

# CANONSBURG STOVE CO.

## *Integra Pellet Cleaning Procedures*

To maintain proper operation of your pellet stove, it is necessary to regularly clean the unit. Listed below are recommended cleaning intervals for your pellet stove:

<u>Component</u>	<u>Interval</u>
Burn Pot	As needed
Ash Pan / Ash Drawer	As Needed
Hopper	Monthly (remove sawdust)
Pull Heat Exchange Rods	Daily / Every time you add pellets
Heat Exchanger	Monthly
Exhaust Manifold	Yearly / Every 3 Ton
Combustion Motor & Housing	Yearly / Every 3 Ton
Convection Motor & Housing	Yearly (more frequently based upon type of environment stove is in)
Air Sensor	Yearly (more frequently based upon type of environment stove is in)

### **Cleaning Procedure**

The pellet stove should be cleaned by using following the procedure. This procedure will require gaining access to the front and sides of the unit with enough room to move freely.

If working on a freestanding model, all side panels will need to be removed.

**Caution:** Unplug the stove prior to performing this operation.

### **Tools Required:**

Small soft bristled brush	6mm hex key wrench
Pipe cleaning brush for 2" pipe	Cross-point screwdriver
Ash vacuum	Flat-tip screwdriver
Combustion motor gasket material	Flashlight
High temperature anti-seize compound	Metric socket set

Open the door and remove any ash or pellets from the burn pot and ash pan. Remove the ash pan and burn pot and place them aside.

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## Cast Panel Removal

Using a 6mm hex key wrench or 10mm socket (for older models), remove the bolts securing the lower cast wall. The wall should pull away from the body of the stove. Brush off any ash build-up and set the lower cast wall aside. Examine the lower cast wall gasket for defect. Replace the gasket if broken or pieces are missing.

Using a 6mm hex key wrench or 10mm socket (for older models), remove the two bolts mounting the upper cast wall. Support the panel while the bolts are being removed, since this plate will tend to fall. Brush off any residue on the panel and examine for defect

## Heat Exchange Area Cleaning

Upon cast wall removal, the entire heat exchange system is exposed. Vacuum the ash from the heat exchange area, especially the area between the heat exchange tubes. The soft brush and flat tipped screwdriver can be used to clean around and in between the tubes.

Carefully brush the uppermost interior of the burn area. Clean the grooves on the underside of the cast hood.

## Air Sensor

On the right side of the stove, remove the two screws mounting the air sensor. Carefully remove by pulling up and away from the air intake tube and set aside. Examine the probes that extend into the air intake tube for debris or residue. Clean with a soft cloth.

**Note:** If the residue will not come off with a cloth, use an aerosol circuit board cleaner (readily available at *Radio Shack*).

## Exhaust Manifold

Remove the two screws mounting the circuit board assembly and carefully set aside. On insert models, remove the yellow insulation from the back of the stove.

Remove the round exhaust manifold access plate by turning the thumb screw. On older models, the access plate is rectangular in shape and mounted with four 8mm screws. Thoroughly vacuum out all ash build-up using the pipe brush to reach the sides and corners.

**Important:** The exhaust gas holes, located on the upper left hand side inside the exhaust manifold, must be clear from obstruction. This can be determined by placing a

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flashlight inside the exhaust manifold and then looking into the heat exchange tube area from the front of the stove. The holes should now be visible. If the holes are not visible, remove the obstruction.

Reassemble the access plate and circuit board assembly.

## Combustion Motor

Using a 8mm socket, remove the four screws mounting the combustion motor to its housing. Examine and clean the motor, housing and fan blades carefully. Replace the fan blade if it is bent. Upon completion, regasket the motor and reinstall.

**Caution:** Avoid damage to the fan by not setting the motor fan blade side down. Remove the low limit switch and carefully brush it off. Replace the low limit gasket if it is broken and reinstall.

## Convection Motor

Remove the two convection motor leads from the terminal block. Using an 8mm socket, remove the four screws mounting the convection fan to the stove. Remove the fan by pulling the motor outward.

Carefully clean the fan blades and housing with a soft brush. Clean any foreign material that has accumulated from the shaft and bushings and reassemble.

**Note:** The use of an air compressor works well for this application, but do not spin the fan blade with the compressed air.

## Hopper

Remove the pellets from the Hopper. Vacuum the fines (sawdust) from the auger.

## Reassembly

Prior to re-assembly, apply a generous coating of anti-seize compound to all bolts and nuts which are exposed to heat.

Install the upper cast wall first and then the lower cast wall. Place the ash pan and burn pot back into the stove.

To keep the stove looking like new, apply touch up paint to the burn area.

*The key to trouble-free operation is the routine maintenance. Following these simple maintenance procedures will insure the optimum operation of the pellet stove.*