

Item # 1040405R, 1040411R and 1040328R (Core Blower Replacement Assy & Components)  
Serial #: 406209880017692 NCC to present

**THIS PROCEDURE MUST BE PERFORMED BY A QUALIFIED TECHNICIAN**

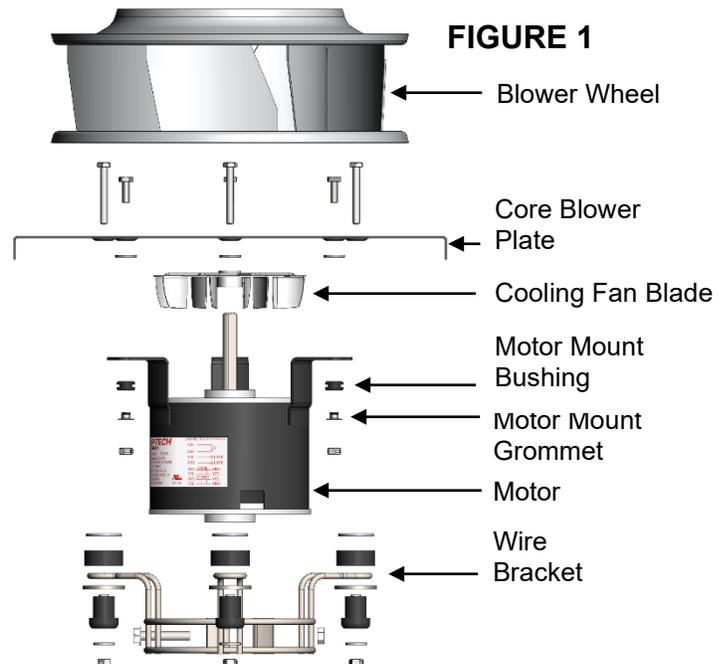
## KIT INCLUDES

### Replacement Motor Kit (1040405R) Includes:

- 16-24 QD Female Terminal
- 16-24 Q/D Male Terminal
- 1/4 HP Motor 1700 RPM
- Metal Motor Mount Grommets
- 4" Tie Wrap
- Capacitor 3 mfd
- Capacitor Boot
- Capacitor Bracket

### Replacement Wheel Kit (1040411R) Includes:

- Blower Wheel (untrimmed)



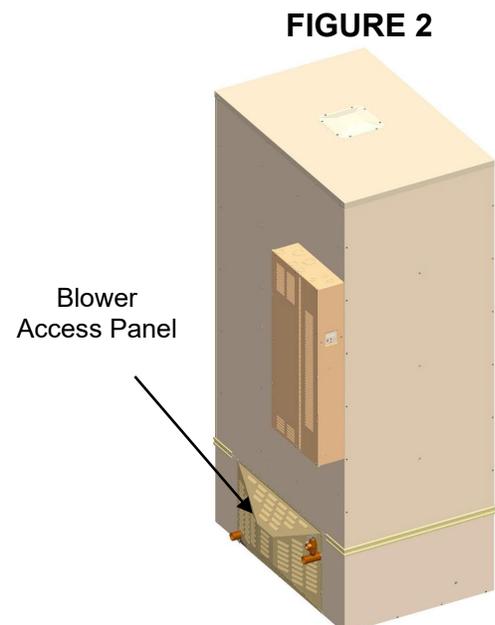
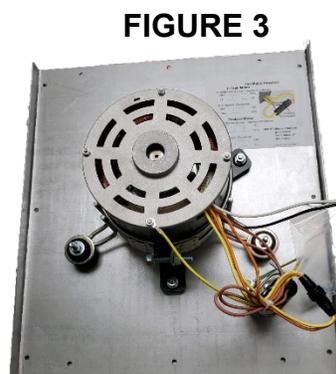
## INSTALLATION



**WARNING**

**HAZARDOUS VOLTAGE: Risk of electric shock. Can cause injury or death. System may be connected to more than one branch circuit. Disconnect power to all circuits before servicing. Equipment must be installed and serviced by a qualified technician.**

1. De-energize the system.
2. Remove the fasteners securing the blower access panel (Figure 2) to the system and set panel to the side.
3. Locate the core blower wiring and disconnect the black and white motor wires from the two blue wires.
4. Remove the screws securing the core blower panel assembly (Figure 3), lift the plate from the bottom to clear the screw heads below. Lower assembly and carefully pull outwards from the bottom to remove.



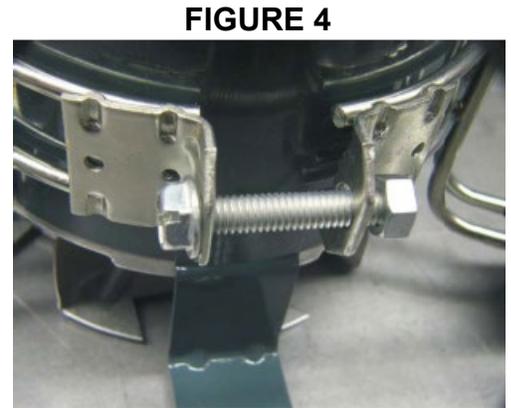
**Core Blower Replacement Procedure continued...**

**NOTE: Use Table 1 to determine steps required for needed replacement.**

5. Disassemble core blower assembly:
  - a. Loosen the set screw on the blower wheel.
  - b. Slide the blower wheel off motor shaft.
  - c. Remove the two (2) brown wires from the capacitor and remove the mounting screw along with the green ground wire. Place the capacitor aside.
  - d. Loosen the bolt on the wire bracket that holds it to the motor (Figure 4).
  - e. Remove the three (3) long bolts securing the wire bracket to the core blower plate.
  - f. Remove the three (3) short bolts securing the motor to the core blower plate and remove plate.
  - g. Using an 1/8" Hex wrench, loosen the set screw on the cooling fan blade and slide it off the motor shaft.

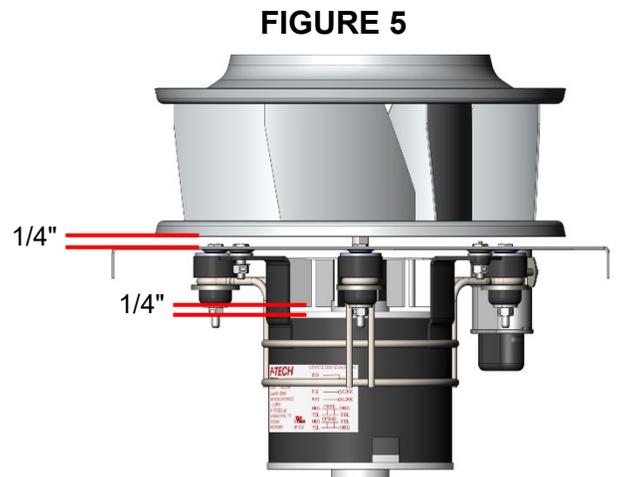
<b>Component Replacement</b>	<b>Disassembly Steps</b>	<b>Reassembly Steps</b>
Blower Wheel	5a - 5b	6l - 6m
Motor Assembly	5a - 5g	6a - 6n

6. Reassemble core blower assembly (Figure 1):
  - a. Slide the cooling fan blade onto the motor shaft with the fan blades towards the face of the motor ensuring the set screw is aligned with one of the flat faces of the shaft.



**FIGURE 4**

- b. Set required 1/4" spacing of the blade end to the motor face (Figure 5) and tighten the set screw to 70 in/lbs.
  - c. Place 1/4" flat washers on the motor mount bushings.
  - d. Position the core blower plate, countersinks facing the motor, on the motor mounting legs with the capacitor mounting hole aligned with the motor wiring. (Figure 3).
  - e. Reinstall the three (3) short bolts. Ensure the plate is adequately centered in respect to the motor shaft to not interfere with its rotation.
  - f. Install the metal motor mount grommets into the motor mount bushings.
  - g. Attach three (3) new lock nuts and tighten bolts until approximately 1/16" of the bolt threads are exposed through the nut. If tightened too much, the grommets are compressed and unable to absorb vibration.
  - h. Reinstall three (3) long bolts and position the wire bracket in place. Orientate as shown in Figure 3.



**FIGURE 5**

**NOTE: Ensure the wire bracket does not hang-up on the top edge of motor mounting legs.**

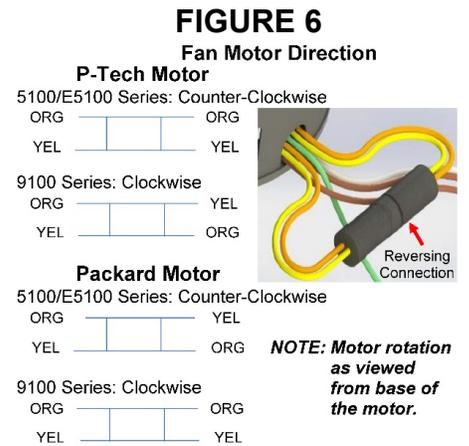
- i. Attach lock nuts and tighten. There should be 1/2" of exposed threads when properly tightened.
  - j. Tighten the bracket bolt (Figure 4) until the bracket ears start to bend toward each other.
  - k. Reconnect the brown wires to the capacitor. Secure the capacitor to the core blower plate ensuring green ground wire is secured with the mounting screw.
  - l. Slide the blower wheel onto the motor shaft ensuring the set screw is aligned with the two (2) flat faces of the shaft.
  - m. Set proper 1/4" spacing from core blower plate (Figure 5) and tighten set screw.

**NOTE: Blower wheel set screw should be tightened to 150-165 in/lbs.**

- n. Crimp the provided terminals onto the black and white wires.

**Core Blower Replacement Procedure continued...**

7. Reinstall core blower assembly. Secure in place using previously removed hardware.
8. Adhere the Fan Motor Direction label (Figure 6) on the panel center insert as shown in Figure 2.
9. Verify reversing connection is correctly selected for the motor installed.
10. Reconnect the two blue wires from the furnace to the black and white motor wires.
11. Energize system and check for proper operation:
  - a. Verify fan motor direction is correct.
  - b. Update/verify location settings as shown in Table 2.
12. Locate the blower access panel and remove the foam gasket material from the inside of the panel, if applicable.
13. Re-install blower access cover.



**TABLE 2**

Location	208V	240V
L028	5	1
L029	130	100
L095	190	120

**ACCESSING LOCATION VALUES**

**NOTE:** During the first few minutes of operation, access to location values 1 (L001) - 99 (L099) is allowed. If timer expires, access to the locations can be gained by powering the system off and back on.

**To edit or view location settings:**

**Step 1** Press and hold the **M** button. The faceplate should display “EdIt”.

**Step 2** While holding the **M** button and with “EdIt” displayed on the faceplate, press and hold the up-arrow button. Continue to hold both buttons simultaneously until “L000” is displayed.

**NOTE:** If the **M** button is released before the “L000” is displayed, start over from Step 1.

**Step 3** Release the buttons. The faceplate will flash between “L000” and the value in this location. The “L” indicates the “location” and the last three numbers indicate the specific location number. (For example: Location 91 reads “L091”.) Press the up arrow until the location to be edited is reached.

**Step 4** After reaching the location to be edited, press and hold the **M** button. Use the up or down arrow buttons to change the value in the location to the desired setting.

**Step 5** Release the **M** button. Press the down arrow button until “L000” is displayed. Then, press the down arrow button one more time. The normal display mode will be shown, and changes made will be saved.

**NOTE:** If no buttons are pressed for a brief amount of time, the faceplate automatically returns to its normal operating mode. Any changes made to the location settings are saved.