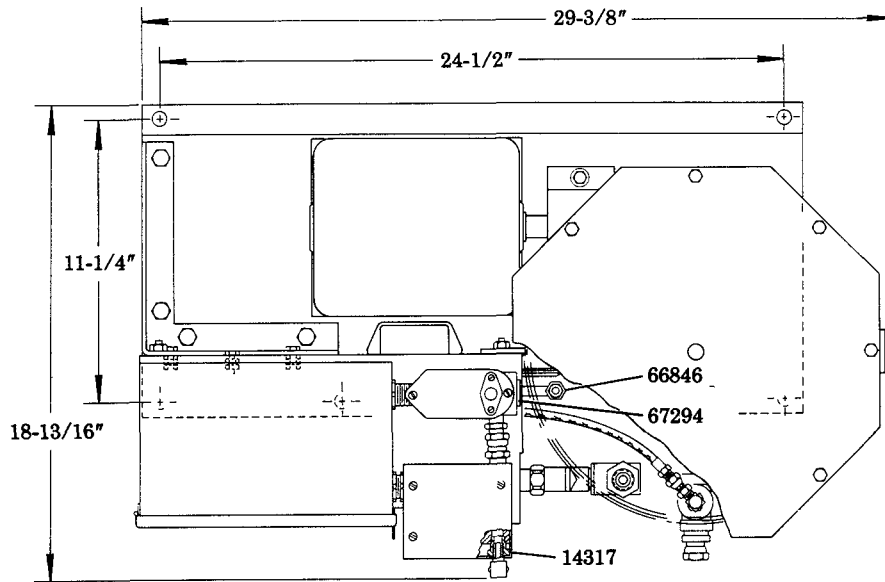


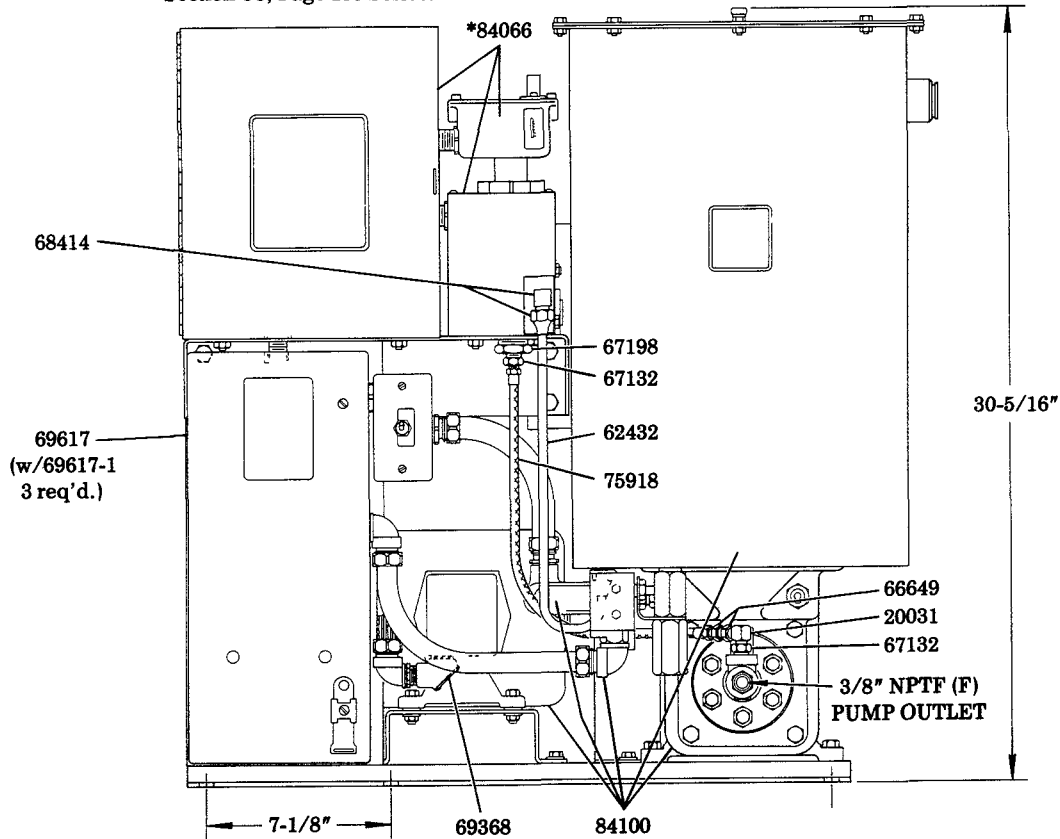
ELECTRIC CENTRO-MATIC MULTIPLE PISTON PUMP



**Models 1854
84100
Series "A"**



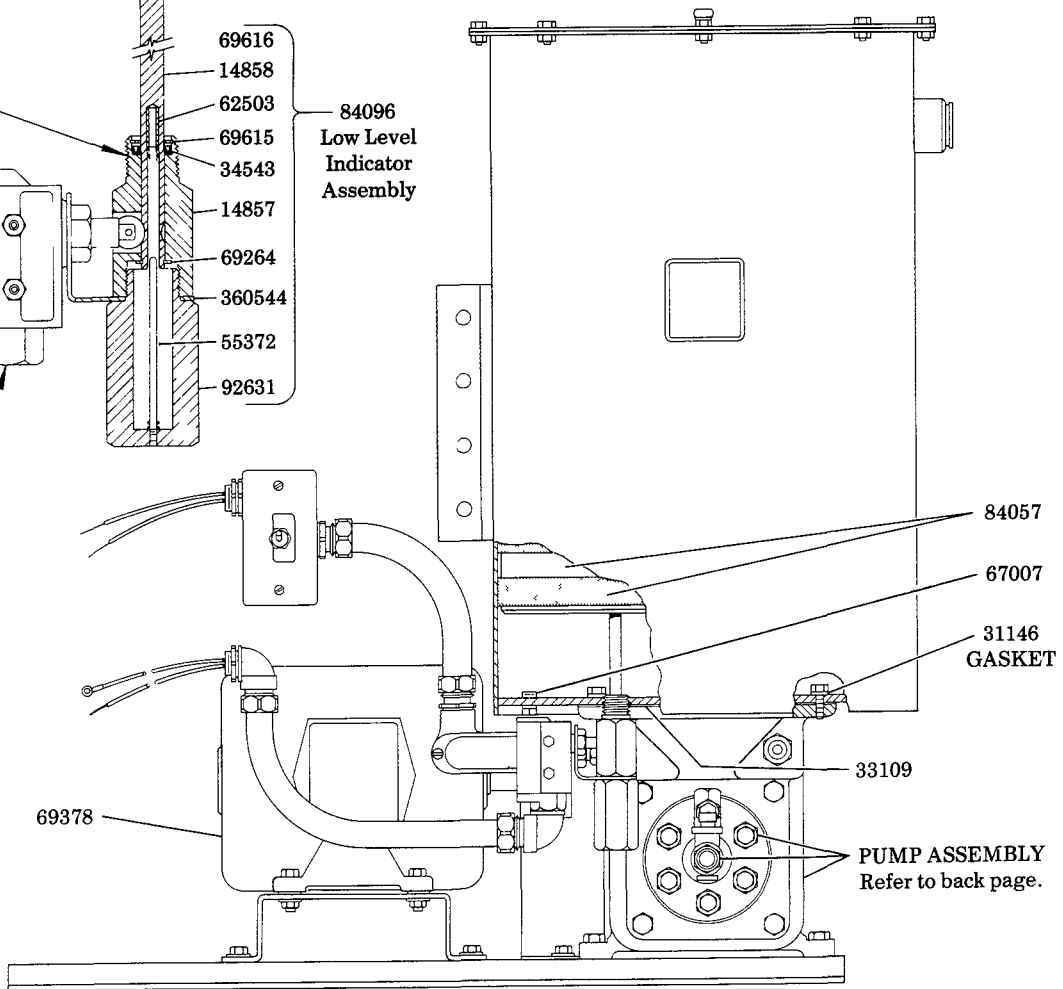
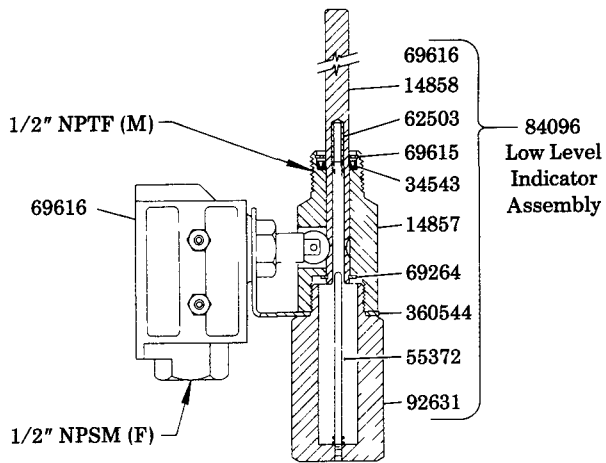
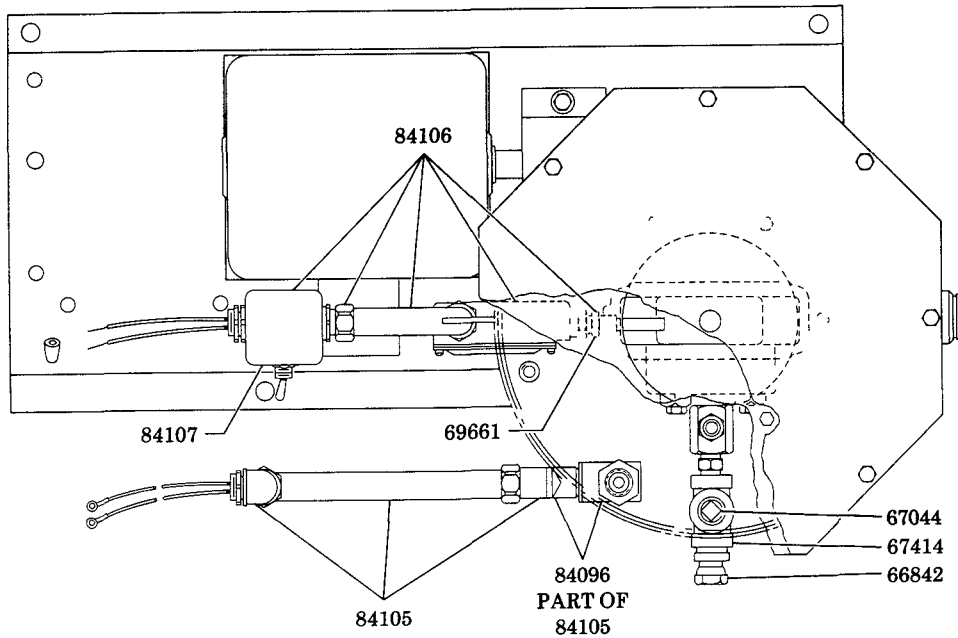
***84066 Centro-Matic Control Panel**
Refer to Service Manual
Section C8, Page 139 Series.



LINCOLN ST. LOUIS
4010 GOODFELLOW BLVD • ST LOUIS, MO 63120 • (314) 383 5900



**SECTION - C8
PAGE - 185**



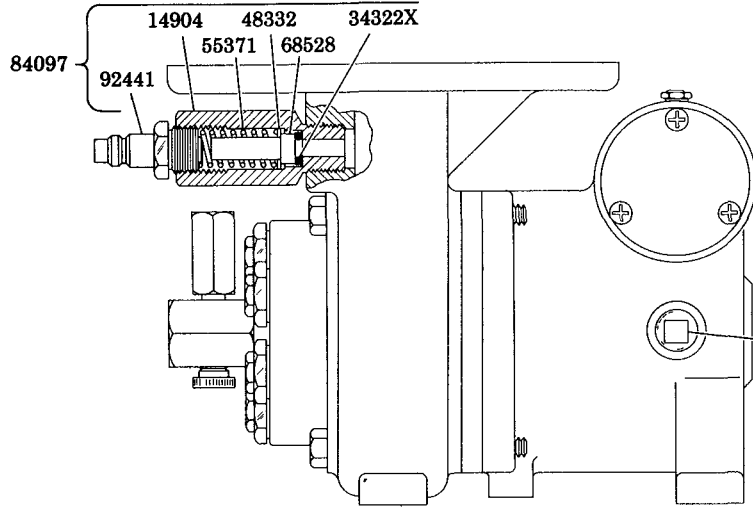
MODEL 84100 MULTIPLE PISTON PUMP ASSEMBLY

RETAIN THIS INFORMATION FOR FUTURE REFERENCE

When ordering replacement parts, list: Part Number, Description, Model Number, and Series Letter.

LINCOLN ST. LOUIS provides a Distributor Network that stocks equipment and replacement parts.

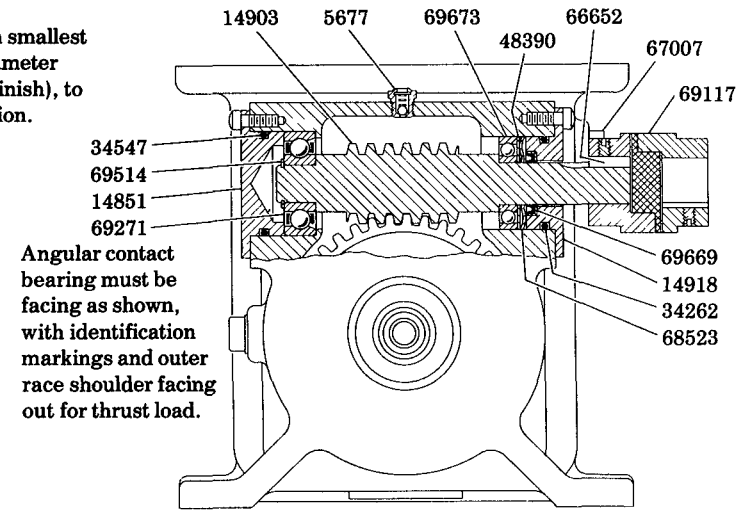
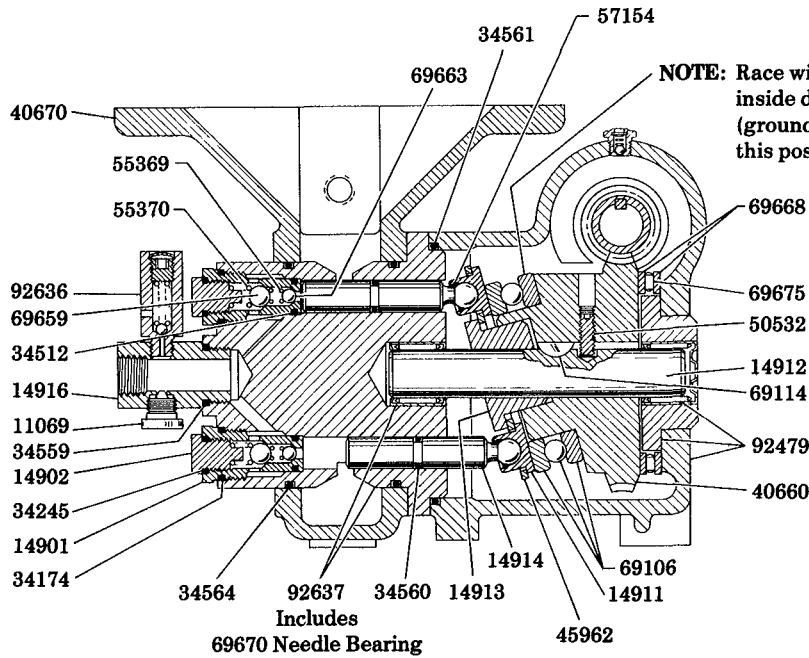
A list of Authorized Service Departments will be furnished upon request.



67044

NOTE:
Fill housing with SAE 30 oil
to level of 67044 Pipe Plug.

PUMP ASSEMBLY



DESCRIPTION

The 1854 Electric Centro-Matic Multiple Piston Pump is designed for automatic time-controlled lubrication of large mining machines and equipment where an air supply is not readily available. The 1854 is used in grease systems with SL-1, SL-11, SL-32 and SL-33 Injectors.

SPECIFICATIONS

Operating Pressure: 2,500 psi.
 Maximum Pressure: 3,000 psi.
 Lubricant Output: 65 cu. in. of NLGI #1 grease per minute.
 Viscosity Capacity: NLGI #2 grease.
 Reservoir Capacity: 75 lbs.
 Power Requirements: 230/460 volts, 3 phase, 60 Hz.
 Sound Intensity: 65 DBA

OPERATION

An electric motor powers a simple worm and worm gear with an inclined plate to convert rotary motion of gear and plate into reciprocating pumping action by six individual plungers. Output from each piston is double checked and combined into a common outlet. A relief valve at the outlet protects the motor from overload should excessive pressure build up due to pressure switch failure. Weighted, sealed follower exerts downward pressure on grease in reservoir to prime the pump. Reservoir may be filled only through the filler nipple at bottom of tank, with overflow protection on side of reservoir in the form of a tapped hole for a pipe. A low level warning switch is provided which, if connected to a horn or light, provides sufficient advance warning to the operator. An immersion heater is also provided which permits raising the temperature of the grease at the inlet to the pump.

DISASSEMBLY PROCEDURE

Remove the motor coupling guard. Loosen the set screws in the 69117 Motor Coupling and gently pry the coupling halves apart.

Remove the lubricant hose from the pump outlet. Remove the 92636 Safety Unloader from the pump outlet and, if applicable, disconnect the hose leading to the pressure switch.

Remove the four bolts which secure the pumping unit to the 40670 Inlet Funnel. While supporting the worm gear end of the pumping unit, push the pumping unit out of the 40670 Inlet Funnel. If necessary, gently tap on the pump outlet with a soft lead mallet.

Remove the 14916 Outlet Adapter and set the pumping unit on the six outlet checks in a shallow pan.

Remove the 92479 Housing Assembly from the 92637 Outlet Cylinder Assembly by lifting up on the housing assembly while gently tapping on the outlet cylinder with a soft lead mallet. Remove the 69675 Thrust Bearing and its two 69668 Races from the back of the 40660 Worm Gear.

Using a suitable marker (chalk, etc.), mark one 14914 Plunger at its mating chamber in the 92637 Outlet Cylinder Assembly. Pull the 40660 Worm Gear to remove the six 14914 Plungers from the 92637 Outlet Cylinder Assembly.

SERVICE PARTS

PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION
5677	1	Relief fitting	40670	1	Inlet funnel	69378	1	1-hp motor
11069	1	Vent plug	45962	1	Guide retainer	69514	1	Retaining ring
14317	1	Adapter	48332	1	Washer	69615	1	Retaining ring
14851	1	Retainer	48390	1	Washer	69616	1	Micro-switch
14857	1	Cut-off body	50532	1	Set screw	69617	1	Transformer & motor starter
14858	1	Actuator	55369	6	Spring	69617-1	3	Heater element
14901	6	Check housing	55370	6	Spring	69659	6	Ball
14902	6	Stop screw	55371	1	Spring	69661	1	Immersion heater
14903	1	Cylindrical worm & shaft	55372	1	Spring	69663	6	Ball
14904	1	Strainer housing	57154	6	Ring spring	69668	2	Thrust race
14911	6	Plunger guide	62432	1	Tubing	69669	1	Oil seal
14912	1	Shaft	62503	1	Spacer sleeve	69670	1	Needle bearing
14913	1	Retainer	66649	1	Adapter union	69673	1	Ball bearing
14914	6	Plunger	66652	1	Key	69675	1	Needle thrust bearing
14916	1	Outlet adapter	66842	1	Adapter union	75918	1	Hose
14918	1	Oil seal retainer	66846	1	Male tube connector	84057	1	Follower assembly
20031	1	Elbow	67007	2	Pipe plug	84066	1	Centro-Matic control panel
31146	6	Gasket	67044	2	Pipe plug	84096	1	Low level indicator
33109	1	Gasket	67132	2	Reducer	84097	1	Strainer housing assembly
34174	6	O-ring	67198	1	Adapter	84100	1	Multiple piston pump assm.
34245	6	O-ring	67294	1	Pipe plug	84105	1	Low level indicator kit
34262	1	O-ring	67414	1	Tee	84106	1	Reservoir heater kit
34322X	1	D-packing	68414	1	Connector	84107	1	Switch box assembly
34512	6	O-ring	68523	1	Wave washer	92441	1	Male filler fitting
34543	1	U-cup packing	68528	1	Strainer	92479	1	Pump housing
34547	1	O-ring	69106	1	Thrust bearing	92631	1	Spring housing
34559	1	O-ring	69114	1	Key	92636	1	Safety relief valve
34560	6	O-ring	69117	1	Flexible coupling	92637	1	Outlet cylinder
34561	1	O-ring	69264	1	Retaining ring	360544	1	Bracket
34564	2	O-ring	69271	1	Bearing			
40660	1	Worm gear & wobble plate	69368	1	Pulling elbow			