SERVICE INSTALLER'S GUIDE

18-CH76D1-1A-EN

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

Models:

***UD2B060ACV32A**
***UD2B080ACV32A**
***UD2C080ACV42A**
***UD2B100ACV32A**
***UD2C100ACV52A**
***UD2D120ACV52A**
***UD2D140ACV52A**

***DD2B060ACV32A**
***DD2B080ACV32A**
***DD2C100ACV52A**
***DD2D120ACV52A**

*** May be "A" or "T"**

KIT 17399

80 Volt Igniter Conversion to 120 Volt Igniter

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. D343813G06,
KIT COMPONENTS — APPLICATION:

Item No.	Drawing No.	Description	Qty
1	D156805P01	SILICON NITRIDE IGNITER (SiNi)	1
2	D343723P01	HARNESS-ADAPTER	1
3	D158119P01	IFC	1
4	D345548P01	MNEMONIC LABEL	1
5	D343393G03	WIRING DIAGRAM UD2-ACV	1
6	D343393G04	WIRING DIAGRAM DD2-ACV	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 Control (IFC):

White-Rodgers Dwg. No.	Trane Dwg. No.	Replacement Part No.	Description
50C68	D343387P01	CNT05141 CNT06568 CNT06670	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.

REMOVING THE EXISTING CONTROL AND 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 and blower door.

⚠ WARNING

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

D) Disconnect the igniter wire harness from the silicon nitride igniter and remove the igniter bracket from the burner assembly. Discard the igniter and bracket.

E) Disconnect all the wires from the IFC.

⚠ 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) Install the igniter (item 1) to the igniter bracket (item 9) using the screw provided in the kit (item 7).

B) Install the igniter assembly to the burner bracket using the screws provided in the kit (item 7).

C) Attach the harness adapter (item 2) to the SiNi igniter and existing wire plug.

D) Secure the harness wiring with the cable ties provided in the kit (item 8).

INSTALLING THE NEW SiNi CONTROL:

A) Reconnect the wires to the IFC. Refer to the wiring diagram on the blower door for proper connection of wires.

B) Reinstall the burner and blower doors.

C) 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 Diagnostic Codes		
Green LED Flash	**Red LED Flash**	**ERROR - (LitePort™ DATA)**
	1	NORMAL OPERATION - Flash every 20 seconds
	2	SYSTEM LOCKOUT RETRIES OR RECYCLES EXCEEDED
	3	PRESSURE SWITCH FAULT
	4	OPEN LIMIT SWITCH
	5	FLAME SENSED WHEN NO FLAME SHOULD BE PRESENT
	6	115 VOLT AC POWER REVERSED OR IGNITER FAULT
	7	GAS VALVE CIRCUIT ERROR
	8	LOW FLAME SENSE SIGNAL
	9	OPEN INDUCER LIMIT
	10	COMMUNICATION FAULT
	Continuous On	INTERNAL CONTROL FAILURE
Slow Flash		NORMAL, NO CALL FOR HEAT
Fast Flash		NORMAL, CALL FOR HEAT PRESENT
Continuous On	Continuous On	INTERNAL CONTROL FAILURE
Continuous Off	Continuous Off	FUSE OPEN

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 start-up sequence should be observed:

- The draft inducer should energize, then the igniter should start to glow.

- After the igniter heat up time has expored, 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 D343393G03 for upflow furnace models or D343393G04 for downflow furnace models to the inside of the blower door.

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