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<th>TROUBLE</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTIONS</th>
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| Pilot will not stay lit when lighting the pilot... | ♦ There is air in the gas line.  
♦ The pilot orifice is clogged.  
♦ The thermocouple is defective.  
♦ The pilot safety valve is defective. | ♦ Bleed the air out or continue to ignite the brooder until all the air is purged.  
♦ Remove and clean the orifice as necessary.  
♦ Replace the thermocouple.  
♦ Replace the gas valve. |
| Brooder shuts off on pilot safety (i.e. pilot goes out)... | ♦ The pilot orifice is clogged.  
♦ The supply pressure is insufficient.  
♦ The thermocouple is defective.  
♦ The pilot safety valve is defective. | ♦ Remove and clean the orifice as necessary.  
♦ Check the manifold gas pressure and adjust as necessary.  
♦ Replace the thermocouple.  
♦ Replace the gas valve. |
| Brooder is not glowing red... | ♦ The supply gas pressure is too low.  
♦ The gas piping size is incorrect.  
♦ The orifice is clogged.  
♦ The orifice size is incorrect. | ♦ Check the manifold gas pressure and adjust as necessary.  
♦ If you are not sure of the performance, use the NFPA 54 gas pipe sizing table in this manual.  
♦ Remove and clean the orifice as necessary.  
♦ See the instructions for correct orifice size and replace if necessary. |
| Brooder will not attain the desired temperature... | ♦ There is insufficient heat in the building for heat loss (i.e., not enough brooders).  
♦ The thermostat sensing bulb is incorrectly placed.  
♦ The thermostat is out of calibration. | ♦ Conduct a heat loss and add brooders or other source of heat as necessary.  
♦ Reposition the sensing bulb as necessary for proper operation.  **NOTE:** The sensing bulb should be shielded from direct radiation to prevent short cycling of the brooder.  
♦ Recalibrate (if possible) or replace. |
| Flames flaring up, outside of emitter surface... | ♦ The gas pressure is too high.  
♦ The orifice size is incorrect.  
♦ The type of gas supplied to the brooder is incorrect.  
♦ There is insufficient combustion air. | ♦ Check the manifold gas pressure and adjust if necessary.  
♦ See instructions for correct orifice size and replace if necessary.  
♦ Check the nameplate to identify the correct type of gas the brooder is equipped to operate using.  
♦ Clean the inside of the burner with a wire brush and blow out with compressed air. |