

OPERATOR'S MANUAL for MORSE Model 83 Pail handler
Serial Number 0204 to 1004 (MMYY - Month Year)



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1. Carefully remove the contents of shipping carton.
2. Place the Base Weldment (item 4) on the floor, as shown in Figure A.

A. Note: To assemble unit with optional counterweight, go to the instructions for the counterweight at this point.

Place the upper mast weldment (item 1) onto the base as shown in Figure A. Align the mast rod tubes over the holes in the caster mount plates.

- B. Locate the floor lock crank weldment (item 15). Feed the crank handle up through the guide on the lower mast until the two holes in the floor lock angle line up with the two holes in the base tube. Bolt in place using the two 3/8-16 x 3" bolts (item 5). Do not install washers and nuts at this point.

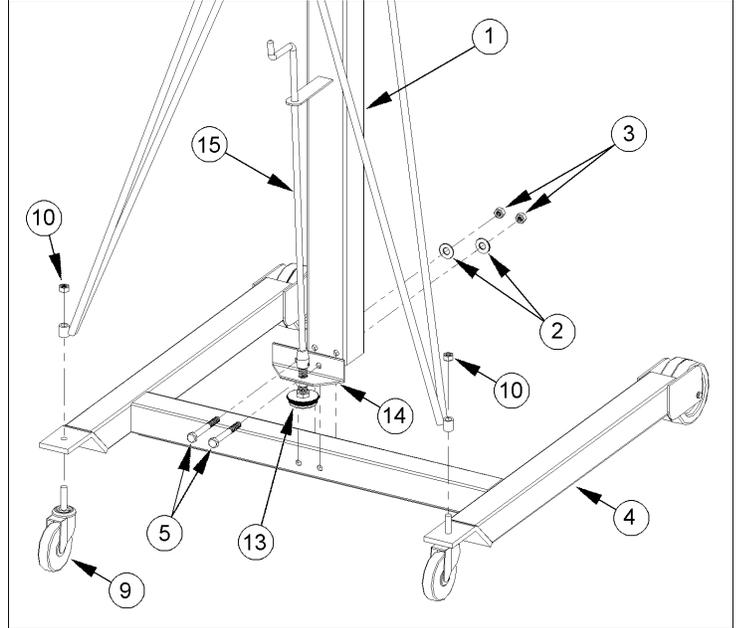


Figure A

- C. Align the two holes at the bottom of the lower mast channel with the two bolts installed in step B above. Secure the assembly with the 3/8" washers (item 2) and lock nuts (item 3). The floor lock crank should turn freely after the nuts are tightened.
- D. Slide the swivel casters (item 9) stem into the caster plate hole and up through the mast rod tubes on each side. Secure with 3/8-16 nuts (item 10).

3. Locate the carriage assembly (item 36 in Figure B).

- A. Slide one 3/4" washer (item 38) on each of four roller shafts.
- B. Slide one bearing (item 37) on each of four roller shafts.
- C. While holding the carriage assembly level to prevent the bearings from sliding off, insert the assembly into the top of the lower mast channel as shown in Figure B. Lower to the floor.

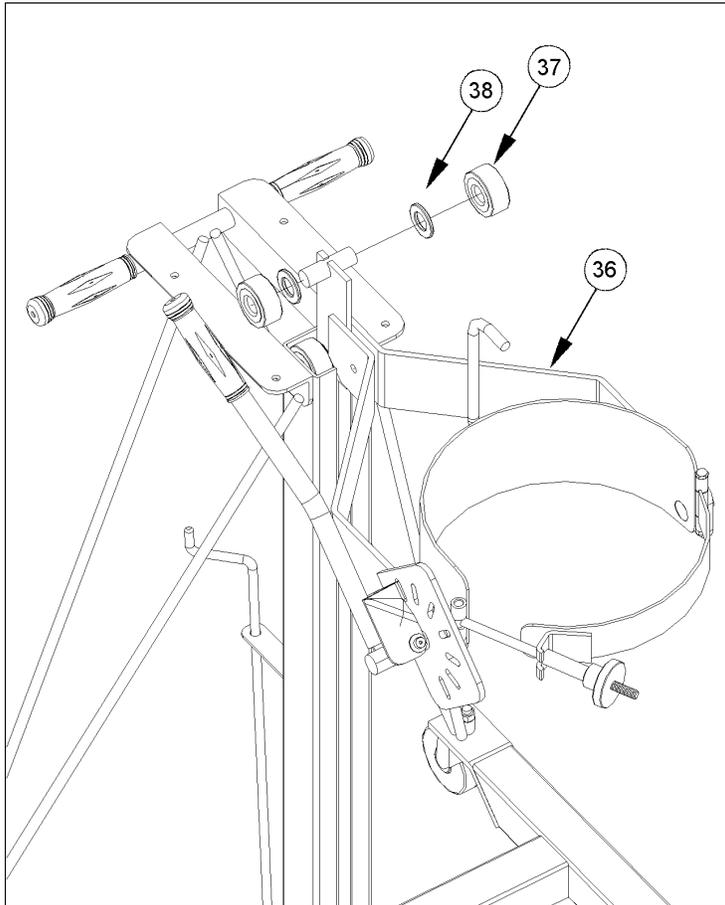


Figure B

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4. Locate the upper mast assembly (item 18 in Figure C).
 - A. Set the upper mast assembly onto the lower mast assembly, as shown in Figure C, and align the four bolt holes.
 - B. From the bottom, insert one 5/16-18 x 1" bolt (item 17) into each of the four holes and secure with 5/16-18 hex nut (item 19).
5. Locate the cable (item 28 in Figure D) on the winch and pull it out until the cable can wrap over the top pulley and reach down to the carriage assembly as shown in Figure D.
 - A. While holding the cable end in between the plates on the carriage weldment and centered on the bolt hole, insert one 3/8-16 x 1" bolt (item 39) and secure with 3/8 lock nut (item 3).
 - B. Ensure that the cable travels over the two pulleys correctly and that the cable end is securely fastened to the carriage assembly.
6. The crank handle from the winch has been removed for shipping. Install the hand crank by removing the bolt, washer, spacer and spring from the winch and threading the crank onto the threaded brake shaft. Reinstall the above hardware to secure the crank in place. (Refer to pages 10-13 for more Brake Winch detail)
7. The winch cover (item 21 in Figure E) is held in place using four nylon lock nuts (item 20).

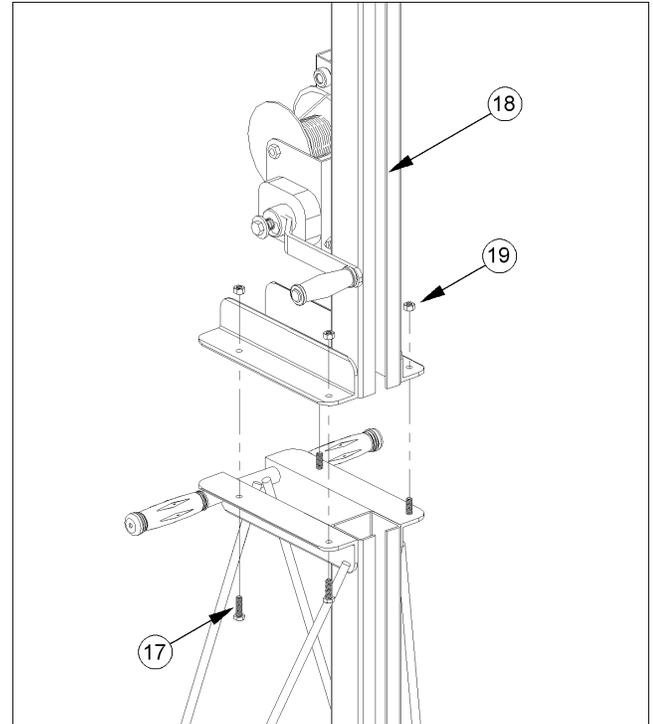


Figure C

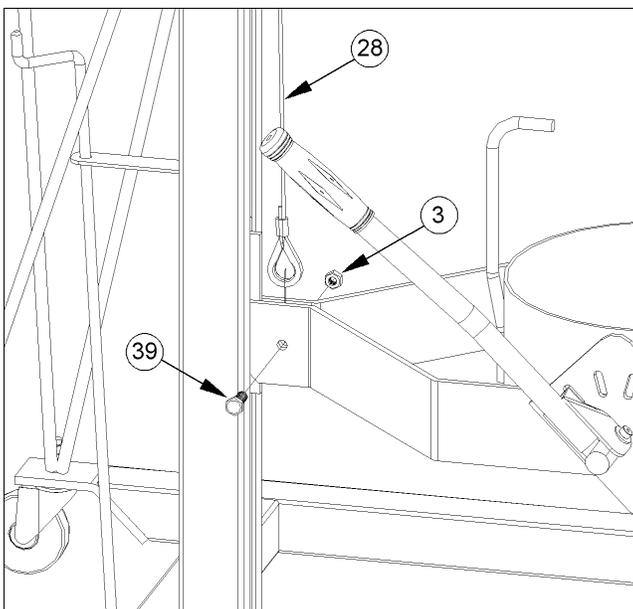


Figure D

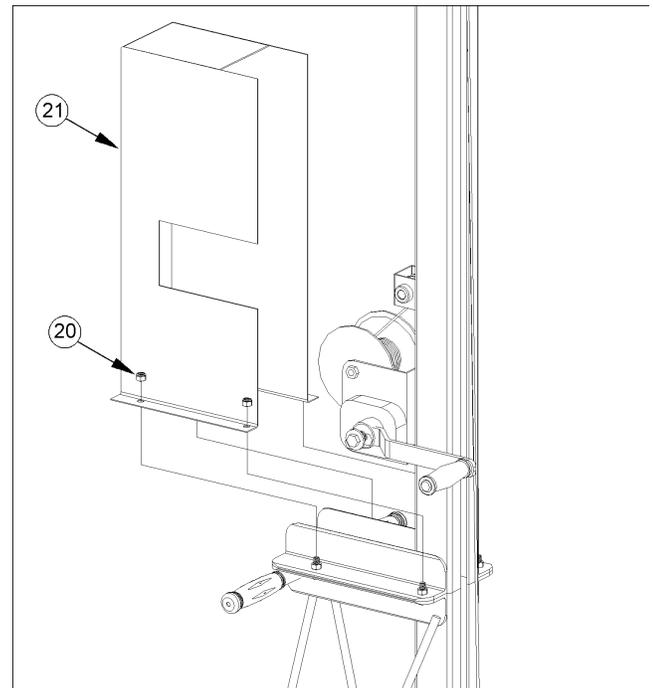
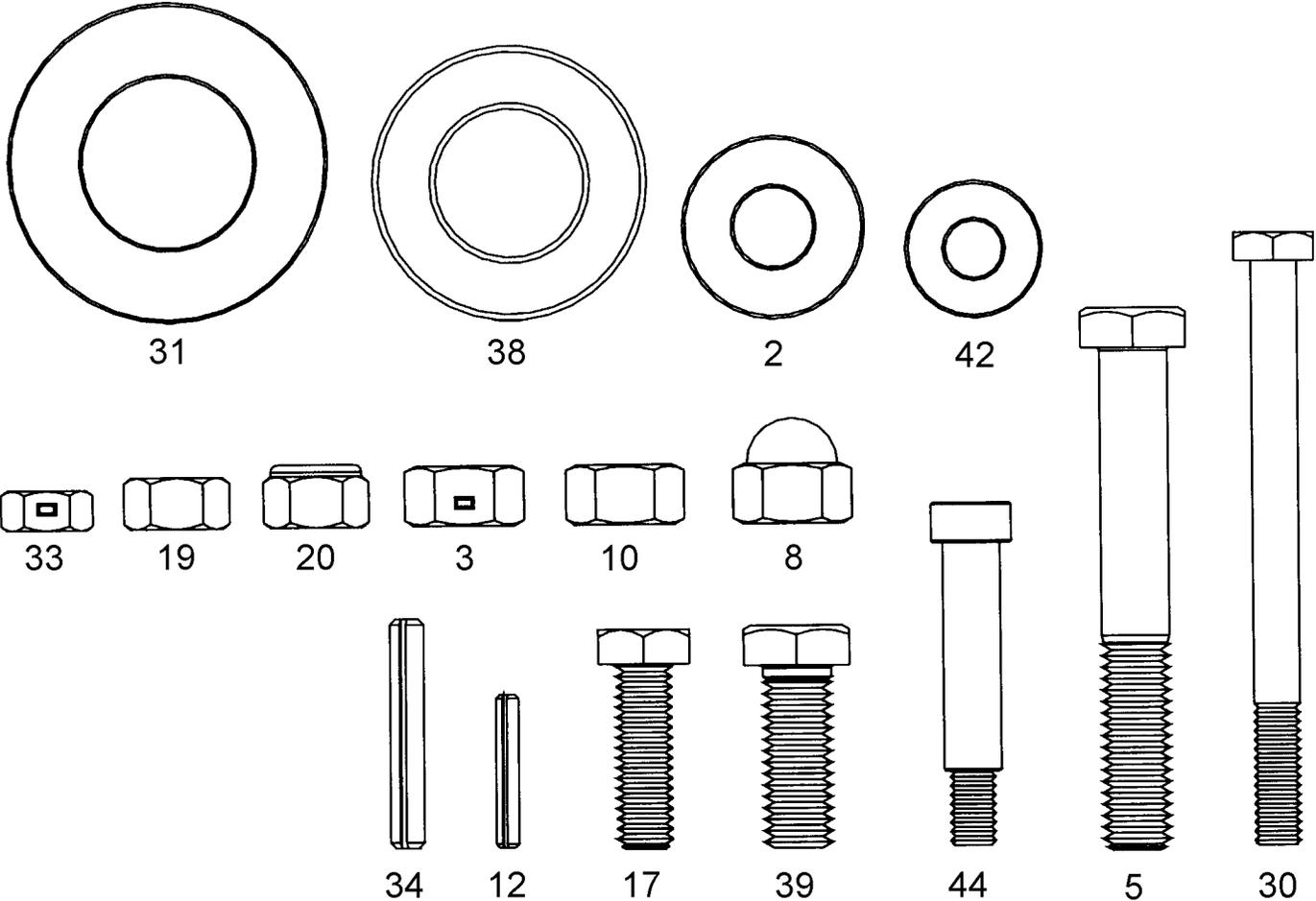


Figure E

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<u>Item #</u>	<u>Quantity</u>	<u>Part #</u>	<u>Description</u>
2	7	1166-P	WASHER, 3/8 USS 1" OD
3	6	1169-P	3/8 - 16 REV HEX LOC NUT
5	4	1315-P	3/8 - 16 X 2-3/4 HHCS GR 2
8	2	3921-P	3/8 - 16 ACORN NUT
10	2	149-P	3/8 - 16 FIN HEX NUT
12	1	1675-P	ROLL PIN, 1/8 X 7/8
17	4	35-P	5/16 - 18 X 1 HHCS GR 2
19	4	172-P	5/16 - 18 FIN HEX NUT
20	5	3920-P	5/16 - 18 NYLON LOCK NUT
30	1	3804-P	1/4 - 20 X 3-1/4" HHCS
31	2	1225-P	WASHER, 7/8 SAE FL 1-3/4 OD
33	1	1297-P	1/4 - 20 REV HEX LOC NUT
34	2	64-P	ROLL PIN, 3/16 X 1-1/4
38	4	55-P	WASHER, 3/4 SAE FL 1-1/2 OD
39	1	1572-P	3/8 - 16 X 1" HHCS GR 2
44	1	8355-P	SHOULDER SCREW 1/4-20 X 1-1/4

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1. 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.



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
The PailPRO Pail Handler is designed to handle one pail with 11" to 12" diameter. *DO NOT* attempt to handle any other type of container or object. *DO NOT* exceed the weight capacity of 150 Lb. (75 Lb. maximum weight if counterweight option is used.)



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 damage to the machine.

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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.

2. Operation

- 1.) Push the Pail Handler to the pail.
- 2.) Using the cable winch, crank the handle to position the pail holder assembly with the back band at the middle of the pail. (see Figure 1). If the pail has a pivoting wire handle, swing it to lay on the front side to clear the back band. With the front band hinge plate and clamp screw knob swung open, push the unit forward until the back band rests firmly against the pail. Engage the screw down floor lock.
- 3.) **Attaching the pail:**
First, swing pivoting wire handle to lay on the back band side of the saddle. Next, close the front band hinge plate tightly against the pail (see Figure 2). Swing the clamp screw knob and engage the threaded rod into the slot on the front band hinge plate as shown in Figure 2. Tighten the clamp screw knob to secure the pail into the saddle.

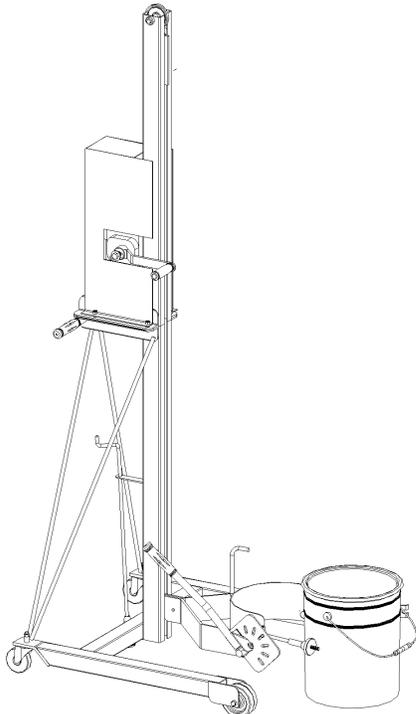


Figure 1

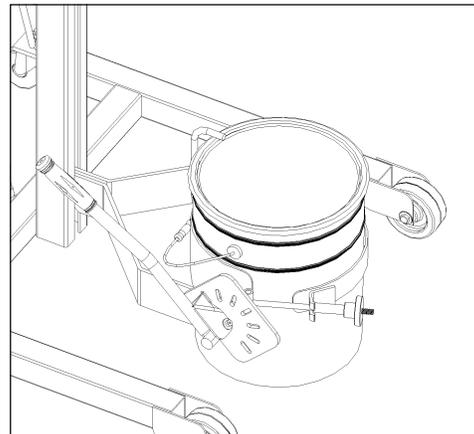


Figure 2

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4.) Crank the cable winch to lift pail clear of floor. Disengage floor lock. Roll to dispensing location.



CAUTION – Do Not Transport with Pail Raised

ALWAYS LOWER THE PAIL HOLDER TO LOWEST POSITION BEFORE TRANSPORTING. The unit can become unstable when transporting with a raised load.

5.) Crank cable winch to raise pail to desired pouring height. Engage the screw-down floor lock. Pull the indexing tilt lever to disengage from indexing knotch. Tilt the pail forward until desired pouring angle and guide the indexing tilt lever into the nearest indexing knotch. The pail will remain in this position.

6.) When dispensing is complete, tilt pail back to upright position. Disengage the floor lock and lower the pail to transporting height; about 6" off the floor.



WARNING - Stay Clear of Raised Pail

NEVER allow anyone to be below any part of a raised pail handler or pail. Remain behind the push handle while handling a pail.



WARNING – Do NOT Disengage the clamp screw knob while pail is off the Ground

When the pail is in the upright position, lower to the floor before releasing the clamp screw knob.

7.) Push the unit to the pail storage area and lower to the floor. Engage the floor lock. Loosen the clamp screw knob until it can be released from the slot in the front band hinge plate. Roll Pail Handler away from pail.

3. Maintenance

Periodic inspection for the general condition of structural and mechanical components is imperative for safe and efficient operation.

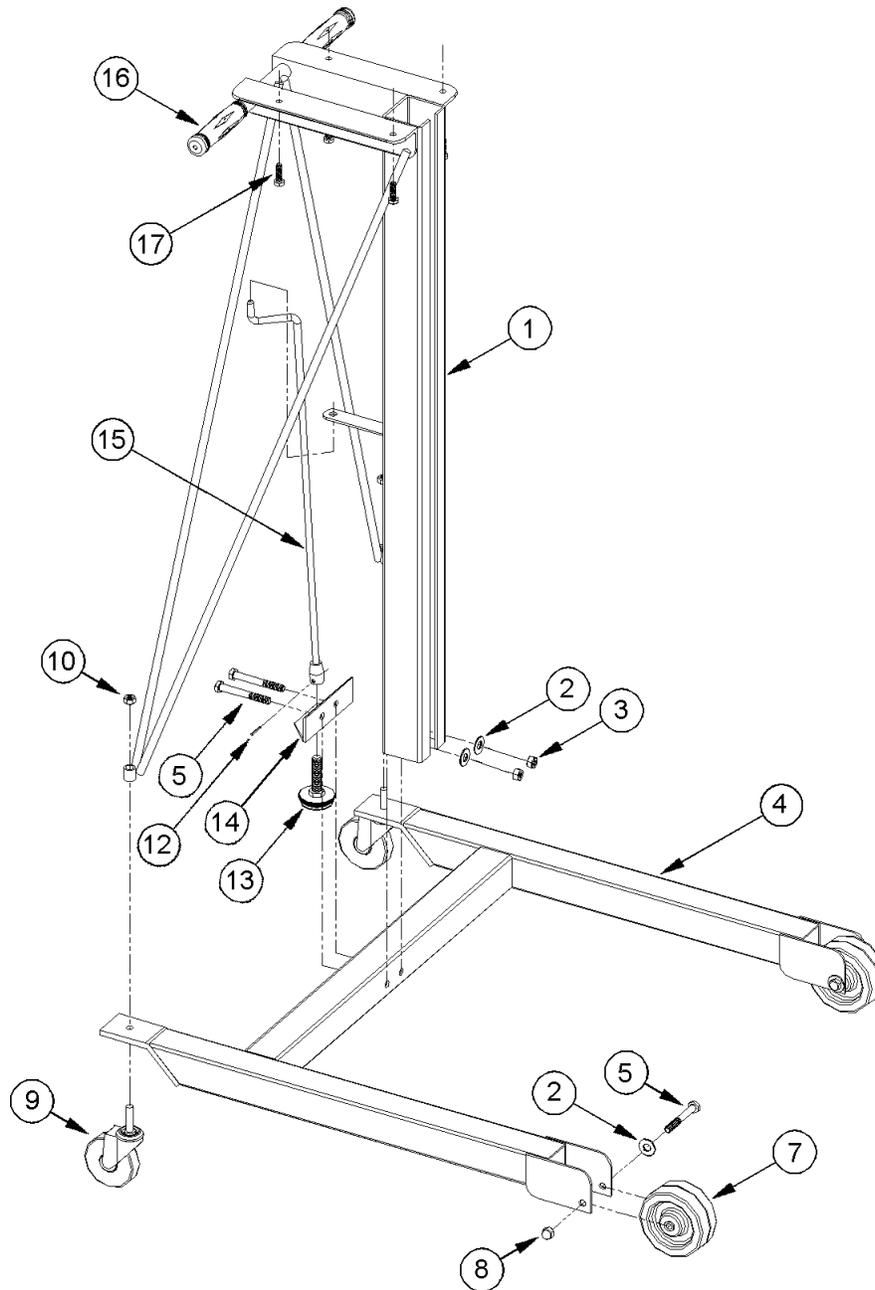
Periodically inspect all moving parts, framework, and contact areas for signs of wear, fatigue, or loosening. Tighten, adjust, or replace parts as necessary to prevent failure and maintain proper function.

Periodically lubricate vertical track rollers, casters, wheels, saddle shafts, and cable pulleys and/or shafts.

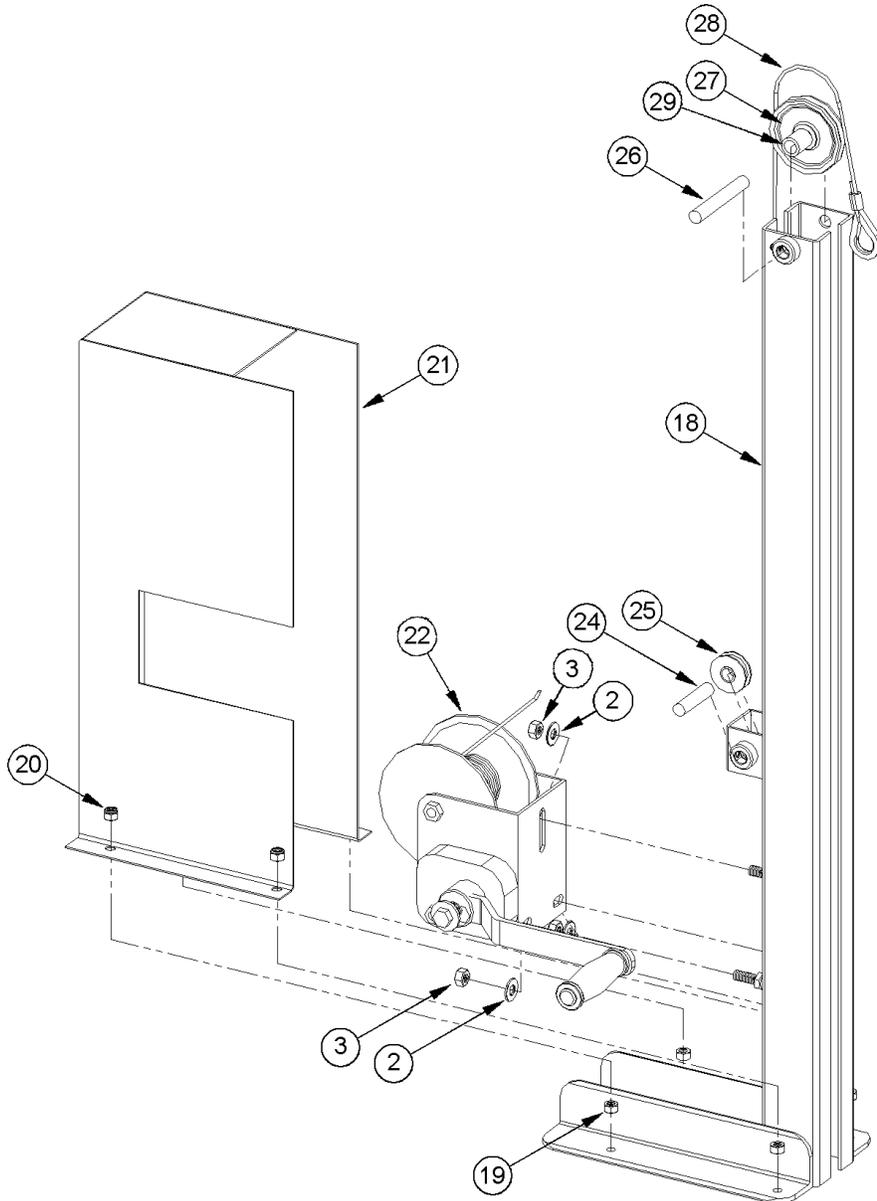
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Item #	Quantity	Part #	Description
1	1	3791-P	MAST LOWER WELD, 83
2	7	1166-P	WASHER, 3/8 USS 1" OD
3	6	1169-P	3/8 - 16 REV HEX LOC NUT
4	1	3790-P	BASE WELD, 83
5	4	1315-P	3/8 - 16 X 2-3/4 HHCS GR 2
7	2	3885-P	WHEEL, 4 X 1-1/2, 83
8	2	3921-P	3/8 - 16 ACORN NUT
9	2	3789-P	CASTER, STEM, 3" SWIVEL, 83
10	2	149-P	3/8 - 16 FIN HEX NUT
12	1	1675-P	ROLL PIN, 1/8 X 7/8
13	1	8353-P	PAD FLOOR LOCK DRILLED, 83
14	1	3775W-P	ANGLE, FLOOR LOCK WELD, 83
15	1	8351W-P	CRANK WELD, FLOOR LOCK, 83
16	2	136-P	HANDLE GRIP, 7/8" X 4-3/4"
17	4	35-P	5/16 - 18 X 1 HHCS GR 2
18	1	3903-P	MAST ASM, UPPER, 83
19	4	172-P	5/16 - 18 FIN HEX NUT
20	4	3920-P	5/16 - 18 NYLON LOCK NUT
21	1	3829-P	GUARD WELD, 83
22	1	3797-P	WINCH, 83
24	1	8354-P	CLEVIS SHAFT, MID SHEAVE, 83
25	1	3911-P	MID SHEAVE, 1-1/2 STEEL, 8
26	1	3803-P	CLEVIS SHAFT, TOP SHEAVE, 83
27	1	3798-P	TOP SHEAVE, 3" POLY, 83 PP
28	1	3802-P	1/8" WIRE ROPE CPT, 83
29	2	3904-P	SPACER, TOP PULLEY, 83
30	1	3794-P	BACK BAND WELD, 83
31	1	3804-P	1/4 - 20 X 3-1/4" HHCS
32	1	1225-P	WASHER, 7/8 SAE FL 1-3/4 OD
33	1	3795-P	FRONT BAND WELD, 83
34	1	1297-P	1/4 - 20 REV HEX LOC NUT
35	1	64-P	ROLL PIN, 3/16 X 1-1/4
36	1	3714W-P	KNOB WELD, CLAMP SCREW 83, 7-X
37	1	3793-P	CARRIAGE WELD, 83
38	4	3194-P	BEARING, 3/4 ID, 82, 500, 60
39	4	55-P	WASHER, 3/4 SAE FL 1-1/2 OD
40	1	1572-P	3/8 - 16 X 1" HHCS GR 2
41	1	1395-P	HANGER TUBE, CHAIN GUIDE
42	1	8360-P	SPRING, COMPRESSION, 8
43	1	1866-P	WASHER, 1/4 USS 3/4 OD
44	1	3809-P	HANDLE WELD, INDEX LEVER, 83
45	1	8355-P	SHOULDER SCREW 1/4-20 X 1-1/4
46	1	1518-P	1/4 - 20 NYLON LOCK NUT

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Upper Mast Assembly

