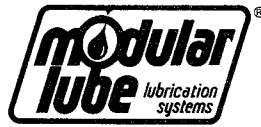


# CPS-200 CONTROL PANEL

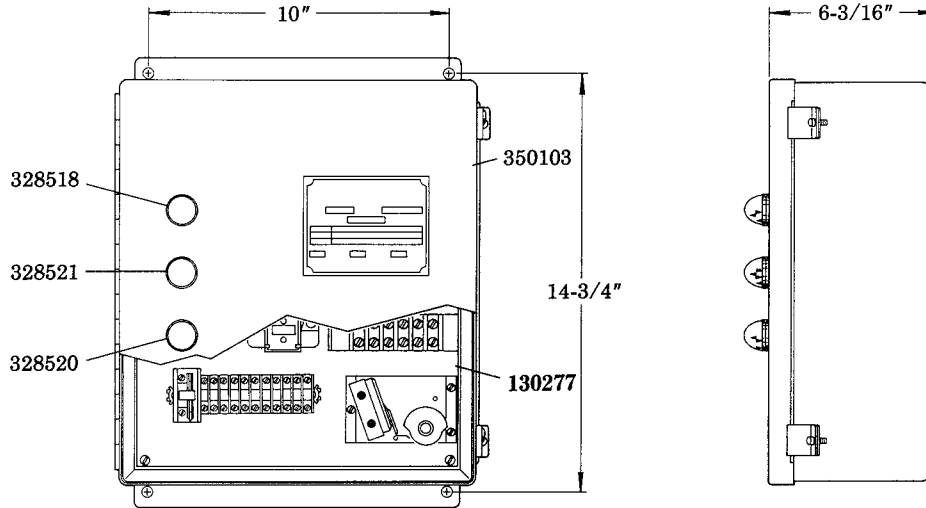
1 HOUR SEQUENCE TIMER  
115 VOLTS, 60 Hz.



# Models 130275 130277

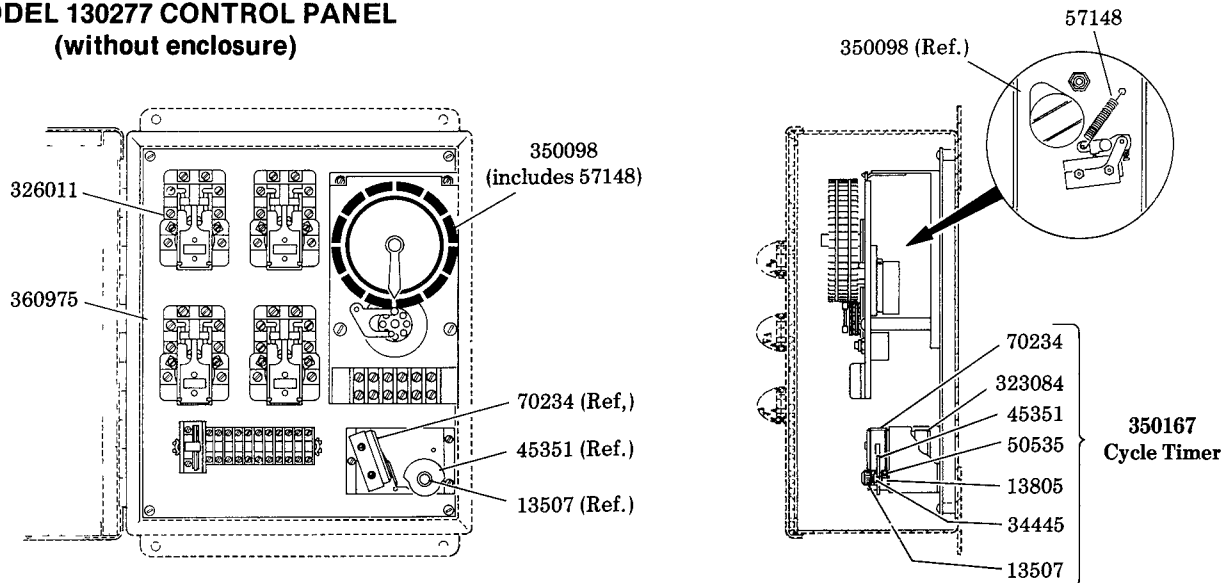
## Series "A"

### MODEL 130275 CONTROL PANEL



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

### MODEL 130277 CONTROL PANEL (without enclosure)



### SERVICE PARTS

PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION
13507	1	Knob	70234	1	Micro switch	328521	1	White lamp
13805	1	Camshaft	130277	1	Control panel	350098	1	Sequence timer
34445	1	Gasket	323084	1	Timing motor	350103	1	Enclosure
45351	1	Cam	326011	4	Relay	350167	1	Cycle timer
50535	1	Set screw	328518	1	Green lamp	360975	1	Mounting plate
57148	1	Spring	328520	1	Red lamp			

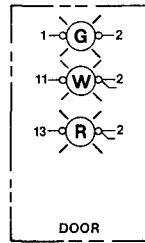
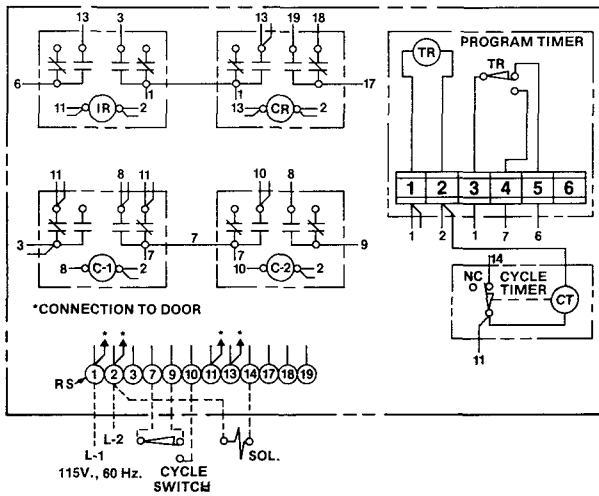
**LINCOLN ST. LOUIS**  
4010 GOODFELLOW BLVD • ST. LOUIS, MO 63120 • (314) 383 5900



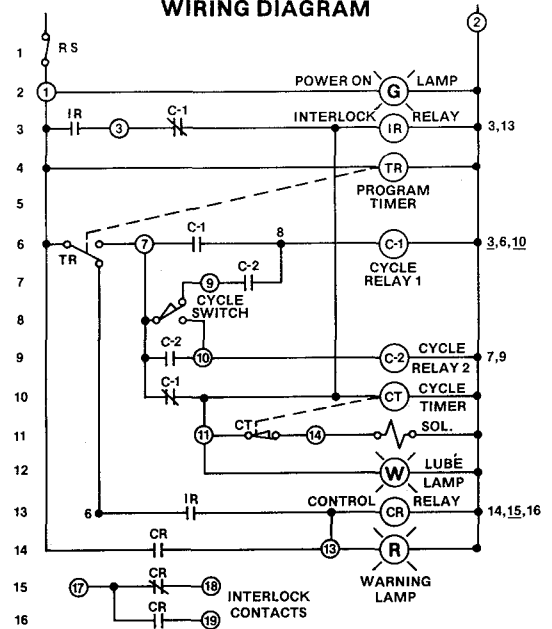
A DIVISION OF  
**McNEIL**  
CORPORATION

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## POSITION DIAGRAM



## WIRING DIAGRAM



CODE	PART	DESCRIPTION	CODE	PART	DESCRIPTION
G	328518	GREEN LAMP	TR	350098	SEQUENCE TIMER
R	328520	RED LAMP	CT	350167	CYCLE TIMER
W	328521	WHITE LAMP	RS	321109	RESET SWITCH
IR	326011	INTERLOCK RELAY	CS	*87070	CYCLE SWITCH
CR		CONTROL RELAY	SOL.	*	SOLENOID
C-1		CYCLE RELAY 1	*NOT INCLUDED WITH MODELS 130275 AND 130277. MUST BE ORDERED SEPARATELY.		
C-2		CYCLE RELAY 2			

## OPERATION

Sequence timer is energized when machine is turned on (green lamp lights). Timer motor runs constantly. Trip arm of sequence timer contacts sequence timer switch energizing cycle timer. Lube cycle starts when cam lobe contacts cycle timer switch, energizing air solenoid valve (white lamp on). Air is allowed to the pump which delivers lubricant to the divider valve system. Cycle timer operates pump at 10 cycles per minute. 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 and cycle timer shutting off pump. White lamp de-energizes 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 and system will continue to attempt to complete a lube cycle until reset switch is opened.

## TO DETERMINE CYCLE TIME

Pull up a number of consecutive trip arms. Manually rotate timer dial until white lamp lights indicating the start of a lubrication cycle. Time the interval from initiation of a lube cycle until its completion (white lamp off). Add approximately 50% of this time to determine total cycle time and set sequence timer accordingly.

## TO SET LUBRICATION FREQUENCY

### EXAMPLE:

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.

