

UDRC

Sound Reduction Upgrade Procedure

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A			Released on ECO CA00626
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C	Feb 19, 2004	M,Herbert	Released on ECO CA02623

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UDRC
Sound Reduction Upgrade Procedure

Refer to BOM p/n 512-00048B for complete parts list.

1. REMOVE THE BLOWER AND BAFFLES

1. Carefully upend the UDRC unit on a large piece of foam or other soft material so that its casters are at the top.
2. Unfasten and remove the base/caster assembly to expose the blower.
3. Remove and discard the small baffle and unscrew the blower.
4. Remove the long baffle by unfastening the 2 screws that hold it to the power box. Discard it.
5. Remove the blower unit.



Figure 1: Baffles and blower

2. INSTALL FOAM ON THE BASE

1. Install the small piece of foam (252-04751A) that is missing from the rear corner of the UDRC wall and another piece of foam (252-04752) to the corner to the left.

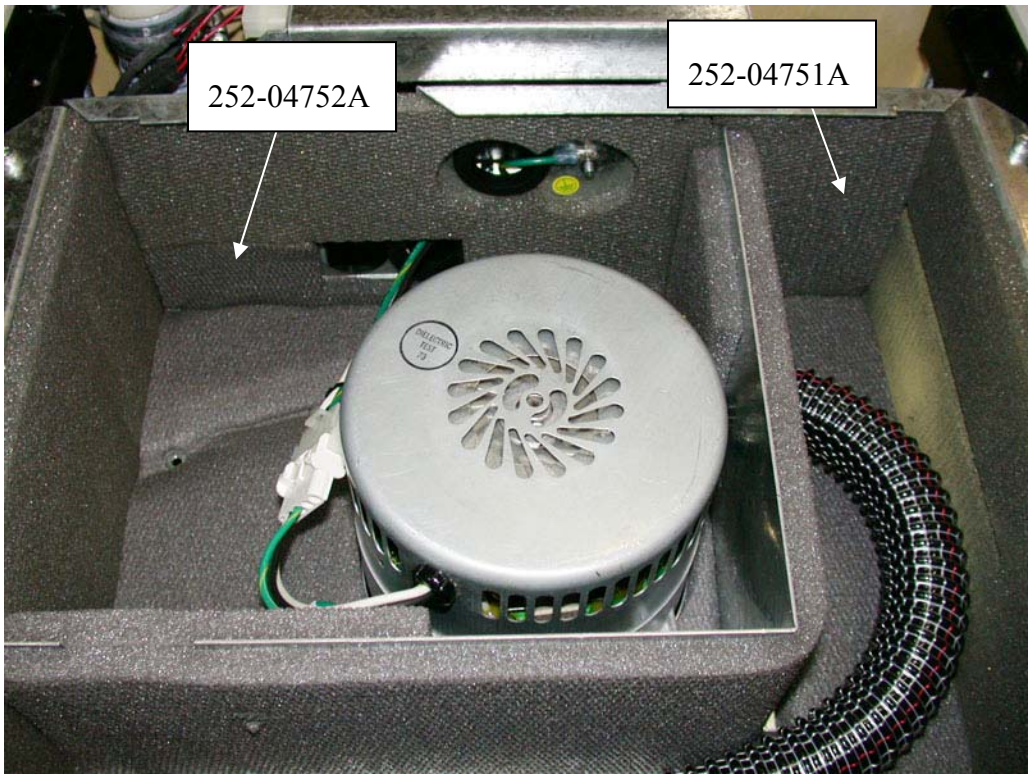


Figure 2: Small pieces of foam installed

2. Install the large square of foam (252-04750A) around the hole for the blower, removing the adhesive backing gradually as you press the foam down on the sheet metal. The slot in the foam will allow it to be fitted around the 2 tubes (if present). Part of the foam may have to be cut away if there is a blower ground stud under the foam.

   There are three holes in the foam. One is aligned over an existing hole in the sheet metal base; while the other 3 holes mark the position where holes will be drilled in Steps 7 and 8.

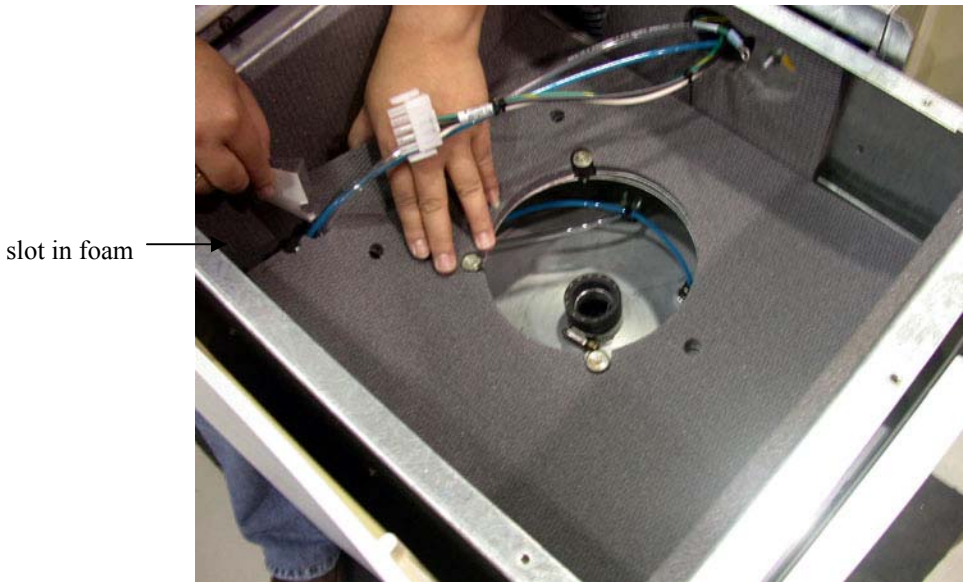


Figure3: Installing the foam around the blower

3. Using the holes in the foam as a guide, use a centerpunch to mark 3 holes in the sheet metal base for drilling.



Figure 4: Using a centerpunch to mark the holes for drilling

4. Cover the blower shaft with masking tape and lay a rag beneath the holes to catch any debris that falls during drilling.
5. Drill the 3 holes using a 5 mm drill.
6. Vacuum each hole to remove debris.
7. Carefully remove the rag and masking tape, and vacuum the cavity beneath the base thoroughly.



(a) Protecting the area beneath the blower



(b) Drilling

Figure 5: Drilling the holes

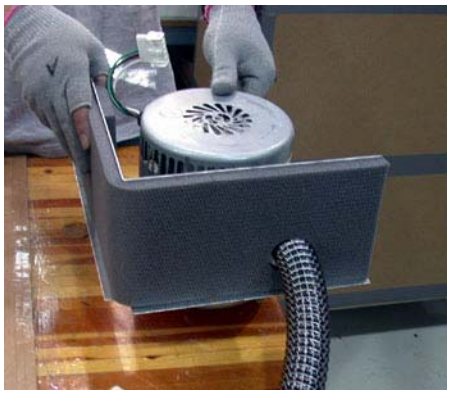
3. INSTALL THE BLOWER WITH NEW BAFFLES

1. Insert the new hose (part number 338-00010) into the outlet of the blower and secure with a clamp (part number 52-7258).

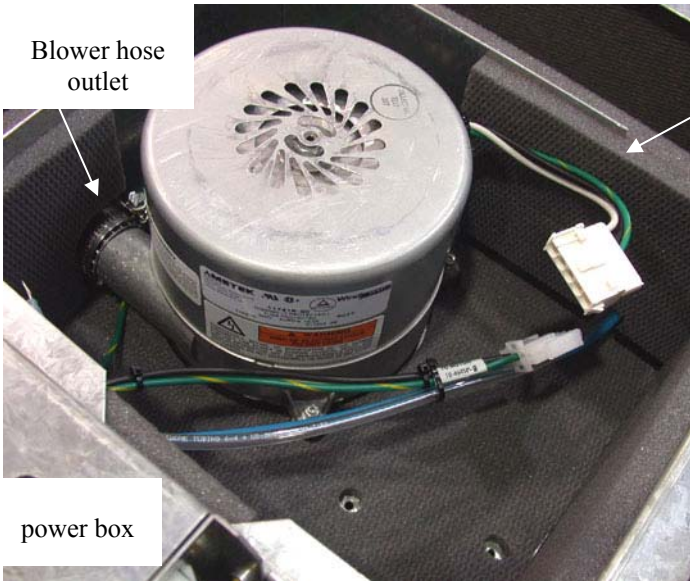


Figure 6: Hose installed on blower outlet

2. Slide the L-shaped baffle (500-01407A) onto the hose and down close to the hose clamp.
3. Install the blower/baffle assembly, placing the blower on its shaft and rotating the L-shaped baffle so that it forms two walls of the blower enclosure. The blower hose will lie loose in the space between the blower enclosure and the UDRC side wall.



(a) L-shaped baffle assembled with blower



(b) Blower/baffle assembly installed

4. Reconnect the two wires from the power box. The “Inlet to LE” wire goes on the terminal first, then the “To Chassis” wire.
5. Connect the blower motor. Apply loctite to the existing screws.



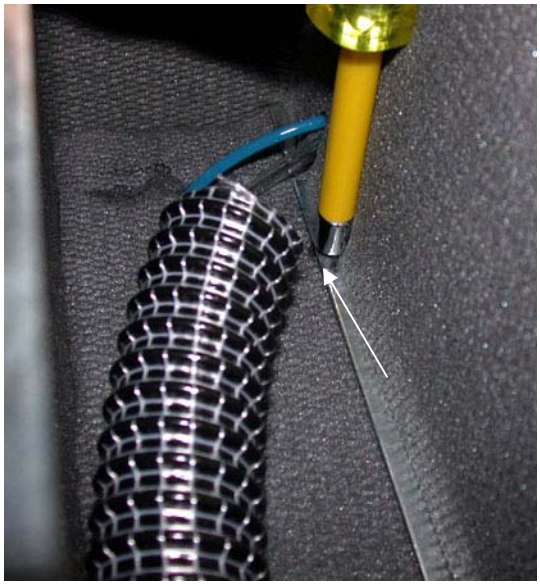
(a) Two wires from power box connected on one terminal



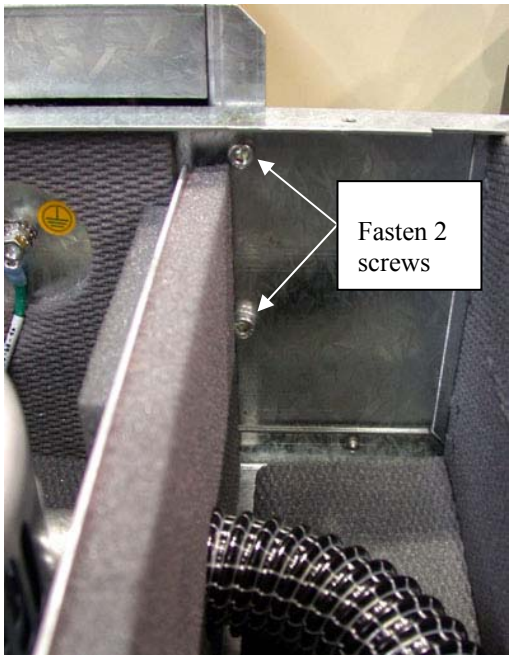
(b) Connecting the blower motor

Figure 7: Reconnecting the blower

6. Fasten down the L-shaped baffle with 2 screws (1 existing, 1 new, p/n 300-00171), one behind each wall of the bracket.



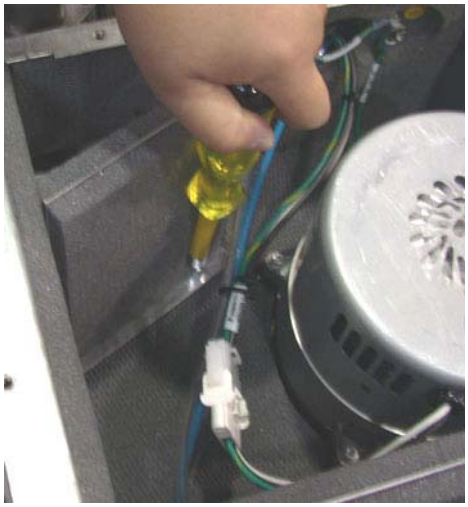
(a) Securing the baffle (there is a second screw on the other wall of the bracket)



(b) Securing the power box

Figure 8: Securing the baffle and power box

7. Place the small angle baffle (500-01409A) in position so that its two screw holes line up with two of the holes that were drilled in the sheet metal base. Its rounded end should be away from the wall.
8. Secure the angle baffle with 2 screws (300-00171).



(a) Securing the angle baffle



(b) Angle baffle installed

Figure 9: Installing the angle baffle

4. MODIFY THE INLET AND EXHAUST SCOOPS

1. Turn the base of the UDRC (removed in Step 1) upside down so that the casters are on top.
2. Remove the covers from the inlet and exhaust scoops.

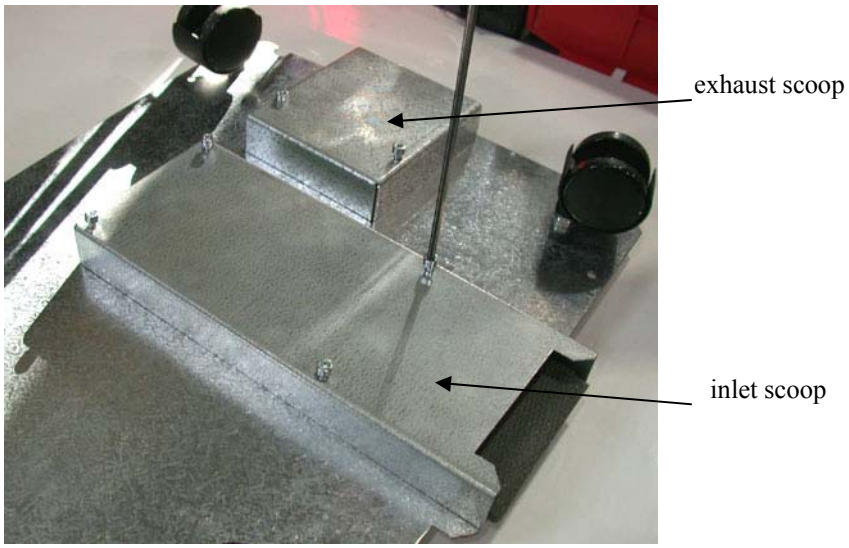


Figure 2: Removing the inlet scoop

3. Add the extension foam strip (252-04885A) to the existing foam that surrounds the inlet scoop (round hole - see Figure 11).

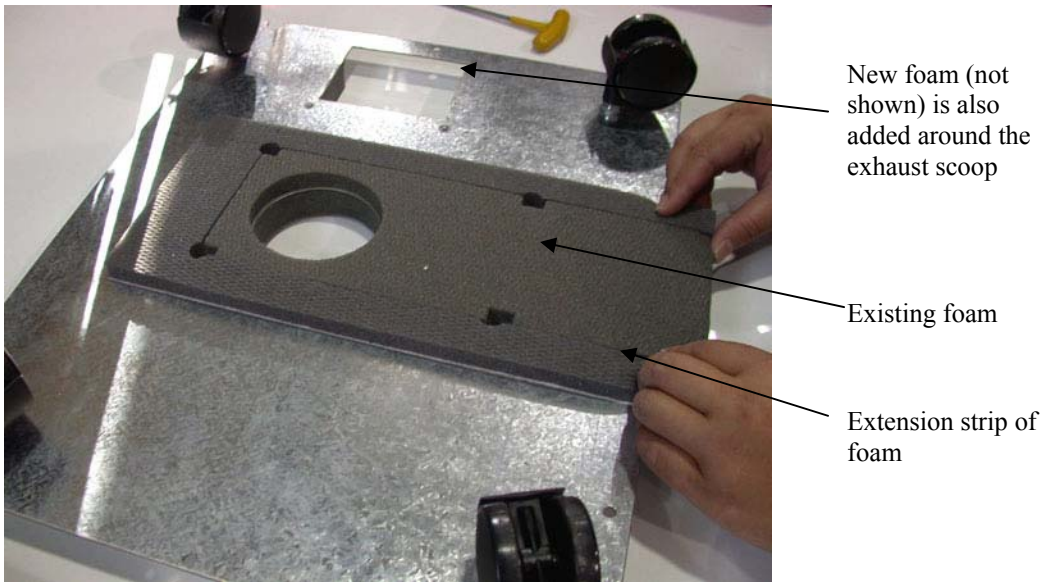


Figure 3: Installing the extension to the inlet scoop foam
Note: Foam added to exhaust scoop is not shown

4. Install new foam (252-04754A) around the exhaust scoop (square hole - see Figure 11), which does not have any existing foam.

5. Install six small D-shaped pieces of foam (252-04753A) on top of the inlet scoop foam. Stack two of the ½" pieces together in 3 locations. One goes between the screw holes, one goes at the end furthest from the hole (6-8 mm from the edge), and one sits beside and below the hole (see Figure 12).



Figure 4: D-shaped foam installed

6. Add Loctite to the 4 screw threads on the inlet scoop.



Figure 5: Putting Loctite on the inlet scoop screw threads

7. Remove all 4 casters and add a second nut (5/16 in. - part number 52-3118) to each to increase the clearance.

8. Re-install the casters.



Figure 6: Removing the casters

9. Turn the base over so that it rests on the casters. Install the two thin strips of foam (252-04755A) in the gap between the two existing pieces of foam.

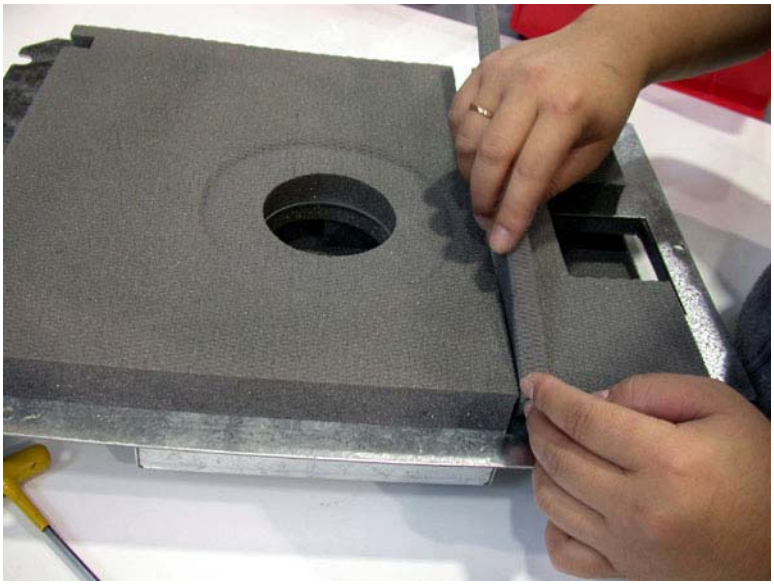


Figure 7: Filling in the gap in foam on the inside of the base (use two ½" thick pieces stacked on top of each other)

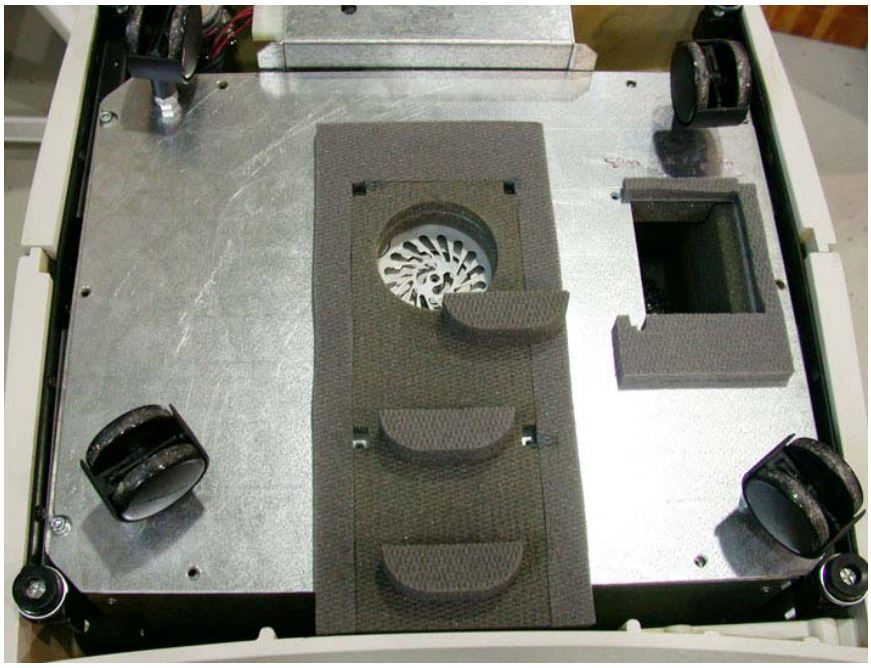


Figure 8: Underside of base

10. Re-install the base of the UDRC.
11. Install the new inlet (500-01406A) and exhaust (500-01408A) scoop covers, using the new longer screws provided (part number 52-4569).

    Note: Be careful not to over tighten the screws or the sheet metal will buckle.

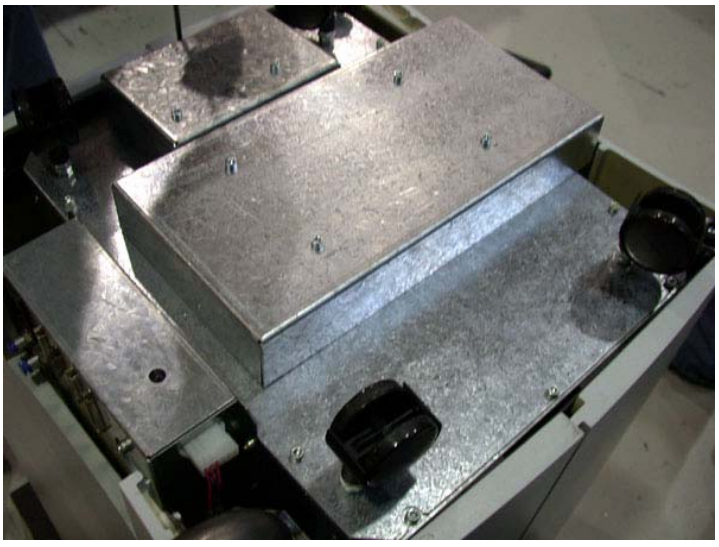


Figure 9: Base installed

Carefully turn the UDRC over and set it upright on its casters.

12. **Fill in position "4" on the "100 label "with a marker. The label is located at the bottom rear of the unit**.