

TEST STEP		RESULT	ACTION TO TAKE
<b>DL1</b>	<b>SERVICE CODE 31: INDUCE CODE 35</b>		
<p>Service Code 31 indicates that the Pressure Feedback EGR (PFE) sensor signal is less than the Self-Test minimum value of 0.2 volts.</p> <p>Possible causes are:</p> <ul style="list-style-type: none"> <li>— Faulty PFE sensor.</li> <li>— Open harness circuits.</li> <li>— Shorted harness circuits.</li> <li>— Faulty processor.</li> <li>• Key off.</li> <li>• Disconnect PFE sensor.</li> <li>• Jumper VREF circuit to PFE circuit at PFE sensor vehicle harness connector.</li> <li>• Perform Key On, Engine Off Self-Test.</li> </ul> <p><b>NOTE: If no codes are generated, immediately remove jumper and go directly to Step <b>DL4</b>.</b></p> <ul style="list-style-type: none"> <li>• Is Code 35 present (ignore all other codes)?</li> </ul>		<p>Yes</p> <p>No</p>	<p>REPLACE PFE sensor. REMOVE Jumper. RERUN Quick Test.</p> <p>REMOVE jumper. GO to <b>DL2</b>.</p>
<b>DL2</b>	<b>MEASURE VREF CIRCUIT VOLTAGE</b>		
<ul style="list-style-type: none"> <li>• Key off.</li> <li>• PFE sensor disconnected.</li> <li>• DVOM on 20 volt scale.</li> <li>• Key on, engine off.</li> <li>• Measure voltage between VREF circuit and SIG RTN circuit at the PFE sensor vehicle harness connector.</li> <li>• Is voltage between 4 and 6 volts?</li> </ul>		<p>Yes</p> <p>No</p>	<p>GO to <b>DL3</b>.</p> <p>GO to Pinpoint Test Step <b>C1</b>.</p>
<b>DL3</b>	<b>CHECK PFE CIRCUIT CONTINUITY</b>		
<ul style="list-style-type: none"> <li>• Key off.</li> <li>• PFE sensor disconnected.</li> <li>• Disconnect processor 60 pin connector. Inspect for damaged or pushed out pins, corrosion, loose wires, etc. Service as necessary.</li> <li>• Install breakout box, leave processor disconnected.</li> <li>• DVOM on 200 ohm scale.</li> <li>• Measure resistance between PFE circuit at the PFE sensor vehicle harness connector and Test Pin 27 at the breakout box.</li> <li>• Is resistance greater than 5 ohms?</li> </ul>		<p>Yes</p> <p>No</p>	<p>SERVICE open circuit. REMOVE breakout box. RECONNECT all components. RERUN Quick Test.</p> <p>GO to <b>DL4</b>.</p>

Pinpoint Test DL1 Thru DL3 - Pressure Feedback EGR (PFE)/EGR Valve Regulator (EVR)