

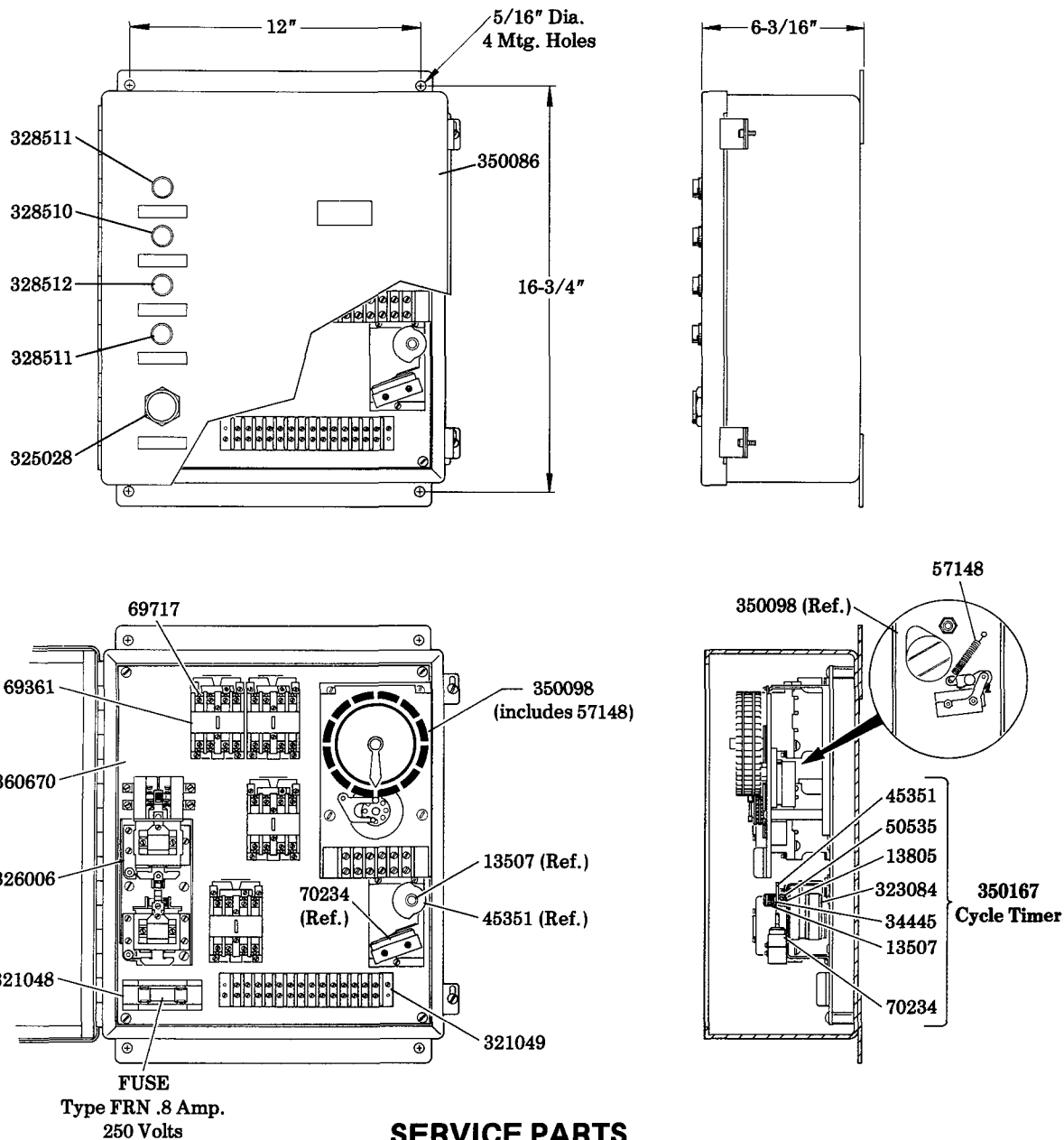
CPS-200 CONTROL PANEL

115 VOLTS, 60 HZ.
1 HOUR TIMER



Model 130027

Series "A"



SERVICE PARTS

PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION
13507	1	Knob	69717	8	Relay contacts	328510	1	Amber lamp
13805	1	Camshaft	70234	1	Micro switch	328511	2	White lamp
34445	1	Gasket	321048	1	Fuse block	328512	1	Red lamp
45351	1	Cam	321049	1	Terminal strip	350086	1	Enclosure
50535	1	Set screw	323084	1	Timing motor	350098	1	Sequence timer
57148	1	Spring	325028	1	Pushbutton	350167	1	Cycle timer assembly
69361	4	Relay	326006	1	Latch relay	360670	1	Mounting plate

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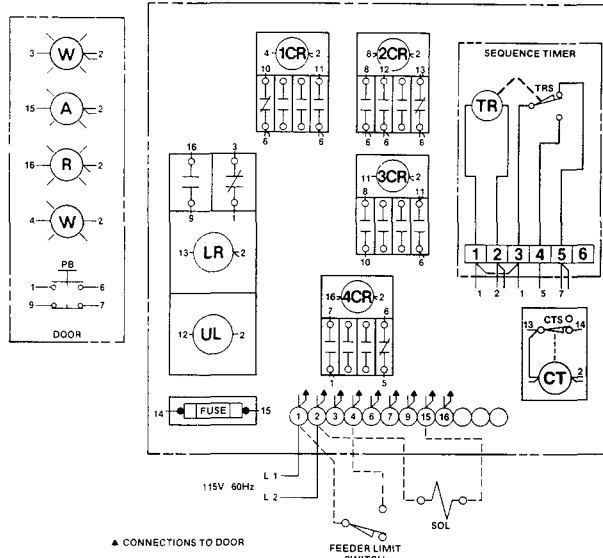


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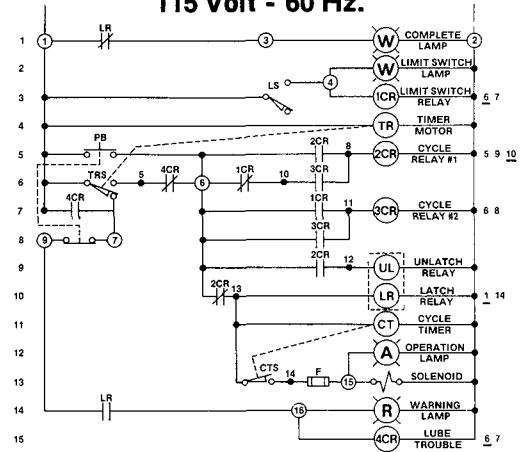
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POSITION DIAGRAM



ELEMENTARY DIAGRAM 115 Volt - 60 Hz.



CODE	PART	DESCRIPTION	CODE	PART	DESCRIPTION
W	328511	WHITE LAMP	1CR	69361	LIMIT SWITCH RELAY
A	328510	AMBER LAMP	2CR		CYCLE RELAY #1
R	328512	RED LAMP	3CR		CYCLE RELAY #2
PB	325028	MANUAL RUN PUSHBUTTON	4CR		LUBE TROUBLE RELAY
TR	PART OF 350098	TIMER MOTOR	LR	PART OF 326006	LATCH RELAY
TRS		SEQUENCE TIMER SWITCH	UL		UNLATCH RELAY
CT	PART OF 350167	CYCLE TIMER MOTOR	F	TYPE FRN .8 AMP	FUSE
CTS		CYCLE TIMER SWITCH	LS		FEEDER LIMIT SWITCH
SOL.	*	AIR SOLENOID VALVE			

*NOT INCLUDED WITH MODEL 130027.
MUST BE ORDERED SEPARATELY.

OPERATION

Sequence timer is energized when machine is turned on (white "Complete" lamp lights). Timer motor runs constantly. Trip arms of sequence timer contact sequence timer switch energizing cycle timer. Lube cycle starts when cam lobe contacts cycle timer switch, energizing air solenoid valve (white lamp off, amber 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. A feeder limit switch, located on a divider valve in the system, signals the control panel upon shift of divider valve piston (white "Feeder Limit Switch" lamp lights) indicating one-half cycle has been completed.

On the return shift of the divider valve piston, a feeder limit switch signal de-energizes "Feeder Limit Switch" lamp and air solenoid valve is de-energized shutting off the pump. White "Complete" lamp lights (amber lamp off) indicating completion of a lube 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 the beginning of the 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 panel enclosure can be used to test or manually operate the system to determine actual cycle time. Depress pushbutton and hold to initiate a lube cycle. By timing the interval from lube cycle initiation until white "Complete" lamp lights 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.

