



# Lube System Installation & Service Recommendations

## INSTALLATION TIPS

1. **GENERAL** — Review lubrication layout and associated drawings before proceeding with installation.
2. **FEEDERS:**
  - a. Locate and mount on flat surface in accessible area central to bearings being served.
  - b. **WARNING:** Be sure every MJ, MS, & MX feeder assembly has a minimum of three (3) intermediate or working sections.
  - c. Divider valve pistons should be mounted in a horizontal plain for optimum performance.
3. **LINES:**
  - a. Use the following size tubing or equivalent hose or pipe: 1/4" for all bearing lines, 3/8" between feeder blocks, 1/2" pump to master.
  - b. Clean before installing.
  - c. Install with a minimum amount of fittings and bends.
  - d. Connect feeders, pump, and reservoir.
  - e. Connect designated feeder section outlets to proper bearings.
  - f. **WARNING:** Do not block off feeder outlets that are designed to be used as this will cause a system blockage.
  - g. **WARNING:** Be sure every T (twin) section has an outlet being used from each end and every S (single) Section has only one outlet.
4. **LUBE POINTS:**

Pre-lubricate, making sure that taps accept lubricant before connecting lines.
5. **RESERVOIR** - Locate in accessible area and mount in vertical position.
6. **PUMPS, SOLENOID VALVES, FLOW CONTROLS, AND GAUGES:**
  - a. Locate and mount in proper position directly below reservoir.
  - b. Connect supply lines.
  - c. Adjust pump output as required.
  - d. Adjust flow control to 1/8" open.
7. **ELECTRICAL COMPONENTS:**
  - a. Locate in accessible area.
  - b. Shock mount panels with lights in an area visible to machine operator.
  - c. Connect supply line.
  - d. Set pressure switches and program timer as required.
8. **FILLING:**
  - a. Fill reservoir with filtered lubricant using up to an N.L.G.I. No.1 grease that does not separate or any good grade of lubricating oil.
  - b. Fill and purge system following the recommended procedure in Trabon bulletin No. 30103.
9. **OPERATIONAL:**
  - a. Turn on utilities to pump and electrical controls.
  - b. Fill and purge pump using the timer manual run button.
  - c. Operate pump using the timer manual run button or the solenoid valve and observe system pressure. System pressure will usually fluctuate (because flow from pump is to one bearing at a time) and back pressures may vary considerably. Readjust flow control if necessary.
  - d. **NOTE:** Continuous operation of lube system without machine operation can overload bearings and excessive system pressure may result.

## SYSTEM TROUBLESHOOTING CHART

TROUBLE	PROBABLE CAUSE	POSSIBLE REMEDY
General	<ul style="list-style-type: none"> <li>a. Leaking or disconnected components.</li> <li>b. Damaged lines or components</li> </ul>	<ul style="list-style-type: none"> <li>a. Connect all lines and components. Check lube drawings for component location and settings.</li> <li>b. Replace components or install new lines, per Trabon Sheet No. 30103.</li> </ul>
No Pressure	<ul style="list-style-type: none"> <li>a. Defective gauge.</li> <li>b. Low or empty reservoir.</li> <li>c. System air-bound.</li> <li>d. Defective or inoperative pump</li> <li>e. No resistance to flow.</li> </ul>	<ul style="list-style-type: none"> <li>a. Replace with a tested gauge.</li> <li>b. Bleed lines and fill reservoir.</li> <li>c. Make sure no air is entering unit. Fill reservoir, Check and repair per Trabon Sheet No. 30101.</li> <li>d. Check that pump operates. If it does not build pressure against resistance, change pump.</li> <li>e. Check system operating pressure</li> </ul>
High Pressure	<ul style="list-style-type: none"> <li>a. Blockage in system.</li> </ul>	<ul style="list-style-type: none"> <li>a. Locate system blockage or high pressure source by following procedures in Trabon Sheet No. 30103.</li> </ul>
Unit Not Pumping or Stops While Running	<ul style="list-style-type: none"> <li>a. Blocked inlet filter.</li> <li>b. Air in Pump.</li> <li>c. Low oil level.</li> <li>d. Pump failure</li> <li>e. Loss of power source to pump.</li> </ul>	<ul style="list-style-type: none"> <li>a. Change filter.</li> <li>b. Purge per Trabon Sheet No. 30103.</li> <li>c. Fill reservoir.</li> <li>d. Replace pump.</li> <li>e. Restore proper power source to pump.</li> </ul>
Noisy Pump Valve Relieved	<ul style="list-style-type: none"> <li>a. Loose or worn pump parts.</li> <li>b. Filter or strainer dirty.</li> <li>c. Air leaking into system.</li> </ul>	<ul style="list-style-type: none"> <li>a. Tighten all bolts and nuts to the proper torque. Replace worn parts or repair.</li> <li>b. Change filter or strainer.</li> <li>c. Fill reservoir. Check all tubing and pipe connections. Check and repair per Trabon Sheet No. 30101.</li> </ul>
Output Decreases Rapidly	<ul style="list-style-type: none"> <li>a. Worn pump parts.</li> </ul>	<ul style="list-style-type: none"> <li>a. Replace worn parts or repair.</li> </ul>
Ruptured Blown Out Disc or Relief Valve Relieved	<ul style="list-style-type: none"> <li>a. System blockage downstream of pump.</li> <li>b. Blow out disc pressure rating too low or relief valve setting pressure to low.</li> </ul>	<ul style="list-style-type: none"> <li>a. Check and repair per Trabon Sheet No. 30101. Replace components if necessary.</li> <li>b. Change disc or setting.</li> </ul>
Excessive Fluctuation on Pressure Gauge	<ul style="list-style-type: none"> <li>a. Pump flow adjustment.</li> </ul>	<ul style="list-style-type: none"> <li>a. Adjust pump flow control valve to reduce stroking speed.</li> </ul>
<b>HELPFULL HINTS</b>		
<ul style="list-style-type: none"> <li>1. Reservoir: <ul style="list-style-type: none"> <li>a. Fill with proper lube.</li> <li>b. Open bleed cock to remove air pocket</li> <li>c. Remove contamination or hardened grease.</li> <li>d. Eliminate leaks by replacing tube and or gaskets</li> <li>e. Replace broken spring or worn cup packing.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>2. Electrical: <ul style="list-style-type: none"> <li>a. Check power supply and operation of all components.</li> <li>b. Look for jumpered out or disconnected components.</li> <li>c. Check timers for improperly placed pins and reposition if necessary.</li> <li>d. Test, repair, or replace pump solenoid, feeder limit switch, cam timer, relays, timer micro switch, pressure switches and bulbs.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>3. Feeders: <ul style="list-style-type: none"> <li>a. Check torque rods and plugs.</li> <li>b. Uneven mounting surface introduces distortion in assembly - use spacers.</li> </ul> </li> </ul>

**For Trabon Engineering, Sales, Services and Installation Contact:**

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