

# CPS-100 CONTROL PANEL

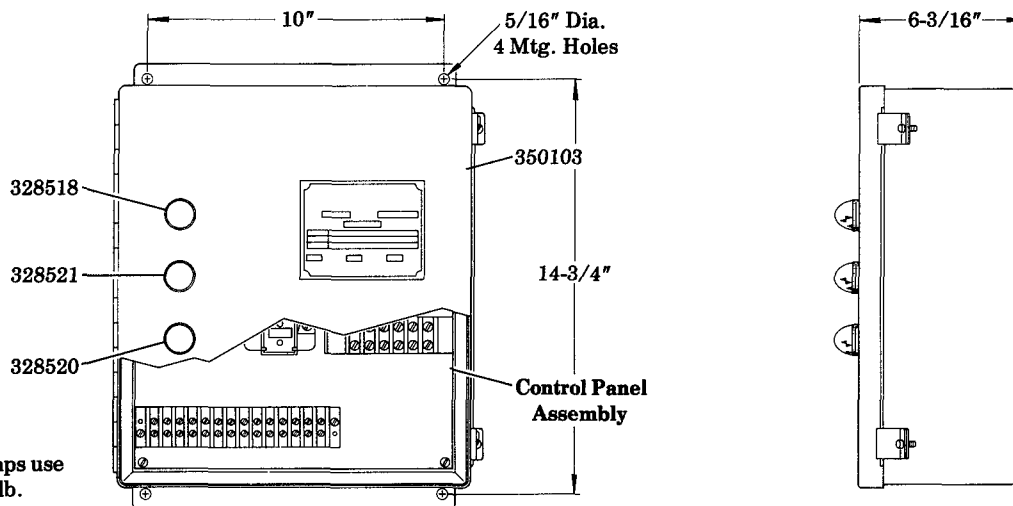
115 VOLTS, 60 Hz.



Models 130109, 130246  
130291

Series "A"

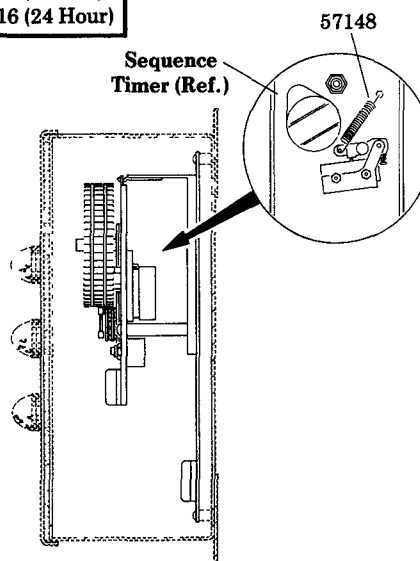
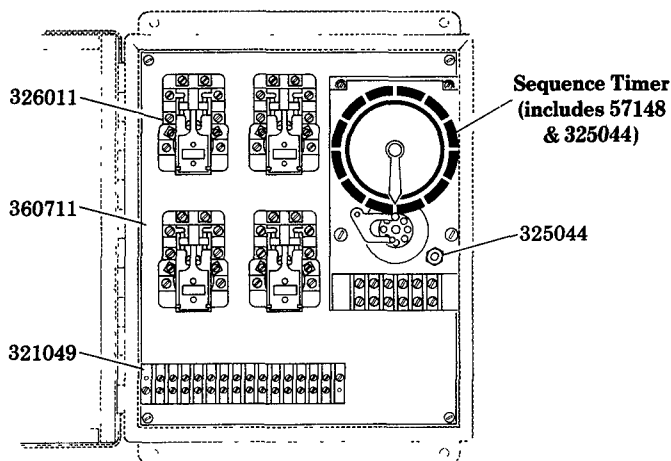
MODELS 130109 and 130246  
CONTROL PANEL



NOTE:  
Indicator lamps use  
6S6-135V Bulb.

## CONTROL PANEL ASSEMBLY

Control Panel	Control Panel Assembly	Sequence Timer
130109 130246	130291	130059 (1 Hour) 130216 (24 Hour)



## SERVICE PARTS

PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION
57148	1	Spring	328520	1	Red lamp
321049	1	Terminal strip	328521	1	White lamp
325044	1	Pushbutton	350103	1	Enclosure
326011	4	Relay	360711	1	Mounting plate
328518	1	Green lamp			

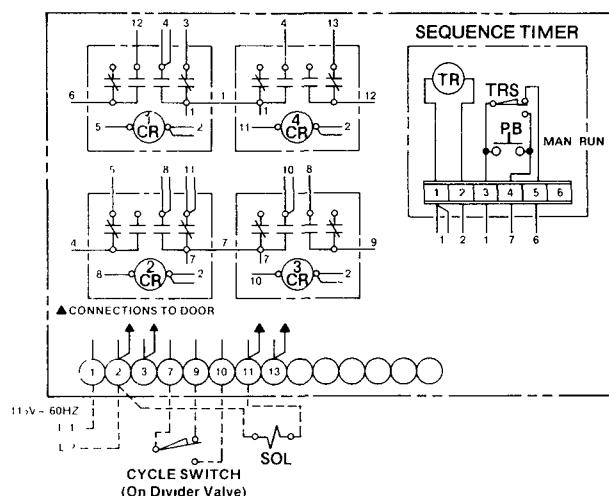
**LINCOLN ST. LOUIS**  
4010 GOODFELLOW BLVD • ST LOUIS, MO. 63120 • (314) 383 5900



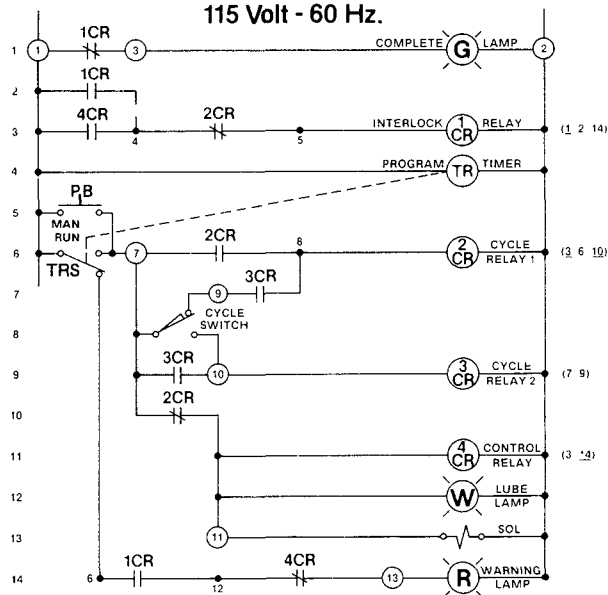
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## POSITION DIAGRAM



## ELEMENTARY DIAGRAM 115 Volt - 60 Hz.



CODE	PART	DESCRIPTION	CODE	PART	DESCRIPTION
1CR	326011	INTERLOCK RELAY	TR	PART OF SEQUENCE TIMER	TIMER MOTOR
2CR		CYCLE RELAY 1	TRS		SEQUENCE TIMER SWITCH
3CR		CYCLE RELAY 2	PB		MANUAL RUN PUSHBUTTON
4CR		CONTROL RELAY	G	328518	GREEN LAMP
SOL.	*	AIR SOLENOID VALVE	W	328521	WHITE LAMP
CS	*87070	CYCLE SWITCH	R	328520	RED LAMP

\*NOT INCLUDED WITH MODELS 130109, 130246  
AND 130291. MUST BE ORDERED SEPARATELY.

## OPERATION

Sequence timer is energized when machine is turned on (green lamp lights). Timer motor runs constantly. Lube cycle is initiated by trip arms in sequence timer actuating control panel, energizing air solenoid valve (white lamp on, green lamp off). Air is allowed to the pump which delivers lubricant to the divider valve system. When all divider valves have cycled, a signal transmitted from a divider valve cycle switch to the control panel de-energizes the air solenoid valve

shutting off pump. Green lamp lights (white lamp off) indicating completion of a lubrication cycle. If the lubrication cycle is not completed within the total cycle time setting of the sequence timer, a red warning lamp in the control panel will be energized. Warning lamp will remain lit until beginning of next lube cycle at which time the system will again attempt to complete a lube cycle.

## TO SET LUBRICATION FREQUENCY

A manual run pushbutton on the sequence timer can be used to test or manually operate the system to determine actual cycle time. Depress button until green lamp lights indicating completion of a lubrication cycle. By timing this interval and adding approximately 50% of this time, the total cycle time can be determined. The sequence timer can then be set accordingly.

### EXAMPLE (1 Hour Timer):

One lubrication cycle requires 2 minutes. Adding 50% reserve cycle time results in a total cycle time of 3 minutes. On a one hour timer, each trip arm pulled up represents 37-1/2 seconds of "on" time. For a total cycle time of 3 minutes, a set of 5 consecutive trip arms would be pulled up.

For more than one lube cycle per hour, trip arm sets would be pulled up at equally spaced intervals. The sequence timer dial contains 96 trip arms. The minimum "on" time would be 37-1/2 seconds and the maximum would be 59 minutes 22-1/2 seconds.

To extend time between lubrication cycles to more than one hour, an omitting wheel is provided. Each consecutive screw turned up in the omitting wheel (7 max.) will increase time between cycles by one hour. A screw turned up in every other position will initiate a lube cycle every other hour. A 24 hour timer should be used for lubrication cycles at intervals longer than one every eight hours.

Each trip arm pulled up on a 24 hour timer represents 15 minutes of "on" time. Minimum "on" time per lubrication cycle is 15 minutes and the maximum is 23 hours, 45 minutes. To extend time between lubrication cycles to more than 24 hours, an omitting wheel is provided. Each screw turned up in the omitting wheel (6 max.) will omit one day of operation.

