

# Part M4509-P

### **Hydraulic Power Pack**

#### SN 0802 to Current (MMYY) or 203700 to Current

#### **START-UP Procedure**

Machine is shipped with hydraulic fluid.

- 1. Install hydraulic control levers (provided threaded rods with black ball handles)
- 2. IMPORTANT: BEFORE operation, remove the RED shipping plug from the hydraulic reservoir, and replace with the provided **BLACK** breather as shown below.



Remove RED shipping plug from the hydraulic reservoir



Remove BLACK breather from storage position



Install BLACK breather in place of RED shipping plug



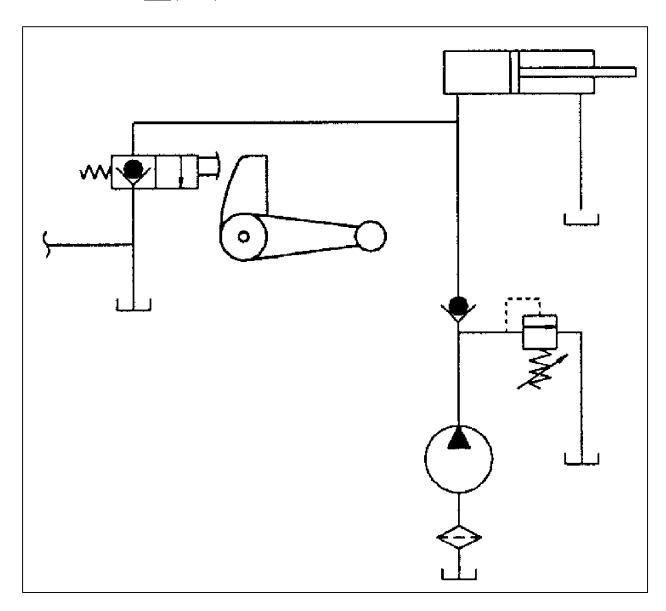
# Part M4509-P

## **Hydraulic Power Pack**

SN 0802 to Current (MMYY) or 203700 to Current

#### HYDRAULIC SCHEMATIC

for Morse Part Number M4509-P Hydraulic Power Pack Used on: 400, 405 and 500 Series with 120 or 124 Option Serial Number 0802 to \_\_\_\_\_ (MMYY)





# Part M4509-P Hydraulic Power Pack SN 0802 to Current (MMYY) or 203700 to Current

#### Maintenance info for Hydraulic Pump

Recommended oil is petroleum based Dexron III ATF or equivalent (non-synthetic). Change oil yearly.

#### **Recommended Operating Conditions:**

- Oil Temperature Range: 10°F to 170°F (-25°C to 77°C)
- Operating Temperature: 50°F to 130°F (10°C to 54°C)

#### Oil Viscosity:

- Optimum 100 to 350 SUS (Cst = .22 X SUS 135/SUS)
- · Minimum 100 SUS at Operating
- Maximum Start Up 4000 SUS

#### Recommended Filtration:

• 10 micron nominal or better

The system should not be disassembled in the field for maintenance. These are pass or fail components.

If the valve or pump fails it will need to be replaced due to wear on components.

The root cause for the failure needs to be taken into account to avoid contaminating the new components or to avoid exposing them to the same fail parameters.