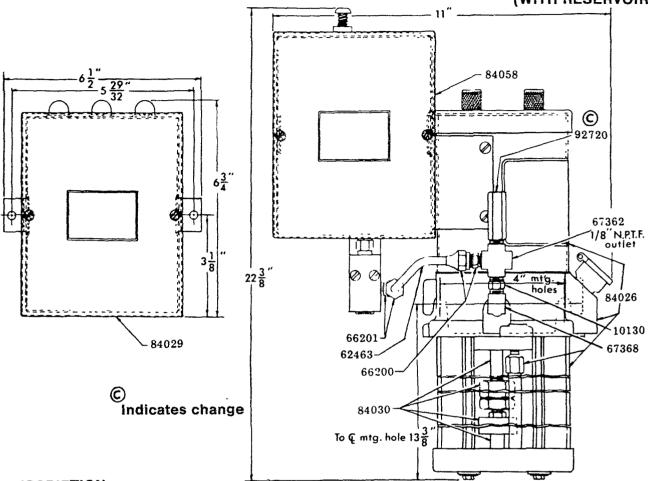


# Model No. 84024 DELUXE GEAR PUMP ASSEMBLY Series "B"

(WITH RESERVOIR)



#### DESCRIPTION

Model 84024 Deluxe Gear Pump Assembly basically consists of: An electric gear pump assembly with a low level switch assembly, a cycle timer with an integral pressure switch, and a running light assembly to monitor the system.

This pump assembly requires a 115V., 60 Hz power source and is designed to cycle a low pressure, 1000 psig, Centromatic Injector System with a cycle period of not less than five or more than sixty minutes. This pump assembly is used in conjuction with a bulk reservoir.

#### **OPERATION**

At an interval determined by lubrication requirements, the gear pump is actuated by the cycle timer.

The gear pump builds pressure in the lubricant supply line, cycling the injectors The gear pump continues to increase line pressure until the cycle timer pressure switch trips at approximately 1,000 psig, stopping the gear pump.

The line pressure decreases, due to the lubricant by passing the pump gears and returning to the reservoir. When the pressure is decreased sufficiently, the injectors reset and are ready for the next lubrication cycle.

Three lights on the running light assembly monitor the gear pump assembly. A green light indicates that there is electric power to the cycle timer. An amber light indicates the pumping period and a red light indicates either a low fluid level or a system failure

A low level switch turns on the red light a short time before the reservoir is completely out of lubricant. <u>Rule 1</u>: When the green and red light are on simultaneously, lubricant should be added to the reservoir.

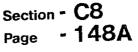
When the reservoir is completely out of lubricant, the gear pump will run dry for approximately one minute before a time delay relay will shut off the pump with the green, amber and red lights on <u>Rule 2</u>: When the green, amber and red lights are on simultaneously, either the reservor is completely out of lubricant or there has been a system failure (pressure leak, pump malfunction, etc.) When this occurs, the pump will not operate until the malfunction has been corrected.

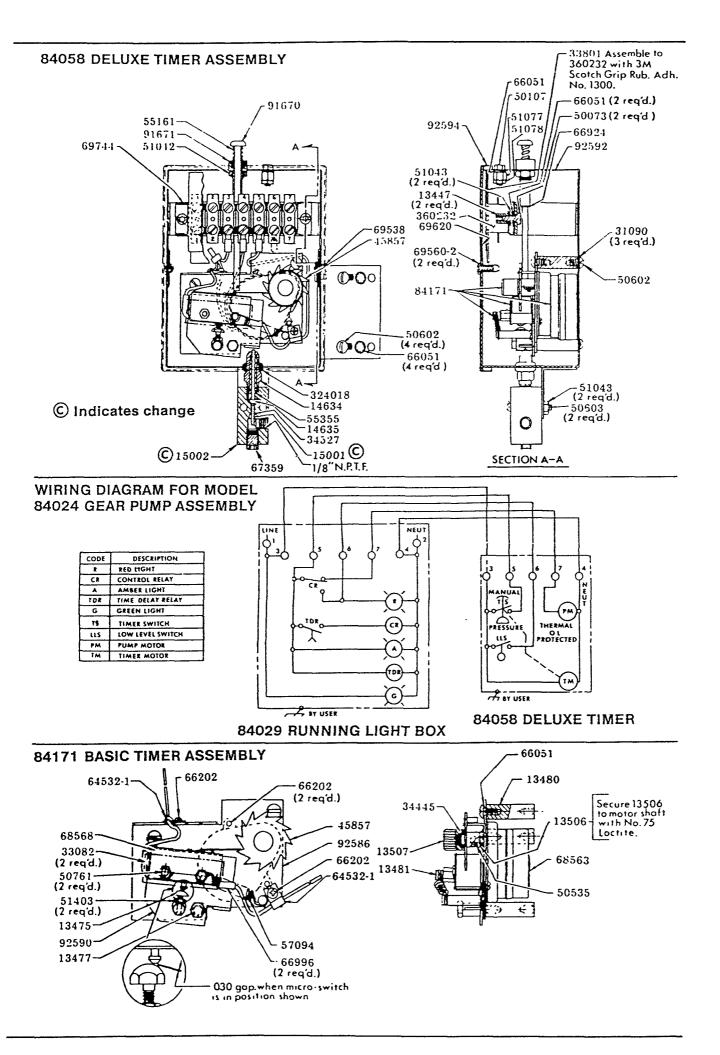
if the 92720 safety unloader should leak during the pumping period, tighten the set screw slightly to adjust the maximum allowable pressure



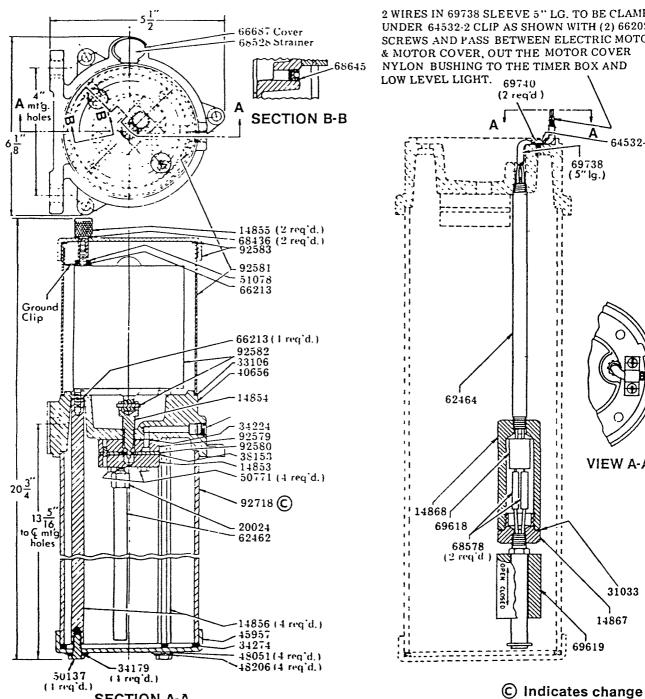
One Lincoln Way St. Louis, Missouri 63120-1578 (314) 679-4200 Customer Service, (314) 679-4300

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# 84026 GEAR PUMP (WITH RESERVOIR)



#### 84030 LOW LEVEL SWITCH ASSEMBLY

#### 2 WIRES IN 69738 SLEEVE 5" LG. TO BE CLAMPED UNDER 64532-2 CLIP AS SHOWN WITH (2) 66202 SCREWS AND PASS BETWEEN ELECTRIC MOTOR & MOTOR COVER, OUT THE MOTOR COVER NYLON BUSHING TO THE TIMER BOX AND 69740 (2 req'd)

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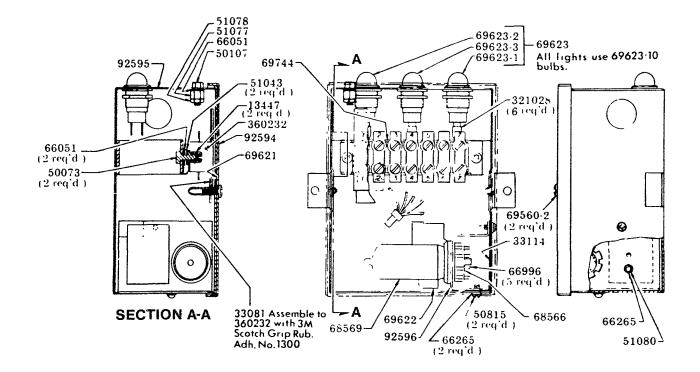
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### SPECIFICATIONS

SECTION A-A

Lubrication Cycle Intervals Maximum Pumping Time per Cy	5, 10, 15, 20, 30 or 60 minutes. cle	
Cycle Interval	Pumping Period	Output
5 minute 10 minute or greater	20 seconds 10 seconds	3 cu in 6 cu. in.
Lubricant Pressure Developed Allowable Lubricant Viscocity Lubricant Reservoir Capacity	575-1,200 psig 500-50,000 Saybolt Universal Seconds 5 Pints	

## 84029 RUNNING LIGHT BOX ASSEMBLY



\*Recommended parts to be stocked for replacement parts.

REPAIR PARTS LIST

Part No.	Description	Part No.	Description	Part No.	Description
$\begin{array}{c} 10130\\ 13447\\ 13475\\ 13477\\ 13480\\ 13481\\ 13506\\ 13507\\ 14634\\ 14635\\ * 14853\\ 14854\\ 14856\\ 14856\\ 14856\\ 14867\\ 14868\\ 15001\\ 15002\\ 20024\\ 31033\\ 31090\\ 20024\\ 31033\\ 31090\\ 33081\\ 33082\\ * 33106\\ 33114\\ * 34179\\ * 34224\\ * 34274\\ * 34145\\ * 34527\\ * 34527\\ * 34527\\ * 34527\\ * 35153\\ 40656\\ * 45857\\ 45957\\ 45957\\ 48051\\ 48206\\ 50073\\ 50107\\ 50137\\ \end{array}$	Nipple Nut Screw Bolt Spacer Nut Cam Shaft Knob Indicator Housing Actuator Pin Wear Plate (inlet) Shaft Adapter Motor Nut Tie Rod Load Pac Adapter Load Pac Adapter Load Pac Housing Pin Indicator Body Bushing Gasket Gasket Insulator O-Ring O-Ring Gasket Cover Cap Washer Screw Screw	$\begin{array}{r} 50535\\ 50602\\ 50603\\ 50761\\ 50771\\ 50815\\ 51042\\ 51043\\ 51077\\ 51078\\ 51078\\ 51080\\ 51403\\ 55161\\ \star 55355\\ 57094\\ 62462\\ 62464\\ 64532.1\\ 64532.2\\ 66051\\ 66201\\ 66202\\ 66211\\ 66202\\ 66201\\ 66202\\ 66201\\ 66202\\ 66201\\ 66202\\ 66201\\ 66202\\ 66201\\ 66202\\ 66203\\ 66528\\ \star 68568\\ \star 68568\\ \star 68568\\ \star 68568\\ \star 68568\\ \star 68569\\ \end{array}$	Screw Screw Screw Screw Self-Tapping Screw Nut Nut Nut Nut Nut Spring Spring Spring Spring Pipe Pipe Nipple Tube Clip Clip Lockwasher M2le Tube Connector Male Elbow Tube Connector Self-Tapping Screw Lockwasher Lockwasher Oil Hole Cover Tru-Arc Insulator Plug Cross Strect Elbow Lockwasher Straner Timer Motor Ring Type Socket Micro-Switch Time Delay Relay	68578 68645 69538 69560-2 * 69618 * 69619 69620 69621 * 69623-1 * 69623-1 * 69623-3 * 69623-3 * 69623-3 * 69623-3 * 69623-3 * 69623-10 69738 69740 69744 84026 84029 * 84030 84058 84171	Butt Connector Plug Snap Bushing Self Tapping Screw Load Pac Level Switch Wiring Diagram Weing Diagram Relay Pilot Light Red Light Green Light Bulb Sleeve Self-Tapping Screw Terminal Block Gear Pump Running Light Box Low Level Switch Deluxe Timer Ass'y. Basic Time Ass'y. Rod Assembly Bushing Assembly Wear Plate (outlet) Gear Housing Ass'y. Cover Assembly Motor Assembly Motor Assembly Sleeve & Plate Ass'y. Deluxe Timer Box Cover & Gasket Ass'y. Deluxe Timer Box Cover & Gasket Ass'y. Light Box Assembly Relay Support Plate Tube Safety Unloader Grommet Cover