

SERVICE INSTALLER'S GUIDE

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

UNIVERSAL REPLACEMENT IFC

Model: **CNT03606**

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

UNIVERSAL REPLACEMENT IFC: CNT03606

Trane Drawing no. D341235P02,
White Rodgers Part No.: 50A55-480
Description : SiC / Bareboard with cover

INSTRUCTIONS:

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

White Rodgers Part No.	Trane Drawing No.	Description	Replacement Part No.
50A50-474	D330934P01	SiC / white box	CNT02183
50A50-473	D330930P01	SiC / white box	CNT02182
50A50-571	D330927P01	SiC / gray box	CNT02181
50A55-474	D341235P01	SiC / bareboard	CNT02891
50A55-571	D341122P01	SiC / bareboard	CNT02789

⚠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

⚠CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

REMOVAL:

- Turn the thermostat to the off position.
- Disconnect all electrical power and shut off the gas supply to the furnace.

- Remove the burner assembly and blower door.
- Disconnect all the wires from the IFC and remove the IFC from 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.

INSTALLATION:

- Attach the IFC to the platform using self tapping screws (#8-18x1") or plastic standoffs.
- Reconnect the wires to the IFC. Additional jumper wires are included in the kit if the original wires do not reach the IFC. Refer to the wiring diagram on the blower door for proper connection of the wires.
- Install the burner and blower doors.
- Reconnect all electrical power and turn on the gas supply to the unit.
- Verify proper operation after servicing.
- Turn the thermostat to the on position.
- Initiate a call for heat by placing the thermostat in the heating mode and raising the thermostat heating setpoint 5 degrees above the room temperature.
- Observe the furnace: If properly wired, a normal start-up sequence should be observed:
 - The red LED on the IFC should start a fast flash sequence.
 - 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.
 - After successful operation, set the thermostat back to the proper set point.
- Refer to the integrated furnace control error flash codes to resolve furnace related issues: (See Page 2).

SiC - 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