

Installation Instructions For Accessory Anti-Cycle Timer Kit **High and Standard Efficiency, Small Rooftop Units, Condensing Units, and** **Small Packaged Products** **2 to 12-1/2 Tons** **Part Number: NRTIMEGD001A00**

GENERAL

The accessory anti-cycle timer (Fig. 1) is used on constant volume units to prevent compressor from short cycling by providing a 5-minute delay (+/-2 minutes) before restarting a compressor after shutdown for any reason. One anti-cycle timer is required per compressor. On normal start-up, the 5-minute delay occurs before the thermostat closes. After the thermostat closes, the anti-cycle timer then has a 3-second delay prior to contactor closure. See Fig. 2.

The anti-cycle timer is shipped in single-pack units. Refer to Table 1 for accessory solid-state anti-cycle timer package contents.

TABLE 1

Accessory Compressor Hard Start Kit	
Contents	Qty.
Anti-Cycle Timer	1
No. 8 Screws	5
No. 10 Screws	2
Mounting Bracket	1
Brown Wire (24 in.)	1
Brown Wire (15 in.)	1
Brown Wire (15 in.)	1
Violet Wire (15 in.)	1
Blue Wire (15 in.)	1
Yellow Wire (15 in.)	1
Black Wire (15 in.)	1

SAFETY CONSIDERATIONS

Installation and servicing of air-conditioning equipment can be hazardous due to system pressures and electrical components. Only trained and qualified service personnel should install, repair, or service air-conditioning equipment.

When working on air-conditioning equipment, observe precautions in the literature, tags, and labels attached to the unit, and other safety precautions that may apply. Be sure that installation conforms to all applicable local and national codes.

⚠ WARNING

ELECTRICAL SHOCK OR EXPLOSION HAZARD

Failure to follow this warning could result in personal injury or death.

If gas unit, shut off gas supply before shutting off main power.

Before installing or servicing system, always turn off main power to system. There may be more than one disconnect switch.

Turn off accessory heater power switch if applicable. Electrical shock can cause serious injury or death. TAG DISCONNECT SWITCH(S) WITH A SUITABLE WARNING LABEL.

FIGURE 1 **Anti-Cycle Timer**

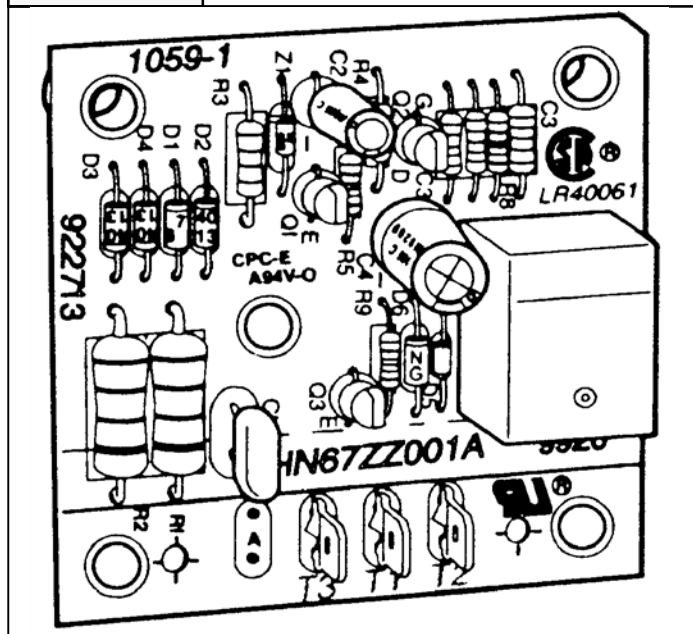
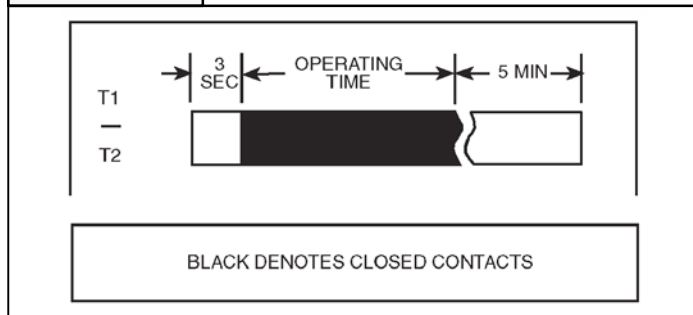


FIGURE 2 **Anti-Cycle Timer Sequence Chart**



INSTALLATION

1-1/2 to 5 Ton Small Packaged Products - Mount the anti-cycle timer control onto the mounting bracket with the no. 8 screws provided. See Fig. 3. Mount the control and mounting bracket into the control box using the no. 10 screws provided. See Fig. 4 for wiring units without safety device. See Fig. 5 for wiring units with safety device. Refer to specific unit wiring diagram for details.

3 to 12-1/2 Ton Small Rooftop Units - Mount the anti-cycle timer control in the 24-v control circuit. Choose any convenient location within the unit control box and use screws provided. See Fig. 6 for wiring. Refer to specific unit wiring diagram for details.

6 to 10 Ton Condensing Units - Mount the anti-cycle timer control in the 24-v control box. See Fig. 7. Choose any convenient location within the unit control box and use screws provided. See Fig. 8 for wiring. Refer to specific unit wiring diagram for details.

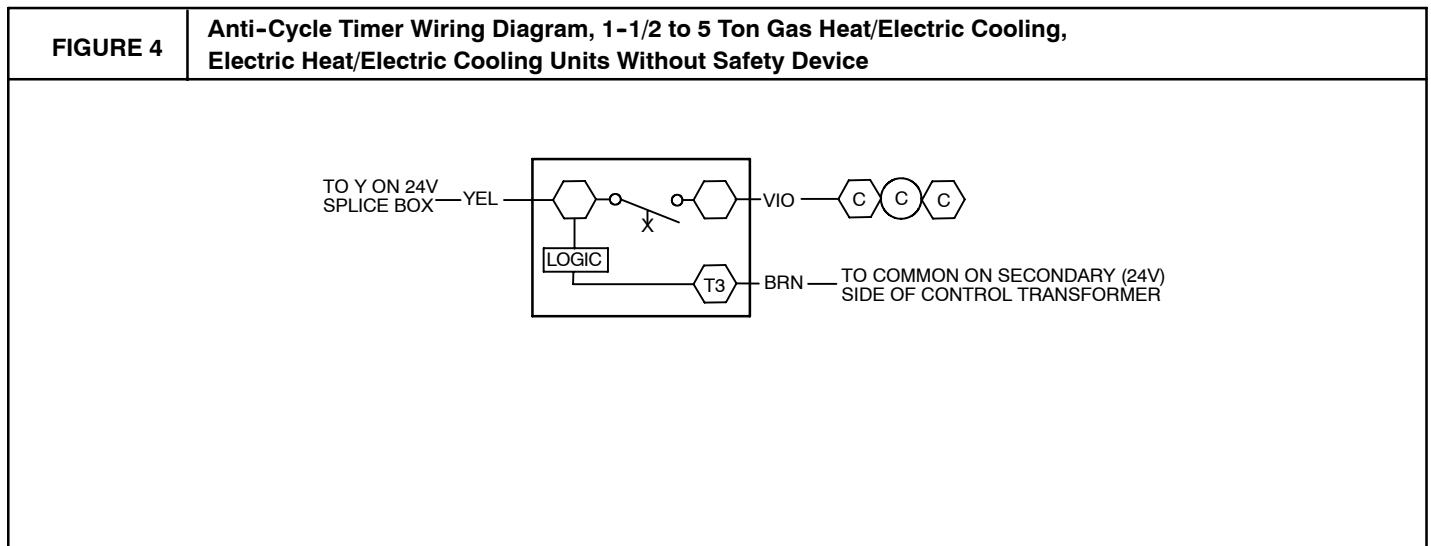
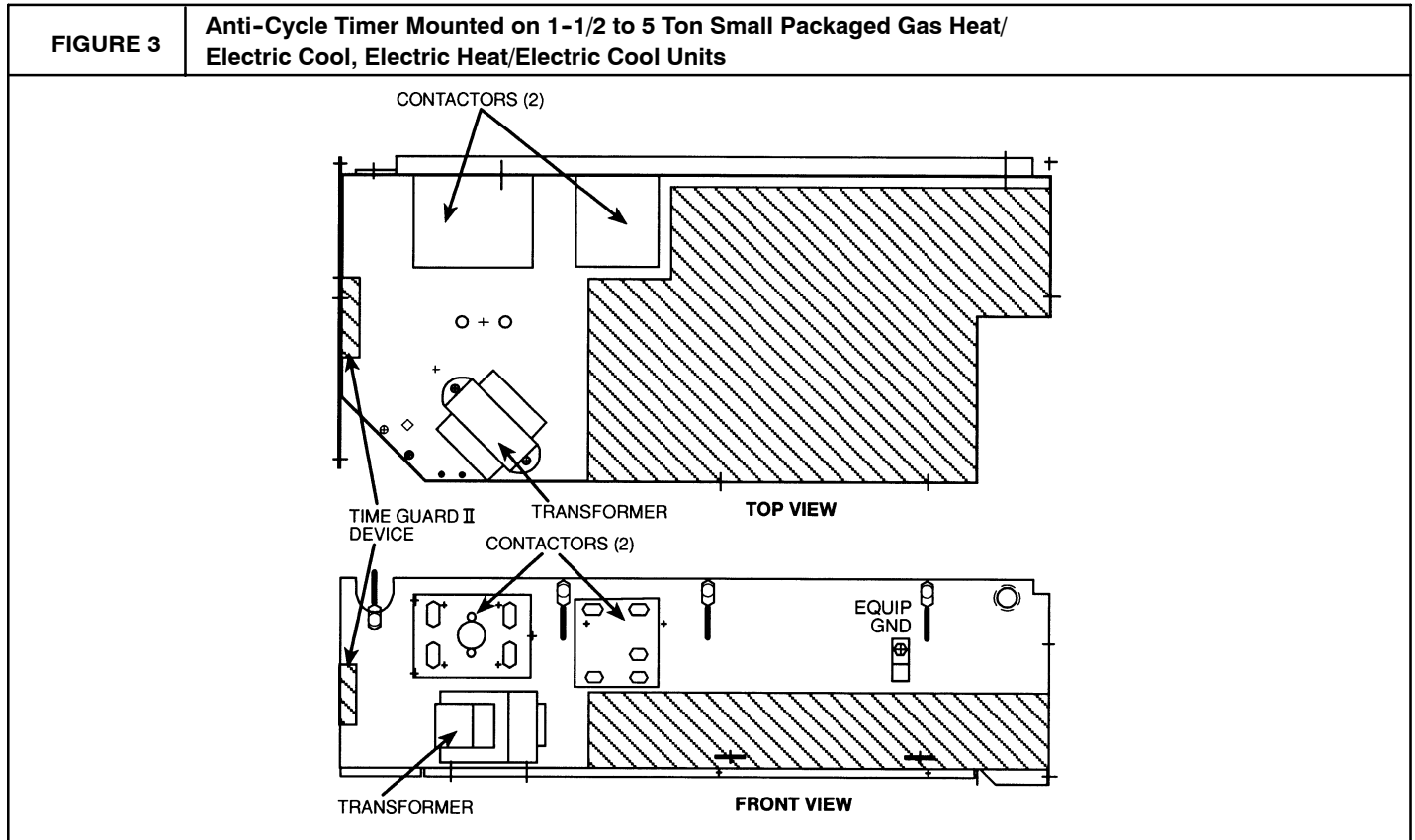


FIGURE 5

**Anti-Cycle Timer Wiring Diagram, 1-1/2 to 5 Ton Gas Heat/Electric Cooling,
Electric Heat/Electric Cooling Units With Safety Device(s)**

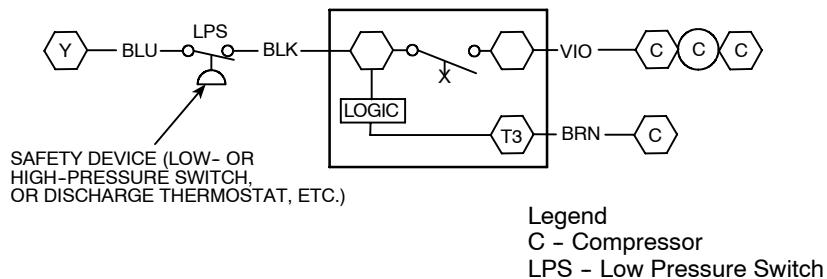


FIGURE 6

Wiring Connections, 3 to 12-1/2 Ton Small Rooftop Units

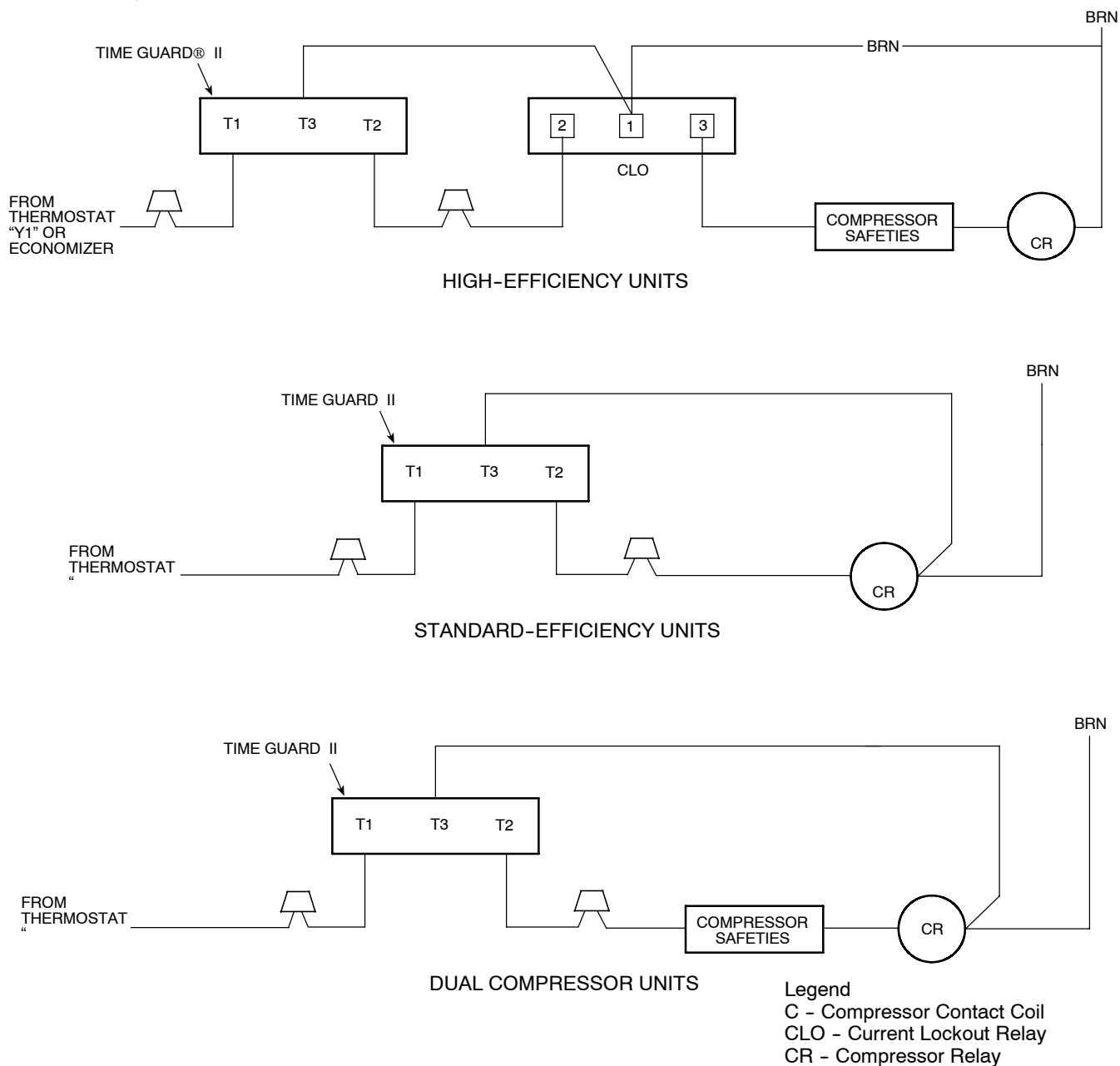


FIGURE 7 Anti-cycle Timer Mounted on 6 to 10 Ton Condensing Units

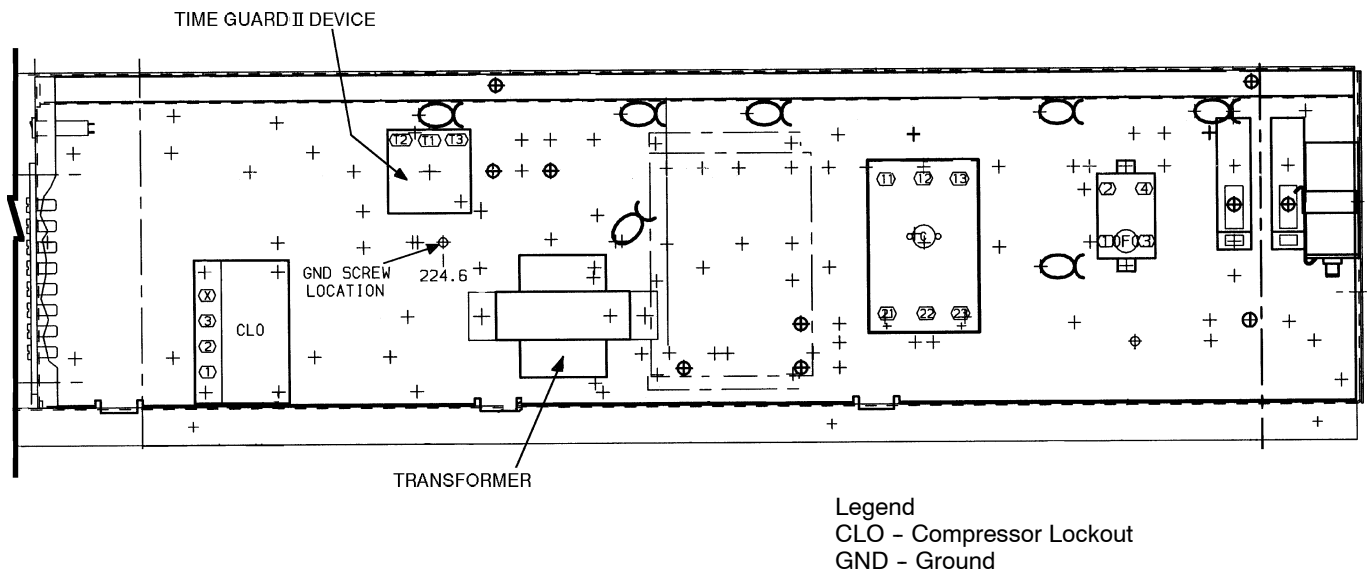


FIGURE 8 Wiring Connections, 6 to 10 Ton Condensing Units

