

IGNITION CONTROLLER REPLACEMENT KIT INSTALLATION FOR GAS-FIRED INDOOR HEATER

MODEL CAUA

⚠ DANGER ⚠

To ensure safe and proper operation, read and follow these installation instructions. Failure to do so could result in property damage, personal injury, and/or death.

- These instructions are for replacing an obsolete ignition controller (RAM #3MC4-06, serial number code 76 or J/C #G822KCC-5401D, serial number code 77) with an ignition controller (see **Figure 1**) replacement kit (PN 258251).
- Refer to the installation manual provided with the heater for important safety information.
- Refer to the replacement parts manual at www.reznorhvac.com for serial number information. All serial number codes apply to original equipment only.
- Ensure that all components listed in **Table 1** are available before beginning installation.

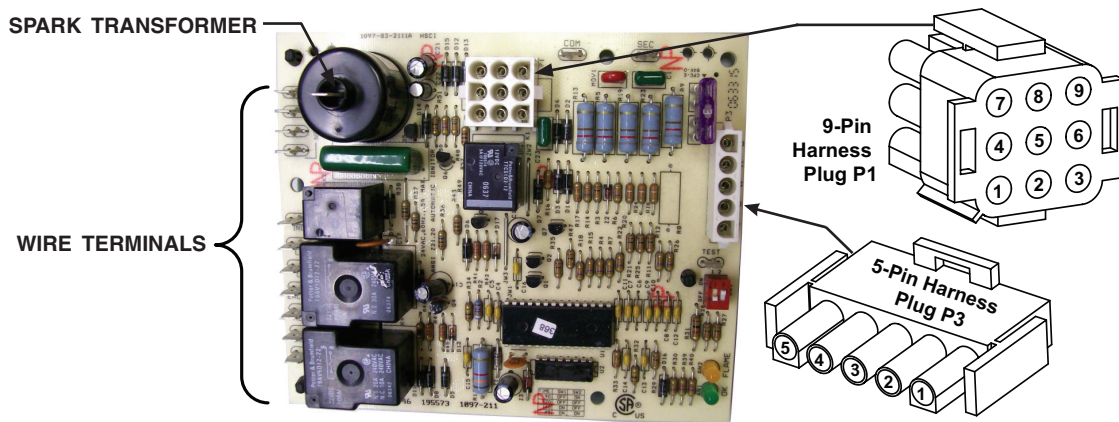


Figure 1. Replacement Ignition Controller

Table 1. Ignition Controller Replacement Kit (PN 258251) Components			
Item No.	Component	Description	PN (Quantity)
1	DSI control board	Heat only (UTEC #1097-211)	195573 (1)
2	Wire assembly	9-pin, P1 on wiring diagram	257666 (1)
3		5-pin, P3 on wiring diagram	257675 (1)
4		24-inch, red, with one terminal	129869 (1)
5	Template	Drill	257013 (1)
6	Ignition cable	18-inch	257665 (1)
7	Terminal	Quick connect, 1/4-inch, red	142860 (7)
8		Spade	1350 (1)
9	Wire nut	Crimp	22573 (2)
10	Tie	Cable	20913 (6)
11	Label	NOTICE	203058 (1)
12		Wiring diagram	258250 (1)

INSTALLATION

Install the ignition controller replacement kit as follows. Item numbers in parentheses refer to [Table 1](#).

1. Turn OFF gas and electric power.
2. Remove existing ignition controller:
 - a. Open control compartment and locate ignition controller.
 - b. Disconnect wiring and existing ignition cable from controller.
 - c. Remove four screws that secure controller and remove controller.
3. Install replacement ignition controller:
 - a. Position drill template (5), with painted side facing up, over mounting holes for ignition controller removed in step 2. Justify holes for replacement controller toward bottom of panel.
 - b. Mark and drill four 3/16-inch holes.
 - c. Position DSI control board (1) so that spark transformer is located nearest to spark electrode on burner. Snap control board into holes.
4. Install replacement ignition cable:
 - a. Remove existing ignition cable from spark electrode on burner.
 - b. Connect one end of replacement ignition cable (6) to spark electrode on burner and other end to spark transformer (see [Figure 1](#)) on replacement DSI control board (1).

NOTE: Refer to [Table 2](#) for terminal cross-reference between old and new ignition controllers.

Existing Controller	Replacement Controller
ACC	EAC/BLO
24 VAC HOT	SEC
Ground	COM
LINE VAC HOT	L1
CMB BLWR	IND

5. Connect wiring in accordance with replacement wiring diagram label (12, see [Figure 2](#)):
 - a. Connect P3 5-pin wire assembly (3) to thermostat terminal strip as shown in [Figure 1](#).
 - b. Connect P1 9-pin wire assembly (2) as shown in [Figure 1](#). As necessary, shorten wires and install replacement terminals (8).
 - c. Connect existing wires to DSI control board (1) wire terminals. If terminal on line voltage wire is 3/16 inch, cut off terminal, strip wire, and install quick connect terminal (7). Connect line voltage wire to terminal L1.
 - d. Connect one end of 24-inch red wire assembly (4) to rollout switch located on burner box top. Connect other end to high limit switch wire lead using wire nut (9).
 - e. Install cable ties (10) as necessary for routing and for excess wire length.

NOTE: To cover all applications, connections shown in [Figure 2](#) are for single-stage (AG1) and two-stage (AG2) controls and for both direct and belt drive motors. Make the connections that apply to the options on the unit being serviced.

6. Adhere wiring diagram label (12, see [Figure 2](#)) on left panel inside burner compartment.

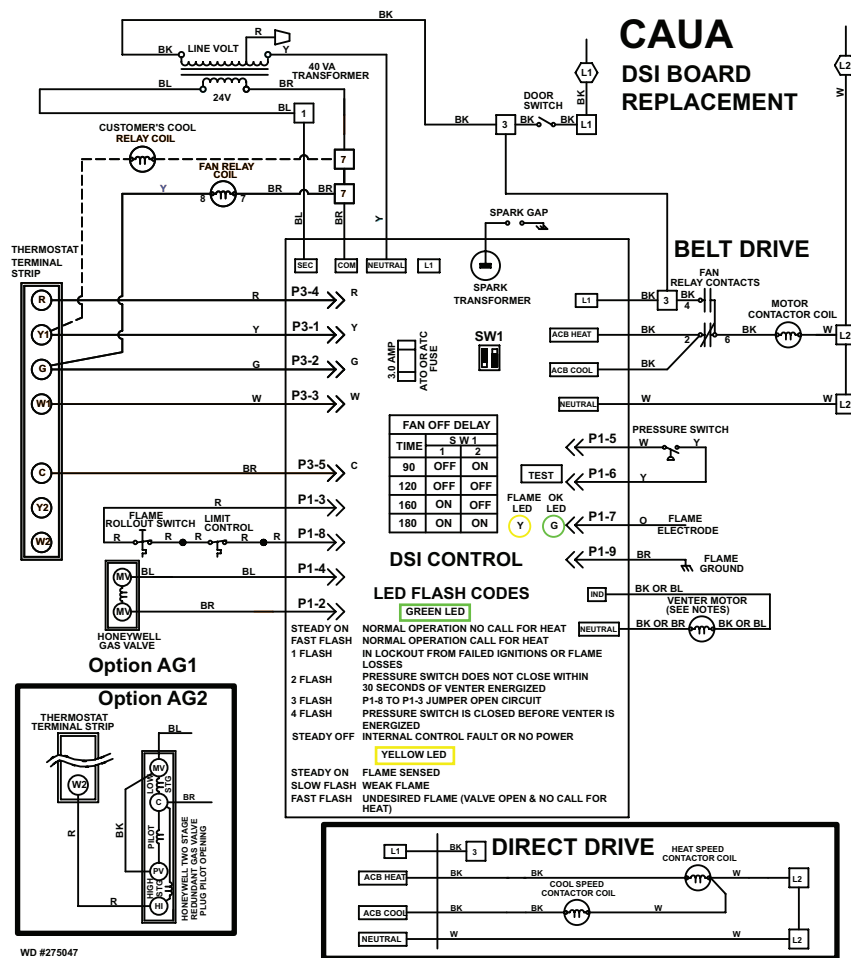


Figure 2. Wiring Diagram Label

7. Adhere NOTICE label (11, see Figure 3) below wiring diagram label installed in step 6.

NOTICE

BEFORE REPLACING CIRCUIT BOARD:

- Check Fuse on Circuit Board
- Check 24VAC Supply
- Check LED Flash Codes

Replacing circuit board will not correct problems that are external to the board.

203058 Rev. 1

Figure 3. NOTICE Label

8. Turn ON electric power and gas, start up heater, and check for proper operation.

NOTE: Refer to the installation manual at www.reznorhvac.com for operating sequence and troubleshooting information.

