CPS-200 CONTROL PANEL ⓜⓞⓓⓤⓛⓐⓡ lube lubrication systems® Models 130029 130287

115 VOLTS, 60 Hz.

Series " B "

MODEL 130029 CONTROL PANEL

— 12″ —
— 6-3/16″ —
16-3/4″

328518
328521
328520

350099
130287
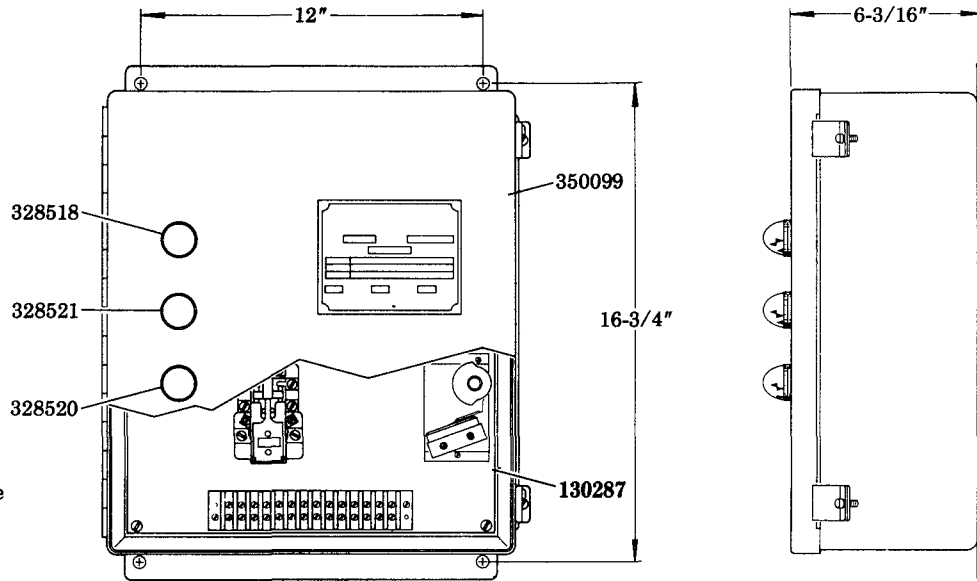
NOTE:
Indicator lamps use
328522 Bulb.

MODEL 130287 CONTROL PANEL ASSEMBLY

57148
130059 (Ref.)

326011
130059 (includes 57148 & 325044)
325044
13507 (Ref.)
70234 (Ref.)
45351 (Ref.)
360702
321049

45351
50535
13805
323084
34445
13507
70234

350167
Cycle Timer
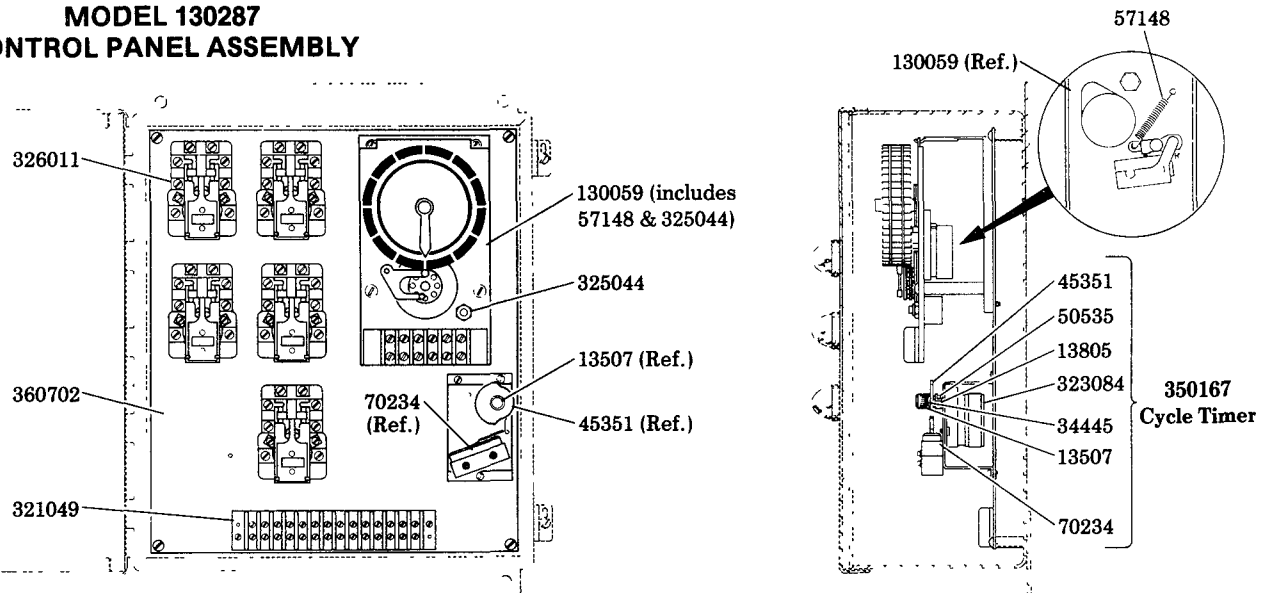
SERVICE PARTS

PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION
13507	1	Knob	130059	1	Sequence timer	328520	1	Red lamp
13805	1	Camshaft	130287	1	Control panel assembly	328521	1	White lamp
34445	1	Gasket	321049	1	Terminal strip	328522	3	Bulb
45351	1	Cam	323084	1	Timing motor	350099	1	Enclosure
50535	1	Set screw	325044	1	Pushbutton	350167	1	Cycle timer as. mbly
57148	1	Spring	326011	5	Relay	360702	1	Mounting plate
70234	1	Micro switch	328518	1	Green lamp			

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POSITION DIAGRAM
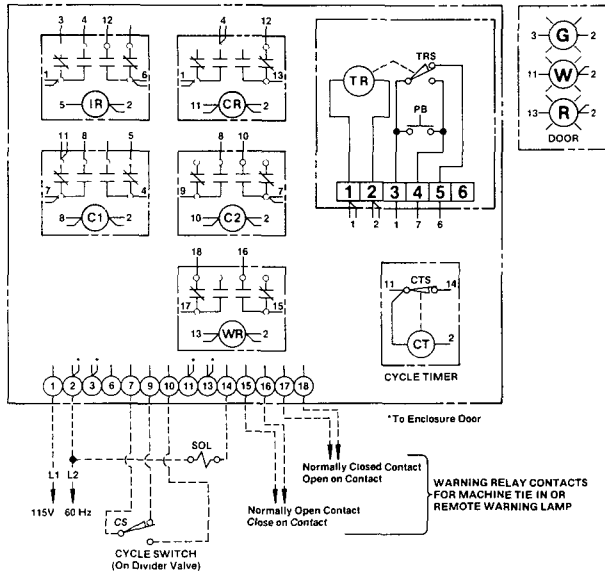
WIRING DIAGRAM
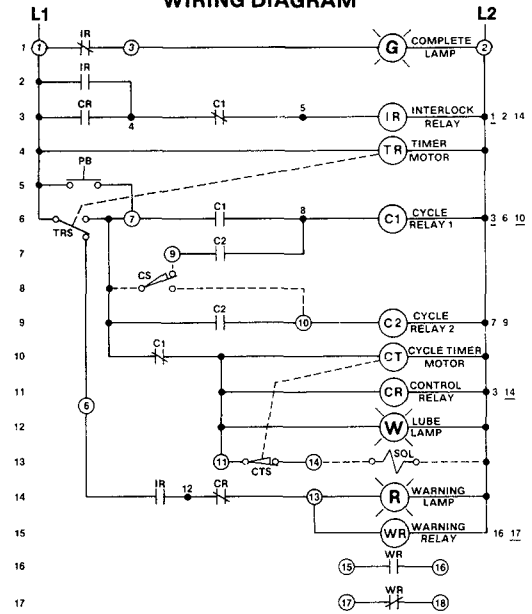
CODE	PART	DESCRIPTION	CODE	PART	DESCRIPTION
G	328518	GREEN LAMP	TR	PART OF MODEL 130059 SEQUENCE TIMER	TIMER MOTOR
W	328521	WHITE LAMP	TRS		SEQUENCE TIMER SWITCH
R	328520	RED LAMP	PB		MANUAL RUN PUSHBUTTON
IR	326011	INTERLOCK RELAY	CT	PART OF MODEL 350167 CYCLE TIMER	CYCLE TIMER MOTOR
C1		CYCLE RELAY 1	CTS		CYCLE TIMER SWITCH
C2		CYCLE RELAY 2	SOL.	*	AIR SOLENOID VALVE
CR		CONTROL RELAY	CS	*87070	CYCLE SWITCH
WR		WARNING RELAY			

*NOT INCLUDED WITH MODELS 130029 AND 130287. 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.

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.

ACTUAL CYCLE TIME: 2 MINUTES

RESERVE CYCLE TIME: 1 MINUTE

5 TRIP ARMS IN "UP" POSITION

MANUAL RUN PUSHBUTTON

EVERY OTHER SCREW TURNED UP IN OMITTING WHEEL TO PROVIDE A LUBRICATION CYCLE EVERY TWO HOURS.