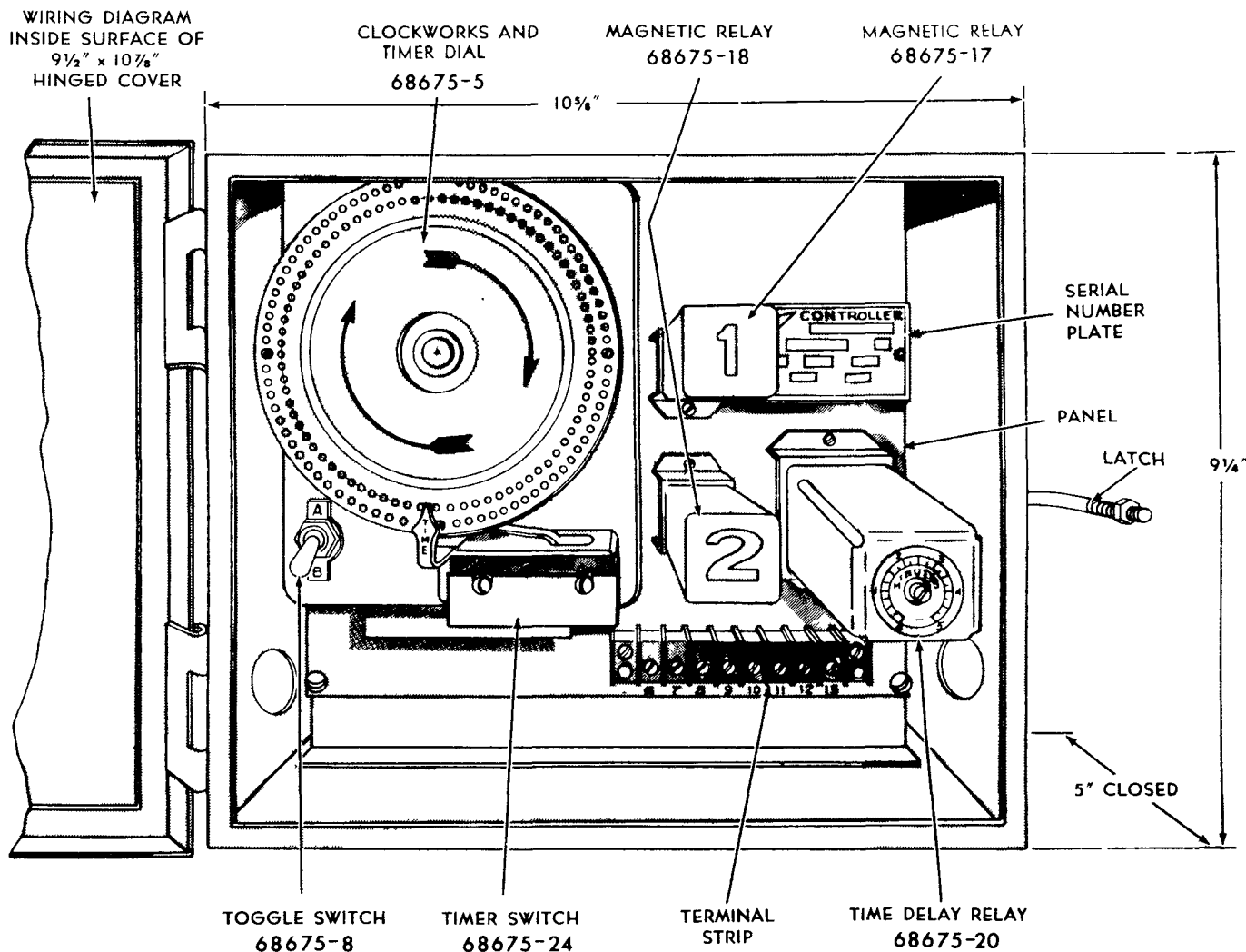


CENTRO-MATIC TIMER 115 VOLT, 60 CYCLE



Model 68675

Series B



A—Power requirements—115 volt, 60 cycle, 14.7 V.A. can be supplied through step-down transformer from 220/440 volt power supply.

B—All internal wiring interlocking the component parts are concealed behind the panel and are routed to the terminal strip to simplify installation of the Master Control Panel.

Wiring diagram and sequence of operation for the system is attached to inside surface of the hinged cover.

C—Whenever possible, the Master Control Panel should be interlocked with the starter controls of the machine being lubricated, to be sure the machine will be lubricated when it is operated.

D—Timer adjustable from 3-3/4 minutes to 3 hours.

E—It is necessary that a Monitor Box, Horn, Light or a warning device be wired into the Master Control Circuit to obtain maximum protection in the form of a signal when the CENTRO-MATIC system is not properly operating.

LINCOLN ST. LOUIS

4010 GODFELLOW BLVD · ST LOUIS MO 63120 · (314) 383 5900

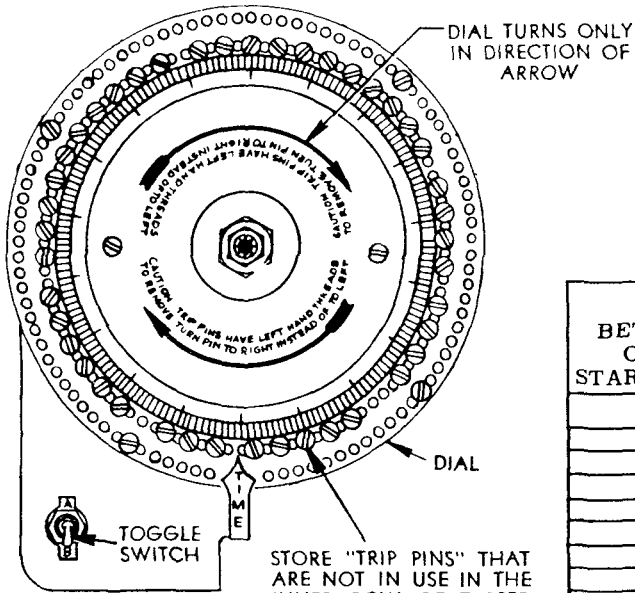


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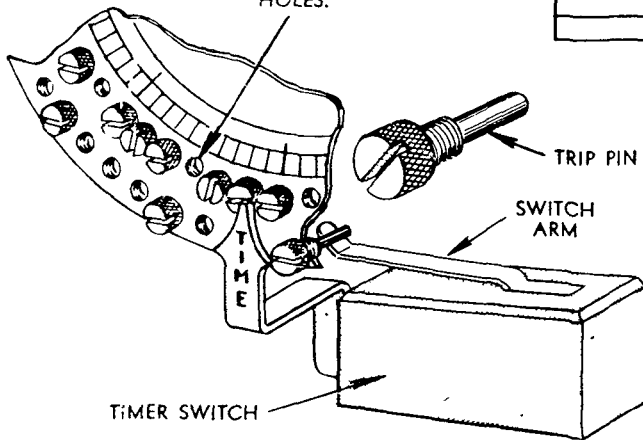
SETTING OF THE TIMER PROGRAMS THE LUBRICATION CYCLE FREQUENCY.



Follow the LINCOLN CENTRO-MATIC SYSTEM PLANNING MANUAL to establish the time cycle.

1. The gear train reduces the speed of the clockworks motor to rotate the Dial one full revolution every three hours. Trip Pins are installed in the outer row of tapped holes of the Dial at specific hole spacing to obtain the desired time cycle.

TIME INTERVAL BETWEEN THE START OF ONE CYCLE AND THE START OF THE NEXT CYCLE	NUMBER OF EQUALLY SPACED TRIP PINS	NUMBER OF EMPTY HOLES BETWEEN EACH PIN
3-3/4 MINUTES	48	1
5-1/2 MINUTES	32	2
7-1/2 MINUTES	24	3
11-1/4 MINUTES	16	5
15 MINUTES	12	7
22-1/2 MINUTES	8	11
30 MINUTES	6	15
45 MINUTES	4	23
1 HOUR	3	31
1-1/2 HOURS	2	47
3 HOURS	1	95



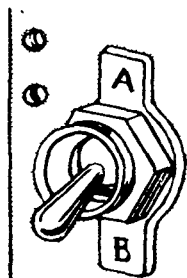
2. As the Dial rotates, the Trip Pins (one after the other) bear against the arm of the Timer Switch. Each Trip Pin pushes the Switch Arm down turning on the Switch to energize the Magnetic Relay No.2 to start the Pump.

(Refer to Eng. Std. C $\frac{A}{E}$ - 3)

As the Dial continues its travel, the contact between the Trip Pin and the Switch Arm is relieved, permitting the Switch Arm to snap back.

SWITCH IS NOW RESET FOR THE NEXT LUBRICATION CYCLE.

NOTE: The Timer Switch action starts the Pump only, it does not control the pumping time. Clockworks continues to run as long as power is supplied to the Timer.



TOGGLE SWITCH MANUALLY OPERATED

IMMEDIATE LUBRICATION CYCLE THE INSTANT POWER IS TURNED ON

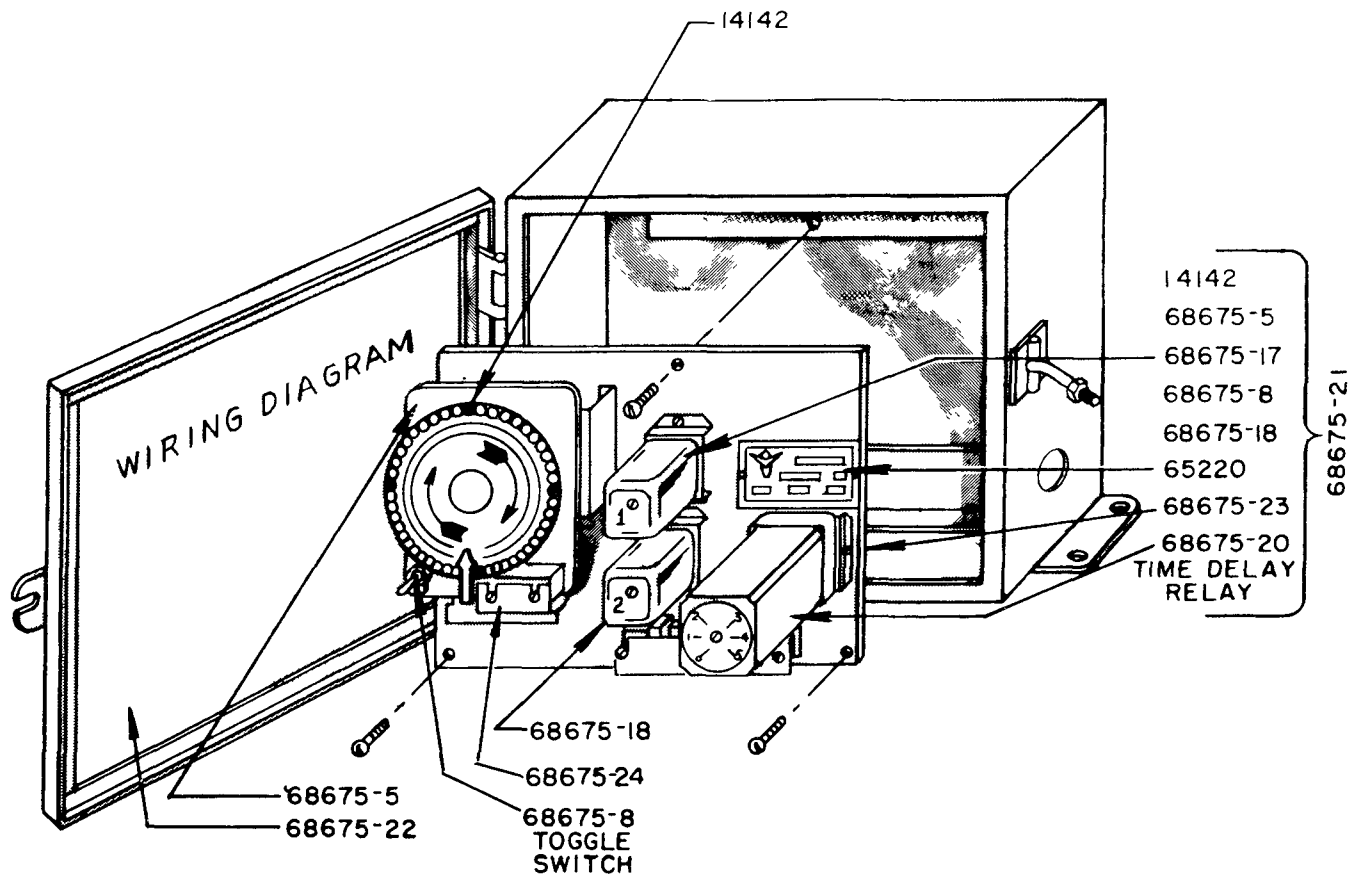
{ Toggle Switch in "A" position with Timer Switch in the normal position (Switch Arm not depressed) there is a circuit through a closed contact of the Toggle Switch and Magnetic Relay the Pressure Switch energizing the Magnetic Relay to start the Pump.

LUBRICATION CYCLE CONTROLLED BY THE TIMER

{ Toggle Switch in "B" position. Circuits to Magnetic Relay are only made when Timer Switch is active (Switch Arm depressed).

TO OPERATE THE SYSTEM AT ANY TIME BETWEEN THE CLOCKED LUBRICATION CYCLES

{ Move Toggle Switch from first position, to opposite position, then back to the first position, so that the timed lubrication cycles will continue after this manual operation.

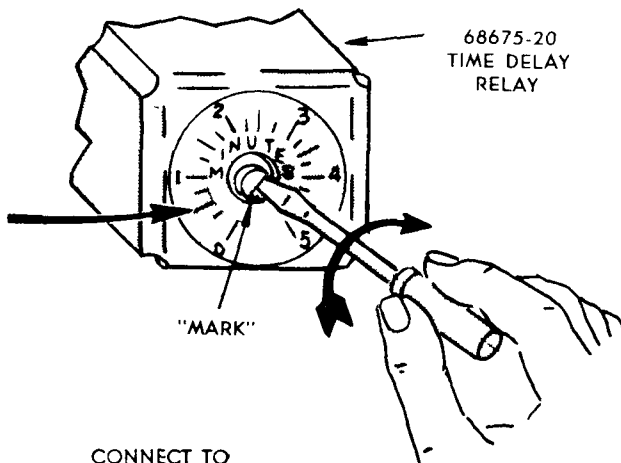


REPAIR PARTS LIST

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
14142	Dial Screw	68675-20	Time Delay Relay
65220	Serial No. Plate	68675-21	Timer and Panel Assembly
68675-5	Timer Assembly	68675-22	Wiring Diagram
68675-8	Toggle Switch	68675-23	Support Panel
68675-17	Timer Relay No. 1	68675-24	Micro-Switch
68675-18	Timer Relay No. 2		

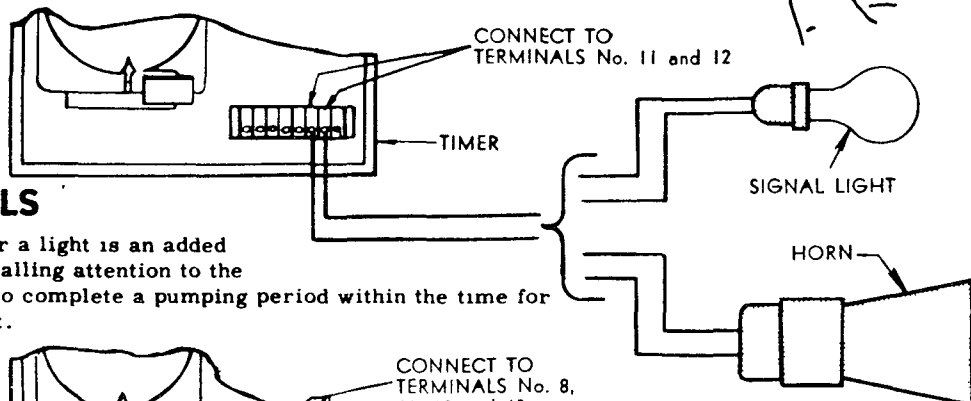
Time Delay Relay Part 68675-20 supplied with the Timer has a adjustable delay interval of 2 seconds to 5 minutes.

To adjust Time Delay Relay for desired delay interval, insert screw driver into slotted Stud of the Relay and turn clockwise until "mark" on Stud is in alignment with number selected on Dial.

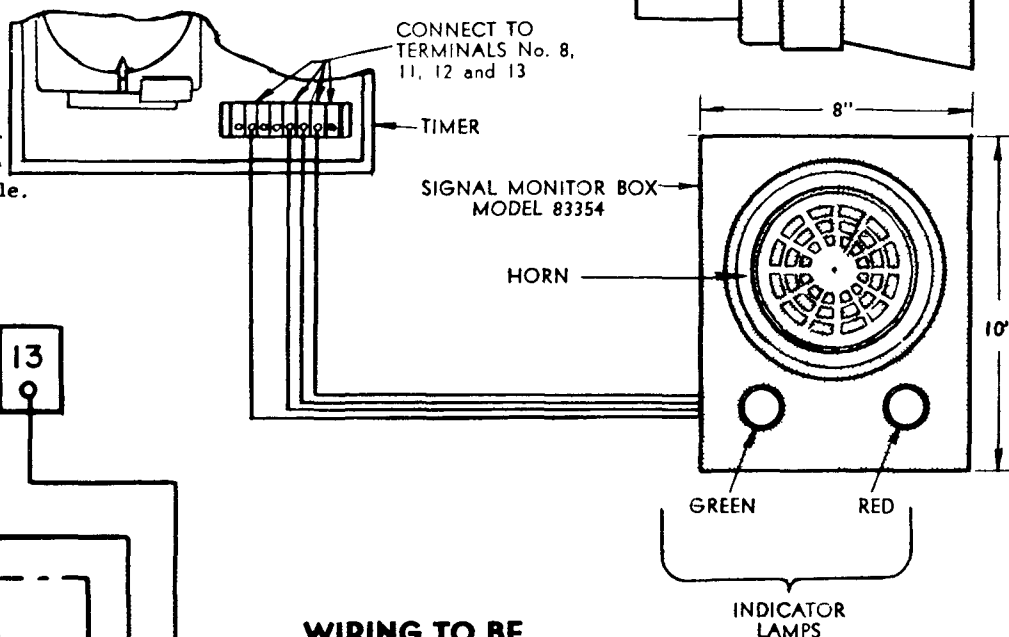


MONITOR SIGNALS

A monitor, either a horn or a light is an added safeguard as a signal for calling attention to the system when it has failed to complete a pumping period within the time for which "alarm timer" is set.



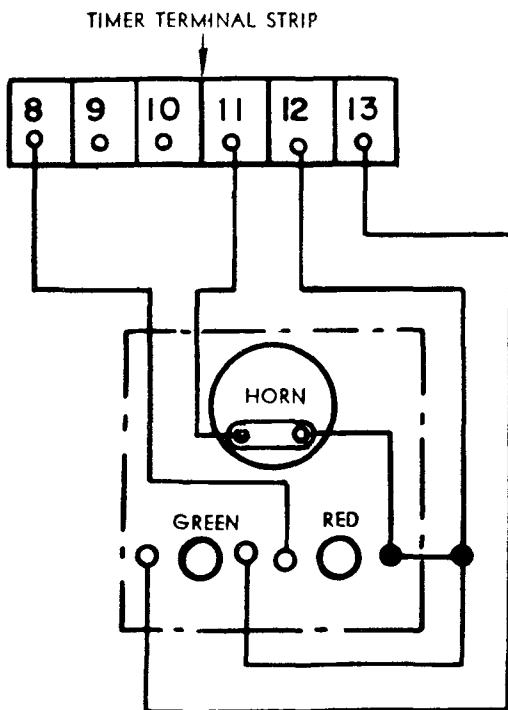
Model 83354 signal Monitor should be located where the two Signal Lamps are visible.



WIRING TO BE SUPPLIED BY CUSTOMER*

SUGGESTED CIRCUIT

Wire the Green Lamp to indicate when "POWER IS ON."
 Wire the Red Lamp to indicate when "PUMP IS OPERATING."
 Wire the Horn to sound if system fails to build up rated pressure within a specified time.



RETAIN THIS INFORMATION FOR FUTURE REFERENCE

When ordering Replacement Parts, List Part Numbers, Description, Model Number, and Series Letter.
 LINCOLN ST. LOUIS Provides a Distributor network that stocks Equipment and Replacement Parts.
 Repairs by Authorized Service Depts. List furnished upon request.