

Part # M4509-P

PUMP POWER PACK FOR OPTIONS 120 & 124

START-UP Procedure

Machine is shipped with hydraulic fluid.

- 1. Install provided hydraulic control levers (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

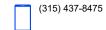


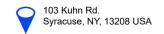
Remove BLACK breather from storage position



Install BLACK breather in place of RED shipping plug









Part # M4509-P

PUMP POWER PACK FOR OPTIONS 120 & 124

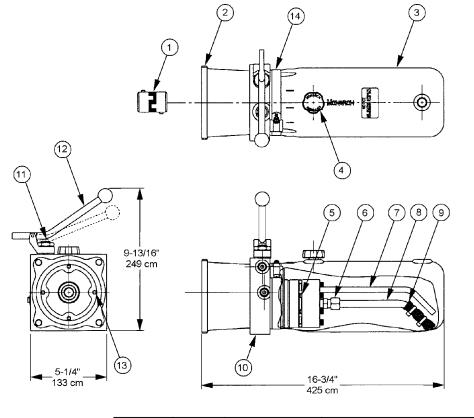
PARTS LIST AND DIAGRAM

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)



ITEM	QTY.	PART#	DESCRIPTION
1	1	M18002-P	COUPLING ASM, M4509, M4507
2	1	M01615-P	HOUSING, PUMP/ MOTOR ADAPTER
3	1	M04618-P	RESERVOIR, POLY, 4.5 X 12
4	1	M03171-P	PLUG, BREATHER, 3/8 NPT
5	1	M12172-200-P	PUMP ASM, M4509, M4507
6	1	M01490-P	CONNECTOR ASM, BRASS 1/2TX3/8
7	1	M13021-1050-P	TUBE, RETURN, 45DEG, 1/8 NPTF
8	1	M04297-08-P	TUBE, SUCTION, 45DEG 1/2 ALUM
9	1	M01315-P	FILTER, SUCTION, MON
10	1	M12481-P	BASE ASM, M4509, MON
11	1	M10802-P	VALVE, MANUAL, 2W/2P, NC
12 *	1	M11208-P	HANDLE ASM, M4509, MON
13	4	M07818-P	SHCS, 1/4-20 X 3
14	1	M07900-P	CLAMP, HOSE, WORM GEAR, RSV

^{*} Recommended spare parts



Part # M4509-P

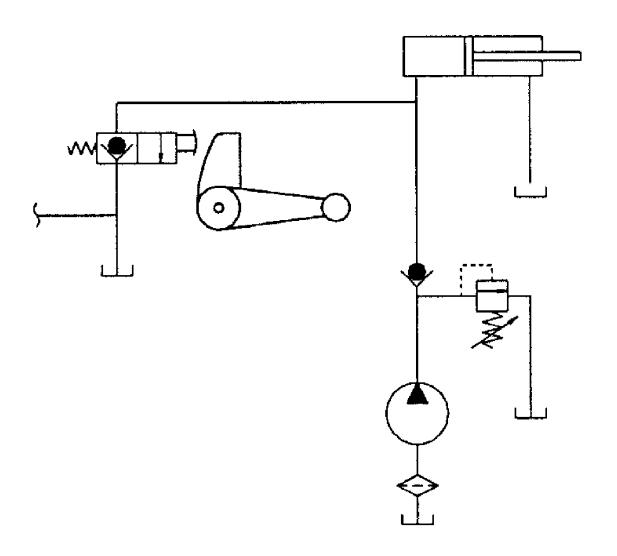
PUMP POWER PACK FOR OPTIONS 120 & 124

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 PUMP POWER PACK FOR OPTIONS 120 & 124

Maintenance for Hydraulic Power Pack

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.