Extended Watchdog Pulse Timer



WARNING: Allow only qualified personnel to perform the following tasks. Observe and follow the safety instructions in this document and all other related documentation.

- The Extended Watchdog pulse timer is used with the CleanSpray 1. Description controller. The timer allows the cleaning spray from the CleanSpray gun to continue pulsing at a desired rate (6-64 sec) after the lacquer gun has stopped spraying; this prevents lacquer from drying on the nozzle tip. Two mechanical relays are included for controlling up to eight CleanSpray controllers. WARNING: Install a safety interlock to the spray machine that 2. Installation shuts off the CleanSpray controller when performing maintenance. This prevents the Extended Watchdog pulse timer from allowing the CleanSpray gun to fire unexpectedly. See Figure 1. Install the timer socket (1) to a DIN rail (6). NOTE: Only one relay, relay socket, and relay retaining spring is illustrated for clarity. 2. Install each relay socket (5) to a DIN rail (6). **NOTE:** Use 22 AWG wire for connecting the timer and relays in the system. 3. See Figure 2. Wire the timer and relay sockets as illustrated. **NOTE:** See Figure 1. If the second relay is used, wire the relay coil to contacts 6 and 9 in the timer socket (1). 4. Connect the timer (2) to the timer socket (1).
 - 5. Connect each relay (4) to a relay socket (5). Use the retaining springs (3) to secure the relays (4).

2. Installation (contd)

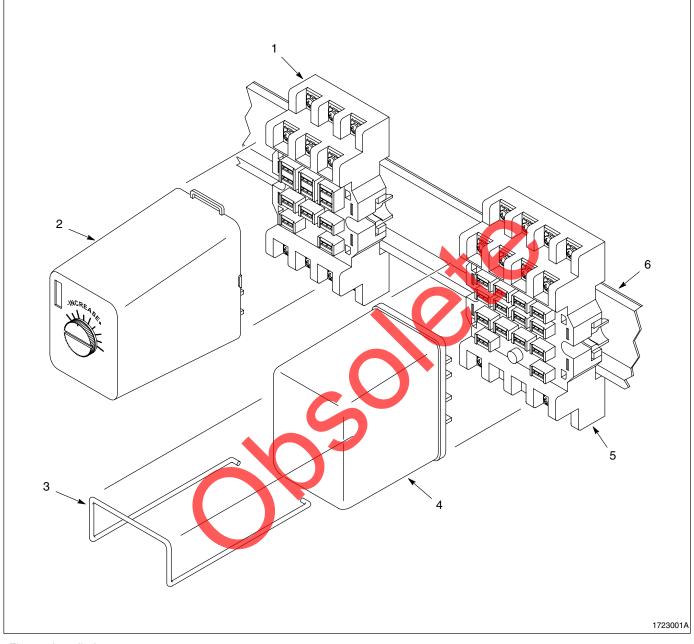


Fig. 1 Installation

- 1. Timer socket
- 2. Timer

- 3. Relay retaining spring
- 4. Relay

- 5. Relay socket
- 6. DIN rail (customer-applied)

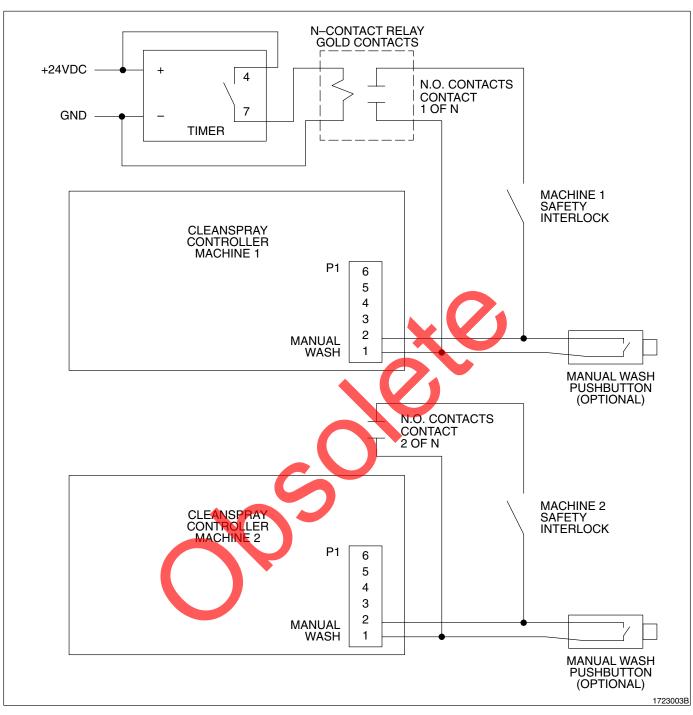


Fig. 2 Recommended System Wiring

3. Operation

See Figure 3.

Operation of the timer is dependent upon the CleanSpray controller. Use the INCREASE adjustment to select a pulse rate from 6–64 sec.

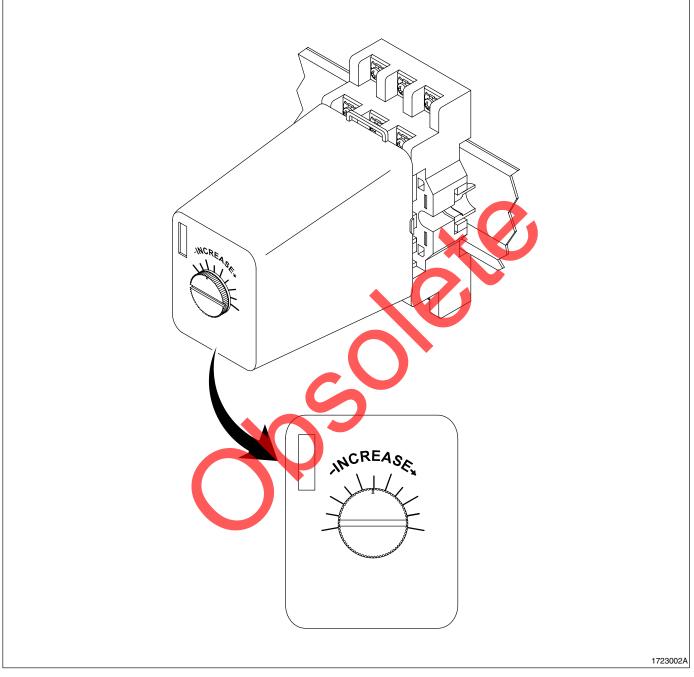


Fig. 3 Timer Adjustment

4. Parts See Figure 1.

Item	Part	Description	Quantity	Note
_	172 148	Service kit, pulse timer	1	
1	167 020	Socket, pulse timer	1	
2	167 018	Timer, pulse	1	
3	160 038	 Relay, retaining, spring, 4PDT, IDEC 	2	
4	160 036	 Relay, RPDT, 24 vdc, coil, IDEC 	2	
5	160 039	 Relay, socket, 4PDT, DIN, IDEC 	2	

5. Specifications	These are the specifications for the Extended Watchdog timer:		
Voltage	24 Vdc		
Pulse Range	6.4 – 64 sec		
Pulse Width	150 msec		
Reset Time	100 msec		
Contact Material	Silver Cadmium Oxide (A _g CdO)		
Contact Rating	10 Amps 28 Vdc (resistive), 10 Amp 250 Vac		
	¹ / ₄ hp, 250 VA, 125 Vac (inductive)		
	¹ / ₄ hp, 240 VA, 250 Vac (inductive)		
<i>Operating Temperature Range</i>	-10 °C–40 °C (14 °F–104 °F)		

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