

## Technical Data Sheet

### Pellet Stove Igniter Tube Replacement *Assembly 5909-096*

Required Tools:      5/16" wrench or socket  
                                 2.5mm Allen wrench  
                                 36" of nylon string or 16 gauge or smaller electrical wire

#### Step 1:

Open stove door and remove burn pot. Sweep ash into the ash pan and remove the ash pan from the stove. Using a 5/16" socket or box/open end wrench, remove the two bolts holding the igniter tube to the body of the stove.



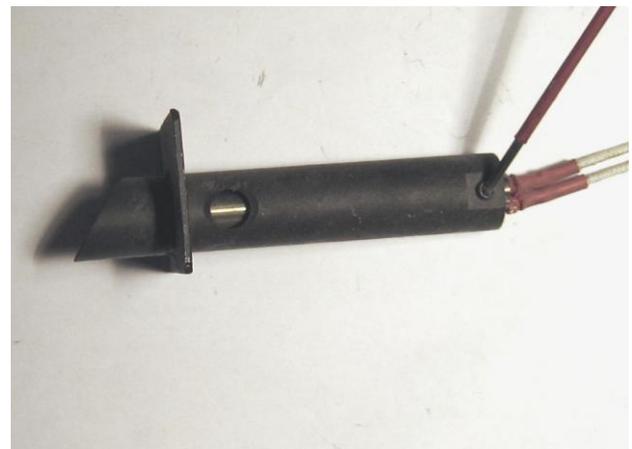
#### Step 2:

Gently pull the igniter tube from the fresh air jacket. The igniter leads are normally pulled tight. Take care not to put pressure on the leads by pulling too aggressively. If possible, grasp the white fabric leads with your fingers to pull enough slack out of the mounting hole to allow the igniter element to be placed on the fire box floor as shown.



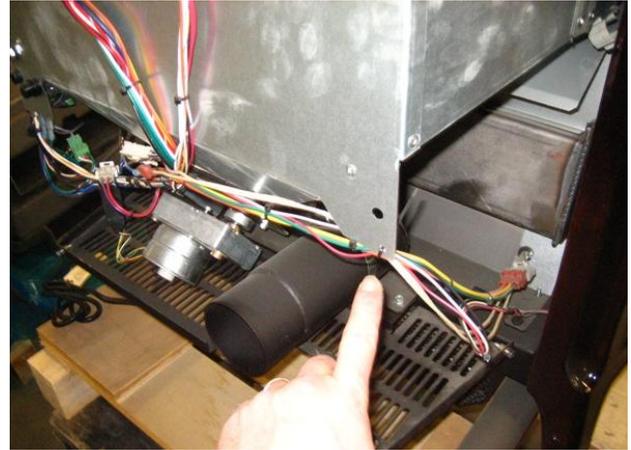
#### Step 3:

Using a 2.5mm Allen wrench, remove and retain the set screw that holds the igniter element into the tube. At this point, the element should be removable from the tube housing by pushing it out the rear of the tube (away from the slant cut end) with a non-metallic dowel. Do not perform this action by pulling on the white leads as this could damage the element. If the element cannot be pushed out of the rear of the tube, you will need to perform steps 4 through 12. If it is removable, perform Steps 9, 10 & 12.



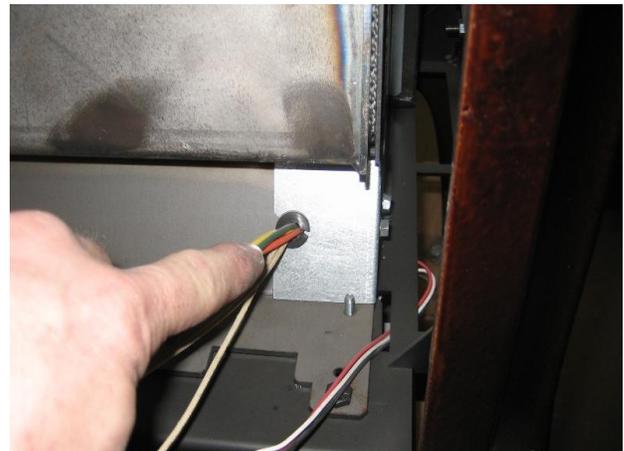
Step 4:

Remove the black sheet metal rear housing from the stove. If you are servicing a Manchester 8330 or a Heritage 8091, locate the zip tie that is securing the wire harness to the body of the stove and cut it. This harness element should contain the room blower wires (Orange, Green, and Yellow), the igniter element wires (two White leads with fabric insulation), and the incoming air sensor wires (White, Black, and Red). If you are servicing a Heritage 8090, proceed to Step 6.



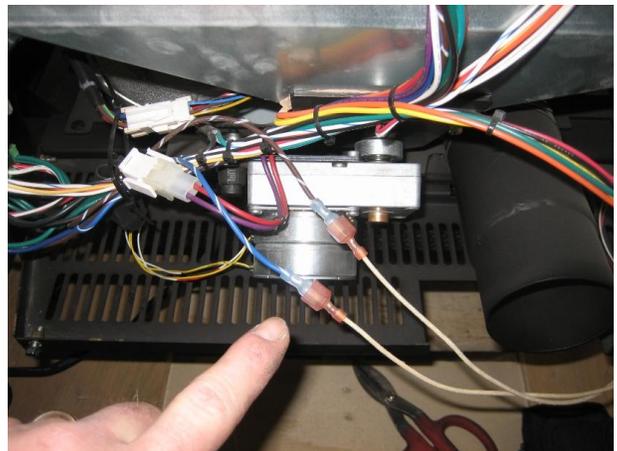
Step 5:

*Models 8330 and 8091 only:* remove the access cover from the fan and igniter element wire harness penetration of the stove air jacket. This cover is located on the bottom right corner of the pellet engine when viewed from behind the stove. Remove the igniter element leads from the black rubber grommet at the cut.



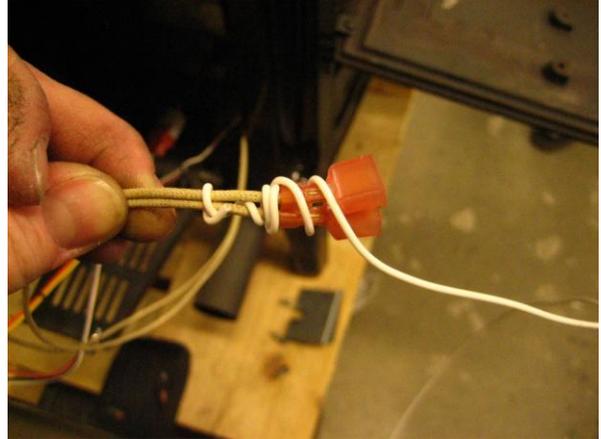
Step 6:

Locate the connection point of the igniter element leads to the main wire harness. Disconnect the two spade terminals.



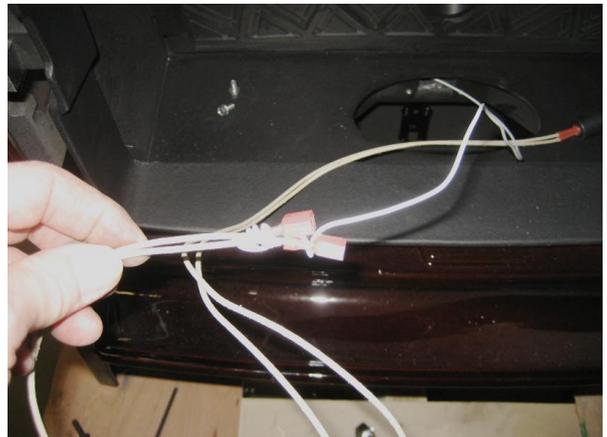
Step 7:

Attach one end of your 36" wire or string to the now disconnected igniter leads. Secure in such a fashion that the wire or string will not pull free. Use electrical tape if necessary.



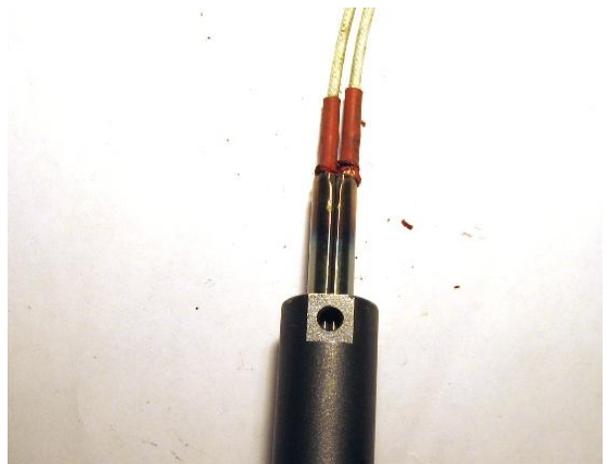
Step 8:

Pulling from the firebox, gently remove the igniter leads from the stove. When the end of your wire or string is visible in the firebox, continue pulling only enough extra through to allow detachment of the igniter leads. You may now remove the igniter element from the tube housing by pulling it through the front of the tube.



Step 9:

Install the existing element in the new modified tube. Align the seam in the side of the element with the set screw hole.



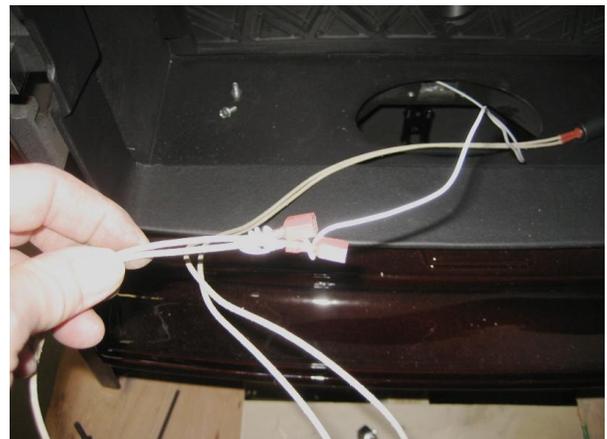
Step 10:

Assure that the rounded nose of the igniter element is aligned with the angular cut face of the element tube and install the set screw snugly.



Step 11:

Re-attach the igniter element leads to your 36" wire and use the wire to pull the leads back through to the rear of the stove. Pull enough slack to re-install the igniter tube in the stove without bunching the leads at the point of installation.





Step 12:

Re-install the two 5/16" bolts that attach the igniter tube to the stove body. Re install the burn pot, ash pan, rear sheet metal cover and resume normal stove operation.

