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Operator's Manual
for Morse Heavy-Duty Kontrol-Karrier

Model 185A-HD
Serial number 1210 to 0513 (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 chain wheel and drum holder assembly. Inspect drum holder assembly for proper operation. Perform necessary load test, inspections, operator training, etc.

Operator's Manual for Morse Model 185A-HD Heavy-Duty Kontrol-Karrier
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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.

 **WARNING** - Kontrol-Karriers are 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.

 **WARNING** - DO NOT exceed the weight capacity of 1500 Lb. (680 kg).

MORSE
Mfg. Co., Inc.
E. Syracuse, NY
The Specialist
In Drum
Handling
Equipment

1500 Lb.
(680 kg)
Max.
Capacity

Made in U.S.A.

 **WARNING** - DO NOT operate damaged or malfunctioning unit, or a unit with missing parts.

 **WARNING** - DO NOT lift people or suspend loads over people. Stay clear of suspended loads.

 **WARNING** - DO NOT lift loads higher than necessary.

 **WARNING** - DO NOT leave suspended loads unattended.

 **WARNING** - DO NOT remove or obscure warning labels.

 **WARNING** - DO NOT operate without first having read and understood operating manual.

 **WARNING** - DO NOT make alterations or 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** - Wear safety shoes with non-slip soles and hard toe protection.

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

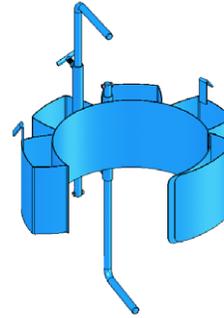
**Operator's Manual for Morse Model 185A-HD Heavy-Duty Kontrol-Karrier
Serial number 1210 to 0513 (MMYY)**

Machine Description

Model 185A-HD Heavy-Duty Kontrol-Karrier is designed to lift, transport and dispense a ribbed 55-gallon steel or fiber drum 22" to 23.5" in diameter. The maximum full-drum capacity is 1500 Lb. The capacity is derated to 800 Lb. for a half-full drum. The half-full drum rating is based on the tilt mechanism's capacity for handling an unbalanced, bottom heavy load.

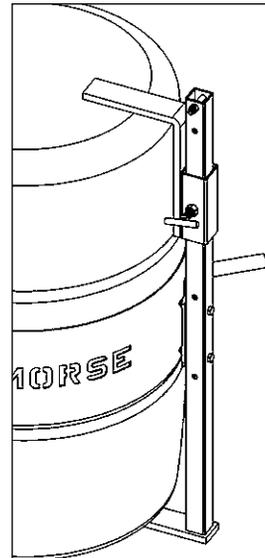
Options

- A smaller diameter drum can be handled with the correct size 55/30 Series Diameter Adaptor installed (see Diameter Adaptor literature).
- The **Bracket Assembly** (part # 4556-P) is **required** to handle a plastic drum without a top rim. 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 39" tall.
- The **Top Rim Clamp** (part # 4560-P) grips the upper rim of your drum to prevent it from slipping through the drum holder. 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.
- Counterweight Kit # 4622-P to keep Kontrol-Karrier hanging plumb, even without a drum in holder.
- **Part # 3900-P** MORStop Tilt-Brake Kit for field installation automatically prevents unwanted drum tilting.
- For self-stopping hand crank, install Hand Crank (part # 5U-P) and MORStop Tilt-Brake (kit # 3900-P).



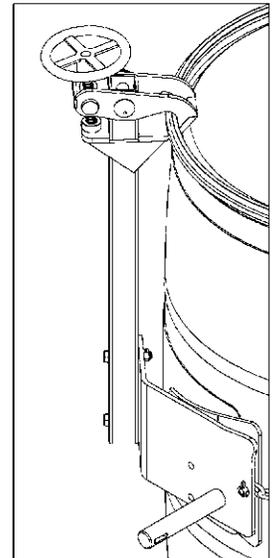
Diameter Adaptors

Model 55/30-16 shown for 15.5" to 16" diameter drum



Bracket Assembly
part # 4556-P

Plastic drum being lifted with Bracket Assembly installed.



Top Rim Clamp Assembly
part # 4560-P

Plastic drum being lifted with Top Rim Clamp Assembly installed.



MORStop Tilt-Brake
Kit # 3900-P

Install the MORStop Tilt-Brake to automatically prevent unwanted drum tilting.



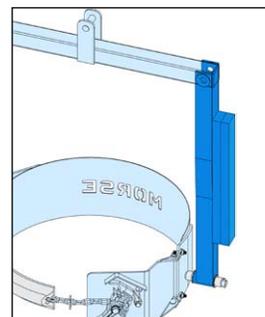
Hand Crank or Hand Wheel

Hand Crank (kit # 1460-P) or 16" Hand Wheel (kit # 2690-P) can replace the chain wheel and pull chain to turn drum.



Important

1. Please read all instructions thoroughly before attempting to operate your new Morse drum handler.
2. 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.
3. The 185 Heavy-Duty Series are a "Group 1 structural and mechanical" below-the-hook lifting device which are covered by the American National Standard ASME B30.20. The user should comply with all aspects of this standard.

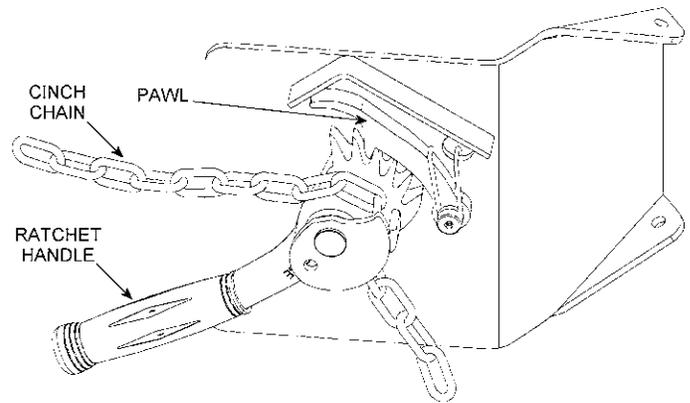


Counterweight Kit
Part # 4622-P

**Operator's Manual for Morse Model 185A-HD Heavy-Duty Kontrol-Karrier
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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 to the drum.
3. Suspend Kontrol-Karrier at a height which aligns drum saddle with center of drum.
4. With binder chain (item 112) hanging freely, swing the ratchet hinge plate to the open position. Push Kontrol-Karrier against drum so that saddle will encircle drum.
5. Secure the drum: drape the binder chain (item 112) across the face of the drum and engage a link into the slot in the ratchet (shown below right). Turn the ratchet clockwise to tighten chain. If the chain doesn't cinch tightly on the drum, lift the pawl (item 103) to loosen and release the chain and try again with a different link in the notch. Firm hand pressure on the ratchet handle should tighten the chain sufficiently to hold the drum. **DO NOT** use mechanical aids such as a pipe to extend handle for extra leverage.
6. Move hoist hook to lift point centered over the drum.
7. Raise hoist and position drum at pouring station.
8. Pour the drum by pulling on the pull chain (item 11) and rotating the drum to a suitable pouring angle. For best control of drum pouring angle, pay out one side of the chain loop while pulling in the other side, thus being able to hold back the drum rotation. The chain lock on the bottom of the power arm can be used to prevent drum rotation. To do so, crisscross the chain and insert in each slot of the chain lock. If the drum handler is equipped with the MORStop Tilt-Brake, there is no need to hold tension on both sides of the chain loop. Braking is immediate and self actuating, without additional steps by the operator. To add the MORStop Tilt-Brake to your drum handler, order part # 3900-P for a field installation kit.
9. After pouring is completed, rotate drum back to vertical position and lower hoist to return drum to floor.
10. To remove drum: Pull ratchet handle clockwise to relieve pressure on ratchet teeth. Lift pawl handle (item 103) to release teeth engagement and rotate ratchet to loosen chain and allow its removal from notch.



Maintenance

1. Periodic inspection for the general condition of structural and mechanical components is imperative for safe and efficient operation.
2. Lubricate gear teeth and roller chain.
3. Clean and oil ratchet, pawl and other moving parts periodically to maintain free action and reduce wear. Clean and lubricate more often in environment where dust, dirt or other foreign particles will effect the performance of moving parts.
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.
5. Worn or damaged parts must be properly replaced with the correct, genuine Morse parts

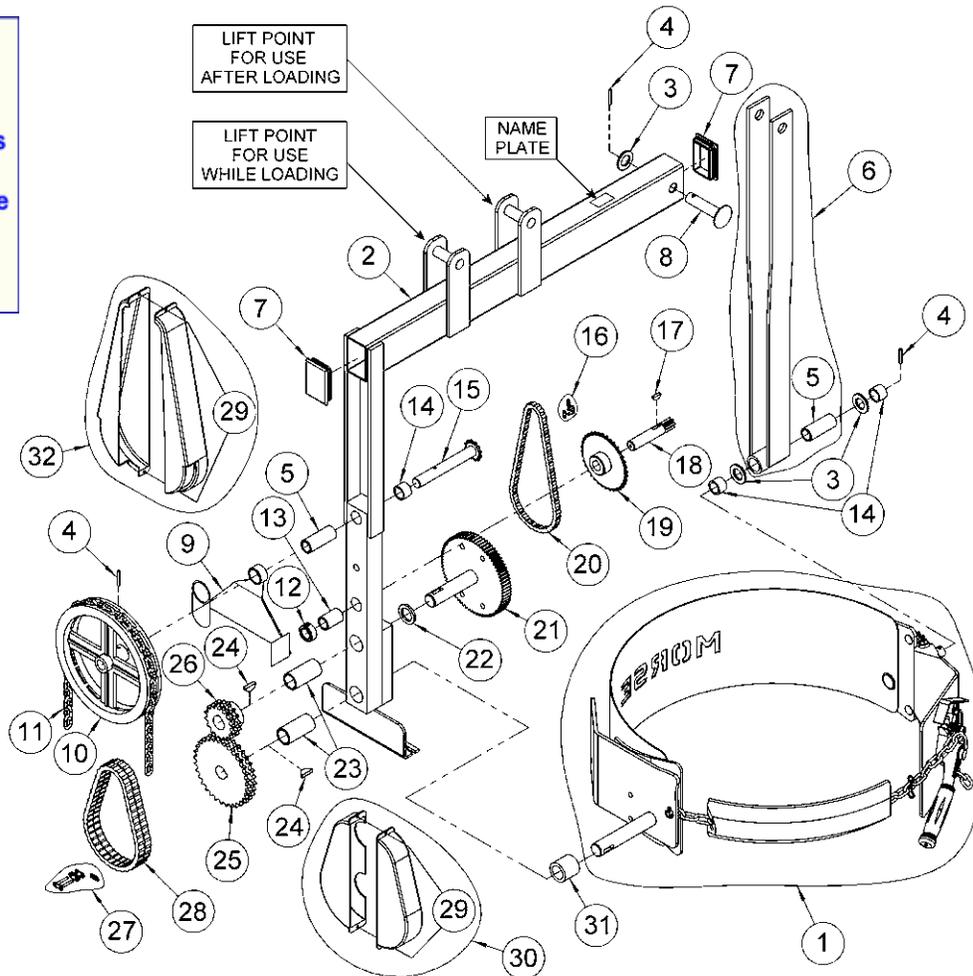
Operator's Manual for Morse Model 185A-HD Heavy-Duty Kontrol-Karrier Serial number 1210 to 0513 (MMYY)



IMPORTANT NOTE

4-Digit serial numbers are simply the month & year of manufacture

Example: 0802 is August 2002



ITEM	QTY.	PART #	DESCRIPTION
1	1	5000-P	SADDLE ASM, MORCINCH, MOR
2	1	4503-P	OVERHEAD YOKE WELD 185A-HD MOR
3	3	55-P	WASHER, 3/4 SAE FL 1-1/2 OD
4*	3	64-P	ROLL PIN, 3/16 X 1-1/4
5*	2	19-P	BEARING, 3/4" ID X 2-1/2"
6	1	4497B-P	IDLER ARM W/BRG, 185A & HD MOR
7	2	4603-P	CAP, 2 X 3, PLASTIC
8	1	1436-P	CLEVIS PIN, LARGE TUBE, 92
9*	1	1304-P	GUIDE, POCKET CHAIN WHEEL
10*	1	1303-P	POCKET CHAIN WHEEL, 3/4 BORE
11*	1	3-185-P	CHAIN, PULL, POCKET 12' LENGTH
12	1	15-P	COLLAR, 3/4" ID
13*	1	7-P	BEARING, 3/4" ID X 1-1/2"
14	3	1411-P	SPACER, SHAFT W/ 12T SPROCKET
15*	1	1302-P	SHAFT W/ 12T SPROCKET, POCKET
16	1	795-P	LINK, MASTER, #35 CHAIN

ITEM	QTY.	PART #	DESCRIPTION
17*	1	735-P	KEY, WOODRUFF, SIZE 9, ASA606
18*	1	14-P	GEAR, PINION, 7 TOOTH
19*	1	13-P	SPROCKET #35 36T, 3/4" BORE
20*	1	12-P	CHAIN, ROLLER, #35 W/ M LINK
21*	1	27-P	SPUR GEAR W/ 1" SHAFT, HD TYPE
22	1	29-P	SPACER, SPUR GEAR .15"
23*	2	18-P	BEARING, 1" ID X 2-1/2"
24*	2	736-P	KEY, WOODRUFF, SIZE 15, ASA808
25*	1	32-P	SPROCKET #40D 32T, 1" BORE
26*	1	30-P	SPROCKET #40D 16T, 1" BORE
27	1	796-P	LINK, MASTER, #40D CHAIN
28*	1	31-P	CHAIN, ROLLER, #40D W/ M. LINK
29	4	2182-P	WIRE / CABLE TIE, 4-33/64 (NOT SHOWN)
30	1	4284-P	COVER SET, 40D SPROCKETS
31	1	4372-P	SPACER, HD DRIVE SHAFT 1.4"
32	1	4286-P	COVER SET, 30:1 GEARS, HD

* Recommended spare parts.

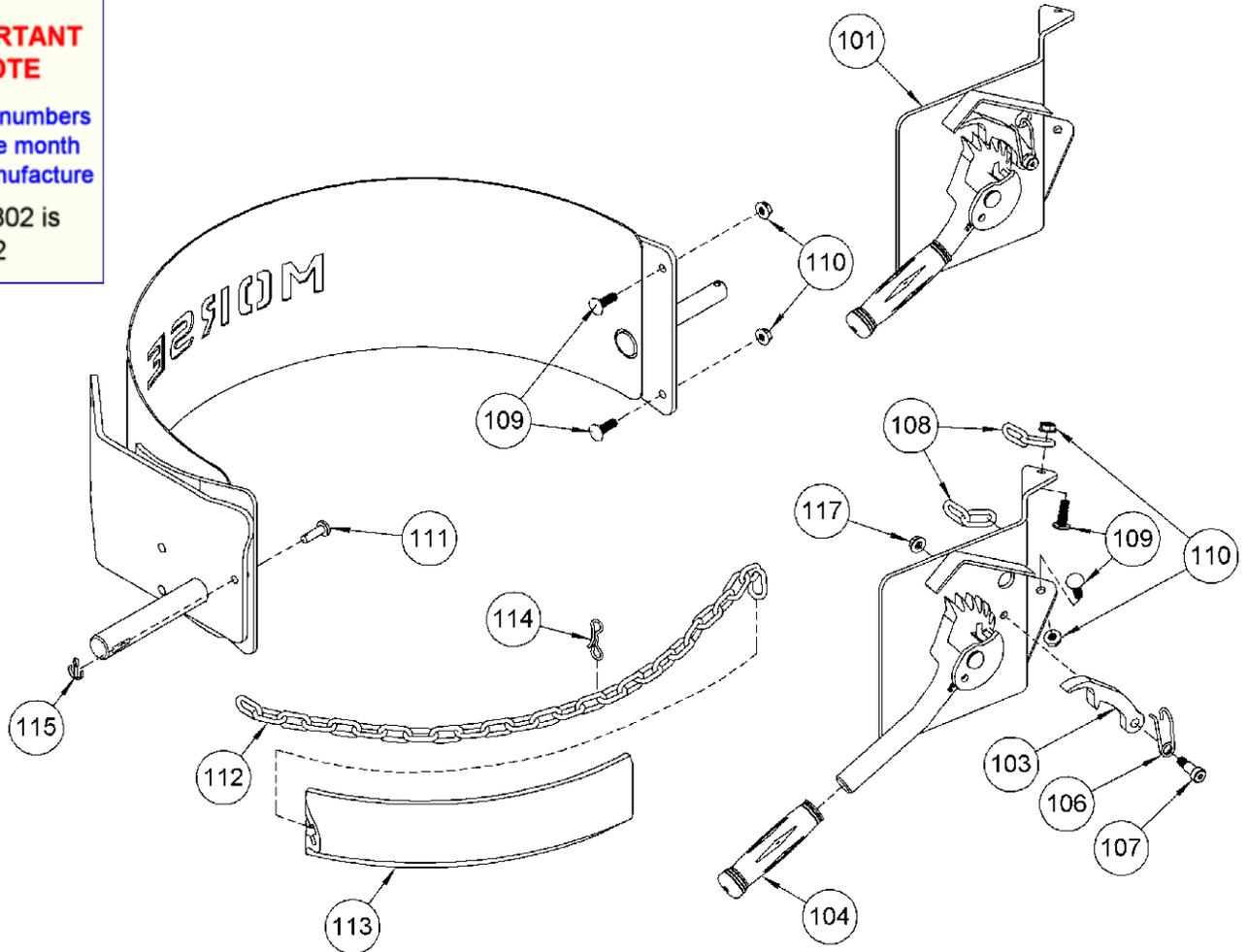
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August 2002



ITEM	QTY.	PART #	DESCRIPTION
101*	1	4214A-P	RATCHET PLATE CPT, MOR
103	1	168-P	PAWL, WITH DRILLED HOLE
104	1	136-P	GRIP, HANDLE 7/8" X 4-3/4"
106	1	169-P	SPRING, PAWL
107	1	170-P	SCREW, 3/8 DIA X 5/8 SHOULDER
108*	2	5019-P	CHAIN, HINGE, 9/32 ALLOY 2 LK
109*	4	4177-P	BOLT, 5/16-18 X 1 CARRIAGE RIB
110*	4	4178-P	NUT, 5/16-18 FLANGE LOCK, MOR
111*	1	4172-P	PIN, CLEVIS, CINCH CHAIN 8.5MM
112*	1	5017-P	CHAIN, CINCH, 9/32, 38 LINK
113*	1	4414-P	COVER, CINCH CHAIN, FLEX PVC
114	1	4710-P	PIN, BOW TIE COTTER, MOR
115*	1	4678-P	COTTER PIN, 1/8" X 3/4"
117	1	1634-P	NUT, 5/16-18 WHIZ LOCK

* Recommended spare parts.