

HOT SURFACE IGNITOR REPLACEMENT INSTRUCTIONS

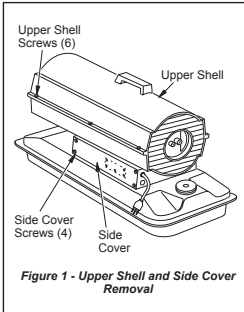


Figure 1 - Upper Shell and Side Cover Removal

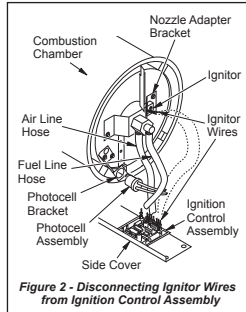


Figure 2 - Disconnecting Ignitor Wires from Ignition Control Assembly

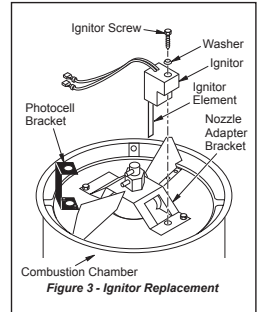


Figure 3 - Ignitor Replacement

- 1. Removing Old Assembly.** Using a 5/16" Nut Driver, remove the six upper shell screws and four side cover screws and remove the upper shell cover and side panel cover. (see Figure 1).
- 2. Carefully disconnect the two ignitor wires from ignition control circuit board assembly.** These wires may currently be yellow, orange, grey or purple on your unit, but they will all be replaced by the new ignitor using the 2 yellow wires. It does not matter which yellow ignitor wire goes to the 2 ignitor labeled spades on the ignition control circuit board assembly. (see Figure 2).
- 3. Pull ignitor wires up through hole in lower shell.**
- 4. Carefully disconnect rear fuel supply line hose and front air supply line hose from the nozzle adapter.** Use caution when removing these lines on units with a plastic adapter, too much force will cause the plastic hose barbs on the nozzle adapter to crack off. The air supply line coming from the motor air pump goes to the rear hose barb connection on the nozzle adapter connection. The fuel supply line coming from the tank goes to the front hose barb on the nozzle adapter connection. Remove photocell from photocell bracket (see Figure 2).
- 5. Remove complete combustion chamber from the heater body.** Stand combustion chamber on end with nozzle adapter bracket on top (see Figure 3).
- 6. Remove ignitor screw with a 1/4" nut driver.** Carefully remove ignitor from nozzle adapter bracket.
- 7. Carefully remove replacement ignitor from packing.** Do not touch the Black Ceramic end on the ignitor this may cause immediate damage to the ignitor or can greatly reduce the life of the newly installed ignitor.
- 8. Being extremely careful,** guide the new ignitor through the opening in nozzle adapter bracket and seat the ignitor into position. Use caution not to strike ignitor element in any way. Attach ignitor to nozzle adapter bracket screw that was removed during disassembly using a 1/4" nut driver. (see Figure 3). Torque 8 to 15 in. lbs. **Do not over torque or immediate damage may occur.**
- 9. Carefully replace combustion chamber.**

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10. **Route yellow ignitor wires back down through hole in lower shell and back to the ignition control circuit board assembly.** Carefully connect the two yellow wires to ignition control circuit board assembly. It does not matter which yellow ignitor wire goes to the 2 ignitor labeled spades on the ignition control circuit board assembly. (see Figure 2).
11. **Using a 5/16" Nut Driver, reinstall side cover to heater** using the four screws that were previously removed. Tighten screws until snug. Do not over torque.
12. **Route and connect fuel supply line hose and air supply line hose** to nozzle adaptor hose barbs on the combustion chamber burner head. (see Figure 2).
13. **Replace photocell in photocell bracket, wires are to be routed as shown in Figure 2.**
14. **Replace upper shell and reinstall 6 screws using 5/16" Nut Driver.**