AIR OPERATED OIL PUMP

SINGLE STROKE, AIR RETURN (WITH ELECTRIC CONTROLS)

Model 282573

Series "A"

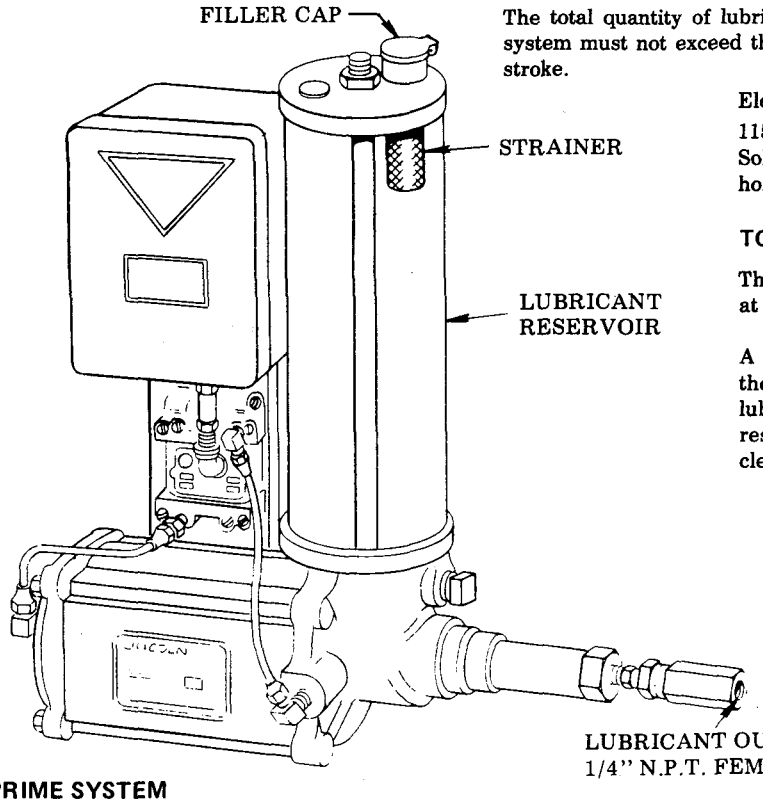
SPECIFICATIONS

Ratio	Lubricant Output (Cu. In.)	Reservoir Capacity	Air Inlet	Lubricant Outlet	LUBRICANT OPERATING PRESSURE (P.S.I.)			
					Type of System	Minimum	Maximum	Recommended
20:1	2.4*	5 Pints	1/4" N.P.T. Female	1/4" N.P.T. Female	SL-42 SL-43	750 with 40 P.S.I. Air	1,000 with 50 P.S.I. Air	850 with 45 P.S.I. Air
					SL 32 SL-33	1,200 with 60 P.S.I. Air	3,500 with 175 P.S.I. Air	1,500 with 75 P.S.I. Air
					SL-1	1,850 with 95 P.S.I. Air	3,500 with 175 P.S.I. Air	2,500 with 125 P.S.I. Air

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

The 282573 Pump is used as the pumping unit for a centralized lubrication system having a single line circuit of SL-1, SL-32, SL-33, SL-42 and/or SL-43 Injectors dispensing oil.

It is an air operated single stroke pump requiring air for both forward and return stroke that discharges *2.4 cu. in. of lubricant into the circuit for each pump stroke (Lubrication 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

The reservoir can be filled through the filler cap at the top of the reservoir.

A strainer is located at the filler cap to prevent the induction of foreign material into the lubricant reservoir. Inspect strainer before filling reservoir. When necessary, lift strainer out and clean thoroughly.

TO PRIME SYSTEM

SUPPLY LINES: After pump reservoir has been filled with recommended lubricant, loosen (do not remove) all plugs in dead ends of the injector manifolds and supply lines. Operate pump until lubricant flows from around threads of any loosened plug, then tighten plug. 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 TIME SWITCH REFER TO SERVICE MANUAL — SECTION C8, PAGE 136 SERIES.

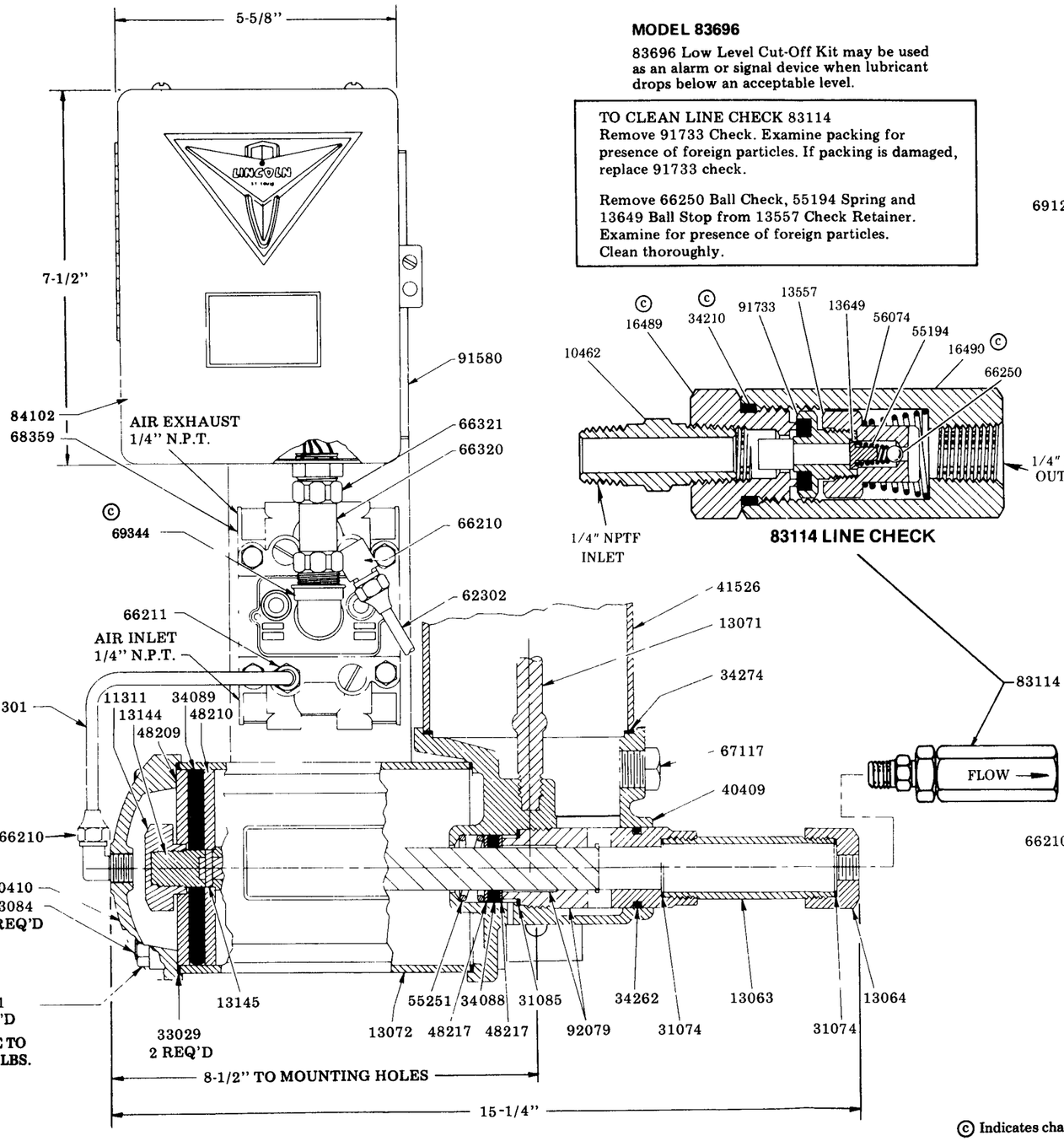
MODEL 282573
AIR OPERATED SINGLE STROKE OIL PUMP
(WITH ELECTRIC CONTROLS)

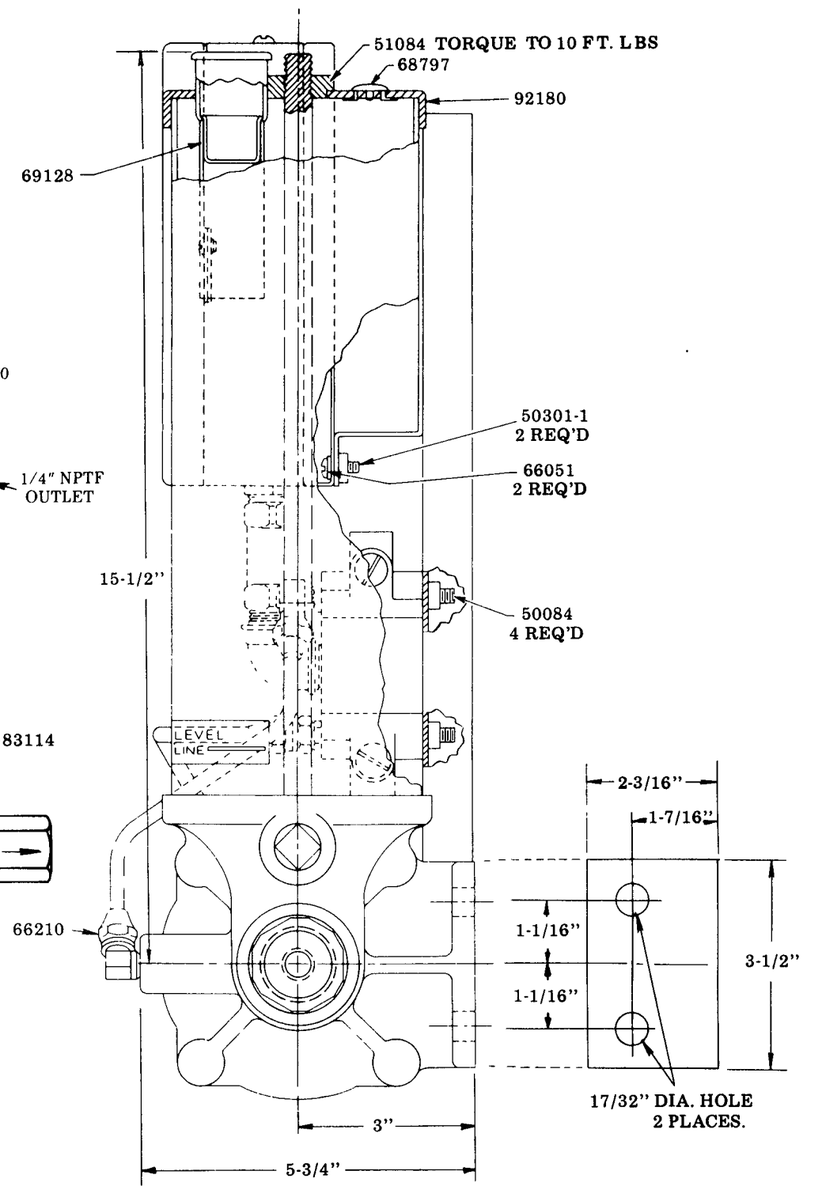
MODEL 83696

83696 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.





Ⓒ Indicates change

OPERATION

The lubrication cycle frequency 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 recharge.

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 91733 Check or the 66250 Check. 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	* 34262	O-ring packing	66211	Straight tubing connector
11311	Piston nut	* 34274	Gasket	* 66250	Steel ball
13063	Pump tube	40409	Body casting	66320	Conduit
13064	Outlet	40410	Cylinder cap	66321	Straight conduit fitting
13071	Tie rod	41526	Reservoir	67117	Plug
13072	Air cylinder	48209	Washer	* 68359	4 Way solenoid air valve
13084	Tie rod	48210	Washer	68797	Plug button
13144	Packing stud	48217	Washer	69128	Strainer
13145	Pin	50084	Cap screw	69344	90°. Conduit fitting
13557	Check retainer	50301-1	Screw	83114	Line check assembly
13649	Ball stop	51001	Nut	84102	Program timer
16489	Check seat	51084	Nut	91580	Support assembly
16490	Check body	* 55194	Spring	* 91733	Check
* 31074	Gasket	55251	Spring	92079	Bushing & plunger
* 31085	Gasket	56074	Spring	92180	Cover cap
* 33029	Gasket	62301	Copper tube		
* 34088	Packing	62302	Copper tube		
* 34089	Packing	66051	Lockwasher		
* 34210	O-ring	66210	90° Tubing connector		

*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.