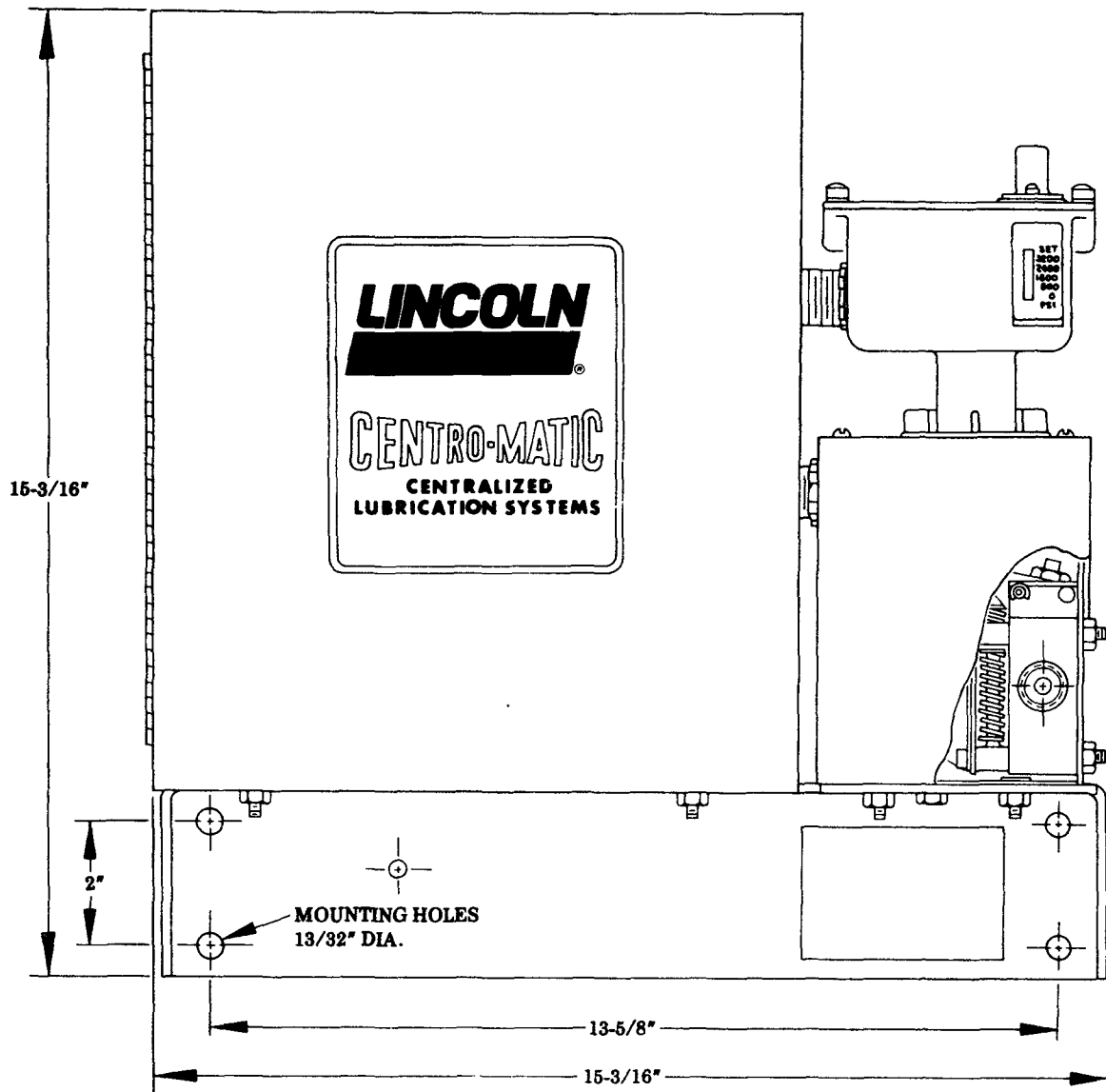


CENTRO-MATIC CONTROL PANEL

Model 84066

Series "A"



DESCRIPTION

The 84066 is used on systems where electric motor driven pumps are used and where venting is accomplished through a solenoid valve.

ELECTRICAL SPECIFICATIONS

The 84066 is designed for use on 115 Volts, 60 Hertz, Single Phase but will operate on 95 Volts ($\pm 15\%$), 50 Hertz at reduced speed of timing motor. Total power required is 80 watts maximum. When panel is in alarm configuration, total power required is 25 watts plus power required to operate external alarm signal.

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SECTION -C8
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gram timer.

Subsequent lubrication cycles begin when the timer switch arm is released by the clip in the program disc. The cycle frequency is determined by the number of clips in the inner groove of the program disc.

NOTE: A pre-lube cycle cannot be initiated when power is first turned on if a clip on the disc is positioned to hold down timer switch arm. In this case the first cycle will be initiated when clip moves off actuating arm. Maximum time that clip can hold down arm is 80 seconds (a factory setting).

LUBRICATION FAILURE ALARM

If the time delay relay should time out before pressure switch has actuated, the failure alarm circuits will be activated. Pump stops, energizing the alarm signal terminals. With the alarm signals energized, no more lube cycles can be initiated by the cycle timer and alarm signal will remain energized until power supply to control panel is disconnected.

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.

SERVICE PARTS

| PART | QUAN. | DESCRIPTION |
|--------|-------|---------------------|
| 10462 | 1 | Nipple |
| 10540 | 1 | Adapter |
| 14871 | 1 | Junction block |
| 66645 | 1 | Adapter union |
| 66842 | 1 | Adapter union |
| *68307 | 1 | Solenoid vent valve |
| *69630 | 1 | Pressure switch |
| 84068 | 1 | Time controller |

*Recommended service parts inventory.

Subsequent lubrication cycles begin when the timer switch arm is depressed and then released by a clip in the program disc. The cycle frequency is determined by the number of clips in the inner groove of the program disc.

MODEL 69630 PRESSURE SWITCH IMPORTANT

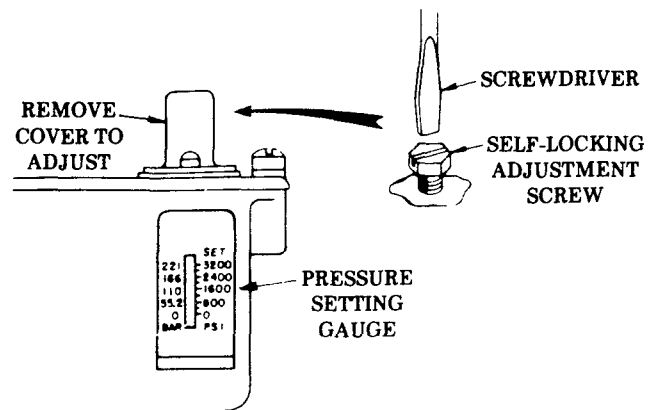
The 69630 Pressure Switch is factory set at 2500 psi for normal high pressure grease systems.

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.

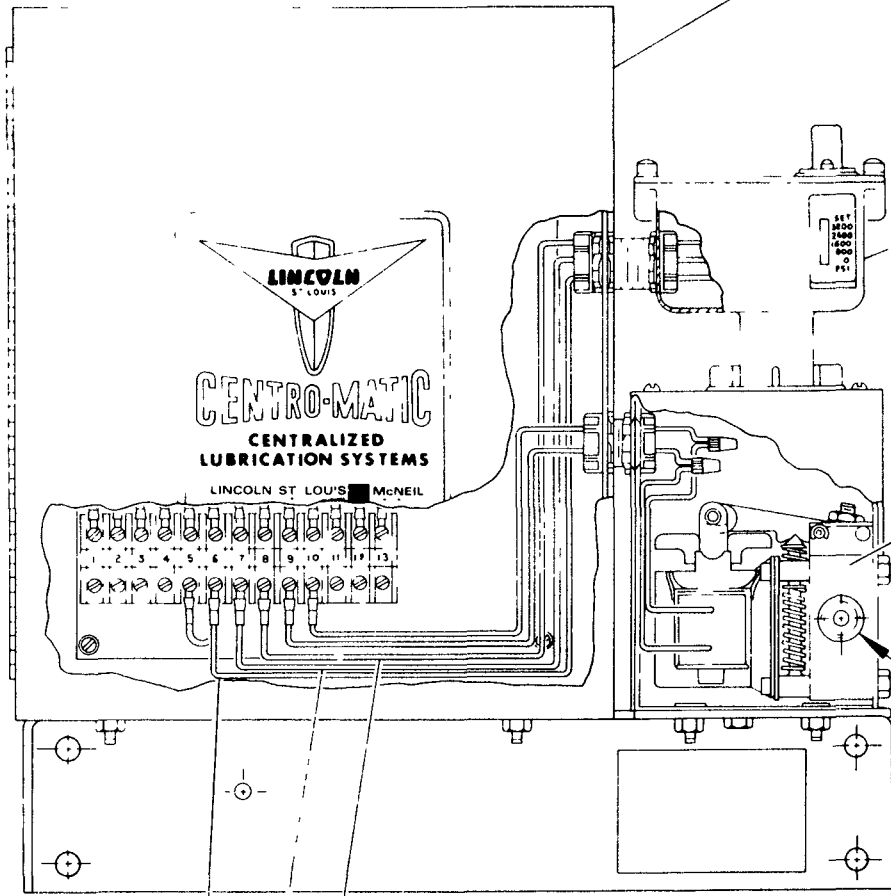
NOTE:

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.



MODEL 84066 MASTER CONTROL PANEL

84068 Program Timer
 Refer To Service Manual
 Section C8, Page 138 Series

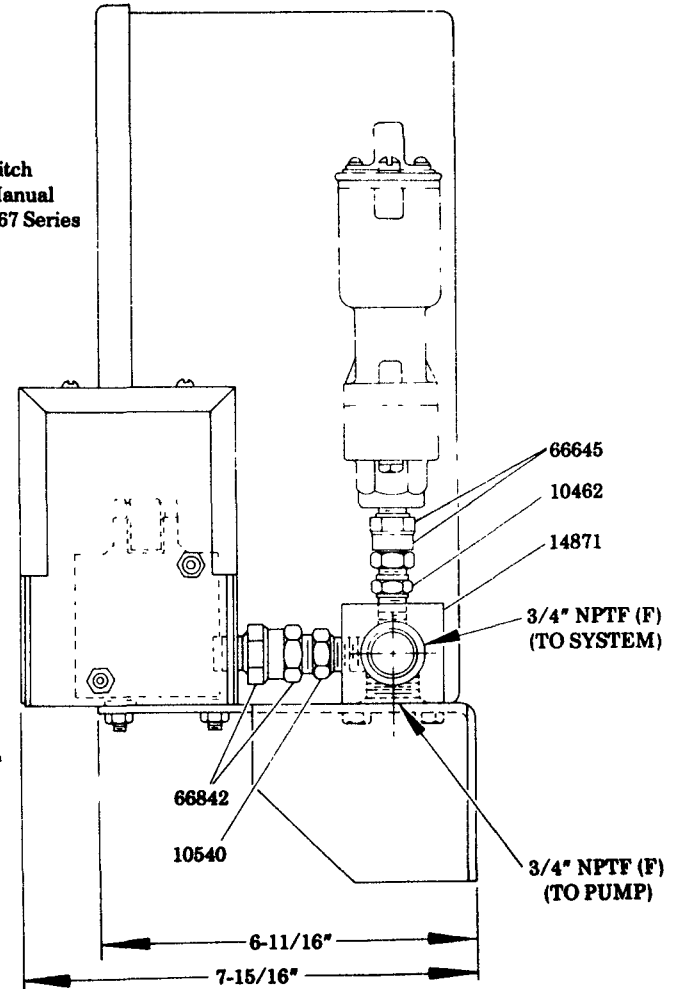


RED WIRE
 BLUE WIRE
 PURPLE WIRE
 FROM PRESSURE SWITCH

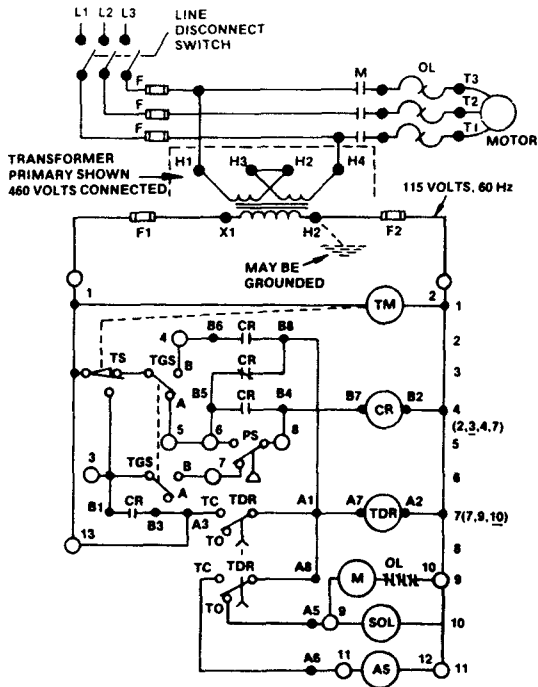
69630 Pressure Switch
 Refer To Service Manual
 Section C8, Page 167 Series

68307 Solenoid Vent Valve
 Refer To Service Manual
 Section C8, Page 39 Series

3/8" NPTF (F)
 VENT HOSE CONNECTION
 TO LUBRICANT DRUM



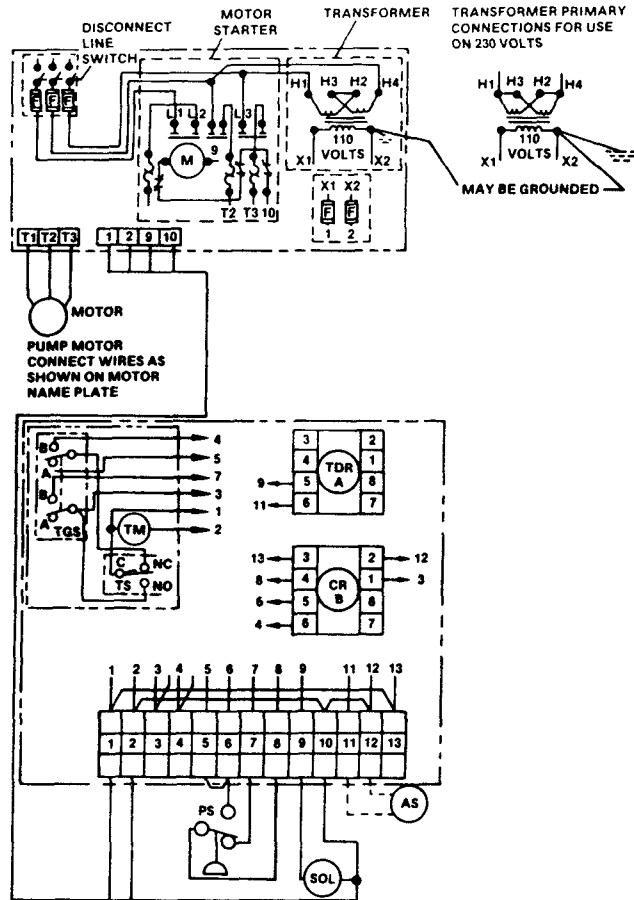
ELEMENTARY DIAGRAM



| CODE | PART | DESCRIPTION |
|------|---------|---------------------|
| TM | PART OF | TIMER MOTOR |
| TS | 84075 | TIMER SWITCH |
| TGS | TIMER | TOGGLE SWITCH |
| TDR | 69639 | TIME DELAY RELAY |
| CR | 69640 | CONTROL RELAY |
| PS | 69630 | PRESSURE SWITCH |
| M | * | MOTOR STARTER |
| SOL | 68307 | SOLENOID VENT VALVE |
| AS | * | ALARM SIGNAL |

*Supplied by customer.

POSITION DIAGRAM



NOTE: Numbered open circles on diagrams identify corresponding numbered terminals on timer.

SEQUENCE OF OPERATION

- (1) Toggle Switch (TGS) in position "A", power "on" energizes Time Delay Relay (TDR) coil, line 7, through contacts Timer Switch (TS), TGS and Control Relay (CR), line 3, Motor Starter (M) and Solenoid Vent Valve (SOL) through TDR, line 10. TDR begins to time out and pump delivers lubricant.
- (2) Pressure raises, actuating Pressure Switch (PS) contacts, line 5, to energize CR coil, line 4, opening CR contacts, line 3, and closing CR contacts, line 4. TDR resets, pump stops, pressure vents, but CR remains energized. TS, line 3, is actuated by Timer Motor (TM) to de-energize CR coil. Next lube cycle starts when TM releases TS. Operation follows steps 1 and 2 above.
- (3) TGS in position "B", TS, line 3, is actuated by TM, energizing CR coil, line 4, through "B" of TGS and PS, line 6. When TM releases TS, CR coil is held energized through CR contacts, line 7, and PS, line 6. TDR coil is now energized through "B" of TGS, line 3, and CR contacts, line 2. M and SOL are also energized through TDR contacts, line 10. TDR begins to time out and pump delivers lubricant. Pressure raises in lube supply line.
- (4) PS actuates, de-energizing CR coil, line 4. CR contacts, line 2, open, de-energizing TDR and pump stops, pressure vents and TDR resets. Operation follows as in 3 and 4.
- (5) If TDR times out before PS actuates, TDR contacts, line 7, close, holding TDR timed out. TDR contacts, line 9, close, energizing Alarm Signal (AS), line 11, and TDR contacts, line 10, open, stopping pump. Power must be interrupted to release TDR coil and restore system operation.

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.