

QUICKLUB® GREASE PUMP

TYPE PP
AIR OPERATED
SINGLE ACTING, SINGLE OUTLET
HIGH/LOW LEVEL SWITCH

Model 604265321

Series "A"

SPECIFICATIONS:

Pump Ratio: 40:1
 Air Pressure: 60 psi (4 bar) Min./100 psi (7 bar) Max.
 Maximum Operating Pressure: 2900 psi (200 bar)
 Lubricant Output/Cycle: 0.16 cu. in. (2.7 cc)
 Air Inlet: 1/8" NPTF (Female)
 Lube Outlet: 1/4" O.D. Tube Connector
 Reservoir Capacity: 92 cu. in. (1.5 liter)

DESCRIPTION

The 604265321 Pump is used in a progressive type centralized lubrication system. It is an air operated, single stroke, spring return pump that requires the use of a 3-way air solenoid valve for the activation of the pneumatic cylinder. It includes a high/low level switch which can be used with a horn or light to give an audible or visual signal indicating a low level condition, or indicating reservoir at capacity when filling.

OPERATION

When the solenoid is energized, air pressure enters the bottom of the air cylinder and moves the piston and plunger upward. As the piston and plunger assembly moves upward the check valve ball seats preventing lubricant from returning to the reservoir. Lubricant is

therefore dispensed from the outlet of the pump. When the solenoid is de-energized, air pressure in the air cylinder is relieved. The piston spring moves the piston and plunger downward. The check valve ball unseats allowing lubricant from reservoir to refill the discharge cavity in the pump body block for the next lubrication cycle.

IMPORTANT: Pump must be installed in vertical position.

TO FILL RESERVOIR

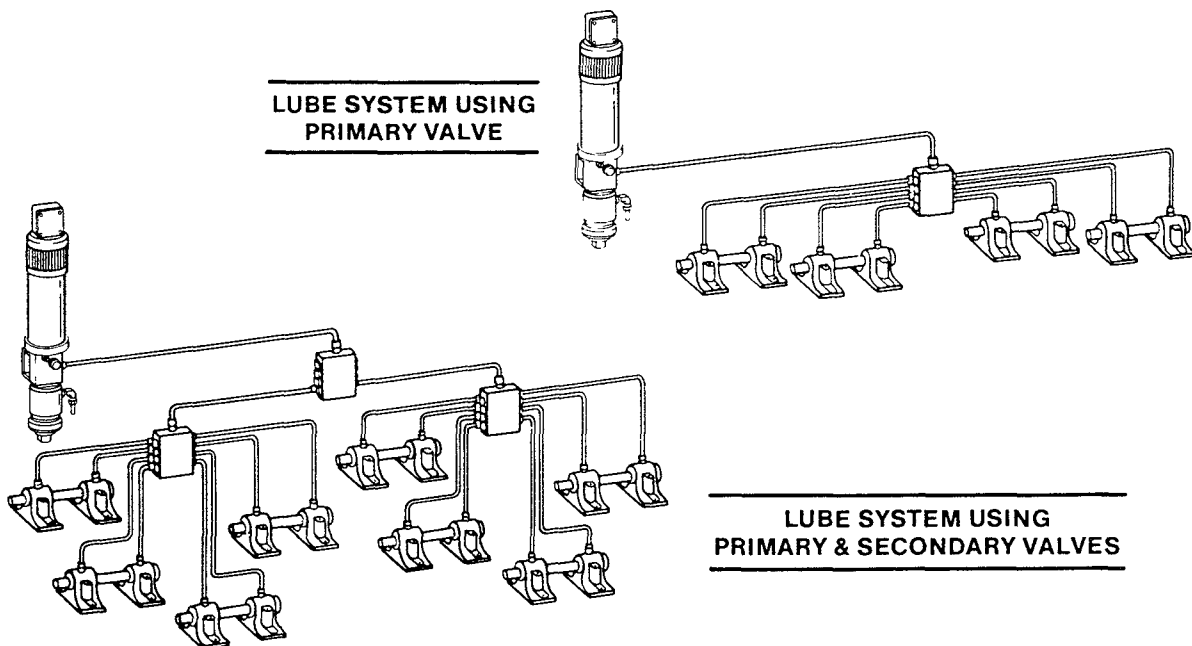
Fill the reservoir through the 5200 Lube Fitting located at the base of the reservoir, using an air operated or hand operated grease pump. The level switch signal will indicate when the reservoir is full.

TO PRIME SYSTEM

Pump & Supply Lines: After reservoir has been filled with recommended lubricant, loosen vent screw locknut and open vent screw approximately one turn (Do Not Remove). Also, loosen supply line fittings. Operate pump until lubricant flows from vent screw, then tighten vent screw and locknut. Continue to operate pump until lubricant flows from threads of any loosened fitting and tighten fitting. Repeat procedure until fittings are tightened and supply line is primed.

Feeder Lines: Fill each feeder line with lubricant before connecting to outlet of divider valve and bearing. This will prevent having to cycle each divider valve to fill line between divider valve and bearing.

TYPICAL DISTRIBUTION COMBINATIONS

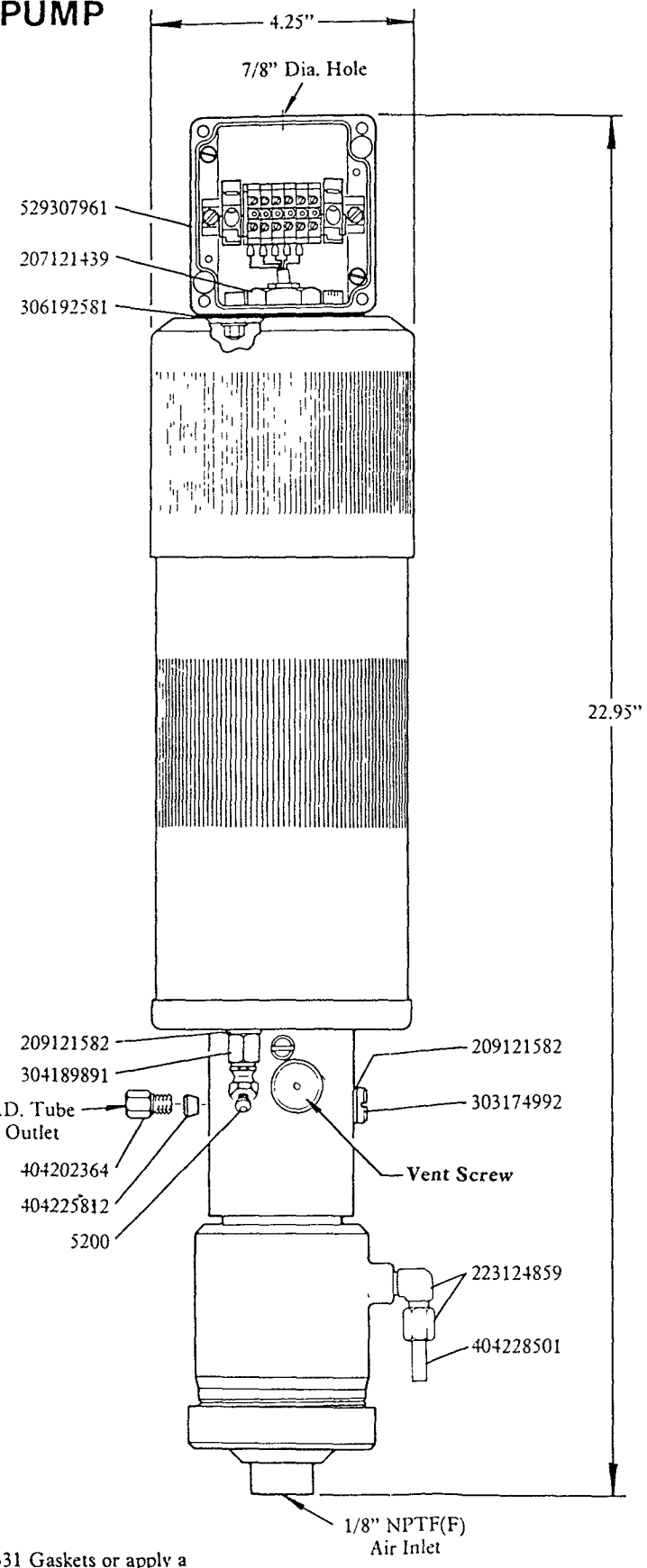
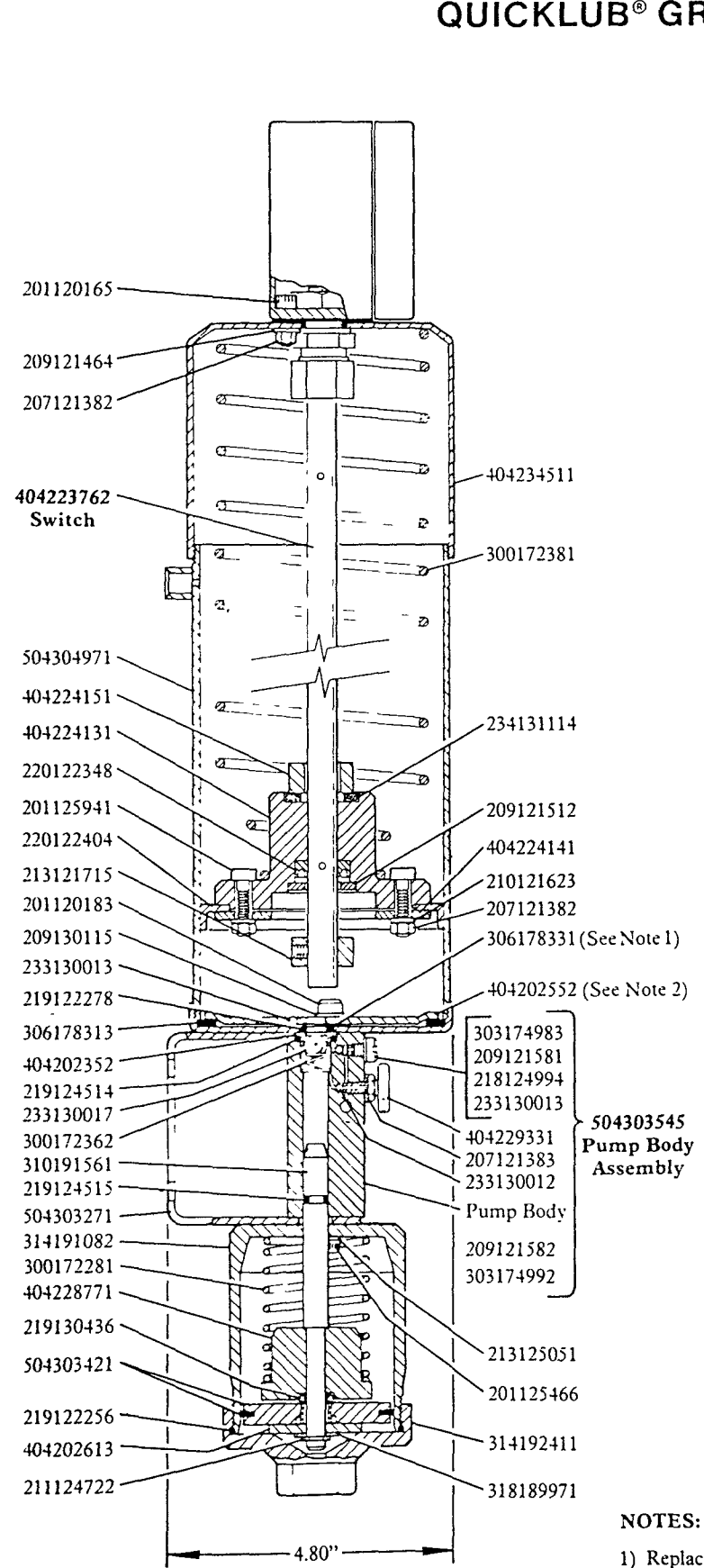


LINCOLN
A PENTAIR COMPANY

One Lincoln Way
St. Louis, Missouri 63120-1578
(314) 679-4200

SECTION - **Q2**
PAGE - **2A**

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- NOTES:**
- 1) Replace two 306178331 Gaskets or apply a small amount of Loctite gasket eliminator to this area before reassembling.
 - 2) When replacing 404202552 Gasket Seat, order two 233130013 Steel Balls and embed in the small holes of gasket seat before reassembling.

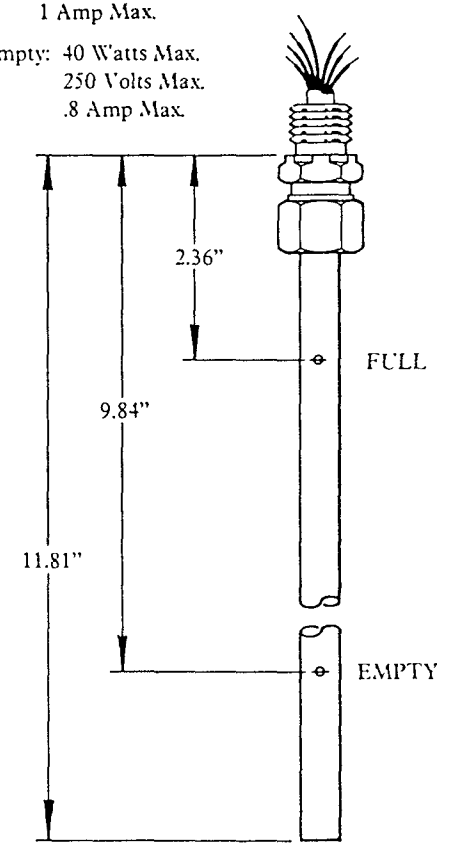
**404223762
SWITCH**

SPECIFICATIONS

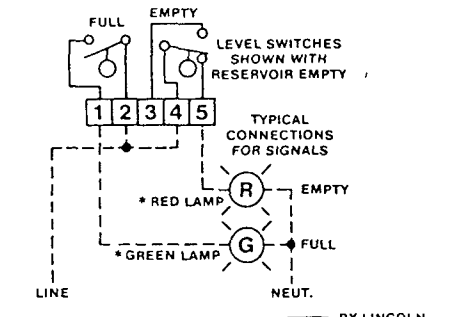
Switch Rating:

Full: 60 Watts Max.
250 Volts Max.
1 Amp Max.

Empty: 40 Watts Max.
250 Volts Max.
.8 Amp Max.



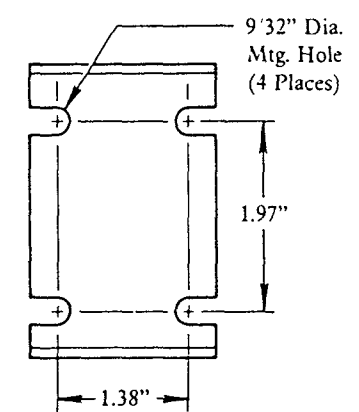
WIRING DIAGRAM



*** NOTE:**
Use relay for tungsten filament lamps 10 watts or larger.

— BY LINCOLN
--- BY INSTALLER

MOUNTING DIMENSIONS



SERVICE PARTS

PART	QUAN.	DESCRIPTION
5200	1	Lube fitting
201120165	2	Hex socket screw
201120183	2	Hex socket screw
201125466	2	Hex socket screw
201125941	4	Hex socket screw
207121382	6	Nut
207121383	1	Locknut
207121439	1	Nut
209121464	2	Washer
209121512	1	Washer
209121581	1	Gasket (copper)
209121582	2	Gasket (copper)
209130115	2	Washer
210121623	4	Lockwasher
211124722	1	Retaining ring
213121715	1	Stop collar
213125051	2	Lockwasher
218124994	1	Spring
219122256	1	O-ring
219122278	1	O-ring
219124514	1	O-ring
219124515	1	O-ring
219130436	1	O-ring
220122348	1	U-cup packing
220122404	1	Follower
223124859	1	Elbow
233130012	1	Steel ball
233130013	3	Steel ball
233130017	1	Check valve ball
234131114	1	Magnet
300172281	1	Spring
300172362	1	Spring
300172381	1	Spring
303174983	1	Closure plug
303174992	1	Closure plug
304189891	1	Adapter
306178313	1	Gasket
306178331	2	Gasket (paper)
306192581	1	Gasket
310191561	1	Piston
314191082	1	Air cylinder
314192411	1	Air cylinder end cap
318189971	1	Washer
404202352	1	Check seat
404202364	1	Compression nut
404202552	1	Gasket seat
404202613	1	Washer
404223762	1	Switch
404224131	1	Follower piston
404224141	1	Follower retainer
404224151	1	Stop
404225812	1	Ferrule
404228501	1	Vent tube
404228771	1	Piston stop
404229331	1	Vent screw
404234511	1	Reservoir cap
504303271	1	Mounting bracket w/base
504303421	1	Air piston w/packing
504303545	1	Pump body assembly
504304971	1	Reservoir
529307961	1	Terminal box assembly

TROUBLESHOOTING

PROBLEM	SOLUTION
1) Pump actuates without delivering lubricant.	<p>Lubricant reservoir empty - Check lubricant level in reservoir and fill if necessary.</p> <p>Pump is air locked - Vent air from the pump. Refer to instructions under To Prime System.</p>
1) Pump does not actuate with air pressure to cylinder.	<p>Three-way solenoid inoperative - Check solenoid valve, repair or replace if necessary.</p> <p>Blockage in delivery line - With air supplied to the pump, loosen fitting on pump body and check for lubricant delivery. Loosen fittings at divider valves or at lubrication points until lubricant emerges from outlet to atmosphere and pump actuates. This will indicate in which line the blockage has occurred. Clear blockage or replace delivery line if damaged. Tighten all loose fittings.</p>
1) Air escapes from cylinder exhaust port with air cylinder activated and piston at top of stroke.	<p>219130436 O-ring or 504303421 Air Piston with Packing worn or damaged - Disconnect air supply. Unscrew 314192411 Air Cylinder End Cap. Remove piston assembly and disassemble all parts. Replace 219124515 O-ring, 219130436 O-ring, 504303421 Air Piston with Packing and 211124722 Retaining Ring. Reassemble piston assembly and lubricate lightly with oil. Loosen vent screw locknut and open vent screw approximately one turn (Do Not Remove) and install piston assembly. Replace 219122256 O-ring and reassemble air cylinder end cap to air cylinder. Reconnect air supply. Operate pump until lubricant flows from vent screw, then tighten vent screw and locknut.</p>
1) Grease discharged from air cylinder exhaust port.	<p>219124515 O-ring worn or damaged - Disconnect air supply. Unscrew 314192411 Air Cylinder End Cap. Remove piston assembly and replace 219124515 O-ring. Unscrew two 201125466 Hex Socket Screws and remove 314191082 Air Cylinder. Clean cylinder and reassemble with two hex socket screws.</p> <p>NOTE: Before tightening, center cylinder on bore of pump body.</p> <p>Lubricate piston assembly lightly with oil. Loosen vent screw locknut and open vent screw approximately one turn (Do Not Remove) and install piston assembly. Replace 219122256 O-ring and reassemble air cylinder end cap to air cylinder. Reconnect air supply. Operate pump until lubricant flows from vent screw, then tighten vent screw and locknut.</p>
1) Grease leaking between reservoir and reservoir base.	<p>306178313 Gasket is worn or damaged - With reservoir empty, unscrew reservoir from reservoir base and remove. Unscrew two 201120183 Hex Socket Screws. Remove 404202552 Gasket Seat. Replace 306178313 Gasket & two 306178331 Gaskets. To reassemble, reverse disassembly procedures.</p>
<p>1) Grease leaking between pump body and reservoir base.</p> <p>2) Pump actuates without delivering lubricant.</p>	<p>219124514 O-ring or 219122278 O-ring worn or damaged - or</p> <p>233130017 Check Valve Ball and 404202352 Check Seat dirty, worn or damaged -</p> <p>Disconnect air supply. Unscrew 314192411 Air Cylinder End Cap. Remove piston assembly and replace 219124515 O-ring. Unscrew two 201125466 Hex Socket Screws and remove 314191082 Air Cylinder. With reservoir empty, unscrew reservoir from reservoir base and remove. Unscrew two 201120183 Hex Socket Screws and remove pump body assembly. Remove 404202352 Check Seat and replace 219124514 O-ring. Clean & inspect 233130017 Check Valve Ball and 404202352 Check Seat, replace if worn or damaged. Replace 219122278 O-ring in reservoir base. To reassemble, reverse disassembly procedures. When installing piston, loosen vent screw locknut and open vent screw approximately one turn (Do Not Remove). Replace 219122256 O-ring and reassemble air cylinder end cap to air cylinder. Reconnect air supply. Operate pump until lubricant flows from vent screw, then tighten vent screw and locknut.</p> <p>IMPORTANT: Pump body must be flush with reservoir base.</p>

RETAIN THIS INFORMATION FOR FUTURE REFERENCE

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

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

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