



Hotline Archive	<i>With Service Manual diagrams, components, TSBs, and R&R procedures</i>	
Number:	489585	
Vehicle Application:	2009 G8 3.6 2009 G8 6.0	2009 G8 6.2
Customer Concern:	The Service Charging System message is displayed. Engine Control Module (ECM) DTC P0621 The alternator has been replaced. If battery is applied to the "L" terminal of the regulator, the new alternator will charge.	
Average Reported Mileage:	95000	
Tests/Procedures:	<ol style="list-style-type: none"> 1. Disconnect the regulator connector. 2. Start and run the engine. 3. Measure the duty cycle on the Orange/White wire at the regulator connector. 4. Compare this measured value to the commanded value displayed on the scanner for "GEN F-Terminal Signal". 5. If the values match, replace the incorrect alternator. 	
Tech Tips:	This charging system uses a pulse width modulated 5 volt circuit to command the regulator to charge the system at specific voltages.	
Author:	Jim Watson	
Related Document(s):	Charging System Description and Operation	
Diagnostic Codes	⊕ P0621	
Potential Causes	 <i>With Service Manual diagrams, components, TSBs, and R&R procedures</i> <input type="checkbox"/> Alternator	
Confirmed Fix Summary	 <i>With Service Manual diagrams, components, TSBs, and R&R procedures</i>	
🎯 Confirmed Fix	<input type="checkbox"/> 20 - Replaced Alternator <input type="checkbox"/> 1 - Replaced Horn Fuse <input type="checkbox"/> 1 - Replaced Alternator and Replaced Horn Fuse <input type="checkbox"/> 1 - Replaced Starter	