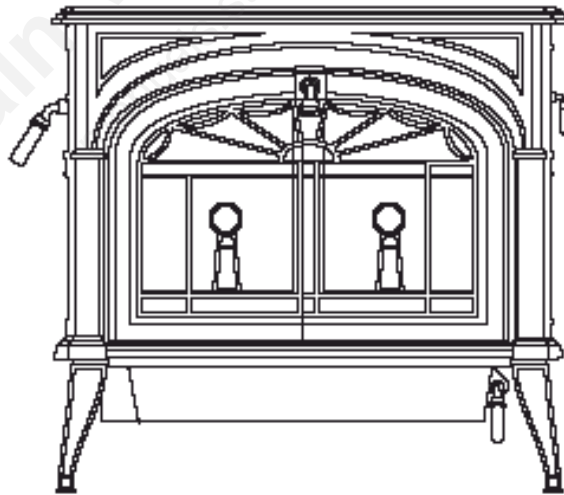




# SERVICE MANUAL

For the  
***ENCORE NON-CATALYTIC***  
***WOODBURNING STOVE MODEL 1450***



## **SERVICE PROCEDURES**

### **Encore Non-Catalytic Model 1450 Wood Stove**

\*\*Wear gloves, a dust mask and protective eye wear when servicing a stove

#### **Replace the Front Panel**

1. Lift off the griddle and the doors. Locate the Phillips screw in the center of the front and the two ¼ -20 hex head bolts in the interior rear left and right of the top. Remove the bolts and lift off the top.



FIG.1 Front Top Attachment Screw



FIG. 2 Interior Top Attachment Hex Head Bolt

2. Lift the left and right andirons out of the inner bottom.
3. Locate and remove the hex head bolts holding the main manifold to the front and lift out the manifold.



FIG. 3 Air Wash Manifold Left Bolt



FIG. 4 Main Manifold Removed

4. Locate and remove the two tabs holding the primary air shutter and slide the shutter out of the linkage.



FIG. 5 Remove Primary Air Shutter

5. Locate and remove the bolt in the center of the front at the bottom holding the front to the bottom. Located and remove the two side bolts holding the front to the sides.



FIG. 6 Bolt at the Bottom, Center of the Front

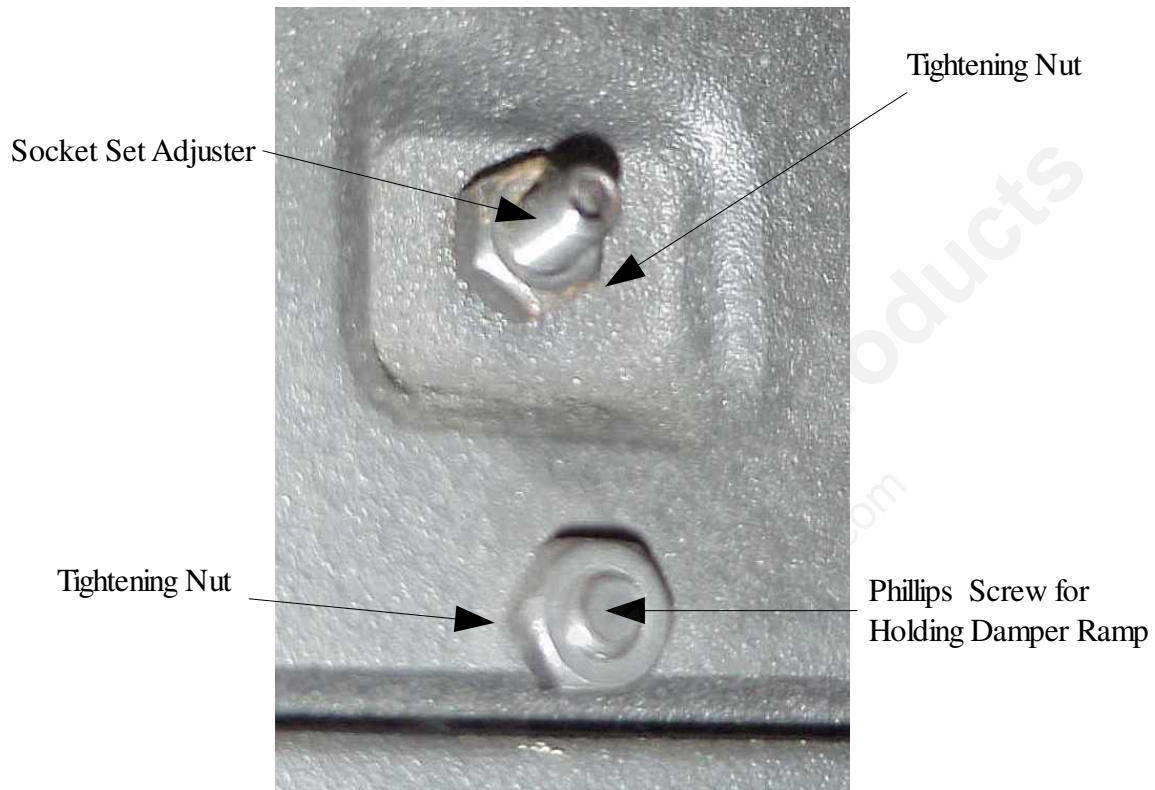


FIG. 7 Bolt at the Side

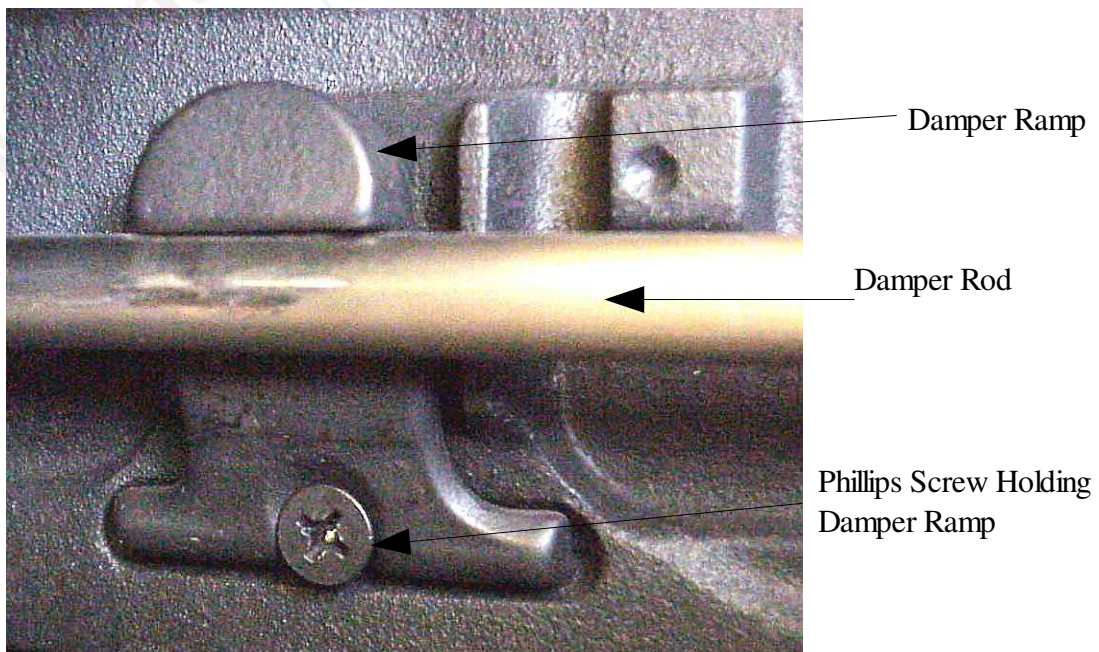
6. Locate the gasket that goes around the perimeter of the top of the stove's sides, back and front. Carefully pull up on the gasket going across the top of the front and pull the front forward and out.

## Damper Ramp Adjustment

*View from inside the firebox looking up*



*View from through the flue collar looking at the rear of the damper door showing the damper rod*



## **Damper Adjustment Procedure – Damper Too Tight**

*In all cases, be careful not to snap off the set screw, the damper ramp or the damper ramp screw by turning the screws when you feel resistance or without loosening the nuts.*

1. Close the damper.
2. Apply Lock-ease or WD-40 to the two bolts.
3. Loosen the nut holding the socket set screw from inside the firebox.
4. Carefully turn the socket set screw with an allen key counter-clockwise to bring the ramp closer in to the damper.
5. If Loose, tighten the nut holding the damper ramp screw. You may need to access the Phillips head on the damper ramp screw from the flue collar opening.
6. Try the damper and redo the procedure if additional adjustment is needed.

## **Damper Adjustment Procedure – Damper Too Loose**

1. Open the damper and prop the damper in the closed position to work on it from inside the stove.
2. Apply Lock-ease or WD-40 to the two bolts.
3. !Optional! Loosen the nut holding the damper ramp screw. You may need to access the Phillips head on the damper ramp screw from the flue collar opening. Adjustment may not need loosening of the bolt.
4. Loosen the nut holding the socket set screw from inside the firebox.
5. Carefully turn the socket set screw with an allen key clockwise to push the ramp further out.
6. Tighten the nut holding the socket set screw from inside the firebox.
7. If loose, tighten the nut holding the damper ramp screw.
8. Try the damper and redo the procedure if additional adjustment is needed.

## Replace the Fountain Assembly

1. Remove the andirons, griddle and the bottom grate. Carefully slide the refractory shoe out of the unit being careful not to damage the gasket on the bottom.
2. Remove the rear shroud to access the four hex head nuts attached to the damper housing bolts and the two hex head nuts attached to the lower refractory brick retainers. Nuts are located on either side of the back.
3. Remove the right refractory and end insulation panel. Locate the brick support bracket above the right refractory and remove the hex head bolt holding the bracket. Slide the refractory and insulation panel out.
4. Remove the damper housing. Remove the damper handle with the Allen key supplied with the unit. Locate and remove the four hex nuts, two per side on the outside of the inner back, that hold the upper fireback in place. Pull out the hex head cap screws from inside the firebox. Gently rotate the damper housing down right side first and maneuver out of the firebox by sliding left to right to clear the damper rod.
5. Remove the lower refractory brick. Locate the two hex nuts on the outside of the inner back that hold the lower refractory brackets in place. Remove the two hex nuts and washers and pull out the hex head cap screws and washers holding the brackets from inside the firebox. Remove the brackets. Slide the lower refractory brick forward and out of the unit. Slide the fountain assembly out.



FIG. 8 Remove the shoe



FIG. 9 Remove Lower Refractory Brackets

6. Reverse to replace.

## **Replacing Left or Right End**

1. Lift off the griddle and the doors. Locate the Phillips screw in the center of the front and the two ¼ -20 hex head bolts in the interior rear left and right of the top. Remove the bolts and lift off the top.



FIG.10 Front Top Attachment Screw



FIG. 11 Interior Top Attachent Hex Head Bolt

2. Lift the left and right andirons out of the inner bottom.
3. Locate and remove the hex head bolts holding the main manifold to the front and lift out the manifold. See Fig. 12 and 13.



FIG. 12 Air Wash Manifold Left Bolt



FIG. 13 Main Manifold Removed

## **Replacing Right End**

4. If removing the right end, remove the bolt holding the right brick bracket and lift out the right brick and insulation panel. See Fig. 14.
5. Locate the two hex head bolts and washers holding the right air plate on – one near the top and one on the bottom of the plate. Remove the bolts and carefully slide the air plate over and out.



FIG. 14 Remove Right Brick



FIG. 15 Remove Right Air Plate

6. With your hand, pull the cotter pin holding the primary air linkage to the air shutter rod and put to one side. See Fig. 16.
7. Carefully lift up the adhesive gasket from the top of the right side only. This gasket continues around the front and side. Leave it hanging loose as this will be reused.

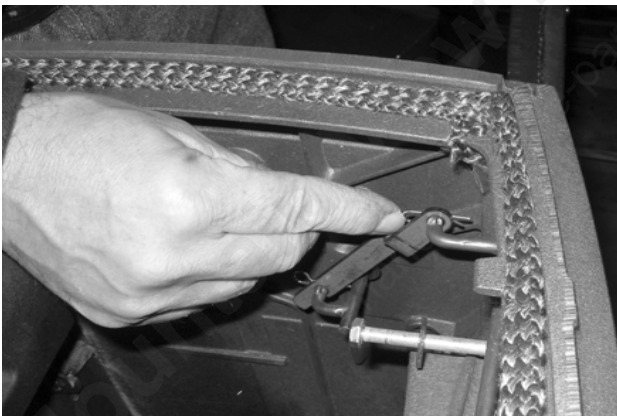


FIG. 16 Remove Primary Air Linkage Cotter Pin

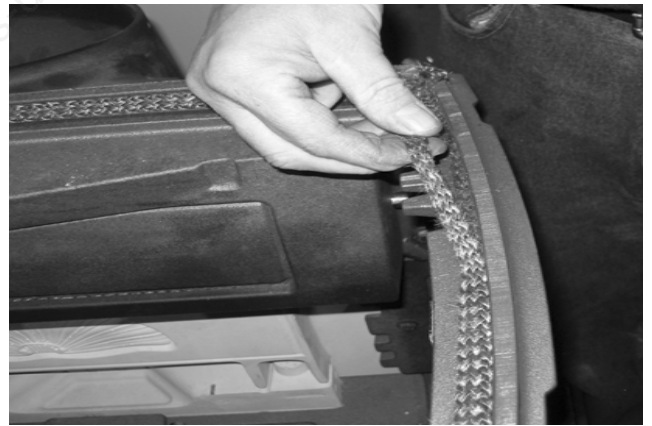


FIG. 17 Remove Gasket From the Top of Right Side

8. Locate the three hex head bolts holding the right end to the front, rear and bottom. The side fits over the rear panel and into the front panel. Carefully lift the side up slightly to clear the bottom and pull out from the back side first. See Fig. 18.



FIG. 18 Lift Right Side From the Stove

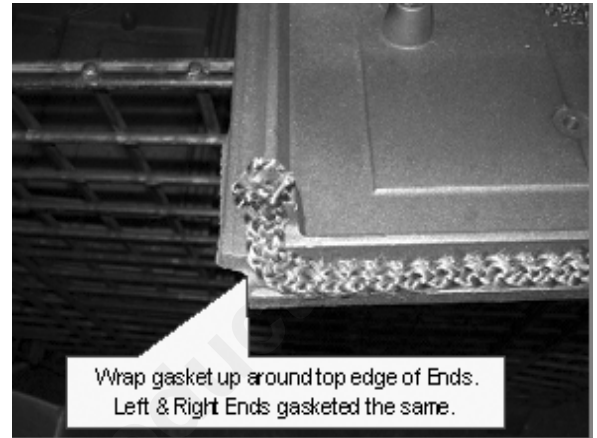


FIG. 19 Side Gasket

9. Reverse the procedure to attached the new right side. Make sure the self-adhesive gasket is on the front panel of the new side exactly as it was on the old side. See Fig. 19. Ensure the air plate is properly seated on the side. The two guide tabs on the air wash manifold need to touch the front. If the top gasket does not go back on firmly, use a small amount of gasket cement to hold in place.

### **Replacing Left End**

10. The procedure is essentially the same with the exception of the air shutter removal. The left side has the damper rod projecting through it. To perform the last step (step 8 above) on the left side, the damper assembly must be loosened or removed so the side will clear the rod. The rear shroud must first be removed. It is held on with four sheet metal screws – two per side and two head Phillips head bolts on the center of the back.