

Diagnostic Fault Codes

Flashes	Fault Condition
Slow Green	Normal operation
Slow Amber	Normal operation with call for heat
Steady On Red	Control failure
Rapid Red	Twinning error, incorrect 24V phasing
Rapid Amber	Low flame sense current
1 Red	Flame present with gas off
2 Red	Pressure switch stuck closed
3 Red	Pressure switch stuck open
4 Red	Limit switch open
5 Red	Rollout switch open
6 Red	Pressure switch cycle lockout
7 Red	Ignition lockout due to retries
8 Red	Ignition lockout due to recycles
9 Red	Grounding or line polarity fault
10 Red	Gas flow with no call for heat
11 Red	Limit switch open - blower failure
4 Amber	Y present with no G call

Fault Code Retrieval

To retrieve fault codes, push and release the **LAST ERROR** button. The **LED** will flash up to five stored fault codes, beginning with the most recent. If there are no fault codes in memory, the **LED** will flash two green flashes.

To clear the fault code memory, push and hold the **LAST ERROR** button for at least five seconds. The **LED** will flash three green flashes when the memory has been cleared.

Codes de diagnostic de troubles

Clignotements	Condition de trouble
Vert lent	Opération normale
Ambre lent	Opération normale avec demande de chauffage
Rouge constant	Trouble de contrôle
Rouge rapide	Erreur de jumelage, phase 24V incorrecte
Ambre rapide	Courant du capteur de flamme basse
1 Rouge	Flamme présente et gaz éteint
2 Rouge	Commutateur de pression gelé et fermé
3 Rouge	Commutateur de pression gelé et ouvert
4 Rouge	Commutateur de limite ouvert
5 Rouge	Commutateur de roulement
6 Rouge	Arrêt force du commutateur de pression
7 Rouge	Arrêt force de l'ignition dû aux démarrages répétitifs
8 Rouge	Arrêt force de l'ignition dû au recyclages
9 Rouge	Trouble de mise en terre ou le polarité de ligne
10 Rouge	Débit de gaz sans demande en chauffage
11 Rouge	Commutateur de limite ouvert - Panne de la soufflerie
4 Ambre	Y présent sans demande à G

Repérer les Codes de Troubles

Pour repérer les codes de troubles, enfoncez et relâchez le bouton **LAST ERROR**. L'**ECL** clignotera jusqu'à 5 codes de troubles mémorisés, à partir du plus récent. S'il n'y a pas de codes en mémoire, l'**ECL** clignotera vert deux fois.

Pour vider la mémoire des codes de troubles, enfoncez et relâchez le bouton **LAST ERROR** durant au moins 5 secondes. L'**ECL** clignotera vert trois fois lorsque la mémoire sera vide.

ACCESSORY KIT INSTALLATION INSTRUCTIONS

RETROFIT OF 23IF-2 (2702-310PIA) WITH (031-01972-000) FOR KIT NUMBER 43101972100

APPLICATION

This kit is used to install control board 031-01972-000 on older gas furnaces which do not have the 12 and 6 pin harnesses.

CONTENTS

- 4 pin to 6 pin adapter harness (1)
- 9 pin to 12 pin adapter harness (1)
- 15"-18 gauge red wire (1)
- Installation instructions
- Furnace control board (1)

INSTALLATION

1. Remove all existing connections from the 23IF-2 (2702-310P/A) and then remove control.
2. Install (031-01972-000), furnace control board.
3. Reconnect all thermostat, fan L1, XFMR, EAC, HUM and Neutral connections to (031-01972-000).
4. Connect 12 pin to 9 pin adapter harness.
5. Connect 4 pin to 6 pin adapter harness.
6. Connect transformer secondary connections to the two gray loose leads from the 12 pin adapter harness.
7. Disconnect red wire from high limit switch that runs to the right side rollout switch.
8. Route red loose lead from 12 pin adapter harness through the control box hole and along the wiring harness up to the burner assembly area. Connect this wire to the wire removed from the high limit in Step 7. This separates the series connection of the rollouts from the high limit since they are read separately in the (031-01972-000).
9. Remove all of the connections to the pressure switch.
10. Install single red wire from adapter kit between open connection of the pressure switch and open connection of the high limit.
11. Reconnect pressure switch wire disconnected in Step 9 to piggy-back terminal of red adapter wire connected in Step 10.
12. Power-up furnace to initiate a call for heat.
13. If furnace repeatedly cycles the inducer off and on and intermittently flashes an error code 4, swap the pressure switch wire connected to the piggy-back terminal with the other pressure switch wire. This should allow the furnace to continue the ignition process.
14. Check all other operations of the furnace to ensure the integrity of the control installation.

BGU WIRING

