CENTRO-LUBERS

MANUALLY OPERATED GREASE PUMP

Models 1810, 1811

Series "G"

DESCRIPTION

The 1810 and 1811 Centro-Lubers are manually operated multiple stroke grease pumps for use on machines where periodic manual lubrication is acceptable. They are used as the pumping unit for a centralized lubrication system having a single line circuit of Series SL-1, SL-32, or SL-33 Injectors. Injectors can be used in combination where bearing sizes or lubricant requirements indicate such a combination advantageous and most efficient.

Pump dispenses grease up through NLGI #1 and discharges an established amount (* 160 cu in) into the circuit for each full stroke of the pump handle. A built-in cycle indicator in the pump shows completion of the lubrication cycle.

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

Model 1810 has a spring loaded follower in the reservoir and is filled with a filler pump through a filler fitting. Model 1811 is the same as the 1810 except it has a weighted follower connected to the reservoir cover with a chain to permit removal for manual filling.

SPECIFICATIONS

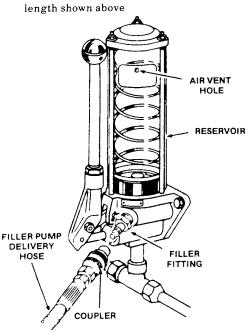
**Pressure indicator of pump set at factory

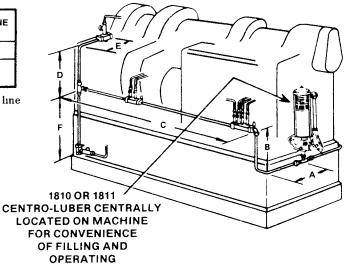
LUBRICANT OUTPUT	RESERVOIR CAPACITY	LUBRICANT OUTLET	LUBRICANT OPERATING PRESSURE (PSI)				
			INJECTOR SYSTEM	MINIMUM	MAXIMUM	RECOMMENDED	
* 160 cu in per stroke	5 LB	1/4" NPTF Female	SL-1	1,850	3,500	2,500**	
			SL-32 SL-33	1,200	3,500	2,500**	

SUPPLY LINE SPECIFICATIONS

SEAMLESS STEEL TUBE SIZE	MAXIMUM LENGTH OF SUPPLY LINE GREASE,				
TOBE SIZE	NLGI#0	NLGI #1			
1/4" O.D. x .028" Wall 3/8" O.D. x .028" Wall	15 Ft. 50 Ft.	25 Ft.			

A + B + C + D + E + F must not exceed maximum supply line length shown above



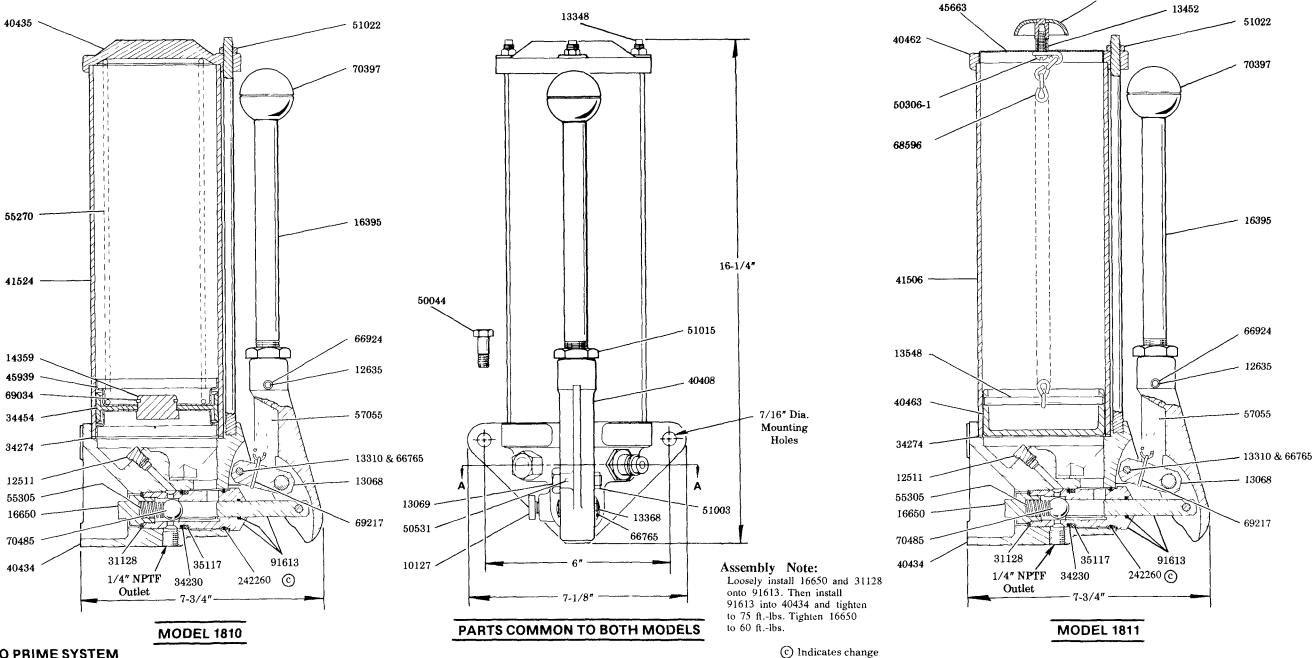


TO FILL MODEL 1810 WITH FILLER PUMP

- Use a manual filler pump 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
- A strainer is behind the filler fitting to prevent foreign material from entering the reservoir Remove filler fitting to inspect and clean strainer periodically



One Lincoln Way St Louis, MO 63120-1578 (314) 679-4200 section -C8
PAGE -62.I



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

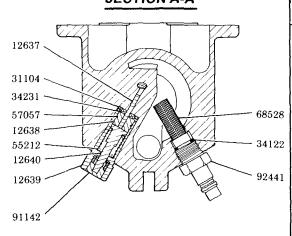
FEEDER LINES

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 feed 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

SECTION A-A

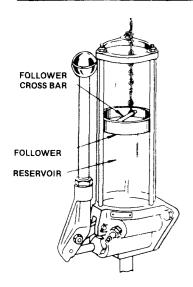


SERVICE PARTS

91685

SENTIOE I ANTO										
PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION		
10127	1	Vent plug	34122*	1	Packing	51015	1	Jam nut		
12511	1	Pipe plug	34230*	1	O-ring	51022	3	Nut		
12635	1	Pin	34231*	1	Packing	55212*	1	Spring		
12637	1	Indicator extension	34274*	1 [Gasket	55270	ì	Spring		
12638	1	Packing retainer	34454	1	Double acting cup	55305*	1	Spring		
12639	1	Spring housing	35117*	1	Packing	57055	1	Spring		
[12640	1	Indicator pin	40408	1	Handle casting	57057	1	Snap ring		
13068	1	Toggle	40434	1 1	Pump body casting	66765	4	Retaining ring		
13069	1	Cam	40435	1	Cover	66924	2	Retaining ring		
13310	1	Pin	40462	1	Support ring	68528*	1	Strainer		
13348	3	Tie rod	40463	i	Follower	68596	1	Jack chain		
13368	1	Pin	41506	1 [Tube	69034	1	Snap ring		
13452	1	Check spacer	41524	1	Reservoir assembly	69217	1	Cotter pin		
13548	1	Pin	45663	1	Reservoir cap	70397	1	Knob		
14359	1 [Bushing	45939	2	Follower guide	70485*	1	Ball		
16395	1	Handle	50044	2	Screw	91142	1	Indicator assembly		
16650*	i	Check stop	50306-1	1	Screw	91613	1	Bush. & plunger		
31104*	1	Gasket	50531	1	Set screw	91685	1	Handle knob assy		
31128*	j	Gasket	51003	1	Jam nut	92441	1	Filler fitting		
i i		1	Ì			242260	1	O-ring		
*Recommended service parts inventory.										

TO FILL MODEL 1811



MANUALLY

- Remove cap from reservoir Slide chain to one side of follower cross bar and lift up on chain, cocking the follower to break the lubricant seal on the underside Remove follower from the reservoir
- 2) Carefully fill reservoir with grease which should be packed to avoid air pockets. Care should be taken to prevent the induction of foreign material into the lubricant
- 3) The follower is then replaced in the reservoir and pushed down firmly to make a good contact on the surface of the grease. The weight of the follower and atmospheric pressure provide the priming force as the lubricant is dispensed.

WITH FILLER PUMP

- 1) Same as step #1 above
- 2) Use a manual filler pump to fill reservoir through filler fitting in the pump body Attach coupler on delivery hose to filler fitting. Stroke filler pump handle until lubricant reaches fill line
- 3) Same as step #3 above

4) A strainer is behind the filler fitting to prevent foreign material from entering the reservoir Remove filler fitting to inspect and clean strainer periodically

OPERATION (Same for 1810 and 1811)

The Centro-Luber System lubrication cycle consists of two operations:

1st OPERATION

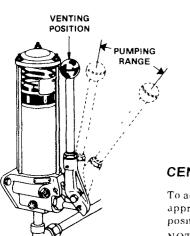
The outward stroke of the handle forces lubricant into the supply line. As handle is operated, lubricant pressure is built up until it reaches 2,500 PSI. When this pressure is reached, the indicator will move out to its extended position exposing a red ring on the indicator stem. This indicates that the necessary pressure needed to operate the system has been reached and operation of pump handle is no longer required.

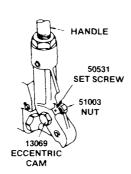
Lubricant pressure built up in the supply line operates the injectors which dispense a measured amount of lubricant into the bearing.

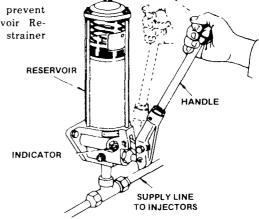
2nd OPERATION

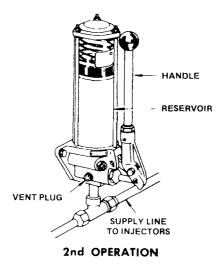
Release handle and return it to its normal position against the reservoir. When handle is in this position lubricant pressure in the system vents back into the reservoir. Handle must be released for pump to vent. Operator's hand, gripping the handle, prevents the pump from venting between strokes.

Injectors re-charge for next lubrication cycle.









1st OPERATION

CENTRO-LUBER IS ALWAYS VENTED EXCEPT DURING PUMPING PERIOD

To adjust vent position of handle, loosen the 50531 Set Screw. Then unthread the 51003 Nut approximately one full turn. The 13069 Eccentric Cam can then be moved to the desired vent position. Re-tighten nut and set screw.

NOTE It may be necessary to try several positions of the eccentric cam before desired venting adjustment is obtained

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