



Intrepid II 1990 Service Procedure

REPLACING THE REFRACTORY ASSEMBLY

Materials needed: Intrepid II Refractory Package Part #1602527

Tools: Phillips screwdriver; 5/32" Allen Key wrench; 7/16" wrench; ball peen hammer; dremmel or small file.

Time needed: Approximately 1 hour.

Procedure

1. Place the damper in the open (updraft) position.
2. Remove the damper handle stub with an Allen key wrench.
3. Tap upward on the outer ends of the two rotating clamps securing the upper fire back.
4. Remove the upper fire back/throat assembly
5. Remove the primary thermostat housing held on with 2 slotted bolts. Carefully rest the assembly on the floor with the ball chain still hooked up to the air flapper.
6. Maneuver the damper actuator rod out of the opening in the side of the stove back.
7. Remove the two uppermost acorn nuts from the back of the stove and tap the threaded ends of the exposed weld screws into the stove back that hold the damper housing assembly in place.
8. Reach inside the stove and remove the damper housing assembly.
9. Remove the rear heat shield if present. It is held on by four 10-24 bolts into four spacers.
10. Locate the two Phillips head bolts holding on the rear cover that holds the rating plate and remove them along with the rear cover. Unscrew the secondary air probe and maneuver it out of the short metal link and put to one side. See Fig. 1.

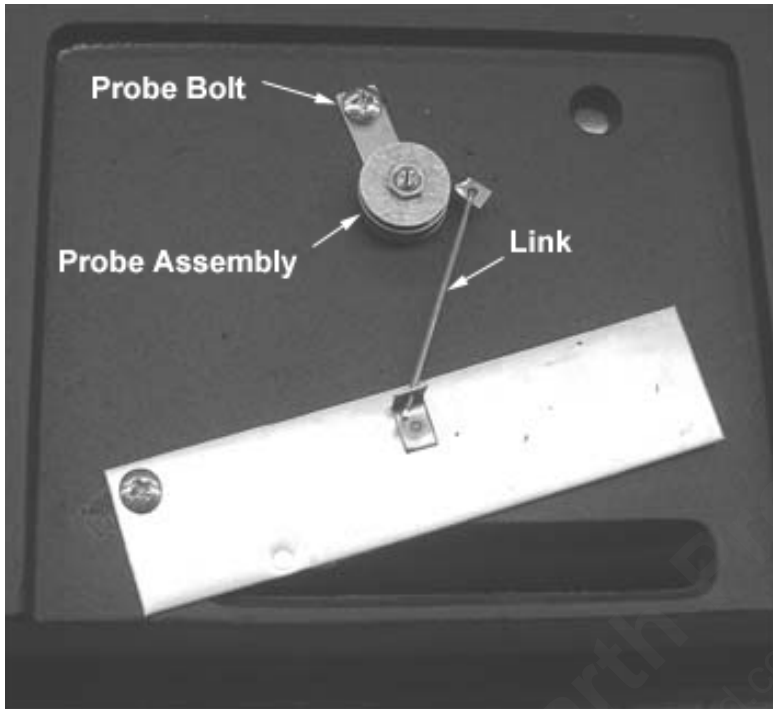


Fig. 1 View of secondary air system with the rear cover removed

9. Remove the refractory cover and catalyst from the old refractory assembly.
10. Remove the old refractory assembly by pulling up. The old assembly will likely break apart.
11. Clean out the space behind the lower fireback of all debris and ashes.
12. Carefully slide the new refractory assembly in the space behind the lower fireback. There are two bosses or nubs on the back of the lower fireback designed to hold the refractory in the proper position. See photo below. These tabs may interfere with the refractory assembly sliding smoothly down to the bottom of the stove. A small groove may be etched into the front of the refractory assembly by the two protruding bosses as the refractory assembly is carefully pushed to the bottom of the stove. If deemed necessary, file a little bit off the tips of the bosses to make the refractory assembly install easier. Ensure it goes all the way to the bottom of the stove. See Fig. 2

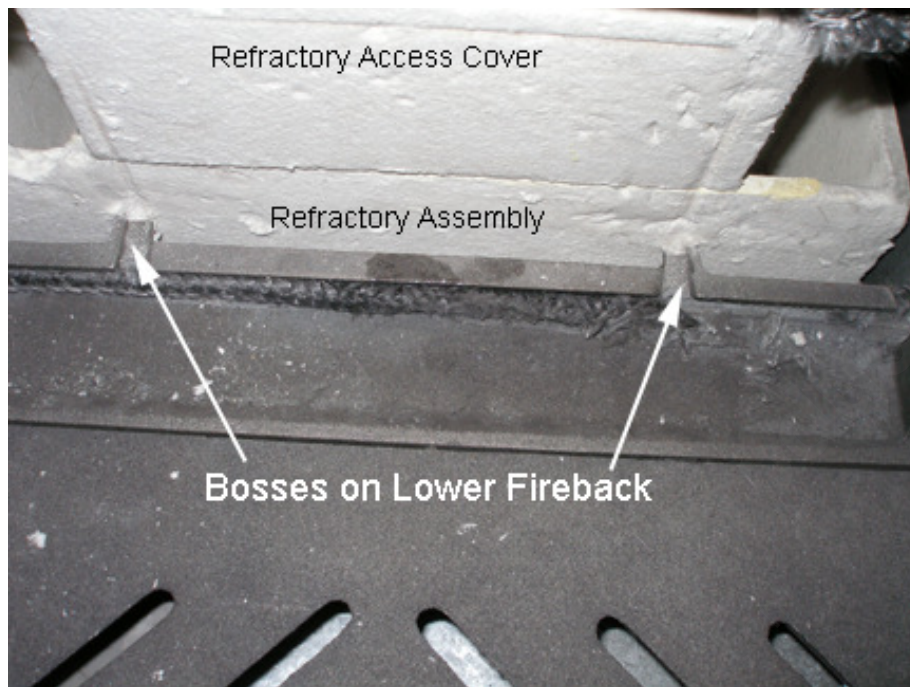


Fig. 2
Refractory
Assembly
installed

13. From the back of the stove, take a drill bit slightly smaller than the shaft of the secondary air probe and pilot a hole with the bit between your thumb and first finger. Reinstall the secondary probe.
14. Reassemble the components in reverse order.

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