

**MORSE # 96REFIT-P**  
**HYDRAULIC REFIT KIT**

Replaces the obsolete hydraulic equipment (pre 08/1985) on manual-lift 400 Series drum handlers with current Star Hand Pump and hydraulic cylinder

**A. ASSEMBLY INSTRUCTIONS**

1. Fasten pump mount bracket (9) to mast, 12" above top of leg (see diagram). If bolt-on is preferred, drill 3/8" diameter holes through mast in a pattern matching the bracket holes. Ensure that the pump mount plate is horizontal. Bolt bracket (9) onto mast using the two bolts (14), two washers (3), and two lock nuts (10).

2. Fasten hydraulic pump (5) to pump mount bracket (9) using the four bolts (4), eight washers (3), and four lock nuts (10).

3. Replacing the Hydraulic cylinder - First: lower the overhead assembly until the cylinder is fully retracted. Support the overhead assembly to release the forces on the cylinder. While holding the cylinder, remove the top clevis pin and gently swing it down to rest on the floor. Remove the bottom clevis pin and remove the cylinder. Insert the bottom of the new cylinder into the bottom clevis plates with the tapped port facing toward the hydraulic pump. Insert the clevis pin and secure with washer (11) and 3/16" roll pin. Swing the cylinder up to the top clevis plates and secure with clevis pin, five washers (11), and 3/16" roll pin. (See parts diagram)

4. Screw elbow into port near bottom of cylinder. (Hydraulic grade thread sealer is recommended) Tighten elbow until the fitting is oriented at a 45° angle from vertical. (See Figure 1)

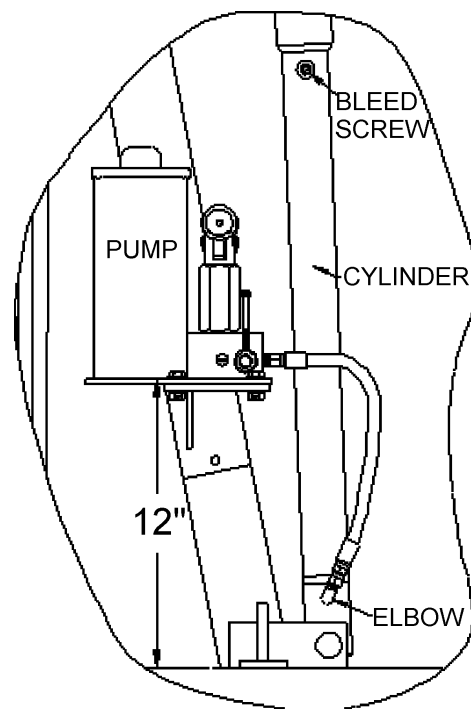
5. Screw fixed end of hose into pump port. (Hydraulic grade thread sealer is recommended)

6. Connect swivel fitting end of hose to elbow on hydraulic cylinder. Use a second wrench to prevent hose from twisting. (Do NOT pump the hydraulic pump until the following steps are completed.)

7. Remove the plastic breather port cap (red, square shaped) from the top of the hydraulic pump. Thread the breather screw, by hand, into the port.

8. Bleeding air from cylinder. Open release valve at base of hydraulic pump to ensure that there is no pressure in the system. Locate the cylinder bleed screw near the top of cylinder (3/16" socket set screw). Loosen the screw 1/2 turn. While holding the wrench on the cylinder bleed screw, slowly pump the hydraulic pump until hydraulic fluid seeps from the bleed port and immediately tighten the screw. Do NOT operate the hydraulic pump, under load, with the bleed screw loosened.

• Unit is ready for service.



**FIGURE 1**

**PARTS LIST**

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96REFIT-P HYDRAULIC CONVERSION KIT			
Serial number 0802 to ____ (MMYY)			
ITEM	QTY	P/N	DESCRIPTION
1	1	96CP13-23	HANDLE, LEVER W/ GRIP, STAR
2	1	96P1-16	BREATHER SCREW, STAR
3	10	1166-P	WASHER, 3/8 USS 1" OD
4	4	1572-P	3/8 - 16 X 1" HHCS GR 2 STL
5	1	96MK1939-P	PUMP, HYD, HAND STAR
6	1	1035-P	COLLAR, 1/2", RELEASE VALVE
7	1	1040-P	1/4 - 20 X 2-1/2 SHCS STL
8	1	766-P	HYD HOSE ASM, 12"
9	1	2343-P	PUMP MOUNT BRACKET, 96REFIT-P
10	6	1169-P	3/8 - 16 REV HEX LOC NUT
11	6	1166-P	WASHER, 3/8 USS 1" OD
12	1	3610-P	HYD FIT, MALE ELBOW, SAE
13	1	781-P	CYLINDER, 1.5 X 22.625", SAE
14	2	1521-P	3/8 - 16 X 3" HHCS GR 5 STL

**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 Kontrol Karrier.**

**PARTS DIAGRAM**

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