

# Installation Instructions

# 1128701A Fenwal Ignition Control Conversion Kit

## Description

This kit contains a service replacement Fenwal Ignition Control (Amana Part # 10228902) that replaces ignition controls (Amana Part # D6830401, 02 and 10228901) that were used on some of the HTM (Heat Transfer Module) model furnaces (examples: EGHE\*DA3, EGHW\*DA3, EPCG\*D/E and ERGW\* models).



### WARNING

**To avoid death, personal injury or property damage due to electrical shock, disconnect the electrical power supply before servicing this unit.**

## Contents of the Fenwal Ignition Control Conversion Kit:

Quantity	Part #	Description
1	D6772784	Jumper Wire (BK-8)
1	D6772785	Jumper Wire (GY-9)
1	D6772786	Jumper Wire (BU-9)
1	D6772787	Jumper Wire (WH-29)
1	D6727788	Jumper Wire (OR-27)
1	D6727797	Jumper Wire (GY)
1	D6727790	Jumper Wire (BR-5)
1	10228902	Fenwal Ignition Control
1	10324602	Installation Instructions
1	10318602	Wiring Diagram



### WARNING

**Disconnect all power before servicing unit.**

## Installations Procedures

1. Set thermostat to off.
2. Disconnect electrical power.
3. Disconnect the existing Fenwal Ignition Control wiring harness from the ignition control and then remove the ignition control by removing the two mounting screws that hold the control to the control panel.
4. Temporarily mount the new Fenwal Ignition Control (Amana Part # 10228902) using one of the mounting screw removed in the previous step .
5. Mark the location of the second mounting screw. Remove the ignition control and drill the new mounting hole using 3/32" drill bit.
6. Mount the new Fenwal Control to the control panel using the two mounting screws removed in the previous steps.
7. Cut wires from the old control connector as close to the connector as possible. The wires should be cut and spliced one at a time to ease wire identification.



### CAUTION

**Be careful not to mix the gray S1 wire and the gray ground wire.**



## RECOGNIZE THIS SYMBOL AS A SAFETY PRECAUTION

### ATTENTION SERVICE PERSONNEL

As a professional servicer you have an obligation to know the product better than the customer. This includes all safety precautions and related items.

Prior to actual installation, thoroughly familiarize yourself with these instructions. Pay special attention to all safety warnings. Often during installation or repair it is possible to place yourself in a position which is more hazardous than when the unit is in operation.

Remember, it is your responsibility to install the product safely and to know it well enough to be able to instruct a customer in its safe use.

Safety is a matter of common sense...a matter of thinking before acting. Most dealers have a list of specific good safety practices...follow them.

The precautions listed in these instructions should not supersede existing practices but should be considered as supplemental information.

8. Strip the wire insulation back approximately 3/8" from wire ends and crimp on splice connector as indicated below. The MV1 (BR-5 Wire) and Ground (Gray Wire) both have 3/16" insulated terminals.
  - a. Connect GY-9 splice connector to GY-9 wire.
  - b. Connect BK-8 splice connector to BK-8 wire.
  - c. Connect WH-29 splice connector to WH-29 wire.
  - d. Connect BU-9 splice connector to BL-9 wire.
  - e. Connect OR-27 splice connector to OR-27 wire.
  - f. Connect BR-5 splice connector to BR-5 wire.
  - g. Connect Gray splice connector to Gray wire.

9. Next connect the wires to the replacement Fenwal Ignition Control (Amana Part # 10228902) as follows (Refer to the figure below.):
  - a. Connect GY-9 wire to S1 terminal.
  - b. Connect BK-8 wire to L1 (Line) terminal.

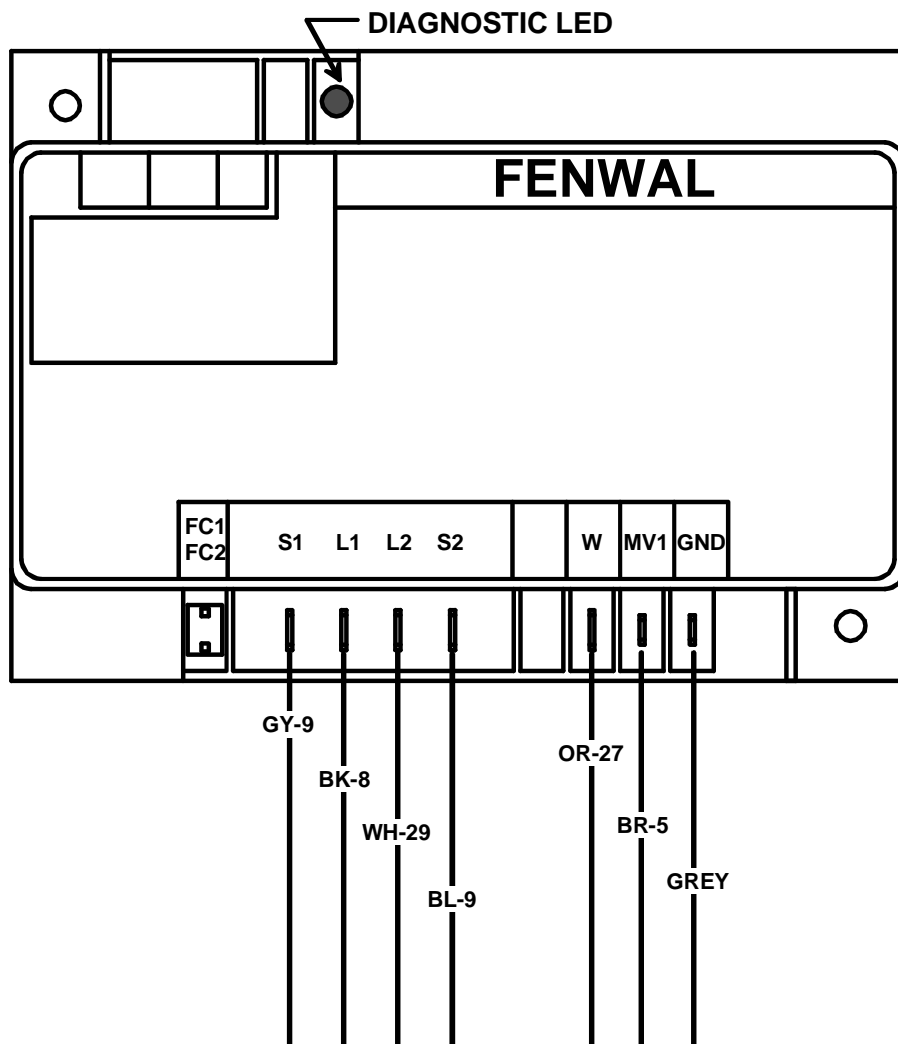
- c. Connect WH-29 wire to L2 (Neutral) terminal.
- d. Connect BL-9 wire to S2 terminal.
- e. Connect OR-27 wire to W terminal.
- f. Connect BR-5 wire to MV1 terminal.
- g. Connect Gray wire to Ground terminal.

10. Attach the replacement wiring diagram to the inside of the door panel next to the unit wiring diagram.

**Note:** This new ignition control has a diagnostic fault indicator LED. Refer to the following chart for the corresponding LED indicator and fault mode.

FUNCTION	LED CODE
Normal Operation	OFF
Internal Error	ON
Flame Sensed with Gas Valve De-energized	2 Flashes
Ignition Lockout	3 Flashes

11. Restore power to unit. Set the thermostat to call for each mode of operation.
12. Verify system is functioning correctly in cooling and heating mode of operation.



3/16" QUICK CONNECT  
(2 PLACES - MV1 & GROUND  
TERMINALS)

1/4" QUICK CONNECT  
(5 PLACES - S1, L1, L2, S2  
W TERMINALS )

FC1/FC2 IS  
FLAME CURRENT TEST  
PINS