

SERVICE INSTALLER'S GUIDE

18-CH49D1-1

ALL phases of this installation must comply with
NATIONAL, STATE AND LOCAL CODES

Models:
IGN00117

SiNi Igniter Assembly: IGN00117

IMPORTANT—This document is customer property and is to remain with this unit.
Please return to service information pack upon completion of work.

SiNi Igniter Assembly: IGN00117
Drawing no. A341990P01

⚠ WARNING

Disconnect power to the unit before removing the blower door. Failure to follow this warning could result in personal injury from moving parts.

⚠ WARNING

The cabinet must have an uninterrupted or unbroken ground according to National Electrical Code, ANSI/NFPA 70 - "latest edition" and Canadian Electrical Code, CSA C22.1 or local codes to minimize personal injury if an electrical fault should occur. A failure to follow this warning could result in an electrical shock, fire, injury, or death.

REMOVING THE EXISTING IGNITER:

- A) Turn the thermostat to the off position.
- B) Disconnect all electric power and shut off the gas supply to the furnace.
- C) Remove the burner assembly and blower door.
- D) Remove the direct vent cover from the direct vent box, if applicable.

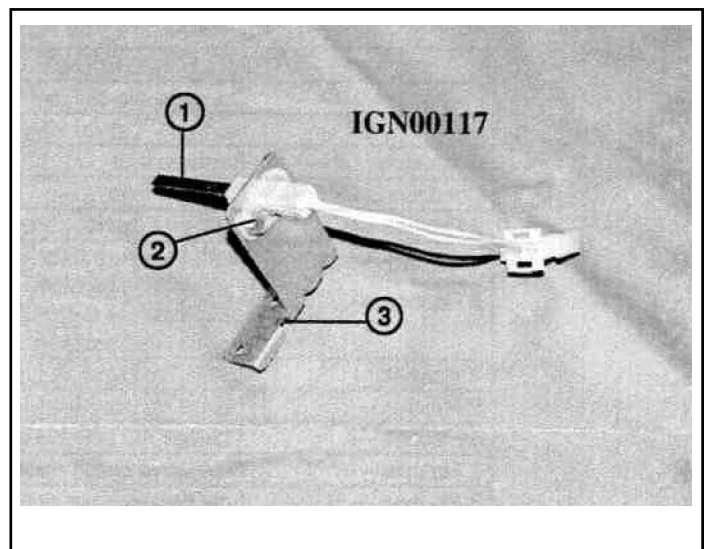
⚠ WARNING

Do not touch igniter. It is extremely hot. Failure to follow this warning could result in severe burns.

- E) Disconnect the igniter wire harness from the igniter and remove the igniter bracket from the burner assembly. Discard the igniter and bracket.

⚠ CAUTION

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.



INSTALLING THE NEW SiNi IGNITER:

- A) Attach the silicon nitride igniter (item#1) to the new igniter bracket (item #3) with the screw provided (item #2, #8-15x.375").
- B) Install the new igniter bracket assembly to the burner assembly.
- C) Attach the igniter harness to the igniter.
- D) Install the direct vent cover to the direct vent box, if applicable.
- E) Install the burner & blower door.
- F) Reconnect all electrical power and turn on the gas supply to the unit.

G) VERIFICATION OF PROPER OPERATION:

- 1.) Place the thermostat in the heating mode.
- 2.) Initiate a call for heat by raising the thermostat setting 5 degrees above the room temperature.

- 3.) Observe the furnace: If properly wired, the following star-up sequence should be observed:
- The red LED on the IFC should start a fast flash sequence.
 - The draft inducer should energize, then the ignitor should start to glow.
 - After the ignitor heat up time has expired, the gas valve should be energized - listen for the "click", the gas will then ignite.
 - After 45 seconds the main blower will turn on.

When proper operation has been verified, set the thermostat back to the desired comfort set point.

⚠ CAUTION

The integrated furnace control is polarity sensitive. The hot leg of the 115 VAC power must be connected to the BLACK field lead.

SiNi - IFC ERROR CODES

INTEGRATED FURNACE CONTROL ERROR FLASH CODES	
Flashing Slow ---	Normal - No call for Heat
Flashing Fast ---	Normal - Call for Heat
Continuous ON ---	Replace IFC
Continuous OFF ---	Check Power
2 Flashes ---	System Lockout (Retries or Recycles exceeded)
3 Flashes ---	Draft Pressure Error - Possible problems: a) Venting problem b) Pressure switch problem c) Inducer problem
4 Flashes ---	Open Temperature Limit Circuit
5 Flashes ---	Flame sensed when no flame should be present
6 Flashes ---	115 volt AC power reversed, poor grounding or system voltage too low
7 Flashes ---	Gas valve circuit error
8 Flashes ---	Low flame sense signal
9 Flashes ---	Check Ignitor Circuit and Line "N" to 24VAC "Common" voltage (≤ 2 volts) [possible grounding problem]

Trane
6200 Troup Highway
Tyler, TX 75707
www.trane.com

For more information contact
your local dealer (distributor)
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Since the manufacturer has a policy of continuous product and product data improvement, it reserves the right to change design and specifications without notice.