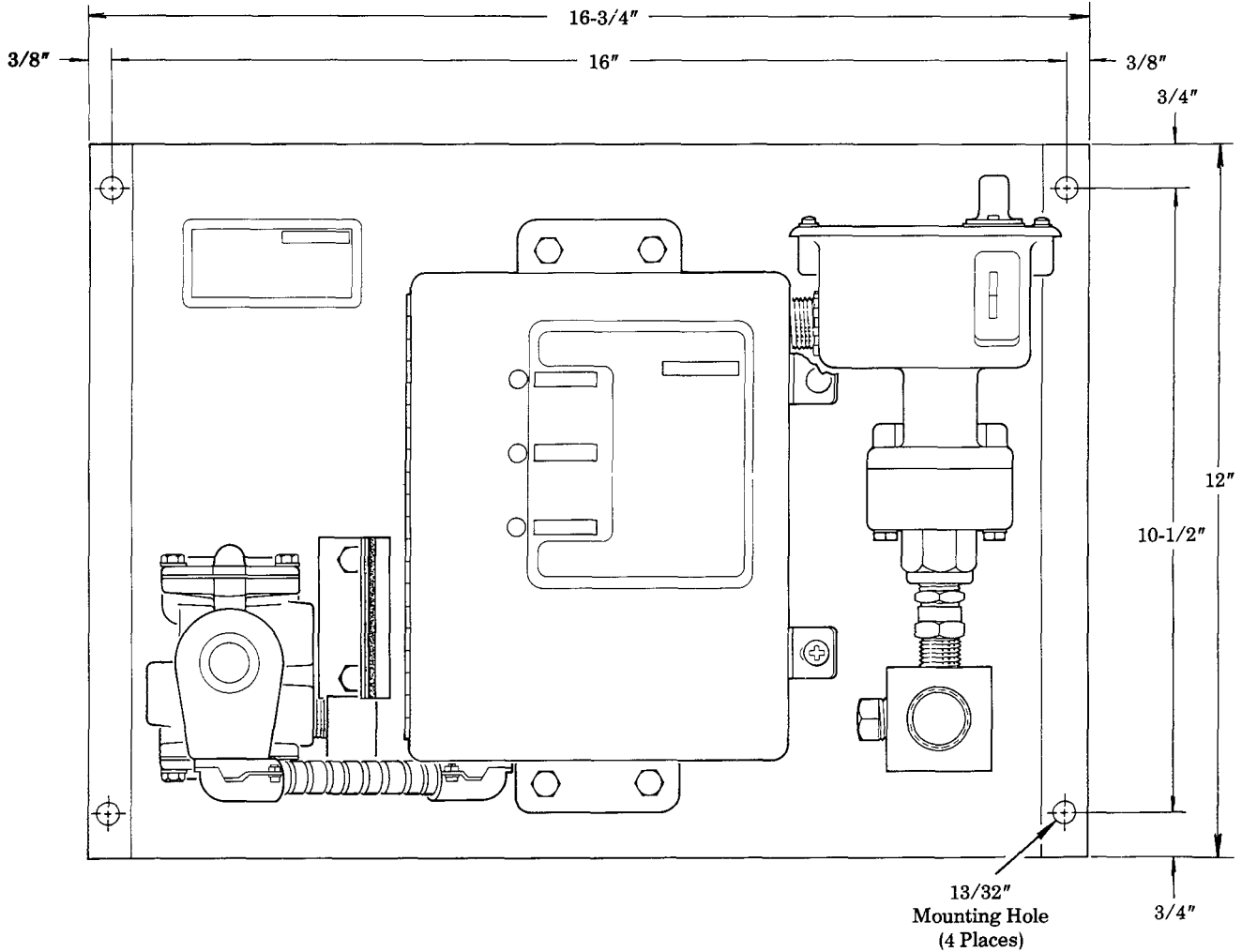


# CENTRO-MATIC CONTROL PANEL



## Model 84614



### DESCRIPTION

The 84614 incorporates a solid-state control with signal lamps on the controller door. Used on systems where airmotor-driven pumps are used, the air supply to pump airmotor is controlled through the air solenoid valve on the control panel. Venting is accomplished through air-operated valve at pump outlet.

**NOTE:** Control Panel consists of all UL Recognized electrical components.

### ELECTRICAL SPECIFICATIONS

The 84614 is designed for use on 120 Volts, 60 Hz., Single Phase but will operate on 110 Volts, 50 Hz. (see 60/50 Hz. switch and instructions inside control enclosure) The controller is factory connected to deliver A.C. Voltage to remote alarm signal. Total power required is 47 watts maximum, not including power required to operate external alarm load.

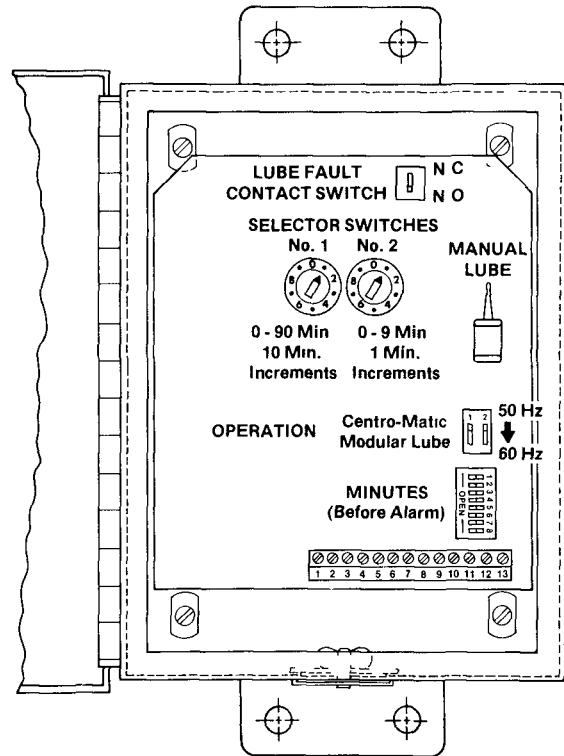
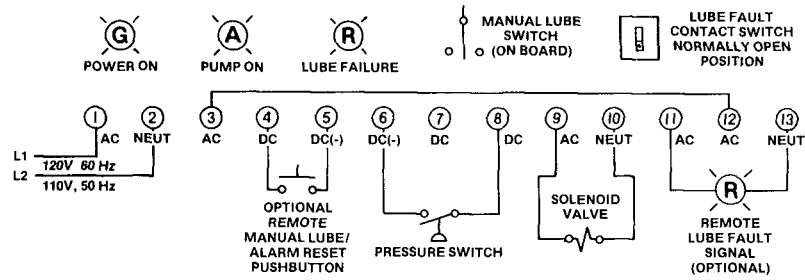
**LINCOLN ST. LOUIS**  
4010 GOODFELLOW BLVD • ST. LOUIS MO 63120 • (314) 679 4200



A DIVISION OF  
**McNEIL**  
CORPORATION

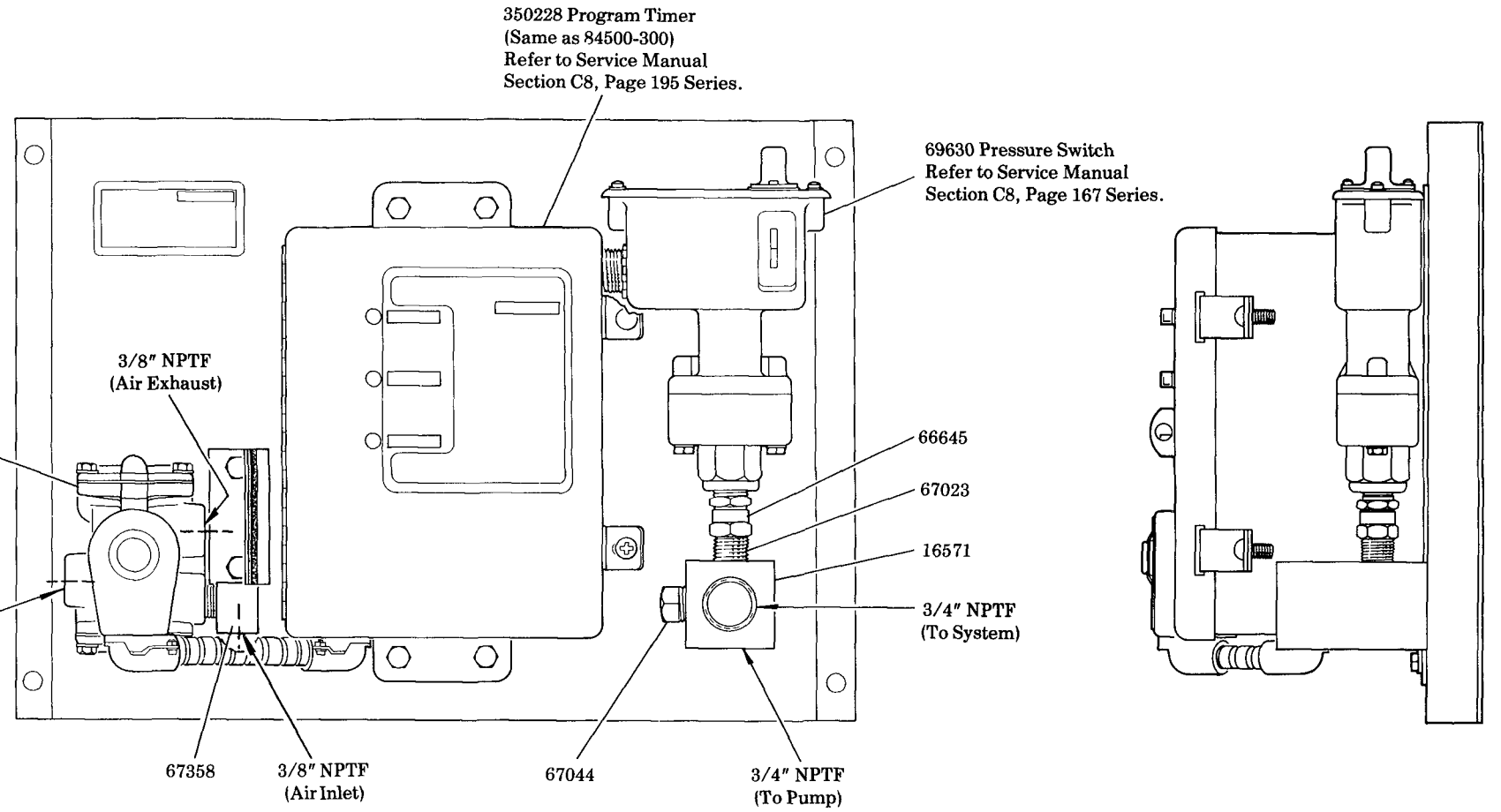
SECTION - **C8**  
PAGE - **207**

## BASIC WIRING DIAGRAM w/ Air Operated Pump



69531 Solenoid Air Valve  
Refer to Service Manual  
Section C8, Page 179 Series.

3/8" NPTF  
(To Airmotor)



## SERVICE PARTS

PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION
16571	1	Junction block	67358	1	Elbow
66645	1	Adapter union	*69531	1	Solenoid air valve
67023	1	Nipple	*69630	1	Pressure switch
67044	1	Plug	350228	1	Program timer

\* Recommended Service Parts

## CONTROL PANEL SETTINGS

- Set Selector Switches #1 & #2 so that desired time interval between lube events is per system planning.
- Set Operation Rocker Switch #1 to continuous "ON" position (Centro-Matic), in direction opposite arrow.
- Set Rocker Switch #2 to 60 Hz. (in direction of arrow) or 50 Hz. (in opposite direction)
- Set Lube Fault Contact Switch to N O position
- Set Alarm Rocker Switch to normal pumping time plus approx 2 minutes. Example. Pumping time 1 minute, 15 seconds. Set rocker switch to 3 minutes.
- Pressure Switch is factory set for high pressure grease systems operating at 2500 psi.

## IMPORTANT

If control is used for low pressure oil system, pressure switch must be reset to 850 psi (see back page).

## OPERATION

- With power "TURN ON", green and amber lamps (on controller door) light. Solenoid valve is energized to deliver air to pump and air vent valve. Pump begins dispensing lubricant through injectors to bearings.
- When all bearings have received lubricant, pressure rises in system to actuate pressure switch. When pressure switch actuates, the control is reset to de-energize solenoid valve cutting off air to pump and vent valve. Pump stops, pressure vents and pressure switch de-actuates (returns to normal).

- When pressure switch returns to normal, control begins timing toward next lube event. After the time interval between lube events has elapsed the solenoid valve is energized to deliver air to pump and vent valve. Pump begins dispensing lubricant through injectors to bearings.

- Operation continues as indicated in steps 2 & 3 above.

## LUBRICATION FAILURE ALARM

If pressure switch fails to actuate within the time set on alarm rocker switch, the red lamp (on controller door) will light. The solenoid valve will be de-energized shutting off air to pump and vent line. With control in alarm no more lube events will occur. The control will remain in this state until power is interrupted or manual lube switch is actuated.

## MONITOR SIGNALS

A monitor, either a horn or a light should be used as a signal for calling attention to the system when it has failed to complete a pumping period within the time for which "alarm timer" is set. A Model 83354 Signal Monitor is available. (A green lamp indicates system is on, amber lamp indicates a lube cycle, and a red lamp lights and horn sounds if system fails to complete a pumping period within the set time.) Refer to Service Manual C8, Page 165 Series.

NOTE: Connect 2,500 ohm, 10 watt resistor between Terminal 11 and NEUT. when this Triac output is fed into an input of an Electronic Process Control.

## MODEL 69630 PRESSURE SWITCH

### IMPORTANT

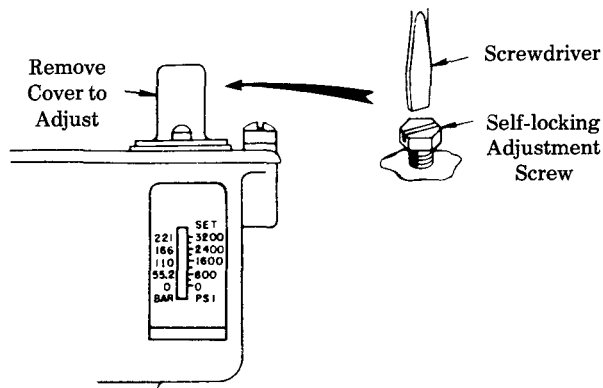
The 69630 Pressure Switch is factory set at 2500 psi for normal high pressure grease systems.

For low pressure oil systems, pressure switch **MUST** be reset for 850 psi.

To lower the actuation pressure, turn the self-locking adjustment screw clockwise. To raise the actuation pressure, turn the adjustment screw counter-clockwise.

#### **NOTE:**

Pressure switch is provided with a scale indicating pressure in "Bars" as well as lbs. per sq. in. "Bar" is the metric unit of measure for pressure.



### **IMPORTANT**

To assure accuracy when setting pressure switch, a pressure gauge should be used in the supply line.

### **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.