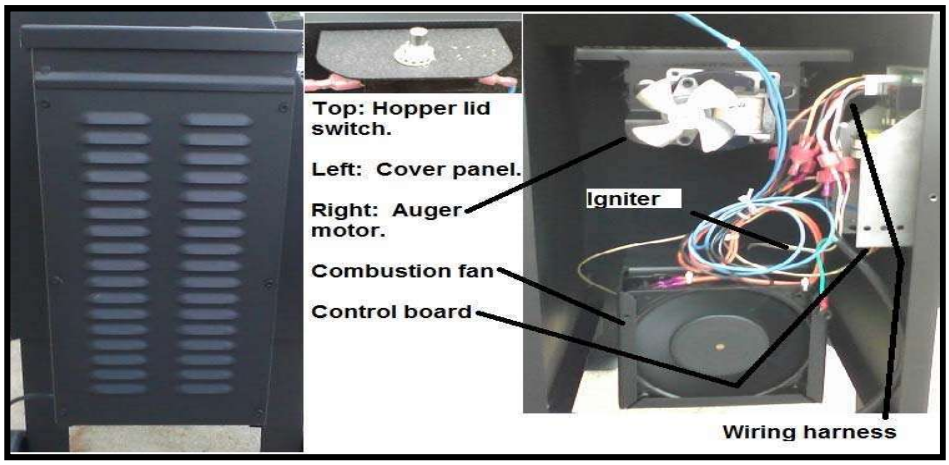
COMPONENT REPLACEMENT

(WARNING: As with any maintenance concerning this unit, be sure the unit is "OFF" and has completed the Shut-Down cycle BEFORE beginning. Unplug the unit. Be aware that metal parts can remain HOT long after the fire has gone out and EVEN after the Shut-Down cycle is complete. Always use extreme caution when handling potentially hot parts, even if you think they should be cold.)

Cover panel

To remove the cover panel: Using a 5/16" socket, loosen and remove the six screws on the cover panel, then slide the panel out and set aside. When finished with any trouble shooting or component replacement, reinstall the panel in the reverse of this method.



Refer to this illustration for the procedures on this page

Combustion fan

Remove the cover panel. Unplug the wires from the fan. Lift the fan up and then remove. *Because the ground wire is attached to the unit on the combustion chamber, it may be necessary to loosen this screw to remove the combustion fan. To install the new fan, use the reverse of this method, being sure to install the fan in the correct direction (with the fan blowing into the chamber).

Hopper lid safety switch

Loosen the ½" nut, and then remove the nut and washer. Unplug the wires from the switch, taking note of where the wires are connected. To install the new switch, connect the wires to the new switch and then place the switch button into the hole and install the nut and washer, being careful not to over-tighten.

Auger motor/Auger

Be sure to remove all the pellets from the hopper before trying to remove the auger or auger motor. Remove the cover panel. Unplug the auger motor wires from the wiring harness.

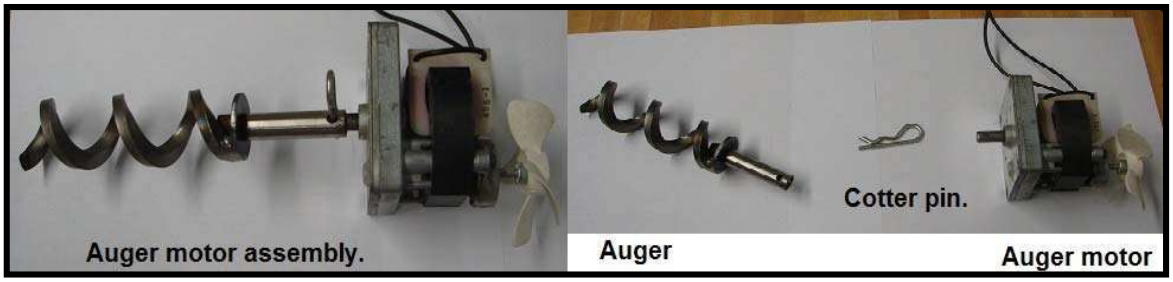
(Continued next page.)

Downloaded from www.Manualslib.com manuals search engine

COMPONENT REPLACEMENT, CONTINUED

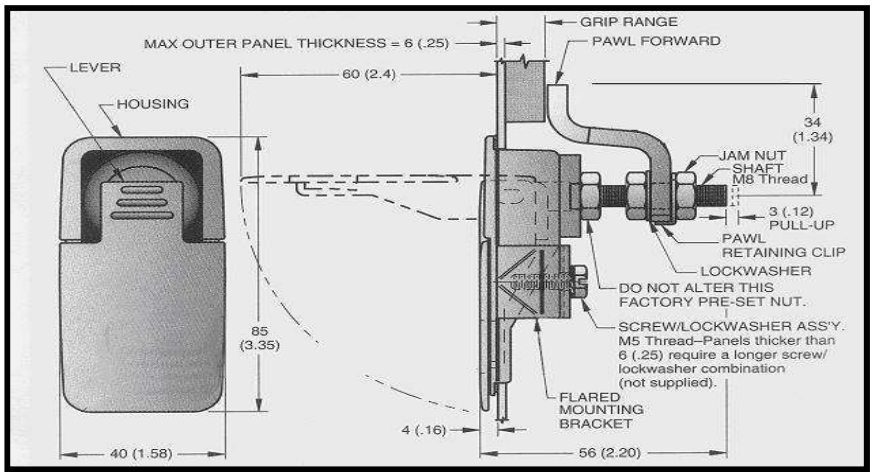
Auger motor/Auger continued

Loosen and remove the two ½" bolts holding the auger motor support shelf, then remove the assembly. You will need a 5/16" socket to remove the two screws that hold the auger motor to the support shelf (from the back side). Then remove the cotter pin that holds the auger to the auger motor. To remove the auger from the support shelf, simply slide it out. To reinstall this assembly, slide the auger in, connect it to the motor using the cotter pin, reinstall the two 5/16" screws through the shelf and motor, and slide the assembly (auger first) back in and reinstall the two ½" bolts.



Hopper lid latches

To adjust the lid latch, the following tools will be needed: two, ½" wrenches (or a wrench and a socket). In order to adjust the latch, first open the hopper lid and then lock the latch in its closed position. Then take the ½" wrench and loosen the nut closest to the latch (see below). This nut is then adjusted closer to the lid itself to tighten the latch. After adjusting this nut to the desired location, hold this nut in place with the ½" wrench, then tighten down the holding nut on the end of the latch shaft with the ½" socket or second wrench, to hold the latching assembly in place. After tightening the latch, test the latch for proper tension by locking the lid down and lifting each front corner of the lid. The lid should be firmly held down by the latch. To replace the latch, remove the 5/16" screw from the bracket, using a socket or wrench. Remove the latch and replace with a new one, and reinstall the 5/16" screw and bracket.

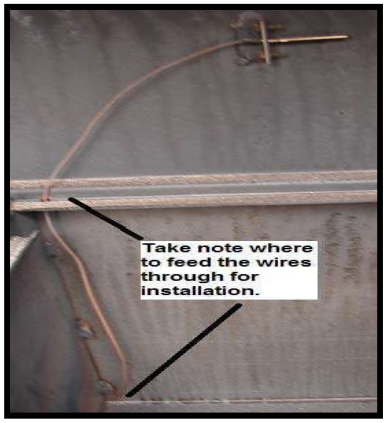


Downloaded from www.Manualslib.com manuals search engine

COMPONENT REPLACEMENT, CONTINUED

Door Thermometer

Open the right side door to the grill. Loosen and remove the wing nut on the thermometer. Then, pull the thermometer out of the door. To replace, put a new thermometer in the opening and reinstall the wing nut.



Refer to this illustration for the procedures on this page

Thermocouple

Remove the cover panel and the control board (see instructions on Page 18). Then, using a small flat head jeweler's screwdriver, loosen the two screws that hold the thermocouple wires in place. (Note which color wires are on which side. The control board should also be marked with an "r" and a "y" directly next to where the wires are connected.) Next, open the front doors and locate the thermocouple along the right side of the rear wall of the grill. Using the 5/16" socket, loosen and remove the two screws that hold the thermocouple to the bracket. You can then pull the wires through and remove the thermocouple (take note as to where the wires feed through, as you will need to put the new wires back through the same way). To install the new thermocouple, feed the wires back through and reattach the thermocouple, using the two screws previously removed. Then reinstall the ends of the wires into the control board in the same position that they were previously. Reinstall the control board, using the same screws that were previously removed.

Exhaust hood and chamber

The exhaust hood and chamber are located on the right side of the grill. To remove, use a 5/16" socket to remove the screws that secure the hood and chamber. Be sure to clean the parts and the side of the grill where the chamber was installed, using a specialty creosote remover and a scraper.

Downloaded from www.Manualslib.com manuals search engine

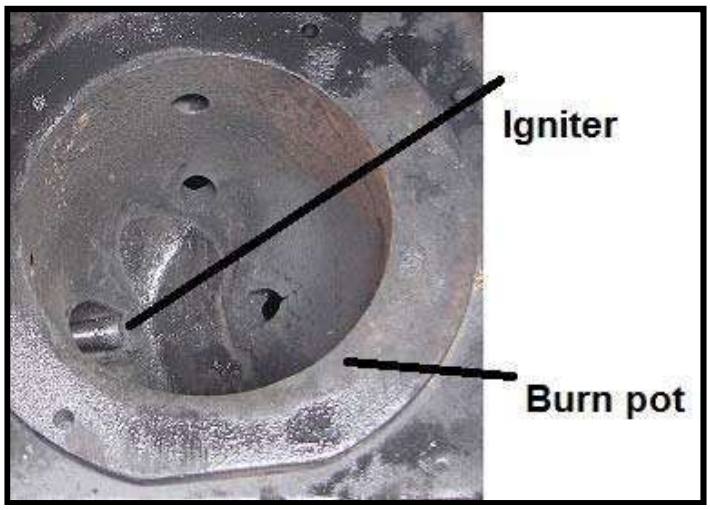
COMPONENT REPLACEMENT, CONTINUED

Burn pot

Remove the cover panel and unplug the igniter from the control board. Remove the cast iron grate inside the grill, and then remove the flame deflector. Pull up on the right side of the burn pot and remove it at an angle. Make sure to feed the ends of the wires (for the igniter) through the hole in the exhaust chamber when pulling out the burn pot.

Igniter

Remove the cover panel and unplug the igniter from the wiring harness. Then, remove the combustion fan. Remove the cast iron grate from inside the fire chamber, and then remove the flame deflector. Remove the burn pot, making sure to feed the ends of the wires down through the hole drilled in the combustion chamber. Loosen the 1/8" allen set screw in the burn pot that secures the igniter. Pull the igniter out. To replace, insert the new igniter and tighten the set screw. Feed the wires back through the combustion chamber and up through the hole. Plug the wires back into the wiring harness and reinstall the combustion fan.



Control Board

Remove the cover panel. Detach the wiring harness from the control board, by squeezing the arm on the clip and pulling slightly. Unplug the white and black wire from the harness for the power cord, then, using a 5/16" socket, remove the two screws that hold the control board in place. To reinstall, attach the two screws, then the white and black wires for the power cord and, lastly, reattach the clip with the wiring harness.

Downloaded from www.Manualslib.com manuals search engine