



Outside Air Adapter Installation Instructions Model 3258 for the Intrepid II

Please read these instructions before starting the installation.

The Intrepid II Outside Air Duct Adapter allows the introduction of outside air directly to the primary air inlet of the stove. A 3" round air duct (which must be non-combustible for at least the first 36" from the stove) can attach to the adapter elbow, so that the stove draws air from outside the home rather than from inside the home. This is beneficial, and sometimes required, in new or tightly insulated homes.

The outside air can come from any area which is adequately ventilated to the outdoors.

Materials provided:

Outside air duct adapter
3" diameter, 90° elbow

Tools required:

- Safety goggles
- Heavy work gloves
- Marking pen
- Scissors
- Electric drill
- 1/8" drill bit
- Phillips screwdriver
- Tape
- Tin snips
- Flat and round files
- Slipjoint pliers
- Touch-up paint
- #10 x 1/2" sheet metal screws

Before You Start

Preparation of the stove and heat shields for installation of the Outside Air Duct Adapter will require some common tools. Review these instructions. If you are not comfortable with the procedures, have your dealer install the adapter for you.

Depending on the installation, attachment of the adapter will involve modifying one or two 24 gauge sheet metal heat shields. With vertical air entry (through the floor), only the bottom heat shield requires cutting. With horizontal air entry (from behind the stove), both the bottom and rear sheet metal shields require cutting.

Use special care when measuring for the various heat shield cuts. The performance of the shield may be compromised by

an excessive gap (greater than 1/8") between the adapter or elbow and the shield. Following these instructions exactly will result in a safe and effective installation.

THE CUT SURFACES OF SHEET METAL ARE VERY SHARP. ALWAYS WEAR HEAVY WORK GLOVES WHEN WORKING WITH THESE MATERIALS. ALWAYS WEAR PROTECTIVE EYEWEAR.

Installing the Adapter and Elbow

Drill three equally-spaced 1/8" holes in the round adapter flange about 3/8" in from the edge. (Fig. 1) Mark the crimped end of the elbow 1" in from the end. (Fig. 2) Position the adapter as shown in Figure 3 and insert the crimped end of the elbow into the adapter up to the 1" mark. Position the elbow as it will be in the final installation, either horizontal (elbow pointing to the rear) or vertical (elbow pointing down). Using the flange holes as guides, drill 1/8" holes in the crimped end of the elbow. These holes will enable the elbow to attach securely to the adapter.

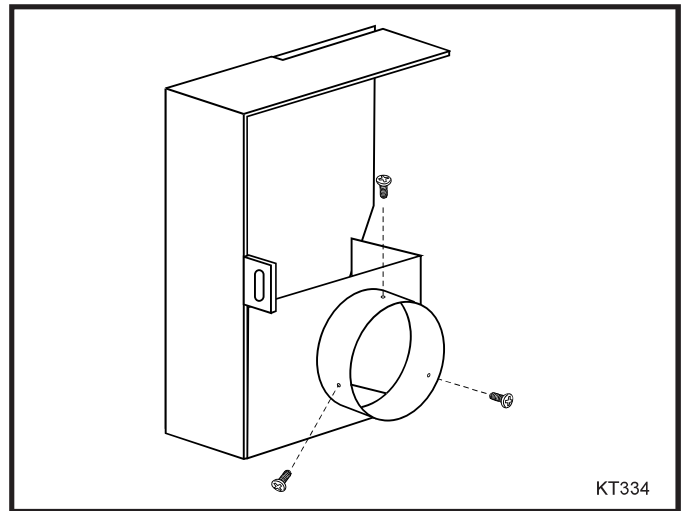


Fig. 1 Drill 3 equally spaced holes in round adapter flange.

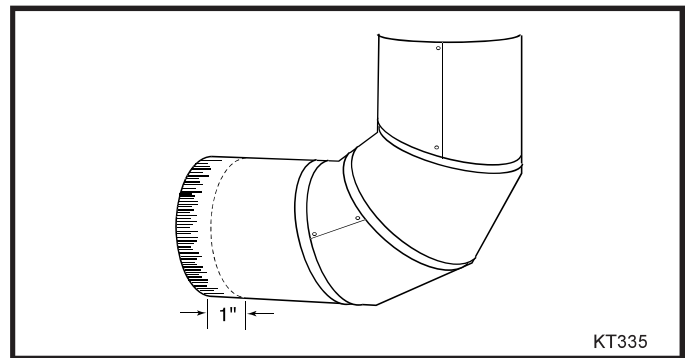


Fig. 2 Drill three holes for sheet metal screws in the elbow's ends.

Remove the elbow from the adapter. Drill three equally-spaced 1/8" holes in the non-crimped end of the elbow about 3/8" from the edge. Screws in these holes will attach the elbow to the incoming air duct.

Remove the phillips truss-head machine screw from the bottom right rear heat shield spacer hole. (Fig. 3) Line up the hole in the adapter tab with the rear heat shield spacer hole. Install

and tighten the phillips truss head machine screw securely. Install the crimped end of the elbow in the proper orientation and fasten with three #10 x 1/2" sheet-metal screws.

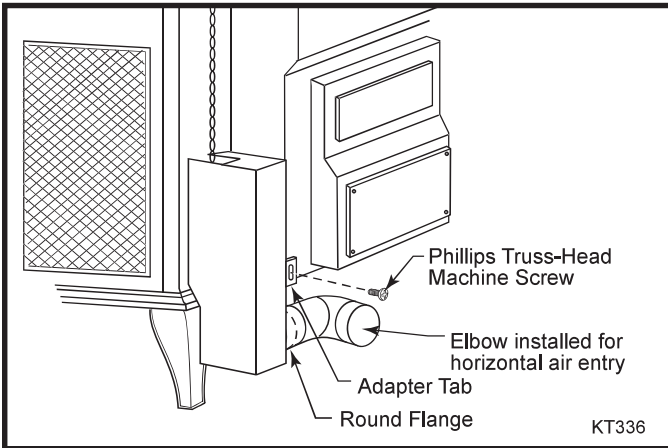


Fig. 3 Install the adapter.

Modifying the Bottom Heat Shield

In installations with a bottom heat shield, it must be trimmed to allow room for the Outside Air Adapter and the elbow.

Place the bottom heat shield on a table or work bench, with the hemmed side up. (Fig. 4) **NOTE:** The installed position of the heat shield is with the hemmed side down toward the floor.

Full-sized paper templates are provided for horizontal air entry (air entering from behind the stove) and vertical air entry (air entering from the floor). Choose the correct template.

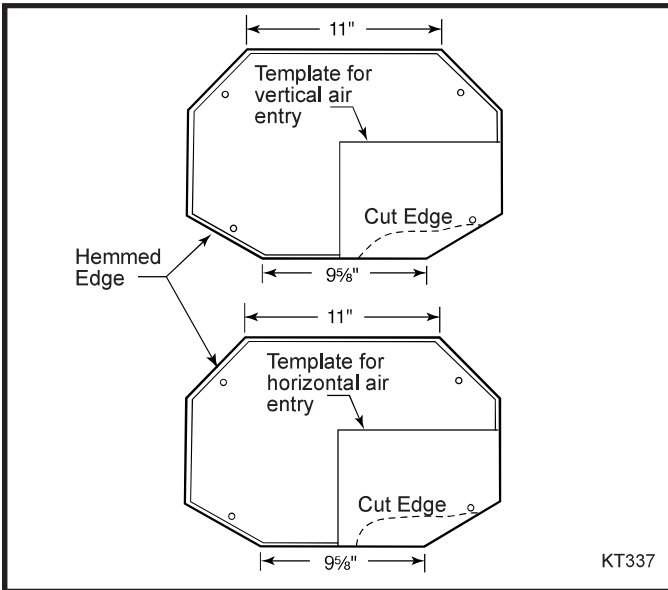


Fig. 4 Modify the bottom heat shield.

Cut the template out carefully with scissors, and place it on the bottom heat shield as shown in Figure 4. Make sure that the small black circle on the template is directly over the screw hole in the heat shield. Tape the template to the heat shield and mark your cut line with a marking pen. The template is designed to maintain a 1/8" (or less) clearance between the heat shield and the adapter and elbow. Follow the template exactly.

Remove the template and carefully cut away the excess sheet metal with tin snips. Smooth any rough edges with a flat file, and touch up the edges of the heat shield with stove paint if needed. Do NOT paint the shiny reflective heat shield surface.

Install the heat shield using the instructions provided with it.

Modifying the Rear Heat Shield

If the installation will bring outside air in from the floor area (vertical entry), you do NOT need to modify the rear heat shield. This kit includes a full-sized paper template for modifying the shield on horizontal air entry installations.

Place the rear heat shield on a table or work bench, with the outside surface down. Cut the rear heat shield template carefully, with scissors. Place it on the inside surface of the shield as shown in Figure 5) Align the template with the side bend line and the bottom edge of the heat shield. Ensure that the black circle on the template is directly over the lower right hole in the heat shield. Tape the template to the shield, and mark the cut line.

Remove the template and carefully cut away the excess sheet metal. Smooth any rough edges with a round file, and touch up the outer edge of the shield with paint if needed. Do NOT paint the shiny reflective side of the shield.

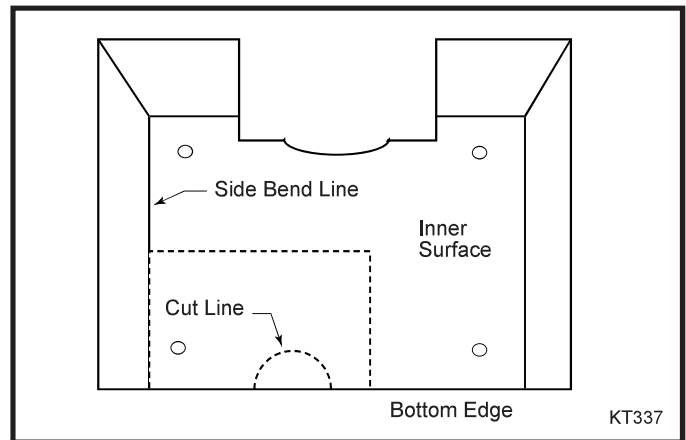


Fig. 5 Modify the rear heat shield.

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