

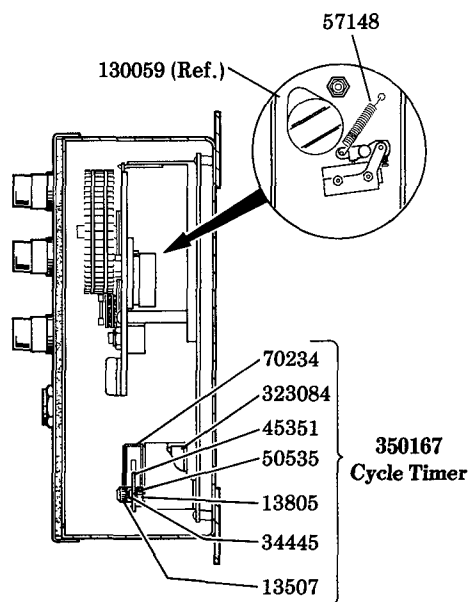
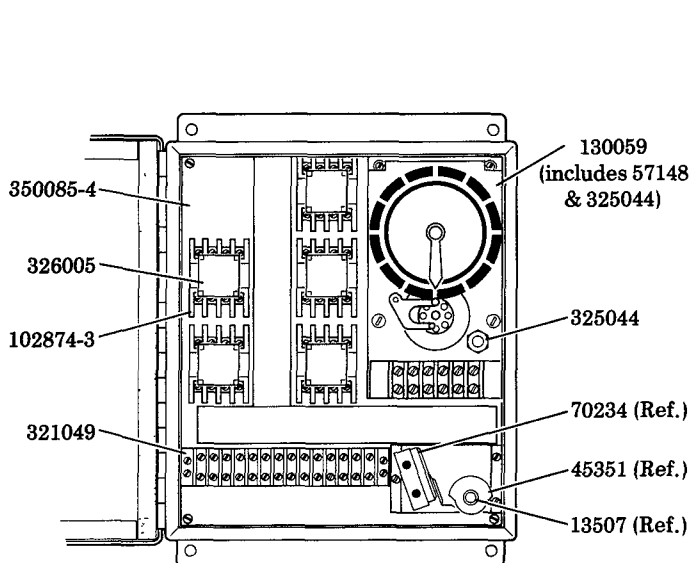
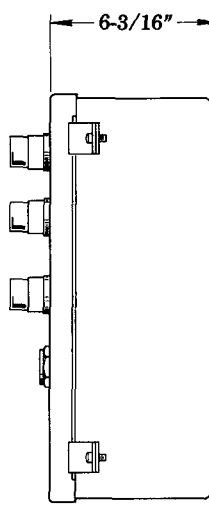
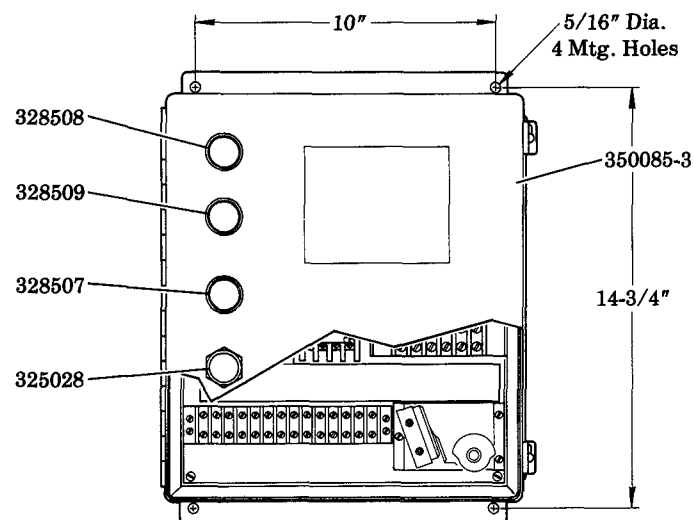
CPS-200 CONTROL PANEL

115 VOLTS, 60 Hz.
1 HOUR TIMER



Model 130104

Series " B "



SERVICE PARTS

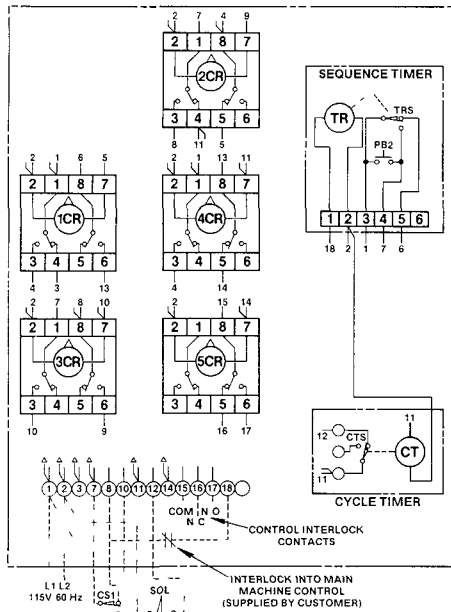
PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION
13507	1	Knob	102874-3	5	Relay base	328507	1	Red lamp
13805	1	Camshaft	130059	1	Sequence timer	328508	1	Green lamp
34445	1	Gasket	321049	1	Terminal strip	328509	1	White lamp
45351	1	Cam	323084	1	Timing motor	350085-3	1	Enclosure
50535	1	Set screw	325028	1	Pushbutton	350085-4	1	Mounting plate
57148	1	Spring	325044	1	Pushbutton	350167	1	Cycle timer
70234	1	Micro switch	326005	5	Relay			

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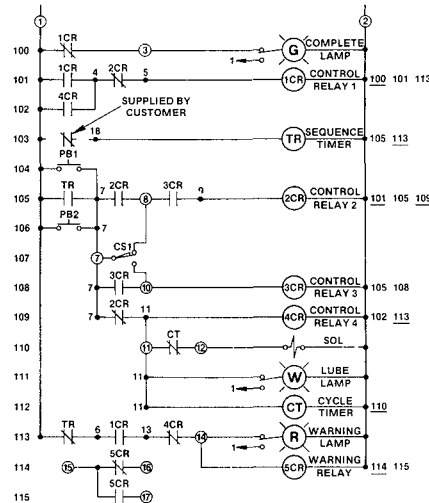
POSITION DIAGRAM



* CONNECTIONS TO DOOR

ELEMENTARY DIAGRAM

115 Volt - 60 Hz.



CODE	PART	DESCRIPTION	CODE	PART	DESCRIPTION
1CR	326005	CONTROL RELAY 1	CT	PART OF 350167	CYCLE TIMER MOTOR
2CR		CONTROL RELAY 2	CTS		CYCLE TIMER SWITCH
3CR		CONTROL RELAY 3	G	328508	GREEN LAMP
4CR		CONTROL RELAY 4	W	328509	WHITE LAMP
5CR		WARNING RELAY	R	328507	RED LAMP
TR	PART OF 130059	TIMER MOTOR	PB1	325028	PUSHBUTTON SWITCH
TRS		SEQUENCE TIMER SWITCH	SOL	*	AIR SOLENOID VALVE
PB2		MANUAL RUN PUSHBUTTON	CS1	*87070	CYCLE SWITCH

* NOT INCLUDED WITH MODEL 130104
MUST BE ORDERED SEPARATELY

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, green lamp off). 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. 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. If control interlock contacts are connected to shut down machine in the event of a lube fault and interlock into main machine control is connected between terminals 1 and 18, then control panel will lock into alarm mode in the event of a lube fault until control is reset by interrupting power (L1, L2).

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:

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.

