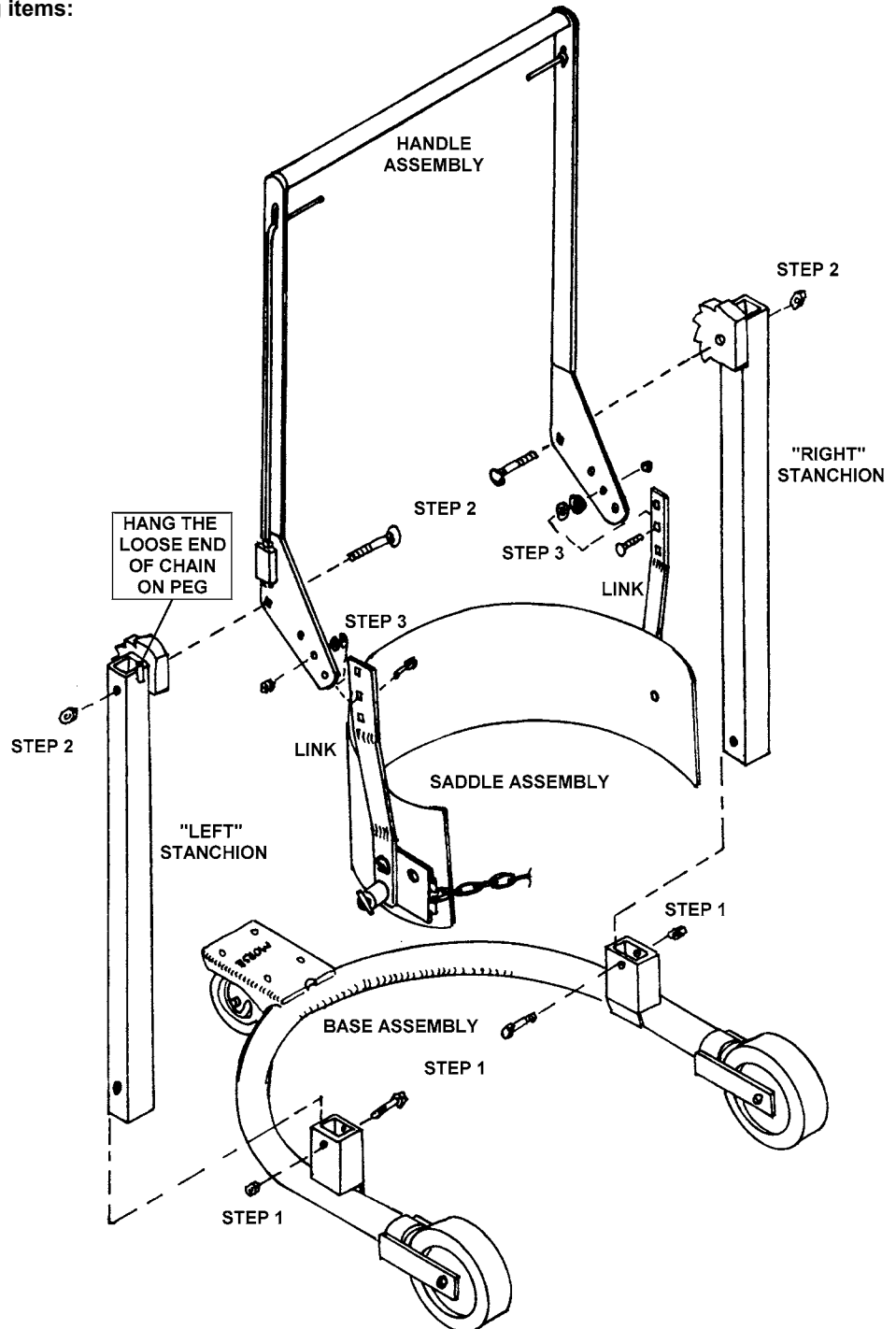
2 pc 1/2-13 x 3" Carriage Bolts, 806-P

2 pc 1/2-13 x 1-1/4" Carriage Bolts, 805-P

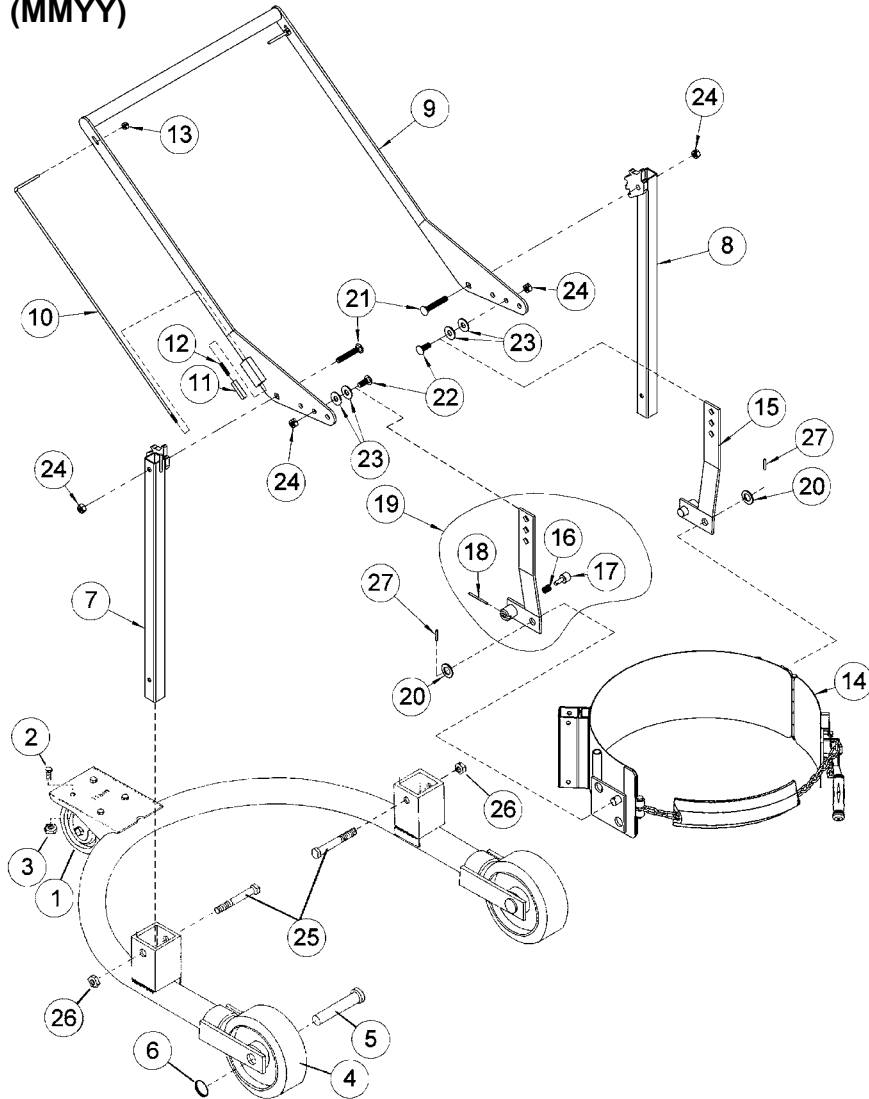
4 pc 1/2-13 Lock Nuts, 810-P

1. Slip stanchions into sockets on base and fasten with 3/8-16 x 2-1/4" bolts and 3/8-16 lock nuts.
2. Attach handle to stanchions as shown using 3" carriage bolts. Run 1/2" lock nuts on far enough to minimize play but allow free pivot of handle.
3. Connect links and 1/2" washers inside handle ends. Note: two 1/2" washers should be "sandwiched" between each link and each handle end. Leave nuts loose to allow links to pivot.

The three handle holes (on each side) allow a trade-off between lifting effort (leverage) and range of lift height. The three holes in each link permit a choice of starting or finishing lift heights.



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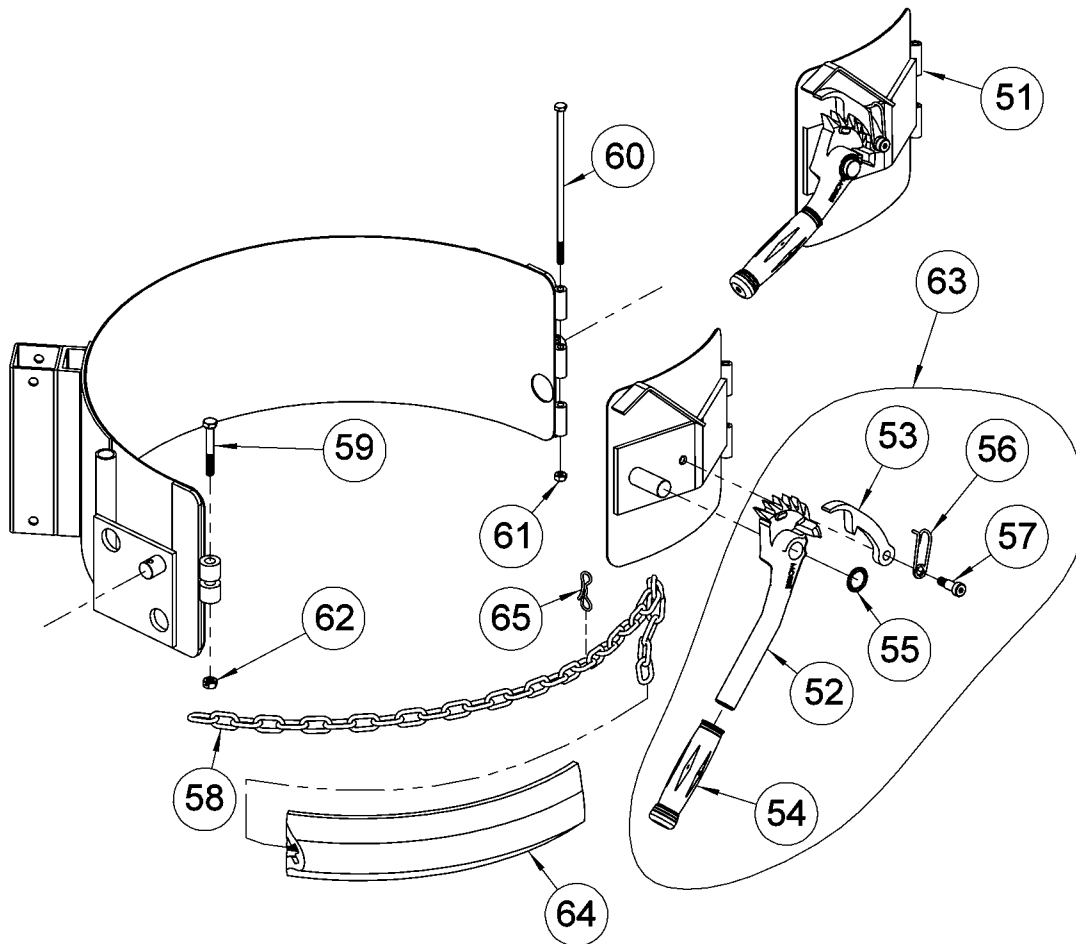


ITEM	QTY.	PART #	DESCRIPTION
1*	1	3308-P	CASTER, 4" SWIVEL, DBL RACE
2	4	215-P	HHCS, 5/16-18 X 5/8 GR2
3	4	491-P	NUT, 5/16-18 REV HEX LOCK
4*	2	87-P	WHEEL, MORTUF, 8", 3/4" BRG
5	2	704-P	AXLE, 3/4", USE WITH PUSH-ON
6*	2	705-P	CAP, HUB, PUSH-ON, 3/4"
7	1	80-P	STANCHION W/ PIN, 80
8	1	81-P	STANCHION, W/O PIN, 80
9	1	800CPT-P	HANDLE ASM, 80
10	2	66-P	RELEASE ROD, FOLLOWER, 80, 81
11	2	68-P	FOLLOWER, RATCHET, 80, 81
12	2	70-P	SPRING, FOLLOWER, 80, 81
13	2	717-P	NUT, PUSH, 1/4"
14	1	101ZM-P	SADDLE ASM, SR SOCKET TUBE

ITEM	QTY.	PART #	DESCRIPTION
15	1	820CPT-P	LINK ASM, LEFT, EL
16	2	60-P	SPRING, PLUNGER, 80, 85
17	2	59-P	PLUNGER, 80, 85
18	2	61-P	ROLL PIN, 3/16 X 2-1/2
19	1	825CPT-P	LINK ASM, RIGHT, EL
20	2	62-P	WASHER, 3/4 SPRING
21	2	806-P	BOLT, 1/2-13 X 3 CARRIAGE
22	2	805-P	BOLT, 1/2-13 X 1-1/4 CARRIAGE
23	4	807-P	WASHER, 1/2 USS 1-3/8 OD
24	4	810-P	NUT, 1/2-13 REV HEX LOCK
25	2	82-P	HHCS, 3/8-16 X 2-1/4 GR2
26	2	1169-P	NUT, 3/8-16 REV HEX LOCK
27	2	64-P	ROLL PIN, 3/16 X 1-1/4

* Recommended spare parts

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ITEM	QTY.	PART #	DESCRIPTION
51*	1	726M-P	HINGE PLATE CPT, 1/4" SR
52	1	165SS-P	RATCHET, STEEL-IT
53	1	168-P	PAWL, WITH DRILLED HOLE
54	1	4409-P	GRIP, HANDLE 7/8" X 4-3/4" RED
55	1	710-P	RETAINER, RATCHET PUSH NUT 3/4
56	1	169-P	SPRING, PAWL
57	1	170-P	SCREW, 3/8 DIA X 5/8 SHOULDER
58*	1	4408-P	CHAIN, CINCH, 9/32 SS, 38 LINK
59	1	4079-P	HHCS, M8 X 60 MM CL8.8, 8MM
60	1	1296-P	HHCS, 1/4-20 X 7-1/2 GR5
61	1	1297-P	NUT, 1/4-20 REV HEX LOCK
62	1	4081-P	NUT, M8 ESNA, 8MM
63	1	165KITM-P	KIT, RATCHET TIGHTENER, SR
64	1	4414-P	COVER, CINCH CHAIN, FLEX PVC
65	1	4710-P	PIN, BOW TIE COTTER, MOR
* Recommended spare parts			