

## Maintenance Procedures for Gasolec M-Type heaters

There are several tell tale signs your heaters are requiring maintenance.

1. If the flame has left the round burner and burning open in or out of the reflector.

*Remove and clean the filter by blowing compressed air through it. If this does not remedy the situation you may need to clean the interior of the burner pipe and venturi as well. (refer to the attached service instructions).*

2. Carbon deposits are visible in or around the round burner.

*Remove and clean the filter by blowing compressed air through it. If this does not remedy the situation you may need to clean the interior of the burner pipe and venturi as well. (refer to the attached service instructions).*

3. The round burner is not glowing bright orange/red on high burn.

*Most likely there is an obstruction blocking gas flow to the heater. Check for obstructions at the jet, safety device and the overhead connection. If gas pressure is low, all heaters controlled by the same regulator would have similar symptoms.*

5. The round burner is beginning to crack and ripple along the top edge.

*This is not uncommon when heaters have been neglected for extended periods of time, and typically caused from lack of filter maintenance. You can replace the round burner by drilling the rivets that secure the round burner to the reflector. Make sure to use stainless steel rivets when installing the new round burner.*

### Downtime

At the end of a heating period you may want to exercise the following practices.

1. Blow all dust and contaminates from each unit. (leaf blower or air compressor)

2. Remove the filters. After a heating period, the filters should be removed and thoroughly cleaned and blown out by some means of compressed air. (leaf blower or air compressor)

3. Inspect the heaters. At this time it is always a good idea to inspect the interior of the tee piece assembly for dust accumulation. If dust is visibly building in the intake or on the venturi and burner pipe, it is necessary to blow the heater out thoroughly as well. (once again, compressed air or leaf blowers are commonly used for this simple process). If pressure washing is part of your routine, you may wash your Gasolec's as well. Their stainless steel construction is fully capable of withstanding this procedure.

4. Bag or store your heaters. While this is not mandatory, it does keep your heaters in a ready state after the above mentioned procedures are completed.

The following pages guide you through the disassembly and assembly of a Gasolec M-8. These procedures apply (in general) to all of the M series heaters, M2, M3, M5 and M8's.

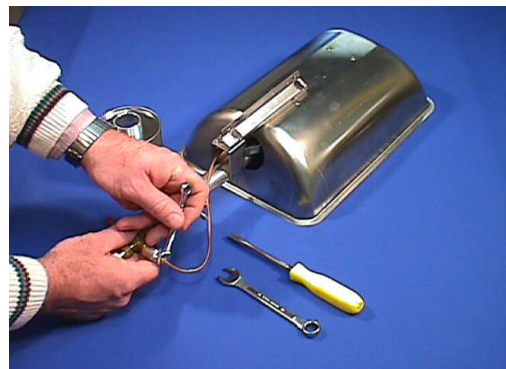
A trouble shooting checklist is included as well.

For additional information, please contact your Gasolec representative.

# Service Instructions



1. Gather tools needed: Slotted screwdriver, 5/16" or 8mm wrench and a 13 mm wrench.



2. With a 5/16" or 8mm wrench, loosen thermocouple from safety device.



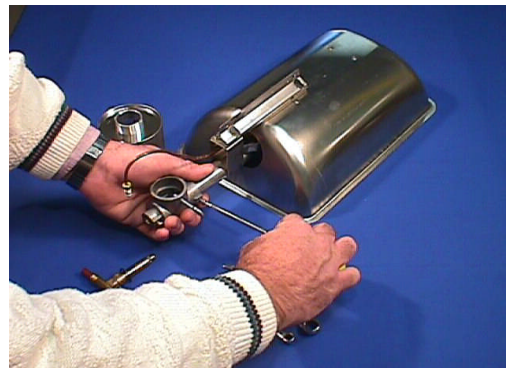
3. Rotate thermocouple out of your way.



4. Loosen 1<sup>st</sup> screw in the tee-piece.



5. Remove the safety device/jet holder assembly from of the tee piece.



6. Loosen 2<sup>nd</sup> screw in the tee piece.



7. Remove tee piece from the burner pipe.



8. Locate brass venturi within the burner pipe.



9. Remove brass venturi from burner pipe.



10. Grasp the safety device/jet holder assembly, taking care to not put pressure against the by-pass button. Attach your 5/16" or 8mm wrench to the hex head on the jet.



11. Remove the jet from the jet holder.



12. Attach your 13 mm wrench to the hex head on the interior coil cover.  
**Warning! The gas supply must be cut off prior to performing this step.**





13. Remove interior coil from safety device.



14. You have now disassembled the heater enough to perform a general cleaning and inspection.



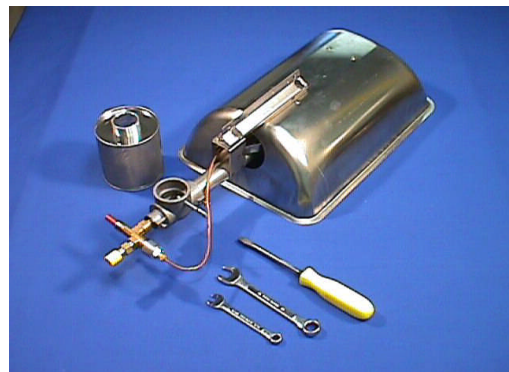
15. To clean the jet orifice apply compressed air to both ends of the jet.  
**Warning! Never insert any object into the orifice to dislodge foreign material.**



16. To clean the brass venturi, first blow out the interior with compressed air.



17. With a soft cloth or paper towel, clean the interior wall of the brass venturi.



After cleaning and inspection of all parts, you may reassemble the heater in the reverse order. *Note: Do not over tighten the thermocouple, jet or screws in tee piece during re-assembly.*

# Troubleshooting Checklist

<u>Problem</u>	<u>Cause/Solution</u>
One heater doesn't light	<p>Check individual gas valve to make sure it is open.</p> <p>Check for air in gas line, and/or purge.</p> <p>Check for gas flow by depressing the button on the safety device.</p> <p>Check for debris in the gas line, safety device and the jet (orifice).</p>
None of the heaters light	<p>Check to see if the main gas valve is open.</p> <p>Adjust regulators to the maximum operating for your system. (if you don't know the maximum pressure for your system, contact your Gasolec representative).</p> <p>Check the gas storage supply (is the tank empty?)</p> <p>Check for an obstruction in the supply line.</p>
One heater lights and then goes out.	<p>Check to see if the thermocouple is correctly positioned at the back of the round burner. Check if the thermocouples connection to the safety device is tight.</p> <p>If this does not satisfy the problem then replace the thermocouple. If the problem persist, check the interior coil inside the safety device.</p>
Heater burns with an abnormally large flame exiting the round burner.	<ul style="list-style-type: none"><li>-Dirty or clogged filter. / Clean the filter.</li><li>-Dirty interior of burner pipe. / Clean interior of burner pipe and venturi.</li><li>-Loose jet / tighten jet in jet holder using a drop of loctite.</li><li>-Gas pressure is to high. / decrease gas pressure to the maximum amount recommended for your heaters. / contact a Gasolec representative for this information.</li></ul>
Strong gas odor.	<p>Shut off main gas supply, and call a gas service man.</p>