



## *Resolute Acclaim 2490 Series Service Procedure*

### **1994 AND LATER RESOLUTE ACCLAIM WOOD STOVES**

This procedure may be used if replacing the damper or servicing/replacing the damper rod.

**Tools Required:** 7/16" socket or wrench; 5/32 Allen Key; shop vac.

**Time Required:** 1 hour

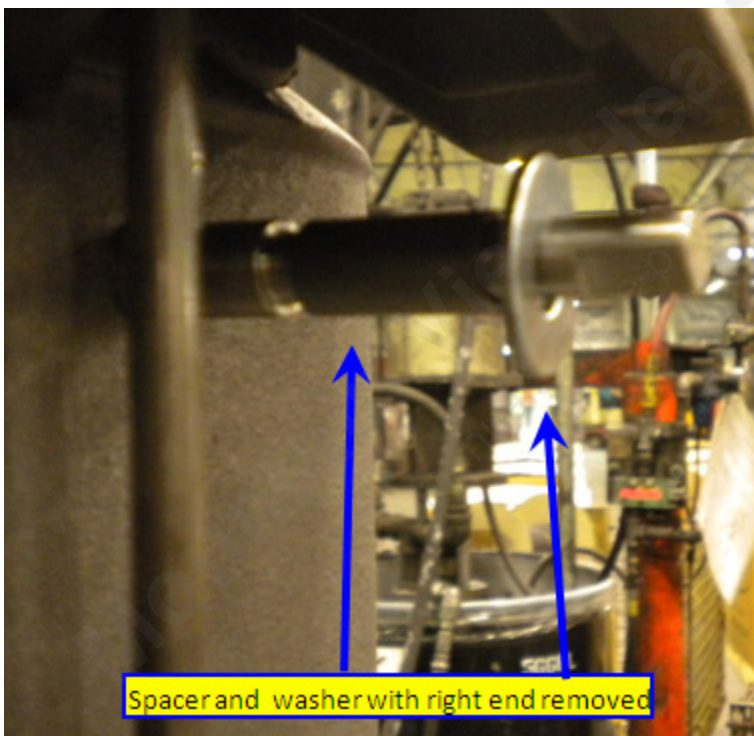
**Materials Required:** any damper component as needed

### **REPLACING THE DAMPER AND/OR DAMPER TABS**

- 1) Disconnect the flue collar from the chimney connector.
- 2) Remove the griddle, open the loading door, and place the damper in the updraft position.
- 3) Remove the flue collar and the flue collar extension using a ¼ - 20 socket wrench.
- 4) Reaching through the flue collar opening, remove the two 7/16" cap screws and damper tabs securing the damper pivots.
- 5) Holding the damper upright, maneuver one end into the rear corner of the stove back and the opposite end through the damper opening of the upper fire back.
- 6) If the damper requires replacement, transfer the damper "D" plate, adjusting screw and lock nut to the new damper.
- 7) Reassemble the stove in the reverse sequence.
- 8) Close and lock the damper several times to check for proper operation. Adjust the damper ramp ("D" Plate) to provide a snug positive lock retaining ease of operation.

## REINSETTING THE DAMPER ACTUATOR ROD

- 1) Remove the front door. Open the door and pull down on the spring-loaded upper hinge pin. When the pin clears its recess, tilt the door slightly and lift it off the lower support. Remove the andirons.
- 2) Open the damper. Remove the damper handle stub with a  $\frac{5}{32}$ " hex Allen key wrench.
- 3) Remove the  $\frac{1}{4}$  - 20 bolt, hex nut and washer(s) which attach the right side at the bottom to the stove bottom. This can be reached from the outside of the stove. The right end has no gasket or cement.
- 4) Remove the right end by pulling the bottom edge out from the stove 45 – 60 degrees thus, clearing the end of the damper actuator rod. Notice the  $\frac{3}{8}$ " washer and spacer on the end of the rod. If missing, order replacements from your Vermont Castings dealer. The  $\frac{3}{8}$ " washer (1202488) and the spacer (1201780) help to hold the rod in position and prevent it from falling out of the slot that holds the other end. See photo below.



5) Remove the smoke pipe. If rear vented remove the flue cover by reaching in through the flue collar to access the two bolts.

6) Reach in through the opening in the flue collar and while holding the damper up out of the way, slide the damper rod into its slot in the rear left of the back.

7) Slide the stub on the end of the damper temporarily and close the damper. Remove the stub.

8) Make sure the washer and the spacer are properly installed. See photo on the left.

- 9) Reassemble the right end by sliding the damper rod through and lifting the end up under the lip in the top. Hold it in place while using the hex nut, bolt and washer to attach it to the bottom of the stove.
- 10) Reinstall the damper handle stub, smoke pipe and damper cover if removed.

## REPLACING THE DAMPER ACTUATOR ROD, SPACER AND WASHER

- 1) Remove the front door. Open the door and pull down on the spring-loaded upper hinge pin. When the pin clears its recess, tilt the door slightly and lift it off the lower support. Remove the andirons.
- 2) Remove the damper handle stub with a 5/32" Allen key wrench.
- 3) Remove the 1/4 - 20 bolt which attaches the right side to the stove bottom of the right side, and can be reached from the outside of the stove.
- 4) Remove the right side by pulling the bottom edge out from the stove 45 – 60 degrees thus, clearing the end of the damper actuator rod. Remove the 3/8" washer and spacer from the end of the rod.
- 5) Lift out the front and back grate sections. Remove the side firebricks; lift or pry them upward until their bottom edges clear the retaining ridges on the left and right shoulder plates, and then swing the forward edge of the firebricks toward the centre of the firebox to remove them. When both side firebricks are out of the stove, the rear firebrick assembly will fall forward into the firebox. Slide off the steel clip joining the two halves of the assembly, and lift the separate pieces out.
- 6) Two 1/4 - 20 cap screws with washers secure the upper fire back to the inside flange of the stove back. Loosen one cap screw at least two full turns and remove the other cap screw and washer. Remove the upper fire back.
- 7) Reach inside the stove and slide the damper actuator rod to the right until the left end of the rod is free of its hole in the stove back. Pull the free left end of the actuator rod into the stove body gently so as not to bend the actuator rod or damage the right drilling in the stove back. When the right end of the actuator rod clears the right hole of the stove back, remove the rod from the stove.
- 8) With the stove disassembled to this extent, examine the secondary combustion package. Clear the package and exhaust passages with your shop vacuum from above. Clear the secondary air passages of all ash and debris (**see Fig. 1**). Examine the damper gasket and the gasketing on the stove back flange. If the gasketing is damaged, broken or dried up and brittle, replace it.

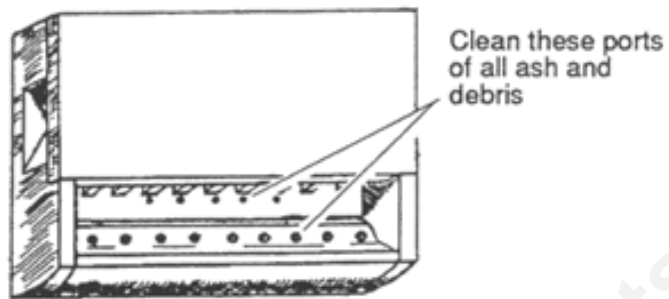


Fig. 1 Secondary combustion package showing secondary air entry ports.

- 9) When all necessary cleaning and re-gasketing is complete, re-assemble the stove with repaired and/or replaced parts in reverse sequence (**see Fig. 2**).

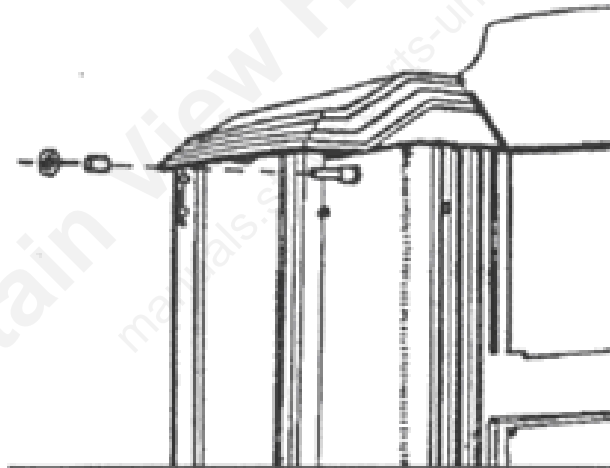


Fig. 2 \_ Right end of damper actuator rod.