TIBURON PELLET - ASH PAN
Service Instruction

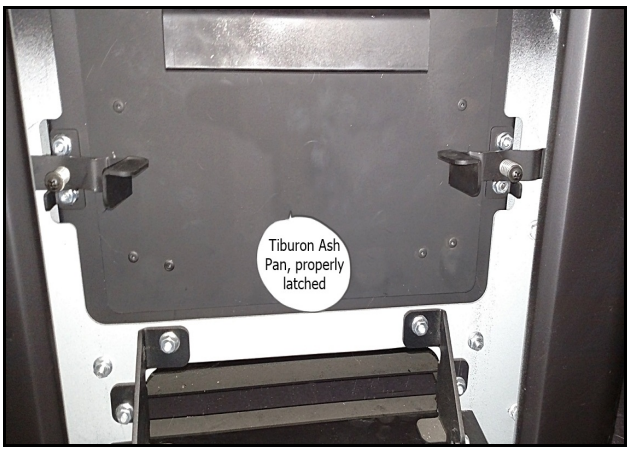

Figure 1

Figure 2

Figure 3

OVERVIEW

The Thelin Pellet heater is equipped with a long life DC fan motor **(Figure 1)**. This motor utilizes a special brush material that may require additional break in time to properly wear in or seat the brushes. When the motor is new the brush has a contoured end that allows for minimum contact initially to facilitate the break in. As this wears the full width of the brush begins to contact the armature allowing for proper operation.

Brush holder with access

We have found that a small quantity of motors have not immediately seated the brushes. The fan motor condition is easily corrected by dressing the brushes and reinstalling them.

Testing for a fan motor brush problem is accomplished by two methods. After recycling the heater by unplugging and reestablishing power. Press the "Fan" switch only. If the fan runs push the Clean button and allow the motor speed to increase to full speed. If the motor appears to be operating at less than full speed cleaning and seating the brushes will be required.

Included in this kit: (2) P/N 00.0035.0213 motor brushes, (1) instruction.

Tools Required: #2 Phillips screw driver, medium flat blade, small flat blade, #200 or fine sand paper strip **(Figure 2)**.

Accessing the motor for brush service: The fan motor is accessed from the bottom of the heater by removing the phillips screws on the Fan Cover. Remove the convection fan blade retention clip and blade. Note the access varies based on heater model and may require removing the fan motor at the housing **(Figure 3)**.

Removing the wire harness connections : Using care not to bend the fan blade, carefully use a flat blade screw driver to help pry off the red and black motor wire terminals **(Figure 3)**. Note the brush holders have a corresponding red and black base to confirm wire connections.

Removing the brush caps: Using a small flat blade screw driver remove one brush cap at a time. Care should be taken as the brush holder has a spring that forces to the brush onto the armature. This spring may cause the cap to pop out unless held firmly **(Figure 5**).

Removing and dressing the brush: Remove the brush from the holder by lifting up and sliding the brush and spring clear **(Figure 4)**. Once the brush is clear hold the brush base and carefully take a couple of swipes across the brush face with fine sand paper **(Figure 5).**

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P/N Tiburon Ash Pan Service 03/18

NOTE: WHEN SANDING THE FACE OF THE BRUSH DO NOT REMOVE ANY MATERIAL. WE ARE ONLY SCUFFING THE SURFACE TO ALLOW FOR BETTER BRUSH CONTACT.

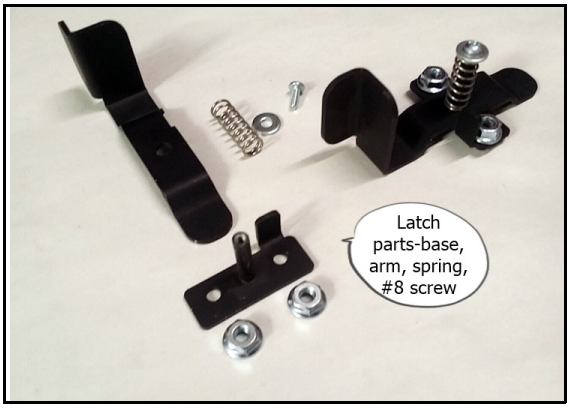

Figure 4

Reinstalling the brush: Insert the brush back into the holder. Hold the terminal tab into the holder. Carefully insert the cap and turn with a small flat bladed screw driver. *Use care not to cross thread the cap.* Once the cap is threaded lightly tighten against terminal tab **(Figure 6)**.

Repeat service on lower brush.

Assembly: Reconnect motor wires to red and black terminals. Check fan blade for bent blades by spinning by hand. If blades are not aligned carefully bend back into place.

Carefully reinstall fan cover and confirm fan alignment and the fan blade turns freely without hitting the shroud.

Figure 5

After completing the installation of the rear panel and tightening all the phillips screws. Plug the heater back into AC power and test run by running fan motor on “Fan” setting for 2 minutes and then running on “Clean” for 30 seconds. Open hopper lid and run unit through a beginning start up by pressing “Low” and allowing fan to ignitor and fan to start up. If all appears to activate reinstall unit.

Additional information is available on line:

http://www.thelinco.com/customer-support/maintenance/index.php

Technical Customer Service - 775-241-2586 or tech@thelinco.com.

Figure 6