AIR OPERATED **GREASE PUMP**



Model 83987

SINGLE STROKE, AIR RETURN (WITH ELECTRIC CONTROLS, 220 VOLTS, 50 HZ)

Series"A"

SPECIFICATIONS

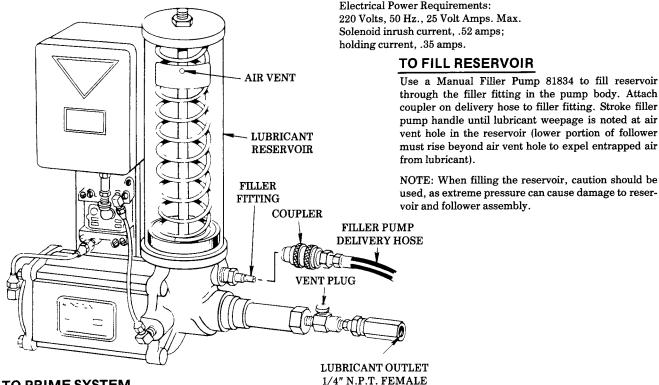
Ratio	Lubricant Output (cu. in.)	Reservoir Capacity	Air Inlet	Lubricant Outlet	LUBRICANT OPERATING PRESSURE (P.S.I.)			
					Type of System	Minimum	Maximum	Recommended
25:1	*2.15	4 lb.	1/4" N.P.T. Female	1/4" N.P.T. Female	SL-1	1,850 With 75 P.S.I. Air	3,500 With 140 P.S.I. Air	2,500 With 100 P.S.I. Air
					SL-32 SL-33	1,200 With 50 P.S.I. Air	3,500 With 140 P.S.I. Air	1,500 With 60 P.S.I. Air

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

The 83987 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 *2.15 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.



TO PRIME SYSTEM

SUPPLY LINES: After pump reservoir has been filled with recommended lubricant, turn vent plug counter-clockwise one complete turn and operate pump until lubricant flows freely from opening in vent plug to expel air pockets trapped between the pump and the supply line connection. Tighten vent plug. 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 and plug openings closed.

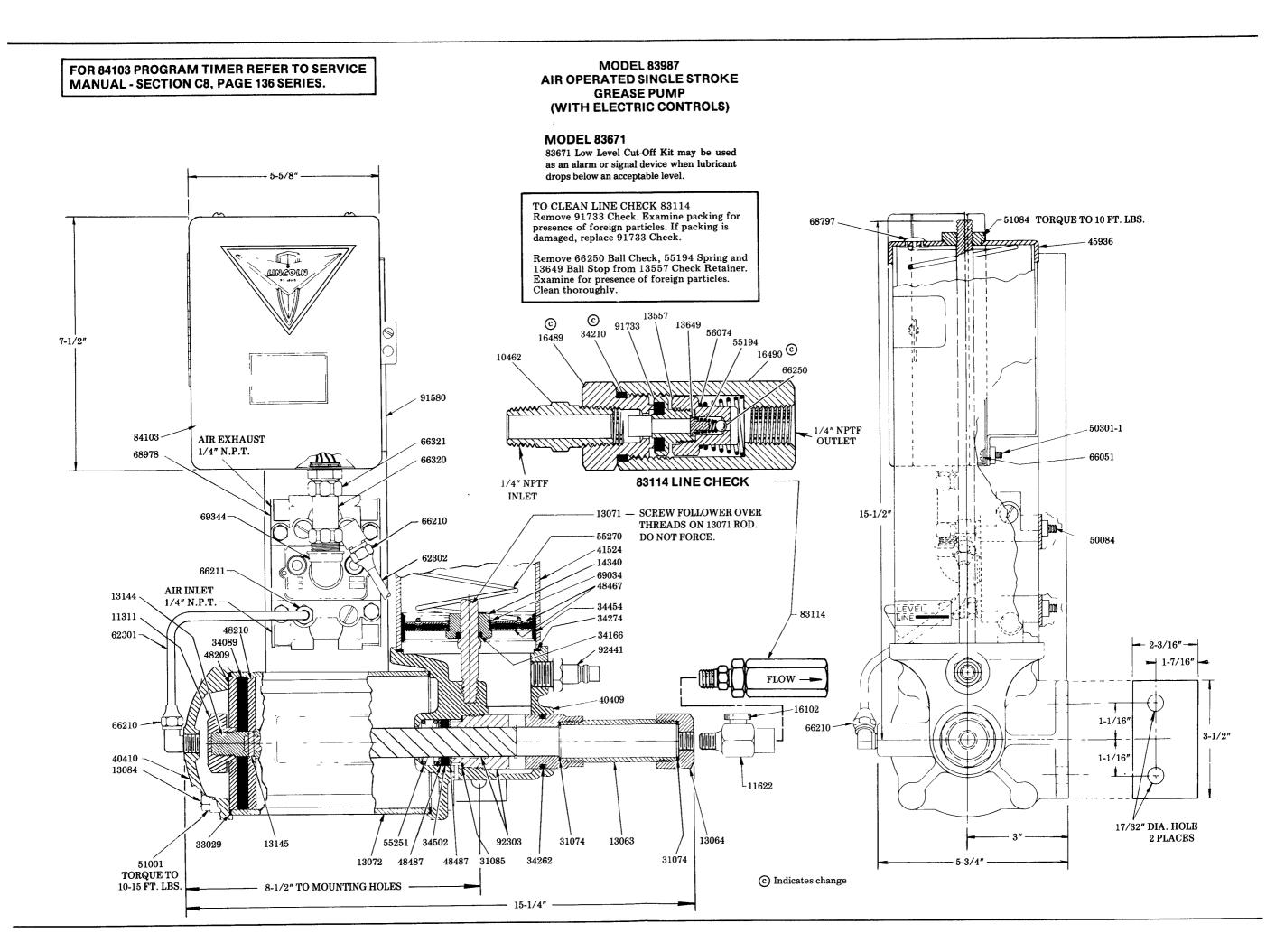
FEEDER LINES: Fill each feed line with lubricant before connecting lines to outlet of injectors and bearings. This will prevent having to cycle each injector for every inch of feeder line between injector and bearing.

INJECTORS: Check each individual 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 individual bearing.

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4010 GOODFELLOW BLVD - ST LOUIS, MO 63120 - (314) 383 5900



SECTION -C8 PAGE



OPERATION

The pre-determined lubrication cycle frequency is set on the adjustable program timer (Refer to service manual, section C8, page 136 series for proper setting of 84103 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 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

SERVICE FARTS									
PART NO.	QUAN.	DESCRIPTION	PART NO.	QUAN.	DESCRIPTION				
10462	1	Nipple	48209	1	Washer				
11311	1	Piston nut	48210	1	Washer				
11622	1	Outlet body	48467	2	Washer				
13063	1	Pump tube	48487	2	Washer				
13064	1	Outlet	50084	4	Screw				
13071	1	Tie rod	50301-1	2	Screw				
13072	1	Air cylinder	51001	4	Nut				
13084	4	Tie rod	51084	1	Nut				
13144	1	Packing stud	*55194	1	Spring				
13145	1	Pin	55251	1	Spring				
13557	1	Check retainer	55270	1	Spring				
13649	1	Ball stop	*56074	1	Spring				
14340	1	Bushing	62301	1	Copper tube				
16102	1	Vent plug	62302	1	Copper tube				
16489	1	Check seat	66051	2	Lockwasher				
16490	1	Check body	66210	3	90° Tubing connector				
*31074	2	Gasket	66211	1	Straight tubing connector ·				
*31085	1	Gasket	*66250	1	Ball				
* 33029	2	Gasket	66320	1 1	Conduit				
*34089	1	Packing	66321	1	Straight conduit fitting				
*34166	1	O-ring	68797	1	Plug button				
*34210	1	O-ring	*68978	1	4 Way solenoid air valve				
*34262	1	O-ring	69034	1	Retaining ring				
*34274	1	Gasket	69344	1	90° Conduit fitting				
*34454	1	Follower packing	83114	1	Line check assembly				
*34502	2	Packing	84103	1	Program timer				
40409	1	Body casting	91580	1	Support assembly				
40410	1	Cylinder cap	91733	1	Check				
41524	1	Reservoir	92303	1	Bushing & plunger				
45936	1	Cover cap	92441	1	Filler fitting				

 $^{{\}bf *Recommended\ service\ parts\ inventory.}$

- 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.