Pellet Miser
Thermostat adapter

Thank you for your purchase of a Pellet Miser thermostat adapter. This adapter will allow the use of any independent, non-powered millivolt thermostat (battery operated) to control your pellet stove if it was originally equipped with a dial control. The adapter provides several different methods of operation, all without changing the safety or reliability of your heating appliance.

Tools needed:

3/8" or 10mm wrench
Wire stripper

Installation:

Step 1. Unplug your heating appliance

Step 2. Remove the right side cover (facing the machine) with the 3/8" or 10mm wrench. This should be the side panel of the machine where the dial control is located. Two or three bolts hold this in place. The side panel can be removed without removing the bolts (on most models).

Step 3. Locate the USB port on the side of the stove's control module (Figure 1). Plug the USB connector from the Pellet Miser into the USB port of the stove's control module (Figure 2). This plug provides power to the Pellet Miser, and does not access or change any of the data in the control module.

WARNING: The USB can NOT be plugged into another power supply such as a phone charger or computer. This will damage the *Pellet Miser* and may damage the other device.

Figure 1

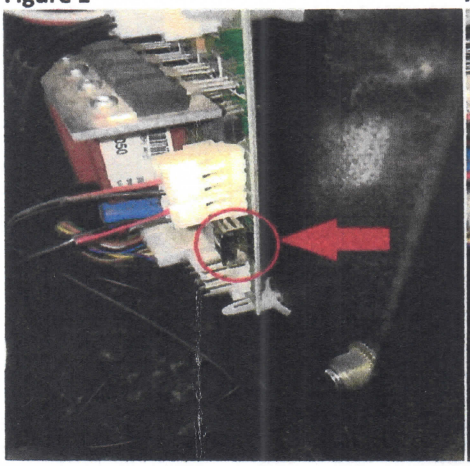
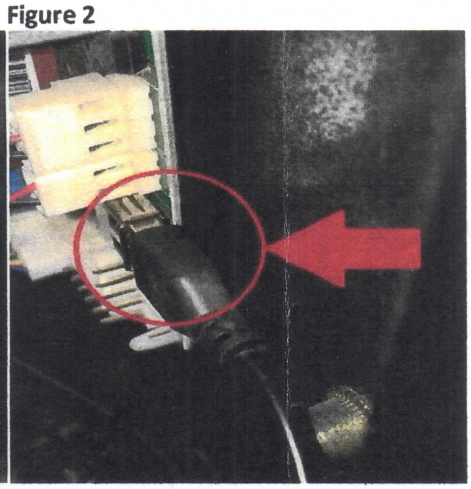


Figure 2



Step 4. Locate the red wire at your stove's dial control (Figure 3). It should be the second from the left. You must carefully peel back about four inches of the black insulation encasing all the wires from the dial control. When you have exposed enough of the red wire, cut the red wire about 3" below the dial control. **DO NOT CUT ANY OTHER WIRE.** Then strip about 1/4" of insulation off each of the loose ends. Each end will connect to the red wires on the Pellet Miser.

Figure 3

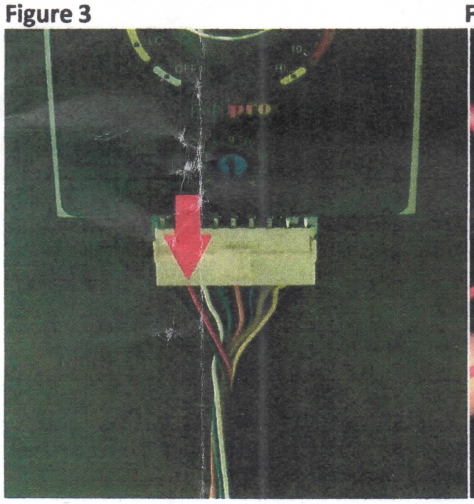
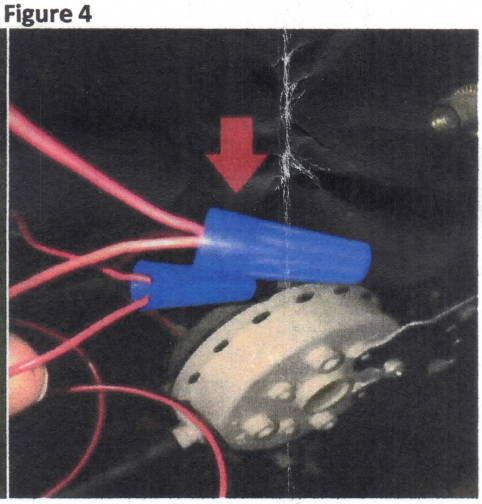


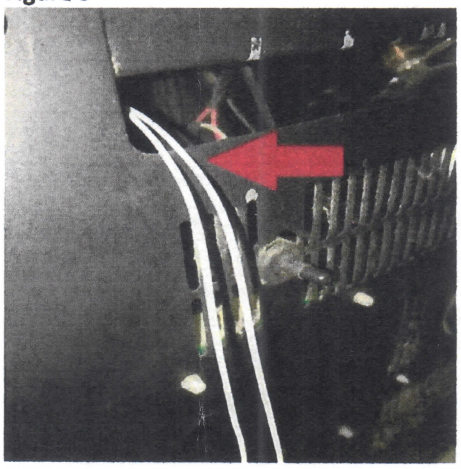
Figure 4



Step 5. Connect each of the red wires from the Pellet Miser to each end of the red wire that you cut. Twist the wires together, then screw on a wire cap (Figure 4).

Step 6. The two white wires from the Pellet Miser go to an independent thermostat of your choice. You can route the wires out the back of the machine through any one of the openings (Figure 5). The wires will connect to the 'Rh' and 'W' terminals on your thermostat. The wires from a typical thermostat cable will be white and red. It does not matter which white wire connects to 'Rh' and 'W'. All the thermostat does is act as an ON-OFF switch for the Pellet Miser.

Figure 5



Step 7. Find a suitable place on the back panel to mount your Pellet Miser, then peel off the protective cover of the Velcro and firmly press into place. The Velcro allows you to remove the Pellet Miser when servicing or replacing parts. **NOTE:** Make sure that the mounting area is clear of moving parts and does not contact hot surfaces.

Step 8. With the cable ties provided, secure any loose wires to avoid contact with hot surfaces or the convection blower impeller. Then re-install the side cover and tighten the bolts securing the cover.

This concludes your installation.

WARNING:

The thermostat that you decide to use to control your stove MUST NOT be connected to another appliance such as a furnace. The 24 volts from a standard furnace will destroy the Pellet Miser AND the control module of your stove. Your thermostat must be completely independent of any other heating or air conditioning device.

If the thermostat requires a battery, it should be fine to use with the Pellet Miser. If in doubt, simply check for voltage with a multimeter at the outputs 'Rh' and 'W' of your thermostat. There should be no voltage.

Testing:

1) Make sure the thermostat is switched to the OFF position.
2) Make sure the stove dial is in the OFF position.
3) Plug your stove in.
4) Wait a few seconds. The green light on your stove will be blinking slowly, indicating ready.
5) Turn ON the wall thermostat by switching it to 'heat", and adjust the temperature up until it kicks on.

If you've installed your Pellet Miser correctly, your stove should start blinking rapidly as it begins the start-up sequence. When the sequence is complete and the stove is running, the light will turn amber to indicate that it is in high. When the thermostat call is met, the stove will turn back off. (This is the OFF-HIGH-OFF setting)

Operation:

There are several different methods of operation each with unique characteristics. At any time you wish to restore your stove to normal operation, simply switch your thermostat to OFF.

OFF - HIGH - OFF

Using this mode requires no special adjustment. The stove is left in the OFF position but will automatically start and ramp up to HIGH when the thermostat calls for heat (The light will be solid amber). When the thermostat is satisfied the stove will automatically begin the shutdown sequence (Green light blinking rapidly). The furnace must shut down completely before it can restart even if the thermostat calls for heat during the shutdown sequence.

ADVANTAGES:
*Maximum fuel savings.

DISADVANTAGES:
* Shorter igniter life.
* Stove can start without warning. Always unplug the stove when servicing, and turn the thermostat to the 'off' position.

NOTE: Simply switching your thermostat off just like you would with your traditional furnace will disable the stove from turning on unexpectedly. To shut the stove off, the dial must be off as well as the thermostat.

IDLE - HIGH - IDLE

Slowly turn the stove's dial control clockwise until it just turns on. The stove will go through the start-up cycle (green light blinking rapidly) then go to low (solid amber light). When the thermostat calls for heat it will cycle up to high (solid amber light) then back down to low when satisfied. The light will stay amber the entire time.

ADVANTAGES:
* Good fuel savings
* Less wear on igniters

DISADVANTAGES:
* Increased soot buildup on glass

COMFORT LEVEL SETTING (1-9)-HIGH

Set the stove to any of the comfort level settings and the stove will switch to high when the thermostat calls for heat. When the thermostat is satisfied, the stove will return to your previous comfort level setting. HOWEVER, if the room temperature now exceeds the comfort level setting the stove may begin the shutdown sequence. When the room temperature drops below the set temperature of the thermostat OR the comfort level setting, the stove will turn back on and run until the temperature call from either one is met.

ADVANTAGES:
*Less soot on glass

DISADVANTAGES:
*Shut downs occur more often, shortening igniter life.

Remember:

*The Pellet Miser only simulates turning the dial to the HIGH position when your thermostat closes the circuit . None of the your stove's programming, safety features, or alarms have been changed.

*Normal operation is returned by simply turning OFF your thermostat.

*Your stove will still require periodic maintenance as shown in your stove's owners manual. The Pellet Miser will not cause OR correct problems with a stove that is dirty or out of adjustment.

*Information from your owners manual always supersedes information given here.

*Always unplug your stove when performing maintenance.