AIR OPERATED GREASE PUMP

SINGLE STROKE, AIR RETURN (WITH ELECTRIC CONTROLS)

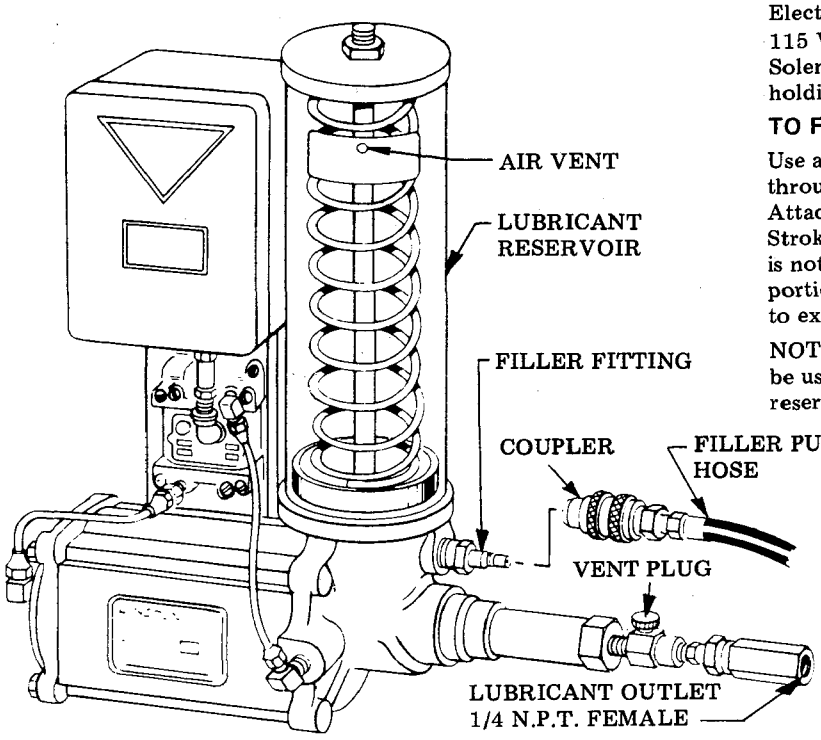
Model 282655

SPECIFICATIONS

Ratio	Lubricant Output (cu. in.)	Reservoir Capacity	Air Inlet	Lubricant Outlet	LUBRICANT OPERATING PRESSURE (P.S.I.)			
					Type of System	Minimum	Maximum	Recommended
31:1	*1.4	4 lb.	1/4" N.P.T. Female	1/4" N.P.T. Female	SL-1	1,850 With 60 P.S.I. Air	3,500 With 115 P.S.I. Air	2,500 With 85 P.S.I. Air
					SL-32 SL-33	1,200 With 40 P.S.I. Air	3,500 With 115 P.S.I. Air	1,500 With 50 P.S.I. Air

*Based on lubricants that are free of entrapped air. Lubricants that are aerated will reduce output of pump.

The 282655 Pump is used as the pumping unit for a centralized lubrication system having a single line circuit of SL-1, SL-32 or SL-33 Injectors. It dispenses grease up through N.L.G.I. No. 1
It is an air operated single stroke pump requiring air for both forward and return stroke that discharges 1.4 Cu. In. into the circuit for each pump cycle.
The total quantity of lubricant needed for the lubrication cycle of the system must not exceed the amount of lubricant discharged per pump stroke.



Electrical Power Requirements:
115 Volts, 60 Hz., 25 Volt Amps.
Solenoid inrush current, .52 amp; holding current, .35 amp.

TO FILL RESERVOIR

Use a Manual Filler Pump, 81834 to fill reservoir through the filler fitting in the pump body. Attach coupler on delivery hose to filler fitting. Stroke filler pump handle until lubricant weepage is noted at air vent hole in the reservoir (lower portion of follower must rise beyond air vent hole to expel entrapped air from lubricant).

NOTE: When filling the reservoir, caution should be used as extreme pressure can cause damage to reservoir and follower assembly.

TO PRIME SYSTEM

SUPPLY LINES: After pump reservoir has been filled with recommended lubricant remove all plugs in dead ends of the injector manifolds and supply lines. Operate pump until lubricant flows from any plug opening. Close opening with plug. Continue operating pump until lubricant flows from another plug opening. Repeat this procedure until all supply lines are primed.

FEEDER LINES: Fill each feed line with lubricant before connecting lines to outlet of injectors and bearings. This will prevent having to cycle each injector to fill line between injector and bearing.

INJECTORS: Check each injector for proper operation. Injector stem moves when injector discharges lubricant to bearing. This may require cycling system several times. After checking injectors for operation adjust injectors for the volume required for each bearing.

FOR 84102 PROGRAM TIMER REFER TO SERVICE MANUAL – SECTION C8, PAGE 136 SERIES

Model 282655

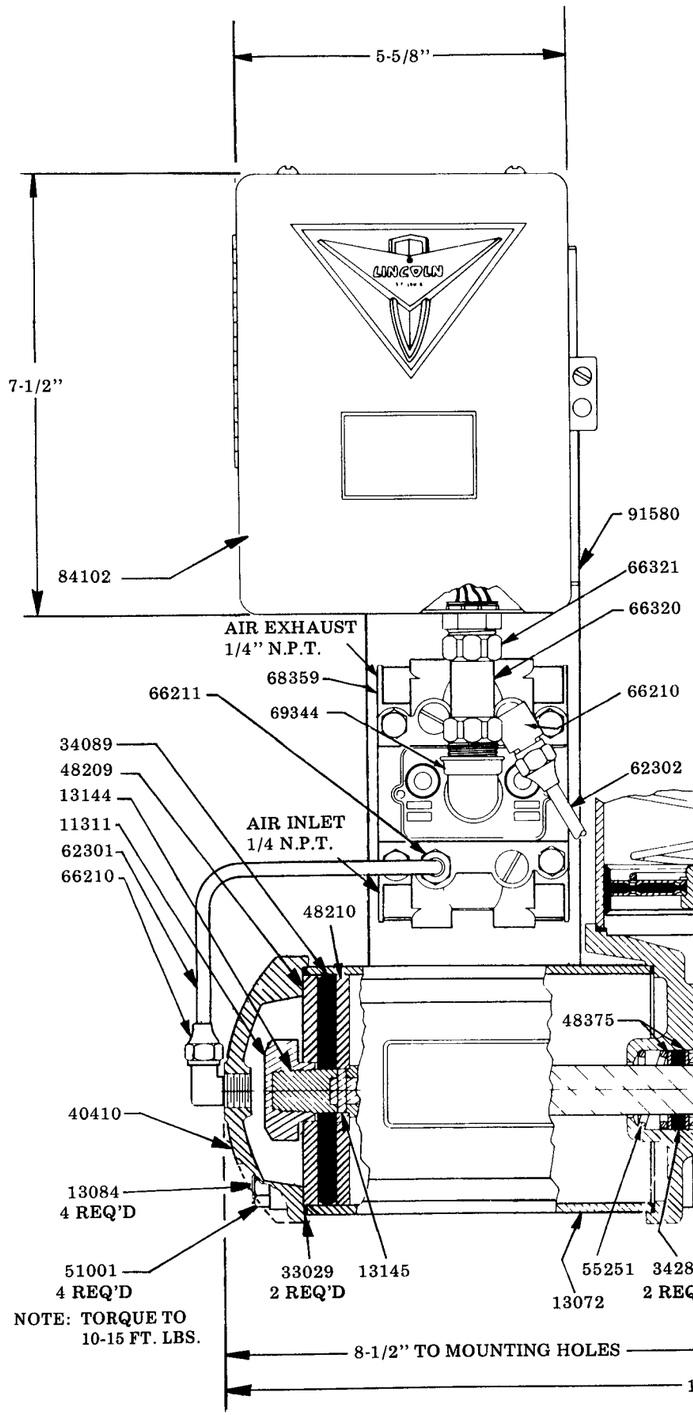
AIR OPERATED SINGLE STROKE GREASE PUMP (WITH ELECTRICAL CONTROLS)

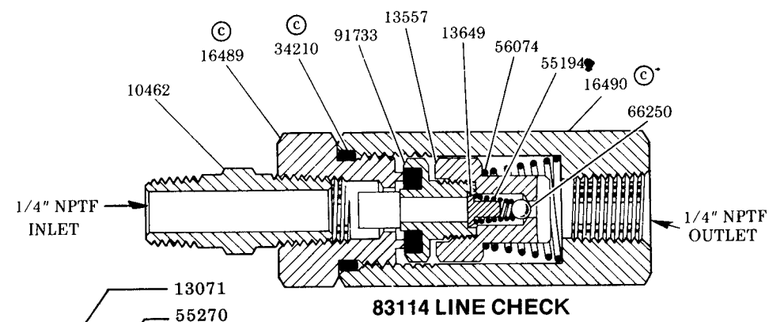
MODEL 83671

83671 Low Level Cut-Off Kit may be used as an alarm or signal device when lubricant drops below an acceptable level.

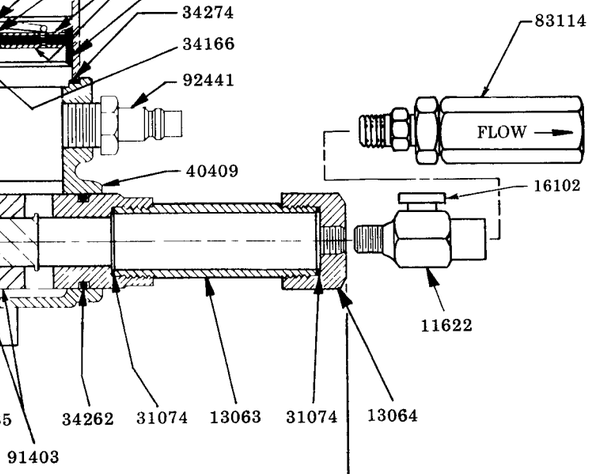
TO CLEAN LINE CHECK 83114
Remove 91733 Check. Examine packing for presence of foreign particles. If packing is damaged, replace 91733 check.

Remove 66250 Ball Check, 55194 Spring and 13649 Ball Stop from 13557 Check Retainer. Examine for presence of foreign particles. Clean thoroughly.





83114 LINE CHECK



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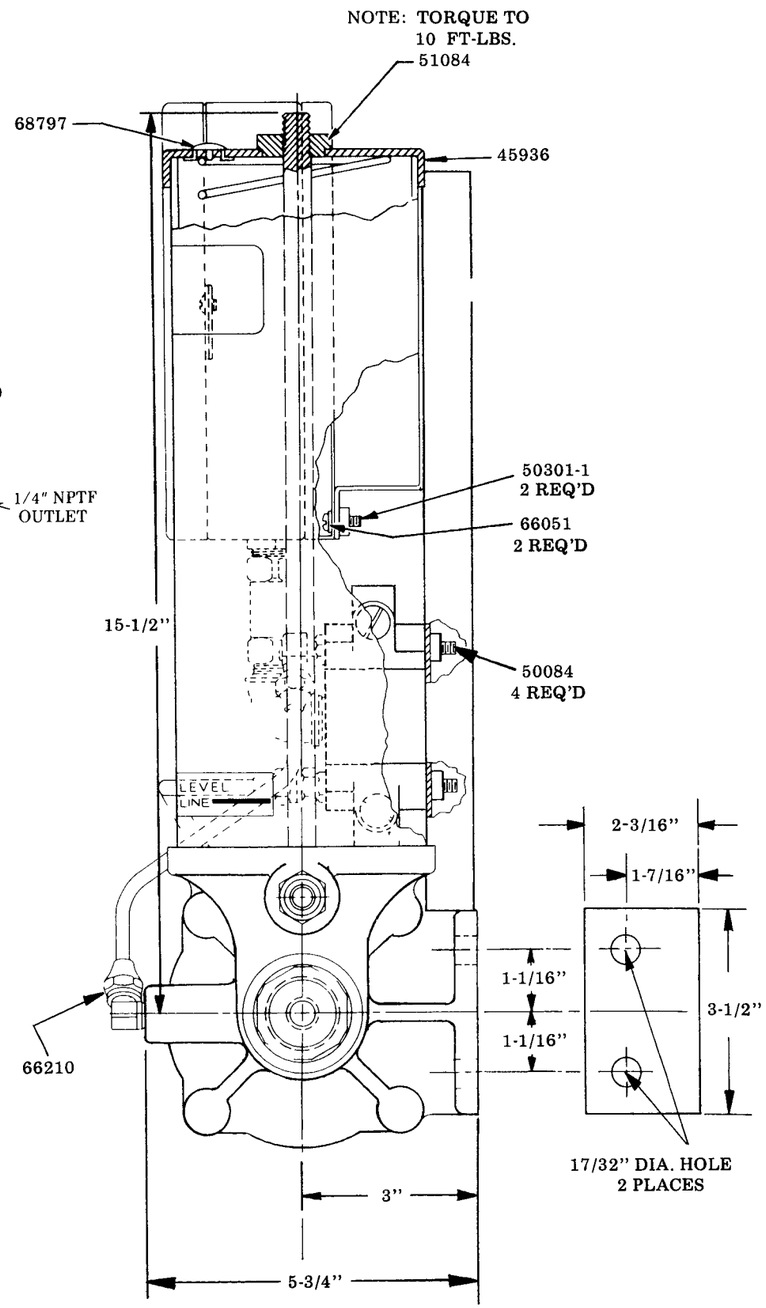

OPERATION

The frequency of the lubrication cycle is set on the adjustable program timer (Refer to service manual, section C8, page 136 for proper setting of 84102 Program Timer).

Lubrication cycle starts when a clip in the dial of the program timer contacts the micro-switch, or when operator holds push button depressed, energizing the air solenoid valve which admits air to pump.

When the clip contact is released, or the operator releases the push button, the de-energized air solenoid valve returns to its normal position and admits air to the opposite side of the pump air cylinder.

As pump plunger returns to its retracted position, the lubricant pressure in the system is relieved, permitting the injectors to re-charge.

System is now ready for the next lubrication cycle.

WHAT TO DO IF:

PUMP LOSES PRIME — check lubricant supply.

SYSTEM FAILS TO CYCLE and calculated system planning has been followed — lubricant is leaking by packing of 91733Check or the 66250Check. Remove and clean. Failure of injectors to cycle can also be caused by a leak in supply lines. Examine supply lines and connections.

PUMP FAILS TO OPERATE — check air supply.

SERVICE PARTS

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
10462	Nipple	* 34210	O-ring	62301	Copper tube
11311	Piston nut	* 34262	O-ring	62302	Copper tube
11622	Body	* 34274	Gasket	66051	Lockwasher
13063	Pump tube	* 34286	Gland packing	66210	90° Tubing connector
13064	Outlet	* 34454	Follower packing	66211	Straight tubing connector
13071	Tie rod	40409	Body casting	* 66250	Steel ball
13072	Air cylinder	40410	Cylinder cap	66320	Conduit
13084	Tie rod	41524	Reservoir	66321	Straight conduit fitting
13144	Packing stud	45936	Cover cap	* 68359	4 Way solenoid air valve
13145	Pin	48209	Washer	68797	Plug button
13557	Check retainer	48210	Washer	69034	Retaining ring
13649	Ball stop	48375	Washer	69344	90° Conduit fitting
14340	Bushing	48467	Washer	83114	Line check assembly
16102	Vent plug	50084	Cap screw	84102	Program timer
16489	Check seat	50301-1	Screw	91403	Bushing & plunger assembly
16490	Check body	51001	Nut	91580	Support assembly
* 31074	Gasket	51084	Nut	* 91733	Check
* 31085	Gasket	55194	Spring	92441	Filler fitting
* 33029	Gasket	55251	Spring		
* 34089	Packing	55270	Spring		
* 34166	O-ring	56074	Spring		

*Recommended service parts inventory.

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.