

SERVICE INSTALLER'S GUIDE

18-CH60D1-3

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

Models:	*DH2B080A9V3V**	*UY120R9V5**
*UH2B060A9V3V**	*DH2C100A9V4V**	*DY060R9V3**
*UH2B080A9V3V**	*DH2D120A9V5V**	*DY080R9V3**
*UH2C100A9V4V**	*UY060R9V3**	*DY100R9V4**
*UH2D120A9V5V**	*UY080R9V3**	*DY120R9V5**
*DH2B060A9V3V**	*UY100R9V4**	

KIT 15816

* May be "A" or "T"
** May be "A" - "Z"

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

Assembly Drawing No. D343813G03,
KIT COMPONENTS — APPLICATION:

Item No.	Drawing No.	Description	Qty
1	D156805P01	SILICON NITRIDE IGNITER (SiNi)	1
2	D343723P01	HARNESS-ADAPTER	1
3	D343687P03	IFC	1
4	A344306P01	MNEMONIC LABEL	1
5	D344303P04	WIRING DIAGRAM-UH2	1
6	D344304P04	WIRING DIAGRAM-DH2	1
7	N156P1506B	SCR 8-18 AB HXW 3/8 S	3
8	A138030P01	TIE-CABLE	4
9	A341948P02	IGNITER BRACKET	1

Use these instructions when replacing the following Integrated Furnace Controls (IFC):

White-Rodgers Dwg. No.	Trane Dwg. No.	Replacement Part No.	Description
50V64-495-03	D342263P01	CNT04678	SiNi
50V64-495-03	D342263P02	CNT04985	SiNi
50V64-507-90B1	D342263P03/04	CNT05160	SiNi

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.

WARNING

This product can expose you to chemicals including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

REMOVING THE EXISTING CONTROL AND IGNITER:

- Turn the thermostat to the off position.
- Disconnect all electric power and shut off the gas supply to the furnace.
- Remove the burner and blower door.
- 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.

- Disconnect the igniter wire harness from the silicon carbide 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.

- Disconnect all the wires from the IFC.

INSTALLING THE NEW SiNi IGNITER:

- Remove the igniter from the igniter bracket.
- Install the igniter (item 1) to the igniter bracket (item 9) using the screw provided in the kit (item 7).
- Install the igniter assembly to the burner bracket using the screws provided in the kit (item 7).
- Attach the harness adapter (item 2) to the SiNi igniter and existing wire plug.
- Secure the harness wiring with the cable ties provided in the kit (item 8).

INSTALLING THE NEW SiNi CONTROL:

- A) Attach the door switch to the platform.
- B) Attach the platform to the unit.
- C) Reconnect the wires to the IFC. Refer to the wiring diagram on the blower door for proper connection of wires.
- D) Reinstall the direct vent cover, burner, and blower doors.
- E) Reconnect all electric power and turn on the gas supply to the unit.

CAUTION

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

Integrated Furnace Control Error Flash Codes		
Green LED Flash	Red LED Flash	ERROR - (LitePort™ DATA)
	1	NORMAL OPERATION - Flash every 20 seconds
	2	RETRIES OR RECYCLES EXCEEDED
	3	INDUCER OR PRESSURE SWITCH ERROR
	4	OPEN LIMIT OR ROLLOUT SWITCH
	5	FLAME SENSED WHEN NO FLAME SHOULD BE PRESENT
	6	LINE REVERSE
	7	GAS VALVE CIRCUIT ERROR
	8	WEAK FLAME
	9	OPEN INDUCER LIMIT ERROR
Slow Flash		NORMAL, NO CALL FOR HEAT
Fast Flash		NORMAL, CALL FOR HEAT PRESENT
Continuous	Continuous	FUSE OPEN OR INTERNAL CONTROL FAILURE

VERIFICATION OF PROPER OPERATION:

- A) Place the thermostat in the heating mode.
- B) Initiate a call for heat by raising the thermostat setting 5 degrees above the room temperature.
- C) Observe the furnace: If properly wired, the following star-up sequence should be observed:
 - The draft inducer should energize, then the igniter should start to glow.
 - After the igniter 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.

- D) Sign and attach the mnemonic label (item 4) to the front of the blower door.
- E) Attach wiring diagram D344303P04 for upflow furnace models or D344304P04 for downflow furnace models to the inside of the blower door.