

Body Control Module Diagnostic Information (cont'd)

Symptom	Procedure
Engine coolant temperature gauge does not operate properly.	<p>Use the scan tool in order to monitor the PCM.</p> <ul style="list-style-type: none"> • If there is an incorrect engine coolant temperature signal, refer to <i>A Powertrain On Board Diagnostic (OBD) System Check</i> in Engine Controls for a diagnosis. • If the signal is OK, use the scan tool in order to monitor the BCM to cluster data. <ul style="list-style-type: none"> – If there is an incorrect engine coolant temperature signal, perform an instrument cluster WOW in SPECIAL FUNCTIONS. – If the engine coolant temperature gauge still does not read correctly, and the BCM is transmitting the wrong signal, replace the BCM. Refer to <i>Body Control Module Replacement</i> and <i>BCM Programming/RPO Configuration</i>. – If the engine coolant temperature signal is OK, replace the instrument cluster. Refer to <i>IP Cluster Replacement</i> in Instrument Panel, Gauges and Console.
Fuel gauge does not operate properly.	<ol style="list-style-type: none"> 1. Perform an instrument cluster WOW in SPECIAL FUNCTIONS. 2. Replace the cluster if the gauge does not sweep full range. Refer to <i>IP Cluster Replacement</i> in Instrument Panel, Gauges and Console. 3. Use a <i>Scan Tool</i> in order to read the DTC's. <p>Refer to <i>DTC P0462 Fuel Level Sensor Circuit Low Voltage</i> and <i>DTC P0463 Fuel Level Sensor Circuit High Voltage</i> or any Loss of Serial Peripheral Interface (SPI) DTCs.</p>
ABS indicator lights continuously with no loss of serial data.	<p>Use the scan tool in order to monitor the electronic brake control module (EBCM).</p> <ul style="list-style-type: none"> • If the EBCM is commanding the BCM to turn the ABS indicator on, refer to the <i>A Diagnostic System Check - ABS</i> for diagnosis. • If the EBCM is commanding the ABS indicator off, use the scan tool in order to monitor the BCM SPI serial data bus. • Inspect the CKT 849 at the level switch for a short to ground. • Replace the level switch with a known good switch if a short to ground is found in CKT 849. <ul style="list-style-type: none"> – If the BCM is commanding the ABS indicator on, replace the BCM. Refer to <i>Body Control Module Replacement</i> and <i>BCM Programming/RPO Configuration</i>. – If the BCM is commanding the ABS indicator off, replace the Instrument Cluster. Refer to <i>IP Cluster Replacement</i> in Instrument Panel, Gauges and Console.