

Replacement Fan Motor Kit for Models RA235 and RA350

Kit P/N 257659 is designed to replace one totally enclosed fan motor on Models RA235 and RA350. Model RA235 requires one kit; Model RA350 has two fan motors and requires two kits. The replacement motor is open dripproof so requires installation of an extension to the fan guard box.

Kit Components

Qty	P/N	Description
1	95545	Fan Motor 115V 1/4 HP 850 RPM
1	257658	Fan Guard Box Extension, Right Side
1	257657	Fan Guard Box Extension, Left Side
1	156895	Wire Inlet Guard
8	11813	Sheetmetal Screws, #10 x 1/2" long (4 to assemble fan guard box extension; 4 to attach inlet guard)
12	37661	Self-drilling Screws, #10-1/2" TEKS (to attach fan guard box extension)
4	96450	Sheetmetal Screws, #14 x 3/4" long Type-B (to attach inlet guard)

Installation Instructions

1. Check the components of the kit(s) against the list above.
2. Turn off the power to the heater.
3. Install the replacement motor(s). Refer to **FIGURE 1A**.

Remove the assembled guard, motor, and fan blade. Remove the motor from the assembly and install the replacement motor from the kit. See fan blade/motor spacing in **FIGURE 1B**. Re-assemble all the parts, attach the assembly to the heater, and connect the motor wires. See **FIGURE 1A**.

FIGURE 1A - Rear View of a Model RA350 Heater (RA350 has two fans; Model RA235 has one fan.)


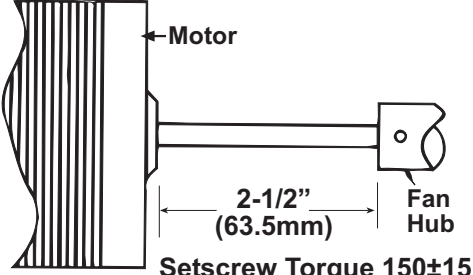


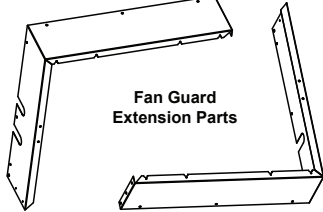
FIGURE 1B - Fan Blade/Motor Spacing




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4. Assemble the extension(s) for the fan guard box. Position the two "L" pieces into a frame and assemble with four 1/2" sheetmetal screws. Insert two screws at each corner leaving the hole closest the flat edge empty.

FIGURE 2 - Assemble the Fan Guard Box Extension



Fan Guard Extension Parts



Attach at the two holes closest the formed edge on both corners.

5. Attach the extension to the existing fan guard box.

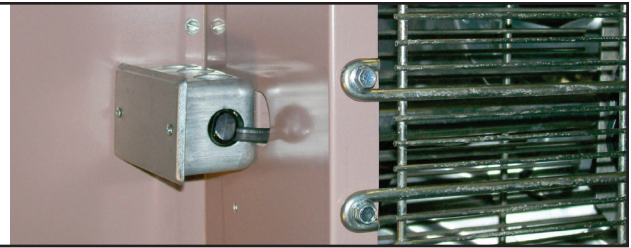
Model RA235 - On the back of the heater, the original fan guard box is a two piece assembly the same as the extension. At the two corners where it is assembled, remove and save the screws that are closest to the wire inlet guard. See **FIGURE 4**, page 2.

Loosen (do not remove) the 2x4 electrical box on the side of the fan guard. See **FIGURE 3**, page 2.

Installation Instructions (cont'd)

5. Attach the extension to the existing fan guard box. - Model RA235 (cont'd)

FIGURE 3 - Loosen the electrical box and slide the slot in the extension behind the box. Tighten the box.



With the slot in the side of the newly assembled extension lined up with the electrical box, slide it over the fan guard box and behind the electrical box. In the two corners, line up the holes and re-insert the screws to attach the extension to the original fan guard box. Tighten the electrical box.

While maintaining the same distance from the extension to the heater, use the self-drilling screws in the kit and attach the fan guard extension at ALL of the holes on each side and top. See **FIGURE 4**.

Model RA350 - On the back of the heater, the original fan guard boxes are two piece assemblies the same as the extensions. At the two corners where the box is assembled, remove and save the screws that are closest to the inlet guard. See **FIGURE 4**.

FIGURE 4 - Installed Fan Box Extension and Inlet Guard from the Replacement Kit

Remove this screw from the original fan box.
(NOTE: It will be re-inserted to attach the extension as shown here.)

Insert self-drilling screws in ALL holes.
(NOTE: Holes on the "center" wall of both RA350 fan guard boxes will need to be drilled before attaching either extension. See **FIGURE 5** and read below.)



FIGURE 5 - Model RA350 - Mark and drill all holes on the "center" walls of both fan guard boxes before attaching the extensions.



Slide the assembled fan guard extension over the original fan guard box and line it up with the holes where the screws were removed. Either hold the extension or insert the corner screws to keep it in place so that the distance from the heater is maintained. Being careful to maintain the spacing from the heater, mark all of the holes in the "center" wall of the original fan guard and remove the extension. Where marked, drill a hole for a #10 screw.

Repeat above for the second fan. (Holes must be drilled in both center walls before either extension is permanently attached.)

Slide one extension back over the original fan guard box. (Route the BX cable through the slot.) Attach with the two corner screws. Using the self-drilling screws in the kit, attach the fan guard extension starting at the center wall side and continuing to all of the holes on the other side and top, being sure to maintain same spacing from the heater. Repeat with the second fan.

6. Position the inlet guard or guards and attach each one with four 3/4" sheetmetal screws and four 1/2" sheetmetal screws.
7. Installation of the replacement motor kit is complete. Turn on the power and wait for the preheater to warm. When the unit starts (about 15 minutes), check for proper operation.

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