

Fan Replacement

(5, 7, 11, and 15-inch)

Contents

This document shows how to replace a 5, 7, 11, or 15-inch fan in a Bulletin 2300 unit.

What This Kit Contains

Using the table below, verify that you have received the appropriate items in your kit:

For this part:	You should receive this quantity:
Fan Motor (5, 7, or 11-inch)	1
<i>or</i>	
Fan Motor in Box (15-inch)	

Other Items Needed

Before you begin, be sure you also have the following:

- Tools needed for:
 - Loosening and securing screws (including small terminal screws)
 - Loosening and securing nuts and bolts
 - Measuring voltages

Safety Precautions

The following precautions apply when servicing fans in any drive system:



ATTENTION: Only those familiar with the drive system, the products used in the system, and the associated machinery should plan or implement the installation, startup, and future maintenance of the system. Failure to comply can result in personal injury and/or equipment damage.

ATTENTION: Verify that all sources of AC and DC power are deenergized and locked out or tagged out in accordance with the requirements of ANSI/NFPA 70E, Part II.

ATTENTION: The system may contain stored energy devices. To avoid the hazard of electrical shock, verify that all voltage on capacitors has been discharged before attempting to service, repair, or remove a drive system or its components. You should only attempt the procedures in this manual if you are qualified to do so and are familiar with solid-state control equipment and the safety procedures in publication NFPA 70E.

ATTENTION: When servicing any unit, do not drop any nuts, bolts, washers, etc. inside the unit, as they may cause a short circuit on power up.

ATTENTION: This drive system contains ESD (Electrostatic Discharge) sensitive parts and assemblies. Static control precautions are required when installing, testing, or repairing this assembly. Component damage can result if ESD control procedures are not followed. If you are not familiar with static control procedures, refer to Rockwell Automation publication 8000-4.5.2, *Guarding Against Electrostatic Damage* or any other applicable ESD protection handbook.

Special Instructions

Important: You will need to reuse parts that are removed from the unit. Place parts, in the order removed, on a clean surface.

Preliminary Steps

Before replacing any fans, shut off all power to the unit and wait for all voltage to discharge. Refer to the appropriate instructions to replace your fan.

Replacing 5 and 7-inch Fans

- Using a meter, verify that there is no voltage remaining in the unit. Check for voltage across the fan terminal block.



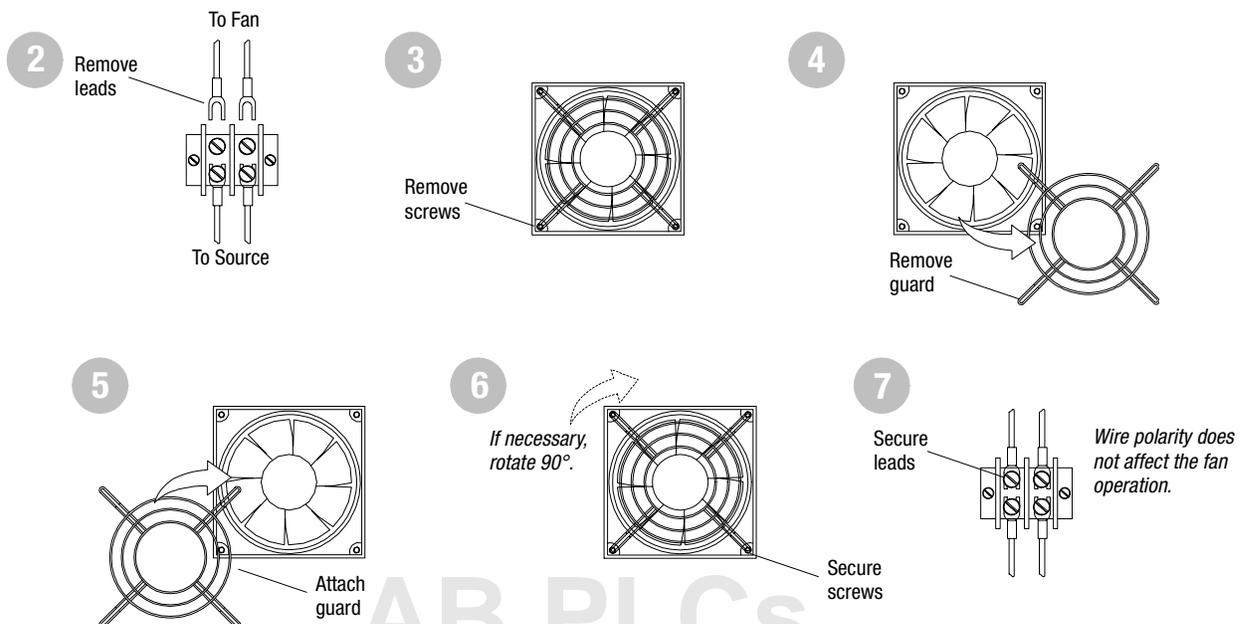
ATTENTION: If there is any voltage present, remove the source of the voltage and check for voltages again before proceeding to the next step.

- Disconnect the fan power leads from the terminal block (as shown in Figure 1, step 2).

Important: Note the direction and orientation of the existing fan (intake or exhaust). The new fan will need to be installed in the same fashion.

- Remove the four mounting screws that secure the fan and pull the fan out.
- Remove the guard from the fan.
- Place the guard onto the new fan.
- Secure the new fan into place with the four mounting screws. The fan should have the same direction and orientation as the old fan.
- Connect the fan power leads to the terminal block (see Figure 1, step 7).

Figure 1
Replacing 5 and 7-inch Fans



Replacing 11-inch Fans

1. Using a meter, verify that there is no voltage remaining in the unit. Check for voltage across the fan terminal block.



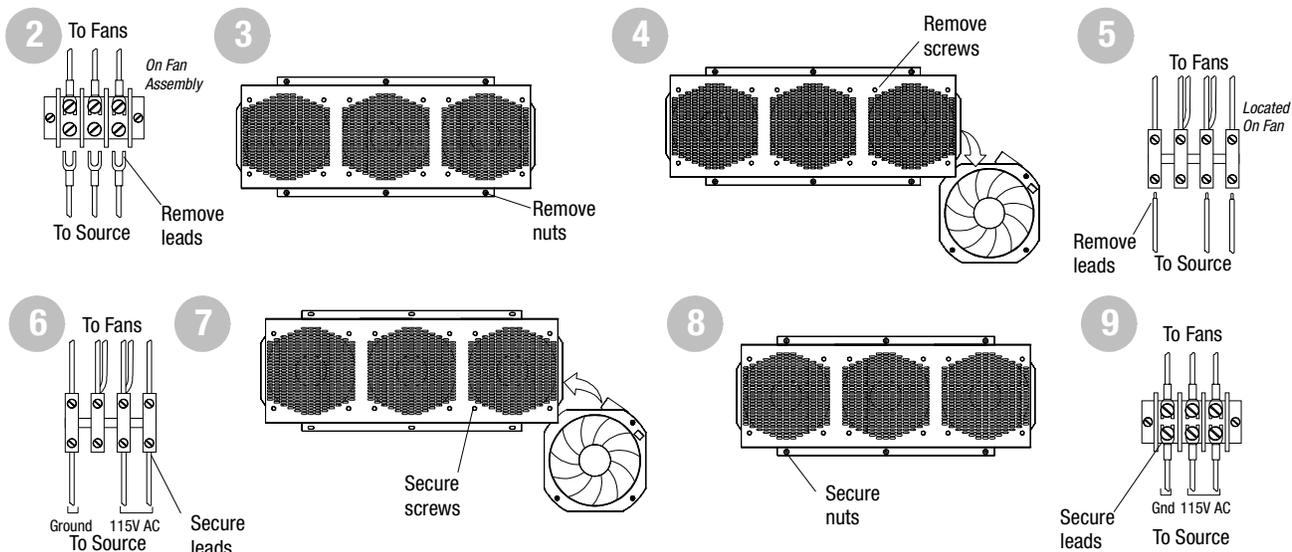
ATTENTION: If there is any voltage present, remove the source of the voltage and check for voltages again before proceeding to the next step.

2. Disconnect the source power leads from the terminal block (as shown in Figure 2, step 2).

Important: Note the direction and orientation of the existing fan (intake or exhaust). The new fan will need to be installed in the same fashion.

3. Remove the six nuts from the fan assembly and pull the assembly out.
4. Remove the four mounting screws from the fan to be replaced.
5. Disconnect the source power leads from the terminal block on the fan (as shown in Figure 2, step 5) and pull the fan out.
6. Connect the source power leads to the terminal block on the new fan (see Figure 2, step 6). The fan should have the same direction and orientation as the old fan.
7. Secure the new fan into place with the four mounting screws.
8. Secure the fan assembly to door with the six mounting nuts.
9. Connect the power leads to the terminal block (see Figure 2, step 9).

Figure 2
Replacing 11-inch Fans



Wire polarity of the 115V AC wiring does not affect the fan operation. However, the ground wire must be connected to ground.

Replacing 15-inch Fans

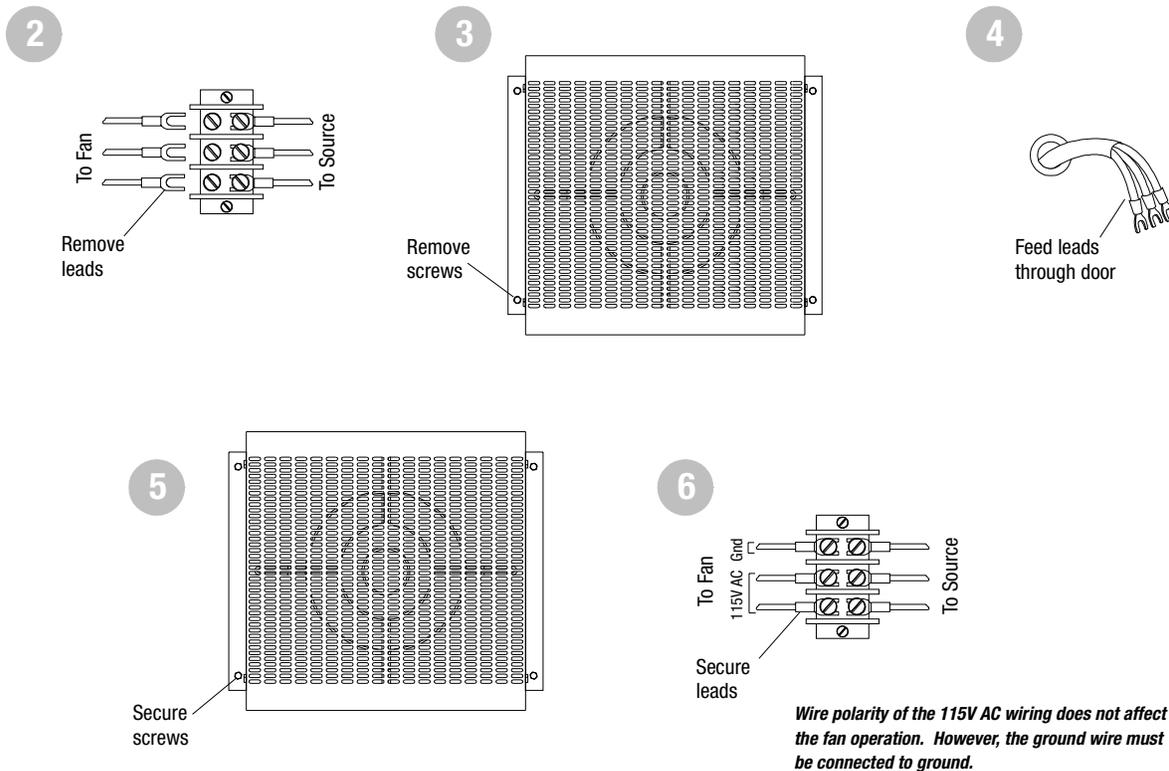
- Using a meter, verify that there is no voltage remaining in the unit. Check for voltage across the fan terminal block.



ATTENTION: If there is any voltage present, remove the source of the voltage and check for voltages again before proceeding to the next step.

- Disconnect the fan power leads from the terminal block (as shown in Figure 3, step 2).
- Remove the four mounting screws from the fan mounting brackets (as shown in Figure 3, step 3) and remove the fan.
- Feed the power leads for the new fan through the hole in the door.
- Secure the new fan to the door with the four mounting screws.
- Connect the fan power leads to the terminal block (see Figure 3, step 6).

Figure 3
Replacing 15-inch Fans



Concluding Steps

After successfully installing the new fan, check the unit for tools or debris, then close the bay doors. Verify fan operation and proper air flow. Properly dispose of any damaged parts according to your company procedures and local ordinances.



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