



## Caution- Repair must be performed by a qualified service technician.

Major Steps	Graphics/Key Points
<p>Tools needed to replace or install new igniter assembly</p> <ol style="list-style-type: none"> <li>3/8" wrench</li> <li>7/16" wrench</li> <li>5/16" nut driver</li> <li>Phillips screw driver</li> </ol> <p><b>Removing old pilot assembly:</b></p> <ol style="list-style-type: none"> <li>Shut off fuel before proceeding</li> <li>Use a 3/8" wrench to remove thermocouple</li> <li>Use a 7/16" wrench to remove pilot tube</li> <li>Disconnect spark igniter from igniter module</li> </ol> <p><b>New pilot assembly with use of transition plate:</b></p> <p>NOTE: The transition plate is only necessary if converting rectangular pilot shroud with smaller pilot shroud. See Fig. 2 for example of assembly stack up.</p> <ol style="list-style-type: none"> <li>Attach transition plate to existing hole for pilot in pan</li> <li>Slide new pilot assembly through hole of transition plate and mount pilot assembly to plate</li> </ol> <p><b>Installing new pilot assembly:</b></p> <ol style="list-style-type: none"> <li>Connecting pilot tube to valve <ol style="list-style-type: none"> <li>Install new 433 compression fitting</li> <li>Insert tube into compression fitting until it stops. (Fig. 1)</li> <li>Tighten the compression fitting using a 7/16" wrench 1 full turn (or until compression is tight) <ol style="list-style-type: none"> <li>As a guide make a mark on the compression nut to help assist the amount of rotations.</li> </ol> </li> <li>Pull and twist pilot tube to ensure that tube is tight.</li> </ol> </li> <li>Connect the thermocouple to the valve <ol style="list-style-type: none"> <li>Tighten to snug using a 3/8" wrench. <ol style="list-style-type: none"> <li>Ensure thermocouple nut adaptor is installed to ensure correct threads (if applicable)</li> <li>Over tightening will damage the connection <ul style="list-style-type: none"> <li>Hand tighten, then using a 3/8" wrench tighten 2 flats on nut or until snug fit</li> </ul> </li> </ol> </li> </ol> </li> <li>Connect spark igniter to spark module <ol style="list-style-type: none"> <li>Ensure that connector is fully seated onto module</li> </ol> </li> <li>Turn on fuel</li> </ol> <p><b>Caution:</b></p> <ol style="list-style-type: none"> <li>Thoroughly check connections for leaks with leak detector.</li> <li>No thread sealer is required for installation.</li> </ol>	<p>1</p> <p>2</p>