

SECTION 419-10 Multifunction Electronic Modules

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DIAGNOSIS AND TESTING**Diagnostic Trouble Code (DTC) Chart****NOTE:**

Most powertrain (P-code) DTCs are diagnosed in the Powertrain Control/Emissions Diagnosis (PC/ED) manual. If the P-code retrieved is not listed below, refer to the Powertrain Control/Emissions Diagnosis (PC/ED) manual to continue diagnostics.

NOTE:

Some of these modules utilize a 5-character DTC followed by a 2-character failure-type code. The failure-type code provides information about specific fault conditions such as opens, or shorts to ground. Continuous memory DTCs have an additional 2-character DTC status code suffix to assist in determining DTC history.

DTC	Description	Source	Action
B0001:11	Driver Frontal Stage 1 Deployment Control: Circuit Short To Ground	Restraints Control Module (RCM)	REFER to Section 501-20B.
B0001:12	Driver Frontal Stage 1 Deployment Control: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B0001:13	Driver Frontal Stage 1 Deployment Control: Circuit Open	RCM	REFER to Section 501-20B.
B0001:1A	Driver Frontal Stage 1 Deployment Control: Circuit Resistance Below Threshold	RCM	REFER to Section 501-20B.
B0001:2B	Driver Frontal Stage 1 Deployment Control: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B0001:4A	Driver Frontal Stage 1 Deployment Control: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0002:11	Driver Frontal Stage 2 Deployment Control: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0002:12	Driver Frontal Stage 2 Deployment Control: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B0002:13	Driver Frontal Stage 2 Deployment Control: Circuit Open	RCM	REFER to Section 501-20B.
B0002:1A	Driver Frontal Stage 2 Deployment Control: Circuit Resistance Below Threshold	RCM	REFER to Section 501-20B.
B0002:2B	Driver Frontal Stage 2 Deployment Control: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B0002:4A	Driver Frontal Stage 2 Deployment Control: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0004:11	Driver Knee Bolster Deployment Control: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0004:12	Driver Knee Bolster Deployment Control: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B0004:13	Driver Knee Bolster Deployment Control: Circuit Open	RCM	REFER to Section 501-20B.
B0004:1A	Driver Knee Bolster Deployment Control: Circuit Resistance Below Threshold	RCM	REFER to Section 501-20B.
B0004:2B	Driver Knee Bolster Deployment Control: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B0004:4A	Driver Knee Bolster Deployment Control: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0005:11	Collapsible Steering Column Deployment Control: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0005:12	Collapsible Steering Column Deployment Control: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B0005:13	Collapsible Steering Column Deployment Control: Circuit Open	RCM	REFER to Section 501-20B.
B0005:1A	Collapsible Steering Column Deployment Control: Circuit Resistance Below Threshold	RCM	REFER to Section 501-20B.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
B0005:2B	Collapsible Steering Column Deployment Control: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B0005:4A	Collapsible Steering Column Deployment Control: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0010:11	Passenger Frontal Stage 1 Deployment Control: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0010:12	Passenger Frontal Stage 1 Deployment Control: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B0010:13	Passenger Frontal Stage 1 Deployment Control: Circuit Open	RCM	REFER to Section 501-20B.
B0010:1A	Passenger Frontal Stage 1 Deployment Control: Circuit Resistance Below Threshold	RCM	REFER to Section 501-20B.
B0010:2B	Passenger Frontal Stage 1 Deployment Control: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B0010:4A	Passenger Frontal Stage 1 Deployment Control: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0011:11	Passenger Frontal Stage 2 Deployment Control: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0011:12	Passenger Frontal Stage 2 Deployment Control : Circuit Short To Battery	RCM	REFER to Section 501-20B.
B0011:13	Passenger Frontal Stage 2 Deployment Control: Circuit Open	RCM	REFER to Section 501-20B.
B0011:1A	Passenger Frontal Stage 2 Deployment Control: Circuit Resistance Below Threshold	RCM	REFER to Section 501-20B.
B0011:2B	Passenger Frontal Stage 2 Deployment Control: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B0011:4A	Passenger Frontal Stage 2 Deployment Control: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0020:11	Left Side Airbag Deployment Control: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0020:12	Left Side Airbag Deployment Control: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B0020:13	Left Side Airbag Deployment Control: Circuit Open	RCM	REFER to Section 501-20B.
B0020:1A	Left Side Airbag Deployment Control: Circuit Resistance Below Threshold	RCM	REFER to Section 501-20B.
B0020:2B	Left Side Airbag Deployment Control: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B0020:4A	Left Side Airbag Deployment Control: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0021:11	Left Curtain Deployment Control 1: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0021:12	Left Curtain Deployment Control 1: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B0021:13	Left Curtain Deployment Control 1: Circuit Open	RCM	REFER to Section 501-20B.
B0021:1A	Left Curtain Deployment Control 1: Circuit Resistance Below Threshold	RCM	REFER to Section 501-20B.
B0021:2B	Left Curtain Deployment Control 1: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B0021:4A	Left Curtain Deployment Control 1: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0028:11	Right Side Airbag Deployment Control: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0028:12	Right Side Airbag Deployment Control: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B0028:13	Right Side Airbag Deployment Control: Circuit Open	RCM	REFER to Section 501-20B.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
B0028:1A	Right Side Airbag Deployment Control: Circuit Resistance Below Threshold	RCM	REFER to Section 501-20B.
B0028:2B	Right Side Airbag Deployment Control: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B0028:4A	Right Side Airbag Deployment Control: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0029:11	Right Curtain Deployment Control 1: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0029:12	Right Curtain Deployment Control 1: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B0029:13	Right Curtain Deployment Control 1: Circuit Open	RCM	REFER to Section 501-20B.
B0029:1A	Right Curtain Deployment Control 1: Circuit Resistance Below Threshold	RCM	REFER to Section 501-20B.
B0029:2B	Right Curtain Deployment Control 1: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B0029:4A	Right Curtain Deployment Control 1: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0050:11	Driver Seatbelt Sensor: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0050:12	Driver Seatbelt Sensor: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B0050:13	Driver Seatbelt Sensor: Circuit Open	RCM	REFER to Section 501-20B.
B0050:1D	Driver Seatbelt Sensor: Circuit Current Out Of Range	RCM	REFER to Section 501-20B.
B0050:2B	Driver Seatbelt Sensor: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B0050:4A	Driver Seatbelt Sensor: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0052:11	Passenger Seatbelt Sensor: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0052:12	Passenger Seatbelt Sensor: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B0052:13	Passenger Seatbelt Sensor: Circuit Open	RCM	REFER to Section 501-20B.
B0052:1D	Passenger Seatbelt Sensor: Circuit Current Out Of Range	RCM	REFER to Section 501-20B.
B0052:2B	Passenger Seatbelt Sensor: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B0052:4A	Passenger Seatbelt Sensor: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0080:11	Driver Seatbelt Load Limiter Deployment Control: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0080:12	Driver Seatbelt Load Limiter Deployment Control: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B0080:13	Driver Seatbelt Load Limiter Deployment Control: Circuit Open	RCM	REFER to Section 501-20B.
B0080:1A	Driver Seatbelt Load Limiter Deployment Control: Circuit Resistance Below Threshold	RCM	REFER to Section 501-20B.
B0080:2B	Driver Seatbelt Load Limiter Deployment Control: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B0080:4A	Driver Seatbelt Load Limiter Deployment Control: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0082:11	Passenger Seatbelt Load Limiter Deployment Control: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0082:12	Passenger Seatbelt Load Limiter Deployment Control: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B0082:13	Passenger Seatbelt Load Limiter Deployment Control: Circuit Open	RCM	REFER to Section 501-20B.
B0082:1A	Passenger Seatbelt Load Limiter Deployment Control: Circuit Resistance Below Threshold	RCM	REFER to Section 501-20B.
B0082:2B	Passenger Seatbelt Load Limiter Deployment Control: Signal Cross Coupled	RCM	REFER to Section 501-20B.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
B0082:4A	Passenger Seatbelt Load Limiter Deployment Control: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0090:11	Left Frontal Restraints Sensor: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0090:4A	Left Frontal Restraints Sensor: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0090:81	Left Frontal Restraints Sensor: Invalid Serial Data Received	RCM	REFER to Section 501-20B.
B0090:93	Left Frontal Restraints Sensor: No Operation	RCM	REFER to Section 501-20B.
B0090:96	Left Frontal Restraints Sensor: Component Internal Failure	RCM	REFER to Section 501-20B.
B0091:11	Left Side Restraints Sensor 1: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0091:4A	Left Side Restraints Sensor 1: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0091:81	Left Side Restraints Sensor 1: Invalid Serial Data Received	RCM	REFER to Section 501-20B.
B0091:93	Left Side Restraints Sensor 1: No Operation	RCM	REFER to Section 501-20B.
B0091:96	Left Side Restraints Sensor 1: Component Internal Failure	RCM	REFER to Section 501-20B.
B0092:11	Left Side Restraints Sensor 2: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0092:4A	Left Side Restraints Sensor 2: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0092:81	Left Side Restraints Sensor 2: Invalid Serial Data Received	RCM	REFER to Section 501-20B.
B0092:93	Left Side Restraints Sensor 2: No Operation	RCM	REFER to Section 501-20B.
B0092:96	Left Side Restraints Sensor 2: Component Internal Failure	RCM	REFER to Section 501-20B.
B0095:11	Right Frontal Restraints Sensor: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0095:4A	Right Frontal Restraints Sensor: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0095:81	Right Frontal Restraints Sensor: Invalid Serial Data Received	RCM	REFER to Section 501-20B.
B0095:93	Right Frontal Restraints Sensor: No Operation	RCM	REFER to Section 501-20B.
B0095:96	Right Frontal Restraints Sensor: Component Internal Failure	RCM	REFER to Section 501-20B.
B0096:11	Right Side Restraints Sensor 1: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0096:4A	Right Side Restraints Sensor 1: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0096:81	Right Side Restraints Sensor 1: Invalid Serial Data Received	RCM	REFER to Section 501-20B.
B0096:93	Right Side Restraints Sensor 1: No Operation	RCM	REFER to Section 501-20B.
B0096:96	Right Side Restraints Sensor 1: Component Internal Failure	RCM	REFER to Section 501-20B.
B0097:11	Right Side Restraints Sensor 2: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B0097:4A	Right Side Restraints Sensor 2: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B0097:81	Right Side Restraints Sensor 2: Invalid Serial Data Received	RCM	REFER to Section 501-20B.
B0097:93	Right Side Restraints Sensor 2: No Operation	RCM	REFER to Section 501-20B.
B0097:96	Right Side Restraints Sensor 2: Component Internal Failure	RCM	REFER to Section 501-20B.
B00A0:09	Occupant Classification System: Component Failures	RCM	REFER to Section 501-20B.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
B00A0:4A	Occupant Classification System: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B00A0:63	Occupant Classification System: Circuit / Component Protection Time-Out	RCM	REFER to Section 501-20B.
B00A0:64	Occupant Classification System: Signal Plausibility Failure	RCM	REFER to Section 501-20B.
B00A0:68	Occupant Classification System: Event Information	RCM	REFER to Section 501-20B.
B00B5:11	Driver Seat Track Position Restraints Sensor: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B00B5:12	Driver Seat Track Position Restraints Sensor: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B00B5:13	Driver Seat Track Position Restraints Sensor: Circuit Open	RCM	REFER to Section 501-20B.
B00B5:1D	Driver Seat Track Position Restraints Sensor: Circuit Current Out Of Range	RCM	REFER to Section 501-20B.
B00B5:2B	Driver Seat Track Position Restraints Sensor: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B00B5:4A	Driver Seat Track Position Restraints Sensor: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B00D5:11	Restraint System Passenger Disable Indicator: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B00D5:12	Restraint System Passenger Disable Indicator: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B00D5:13	Restraint System Passenger Disable Indicator: Circuit Open	RCM	REFER to Section 501-20B.
B00D5:4A	Restraint System Passenger Disable Indicator: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B00DF:13	Passenger Restraints Disable Switch: Circuit Open	RCM	REFER to Section 501-20B.
B1030:12	Left Front Seat Heater: Circuit Short To Battery	HVAC module	REFER to Section 501-10.
B1030:14	Left Front Seat Heater: Circuit Short To Ground Or Open	HVAC module	REFER to Section 501-10.
B1031	SDARS Satellite Antenna Open	Audio Control Module (ACM)	REFER to Section 415-00.
B1032	SDARS Satellite Antenna Short	ACM	REFER to Section 415-00.
B1032:12	Right Front Seat Heater: Circuit Short To Battery	HVAC module	REFER to Section 501-10.
B1032:14	Right Front Seat Heater: Circuit Short To Ground Or Open	HVAC module	REFER to Section 501-10.
B106B	Tire Pressure Sensor Low Battery	Smart Junction Box (SJB)	REFER to Section 204-04.
B106D	Tire Pressure Monitor System (TPMS) Initiators Not Configured	SJB	REFER to Section 204-04.
B106E	Solid State Driver Disabled Due to Short Circuit	SJB	REFER to Smart Junction Box (SJB) in this section.
B106F	Module Disabled Due to External Fault	SJB	REFER to Smart Junction Box (SJB) in this section.
B1081:07	Left Temperature Damper Motor: Mechanical Failures	HVAC module	REFER to Section 412-00B.
B1081:11	Left Temperature Damper Motor: Circuit Short To Ground	HVAC module	REFER to Section 412-00B.
B1081:12	Left Temperature Damper Motor: Circuit Short To Battery	HVAC module	REFER to Section 412-00B.
B1081:13	Left Temperature Damper Motor: Circuit Open	HVAC module	REFER to Section 412-00B.
B1082:07	Right Temperature Damper Motor: Mechanical Failures	HVAC module	REFER to Section 412-00B.
B1082:11	Right Temperature Damper Motor: Circuit Short To Ground	HVAC module	REFER to Section 412-00B.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
B1082:12	Right Temperature Damper Motor: Circuit Short To Battery	HVAC module	REFER to Section 412-00B.
B1082:13	Right Temperature Damper Motor: Circuit Open	HVAC module	REFER to Section 412-00B.
B1083:07	Recirculation Damper Motor: Mechanical Failures	HVAC module	REFER to Section 412-00B.
B1083:11	Recirculation Damper Motor: Circuit Short To Ground	HVAC module	REFER to Section 412-00B.
B1083:12	Recirculation Damper Motor: Circuit Short To Battery	HVAC module	REFER to Section 412-00B.
B1083:13	Recirculation Damper Motor: Circuit Open	HVAC module	REFER to Section 412-00B.
B1086:07	Air Distribution Damper Motor: Mechanical Failures	HVAC module	REFER to Section 412-00B.
B1086:11	Air Distribution Damper Motor: Circuit Short To Ground	HVAC module	REFER to Section 412-00B.
B1086:12	Air Distribution Damper Motor: Circuit Short To Battery	HVAC module	REFER to Section 412-00B.
B1086:13	Air Distribution Damper Motor: Circuit Open	HVAC module	REFER to Section 412-00B.
B10AF:12	Blower Fan Relay: Circuit Short To Battery	HVAC module	REFER to Section 412-00B.
B10AF:14	Blower Fan Relay: Circuit Short To Ground Or Open	HVAC module	REFER to Section 412-00B.
B10B8:00	Push Buttons: No Sub Type Information	HVAC module	REFER to Section 412-00B.
B10B9:12	Blower Control: Circuit Short To Battery	HVAC module	REFER to Section 412-00B.
B10B9:14	Blower Control: Circuit Short To Ground Or Open	HVAC module	REFER to Section 412-00B.
B1117	Audio Steering Wheel Button Stuck	ACM	REFER to Section 415-00.
B1137	Data Not Programmed	Instrument Cluster (IC)	For gas vehicles, REFER to Section 419-01A. For hybrid vehicles, REFER to Section 419-01B.
B1138	Memory Full	IC	For gas vehicles, REFER to Section 419-01A. For hybrid vehicles, REFER to Section 419-01B.
B1138	Memory Full	SJB	REFER to Section 501-14.
B1139	Invalid Transmitter Identification Code	IC	REFER to Section 501-14.
B1139	Invalid Transmitter Identification Code	SJB	REFER to Section 501-14.
B1143	Excessive Battery Contactor Close Requests	Battery Control Module (BCM)	REFER to Section 414-03.
B1155	Subwoofer #1 Short to Battery	ACM	REFER to Section 415-00.
B1193:00	Crash Event Storage Full And Locked: No Sub Type Information	RCM	REFER to Section 501-20B.
B119F:01	GPS Antenna: General Electrical Failure	ACM	REFER to Section 415-00.
B119F:13	GPS Antenna: Circuit Open	ACM	REFER to Section 415-00.
B11BA:1C	Steering Wheel Audio Switch Pack: Circuit Voltage Out Of Range	ACM	REFER to Section 415-00.
B11BA:63	Steering Wheel Audio Switch Pack: Circuit / Component Protection Time-Out	ACM	REFER to Section 415-00.
B11CD:11	Driver Frontal Airbag Canister Vent: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B11CD:12	Driver Frontal Airbag Canister Vent: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B11CD:13	Driver Frontal Airbag Canister Vent: Circuit Open	RCM	REFER to Section 501-20B.
B11CD:1D	Driver Frontal Airbag Canister Vent: Circuit Current Out Of Range	RCM	REFER to Section 501-20B.
B11CD:2B	Driver Frontal Airbag Canister Vent: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B11CD:4A	Driver Frontal Airbag Canister Vent: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B11E5:11	Left HVAC Damper Position Sensor: Circuit Short To Ground	HVAC module	REFER to Section 412-00B.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
B11E5:15	Left HVAC Damper Position Sensor: Circuit Short To Battery Or Open	HVAC module	REFER to Section 412-00B.
B11E6:11	Right HVAC Damper Position Sensor: Circuit Short To Ground	HVAC module	REFER to Section 412-00B.
B11E6:15	Right HVAC Damper Position Sensor: Circuit Short To Battery Or Open	HVAC module	REFER to Section 412-00B.
B11E7:11	Air Distribution Damper Position Sensor: Circuit Short To Ground	HVAC module	REFER to Section 412-00B.
B11E7:15	Air Distribution Damper Position Sensor: Circuit Short To Battery Or Open	HVAC module	REFER to Section 412-00B.
B11EE:19	A/C Compressor: Circuit Current Above Threshold	Air Conditioning Compressor Module (ACCM)	REFER to Section 412-00B.
B11EE:49	A/C Compressor: Internal Electronic Failure	ACCM	REFER to Section 412-00B.
B11EE:4B	A/C Compressor: Over Temperature	ACCM	REFER to Section 412-00B.
B11F0:11	Air Intake Damper Position Sensor: Circuit Short To Ground	HVAC module	REFER to Section 412-00B.
B11F0:15	Air Intake Damper Position Sensor: Circuit Short To Battery or Open	HVAC module	REFER to Section 412-00B.
B1200	Climate Control Pushbutton Circuit Failure	HVAC module	REFER to Section 412-00A.
B1201:1C	Steering Wheel Audio Switch Pack 2: Circuit Voltage Out Of Range	ACM	REFER to Section 415-00.
B1201:1C	Steering Wheel Audio Switch Pack 2: Circuit Voltage Out Of Range	Accessory Protocol Interface Module (APIM)	REFER to Section 415-00.
B1201:63	Steering Wheel Audio Switch Pack 2: Circuit / Component Protection Time-Out	ACM	REFER to Section 415-00.
B1201:63	Steering Wheel Audio Switch Pack 2: Circuit / Component Protection Time-Out	APIM	REFER to Section 415-00.
B1202	Fuel Sender Circuit Open	IC	REFER to Section 413-01.
B1204	Fuel Sender Circuit Short to Ground	IC	REFER to Section 413-01.
B1205	EIC Switch-1 Assembly Circuit Failure	IC	REFER to Section 413-01.
B1206	EIC Switch-1 Assembly Circuit Open	IC	REFER to Section 413-01.
B1208	EIC Switch-1 Assembly Circuit Short to Ground	IC	REFER to Section 413-01.
B1211:11	Driver Seatbelt Retractor Pretensioner Deployment Control: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B1211:12	Driver Seatbelt Retractor Pretensioner Deployment Control: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B1211:13	Driver Seatbelt Retractor Pretensioner Deployment Control: Circuit Open	RCM	REFER to Section 501-20B.
B1211:1A	Driver Seatbelt Retractor Pretensioner Deployment Control: Circuit Resistance Below Threshold	RCM	REFER to Section 501-20B.
B1211:2B	Driver Seatbelt Retractor Pretensioner Deployment Control: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B1211:4A	Driver Seatbelt Retractor Pretensioner Deployment Control: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B1212:11	Driver Seatbelt Buckle Pretensioner Deployment Control: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B1212:12	Driver Seatbelt Buckle Pretensioner Deployment Control: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B1212:13	Driver Seatbelt Buckle Pretensioner Deployment Control: Circuit Open	RCM	REFER to Section 501-20B.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
B1212:1D	Driver Seatbelt Buckle Pretensioner Deployment Control: Circuit Current Out Of Range	RCM	REFER to Section 501-20B.
B1212:2B	Driver Seatbelt Buckle Pretensioner Deployment Control: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B1212:4A	Driver Seatbelt Buckle Pretensioner Deployment Control: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B1213	Anti-Theft Number of Programmed Keys Is Below Minimum	IC	REFER to Section 419-01A.
B1213:11	Passenger Seatbelt Buckle Pretensioner Deployment Control: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B1213:12	Passenger Seatbelt Buckle Pretensioner Deployment Control: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B1213:13	Passenger Seatbelt Buckle Pretensioner Deployment Control: Circuit Open	RCM	REFER to Section 501-20B.
B1213:1D	Passenger Seatbelt Buckle Pretensioner Deployment Control: Circuit Current Out Of Range	RCM	REFER to Section 501-20B.
B1213:2B	Passenger Seatbelt Buckle Pretensioner Deployment Control: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B1213:4A	Passenger Seatbelt Buckle Pretensioner Deployment Control: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B1214:11	Passenger Seatbelt Retractor Pretensioner Deployment Control: Circuit Short To Ground	RCM	REFER to Section 501-20B.
B1214:12	Passenger Seatbelt Retractor Pretensioner Deployment Control: Circuit Short To Battery	RCM	REFER to Section 501-20B.
B1214:13	Passenger Seatbelt Retractor Pretensioner Deployment Control: Circuit Open	RCM	REFER to Section 501-20B.
B1214:1A	Passenger Seatbelt Retractor Pretensioner Deployment Control: Circuit Resistance Below Threshold	RCM	REFER to Section 501-20B.
B1214:2B	Passenger Seatbelt Retractor Pretensioner Deployment Control: Signal Cross Coupled	RCM	REFER to Section 501-20B.
B1214:4A	Passenger Seatbelt Retractor Pretensioner Deployment Control: Incorrect Component Installed	RCM	REFER to Section 501-20B.
B121C:01	Hard Drive: General Electrical Failure	ACM	REFER to Section 415-00.
B1231	Event Threshold Exceeded	Occupant Classification System Module (OCSM)	REFER to Section 501-20B.
B1251	Air Temperature Internal Sensor Circuit Open	HVAC module	REFER to Section 412-00A.
B1252:04	USB Port: System Internal Failures	APIM	REFER to Section 415-00.
B1252:11	USB Port: Circuit Short To Ground	APIM	REFER to Section 415-00.
B1253	Air Temperature Internal Sensor Circuit Short To Ground	HVAC module	REFER to Section 412-00A.
B1255	Air Temperature External Sensor Circuit Open	HVAC module	REFER to Section 412-00A.
B1257	Air Temperature External Sensor Circuit Short To Ground	HVAC module	REFER to Section 412-00A.
B129B	Driver Blend Door Actuator, Drive Circuit(s) Shorted to Battery Voltage	HVAC module	REFER to Section 412-00A.
B129C	Driver Blend Door Actuator, Feedback Circuit Open or Shorted to Battery Voltage	HVAC module	REFER to Section 412-00A.
B129C:12	Left Front Side Sensor: Circuit Short To Battery	Parking Aid Module (PAM)	REFER to Section 413-13A.
B129C:14	Left Front Side Sensor: Circuit Short To Ground Or Open	PAM	REFER to Section 413-13A.
B129C:96	Left Front Side Sensor: Component Internal Failure	PAM	REFER to Section 413-13A.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
B129D	Driver Blend Door Actuator, Feedback Circuit Shorted to Ground	HVAC module	REFER to Section 412-00A.
B129D:12	Right Front Side Sensor: Circuit Short To Battery	PAM	REFER to Section 413-13A.
B129D:14	Right Front Side Sensor: Circuit Short To Ground Or Open	PAM	REFER to Section 413-13A.
B129D:96	Right Front Side Sensor: Component Internal Failure	PAM	REFER to Section 413-13A.
B129F	Passenger Blend Door Actuator, Drive Circuit(s) Shorted to Battery Voltage	HVAC module	REFER to Section 412-00A.
B12A0	Passenger Blend Door Actuator, Feedback Circuit Open or Shorted to Battery Voltage	HVAC module	REFER to Section 412-00A.
B12A1	Passenger Blend Door Actuator, Feedback Circuit Shorted to Ground	HVAC module	REFER to Section 412-00A.
B12A2	Passenger Blend Door Actuator, Slow or Door Obstructed	HVAC module	REFER to Section 412-00A.
B12A4	Mode Door Actuator, Drive Circuit(s) Shorted to Battery Voltage	HVAC module	REFER to Section 412-00A.
B12A5	Mode Door Actuator, Feedback Circuit Open or Shorted to Battery Voltage	HVAC module	REFER to Section 412-00A.
B12A6	Mode Door Actuator, Feedback Circuit Shorted to Ground	HVAC module	REFER to Section 412-00A.
B12A7	Mode Door Actuator, Slow or Door Obstructed	HVAC module	REFER to Section 412-00A.
B12A9	Recirc Door Actuator, Drive Circuit(s) Shorted to Battery Voltage	HVAC module	REFER to Section 412-00A.
B12AB	Drivers Heated Seat Relay Drive Circuit Shorted to Battery Voltage	HVAC module	REFER to Section 501-10.
B12AC	Drivers Heated Seat Relay Drive Circuit Open or Shorted to Ground	HVAC module	REFER to Section 501-10.
B12AD	Passenger Heated Seat Relay Drive Circuit Shorted to Battery Voltage	HVAC module	REFER to Section 501-10.
B12AE	Passenger Heated Seat Relay Drive Circuit Open or Shorted to Ground	HVAC module	REFER to Section 501-10.
B12AF	Front Blower Motor Relay Drive Circuit Shorted to Battery Voltage	HVAC module	REFER to Section 412-00A.
B12B0	Front Blower Motor Relay Drive Circuit Open or Shorted to Ground	HVAC module	REFER to Section 412-00A.
B12B1	Front Blower Motor PWM Drive Circuit Shorted to Battery Voltage	HVAC module	REFER to Section 412-00A.
B12B2	Front Blower Motor PWM Drive Circuit Open or Shorted to Ground	HVAC module	REFER to Section 412-00A.
B12B3	Blend Door Actuator, Drive Circuit(s) Shorted to Battery Voltage	HVAC module	REFER to Section 412-00A.
B12B5	Blend Door Actuator, Feedback Circuit Open or Shorted to Battery Voltage	HVAC module	REFER to Section 412-00A.
B12B6	Blend Door Actuator, Feedback Circuit Shorted to Ground	HVAC module	REFER to Section 412-00A.
B12B7	Blend Door Actuator, Slow or Door Obstructed	HVAC module	REFER to Section 412-00A.
B12B8	Drivers Blend Door Actuator, Slow or Door Obstructed	HVAC module	REFER to Section 412-00A.
B12B8:04	USB Port #2: System Internal Failures	APIM	REFER to Section 415-00.
B12B8:11	USB Port #2: Circuit Short To Ground	APIM	REFER to Section 415-00.
B12B9	Vref (5V) Drive Circuit Shorted to Battery Voltage	HVAC module	REFER to Section 412-00A.
B12BA	Vref (5V) Drive Circuit Shorted to Ground	HVAC module	REFER to Section 412-00A.
B12BE	Heated Backlight/Mirror Relay Drive Circuit Shorted to Battery Voltage	HVAC module	REFER to Section 501-11.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
B12BF	Heated Backlight/Mirror Relay Drive Circuit Open or Shorted to Ground	HVAC module	REFER to Section 501-11.
B1302	Accessory Delay Relay Coil Circuit Failure	SJB	REFER to Section 501-11.
B1303:11	Park Assist Switch: Circuit Short To Ground	PAM	REFER to Section 413-13A.
B1304:68	Electronic Power Assisted Steering System: Event Information	PAM	REFER to Section 413-13A.
B1304	Accessory Delay Relay Coil Circuit Short to Battery	SJB	REFER to Section 501-11.
B1317	Battery Voltage High	4X4 control module	REFER to Section 308-07A.
B1317	Battery Voltage High	IC	REFER to Section 413-01.
B1317	Battery Voltage High	OCSM	REFER to Section 501-20B.
B1317	Battery Voltage High	Power Steering Control Module (PSCM)	REFER to Section 211-00.
B1317	Battery Voltage High	SJB	REFER to Smart Junction Box (SJB) in this section.
B1318	Battery Voltage Low	4X4 control module	REFER to Section 308-07A.
B1318	Battery Voltage Low	ACM	REFER to Section 415-00.
B1318	Battery Voltage Low	Front Display Interface Module (FDIM)	REFER to Section 415-00.
B1318	Battery Voltage Low	IC	REFER to Section 413-01.
B1318	Battery Voltage Low	OCSM	REFER to Section 501-20B.
B1318	Battery Voltage Low	PSCM	REFER to Section 211-00.
B1318	Battery Voltage Low	SJB	REFER to Smart Junction Box (SJB) in this section.
B1320	Driver Door Ajar Circuit Open	SJB	REFER to Section 417-02.
B1328	Passenger Door Ajar Circuit Open	SJB	REFER to Section 417-02.
B1331	Decklid Ajar Rear Door Circuit Failure	SJB	REFER to Section 417-02.
B1336	Door Ajar RR Circuit Open	SJB	REFER to Section 417-02.
B1342	ECU is Faulted	4x4 control module	REFER to Section 308-07A.
B1342	ECU is Faulted	ABS module	REFER to Section 206-09.
B1342	ECU is Faulted	ACM	REFER to Section 415-00.
B1342	ECU is Faulted	BCM	REFER to Section 414-03.
B1342	ECU is Faulted	FDIM	REFER to Section 415-00.
B1342	ECU is Faulted	HVAC module	REFER to Section 412-00A.
B1342	ECU is Faulted	IC	REFER to Section 413-01.
B1342	ECU is Faulted	OCSM	REFER to Section 501-20B.
B1342	ECU is Faulted	PCM	CLEAR the DTCs. REPEAT the self-test. If DTC B1342 is retrieved again, INSTALL a new PCM. Refer to the appropriate section in Group 303 for the procedure. TEST the system for normal operation.
B1342	ECU is Faulted	PSCM	REFER to Section 211-00.
B1342	ECU is Faulted	SJB	DIAGNOSE all other DTCs first. If no other DTCs are present, INSTALL a new SJB. REFER to Smart Junction Box (SJB) in this section. TEST the system for normal operation.
B1352	Ignition Key-In Circuit Failure	SJB	REFER to Section 413-01.
B1472	Lamp Headlamp Input Circuit Short to Ground	SJB	REFER to Section 417-01.
B1483	Brake Pedal Input Circuit Failure	ABS module	REFER to Section 206-09.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
B1485	Brake Pedal Input Short to Battery	SJB	Section 417-01.
B1510	Flash to Pass Switch Circuit Short to Ground	SJB	REFER to Section 417-01.
B1520	Hood Switch Circuit Open	SJB	The DTC is not applicable. The vehicle is not equipped with a hood switch. CLEAR the DTCs. REPEAT the self-test.
B1572	Door Ajar LR Circuit Open	SJB	REFER to Section 417-02.
B1578	Lamp Park Input Circuit Short to Ground	SJB	REFER to Section 417-01.
B1600	PATS Ignition Key Transponder Signal Is Not Received	IC	For gas vehicles, REFER to Section 419-01A. For hybrid vehicles, REFER to Section 419-01B.
B1601	PATS Received Incorrect Key-Code From Ignition Key Transponder	IC	For gas vehicles, REFER to Section 419-01A. For hybrid vehicles, REFER to Section 419-01B.
B1602	PATS Received Invalid Format Of Key-Code From Ignition Key Transponder	IC	For gas vehicles, REFER to Section 419-01A. For hybrid vehicles, REFER to Section 419-01B.
B1624	Lamp Keypad Output Open Circuit	SJB	REFER to Section 501-14.
B1626	Lamp Keypad Output Short Circuit to Ground	SJB	REFER to Section 501-14.
B1676	Battery Pack Voltage Out of Range	ABS module	REFER to Section 206-09.
B1676	Battery Pack Voltage Out of Range	HVAC module	REFER to Section 412-00A.
B1681	PATS Transceiver Module Signal Is Not Received	IC	For gas vehicles, REFER to Section 419-01A. For hybrid vehicles, REFER to Section 419-01B.
B1685	Lamp Dome Input Circuit Failure	SJB	REFER to Section 417-02.
B1688	Lamp Dome Input Circuit Short To Ground	SJB	REFER to Section 417-02.
B1696	Autolamp On Circuit Short to Ground	SJB	REFER to Section 417-01.
B1791	Autolamp Sensor Input Circuit Open	SJB	REFER to Section 417-01.
B1793	Autolamp Sensor Input Circuit Short to Ground	SJB	REFER to Section 417-01.
B1868	Lamp Air Bag Warning Indicator Circuit Failure	IC	REFER to Section 413-01.
B1870	Lamp Air Bag Warning Indicator Circuit Short to Battery	IC	REFER to Section 413-01.
B1A05:01	Speaker #5: General Electrical Failure	ACM	REFER to Section 415-00.
B1A06:01	Speaker #6: General Electrical Failure	ACM	REFER to Section 415-00.
B1A07:01	Speaker #7: General Electrical Failure	ACM	REFER to Section 415-00.
B1A56:21	Antenna: Signal Amplitude < Minimum	ACM	REFER to Section 415-00.
B1A61:11	Cabin Temperature Sensor: Circuit Short To Ground	HVAC module	REFER to Section 412-00B.
B1A61:15	Cabin Temperature Sensor: Circuit Short To Battery Or Open	HVAC module	REFER to Section 412-00B.
B1A63:11	Right Solar Sensor: Circuit Short To Ground	HVAC module	REFER to Section 412-00B.
B1A63:15	Right Solar Sensor: Circuit Short To Battery Or Open	HVAC module	REFER to Section 412-00B.
B1A64:11	Left Solar Sensor: Circuit Short To Ground	HVAC module	REFER to Section 412-00B.
B1A64:15	Left Solar Sensor: Circuit Short To Battery Or Open	HVAC module	REFER to Section 412-00B.
B1A68:11	Ambient Temperature Sensor: Circuit Short To Ground	HVAC module	REFER to Section 412-00B.
B1A68:15	Ambient Temperature Sensor: Circuit Short To Battery Or Open	HVAC module	REFER to Section 412-00B.
B1A89:01	Satellite Antenna: General Electrical Failure	ACM	REFER to Section 415-00.
B1A89:13	Satellite Antenna: Circuit Open	ACM	REFER to Section 415-00.
B1B36:12	Right Front Outer Sensor: Circuit Short To Battery	PAM	REFER to Section 413-13A.
B1B36:14	Right Front Outer Sensor: Circuit Short To Ground Or Open	PAM	REFER to Section 413-13A.
B1B36:96	Right Front Outer Sensor: Component Internal Failure	PAM	REFER to Section 413-13A.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
B1B38:12	Right Front Inner Sensor: Circuit Short To Battery	PAM	REFER to Section 413-13A.
B1B38:14	Right Front Inner Sensor: Circuit Short To Ground Or Open	PAM	REFER to Section 413-13A.
B1B38:96	Right Front Inner Sensor: Component Internal Failure	PAM	REFER to Section 413-13A.
B1B40:12	Left Front Outer Sensor: Circuit Short To Battery	PAM	REFER to Section 413-13A.
B1B40:14	Left Front Outer Sensor: Circuit Short To Ground Or Open	PAM	REFER to Section 413-13A.
B1B40:96	Left Front Outer Sensor: Component Internal Failure	PAM	REFER to Section 413-13A.
B1B42:12	Left Front Inner Sensor: Circuit Short To Battery	PAM	REFER to Section 413-13A.
B1B42:14	Left Front Inner Sensor: Circuit Short To Ground Or Open	PAM	REFER to Section 413-13A.
B1B42:96	Left Front Inner Sensor: Component Internal Failure	PAM	REFER to Section 413-13A.
B1B44:12	Right Rear Outer Sensor: Circuit Short To Battery	PAM	REFER to Section 413-13A.
B1B44:14	Right Rear Outer Sensor: Circuit Short To Ground Or Open	PAM	REFER to Section 413-13A.
B1B44:96	Right Rear Outer Sensor: Component Internal Failure	PAM	REFER to Section 413-13A.
B1B46:12	Right Rear Inner Sensor: Circuit Short To Battery	PAM	REFER to Section 413-13A.
B1B46:14	Right Rear Inner Sensor: Circuit Short To Ground Or Open	PAM	REFER to Section 413-13A.
B1B46:96	Right Rear Inner Sensor: Component Internal Failure	PAM	REFER to Section 413-13A.
B1B48:12	Left Rear Outer Sensor: Circuit Short To Battery	PAM	REFER to Section 413-13A.
B1B48:14	Left Rear Outer Sensor: Circuit Short To Ground Or Open	PAM	REFER to Section 413-13A.
B1B48:96	Left Rear Outer Sensor: Component Internal Failure	PAM	REFER to Section 413-13A.
B1B50:12	Left Rear Inner Sensor: Circuit Short To Battery	PAM	REFER to Section 413-13A.
B1B50:14	Left Rear Inner Sensor: Circuit Short To Ground Or Open	PAM	REFER to Section 413-13A.
B1B50:96	Left Rear Inner Sensor: Component Internal Failure	PAM	REFER to Section 413-13A.
B1B52:12	Rear Sounder- Park Aid: Circuit Short To Battery	PAM	REFER to Section 413-13A.
B1B52:14	Rear Sounder- Park Aid: Circuit Short To Ground Or Open	PAM	REFER to Section 413-13A.
B1B53:12	Front Sounder - Park Aid: Circuit Short To Battery	PAM	REFER to Section 413-13A.
B1B53:14	Front Sounder - Park Aid: Circuit Short To Ground Or Open	PAM	REFER to Section 413-13A.
B1B54:11	Function LED - Park Aid: Circuit Short To Ground	PAM	REFER to Section 413-13A.
B1B54:13	Function LED - Park Aid: Circuit Open	PAM	REFER to Section 413-13A.
B1B58:11	Rear Sensors Power Circuit: Circuit Short To Ground	PAM	REFER to Section 413-13A.
B1B71:11	Evaporator Temperature Sensor: Circuit Short To Ground	HVAC module	REFER to Section 412-00B.
B1B71:15	Evaporator Temperature Sensor: Circuit Short To Battery Or Open	HVAC module	REFER to Section 412-00B.
B1C83:12	Rear Defog Relay: Circuit Short To Battery	HVAC module	REFER to Section 501-11.
B1C83:14	Rear Defog Relay: Circuit Short To Ground Or Open	HVAC module	REFER to Section 501-11.
B1D19:49	Compact Disc Unit: Internal Electronic Failure	ACM	REFER to Section 415-00.
B1D19:4B	Compact Disc Unit: Over Temperature	ACM	REFER to Section 415-00.
B1D78:13	Auxiliary Input: Circuit Open	ACM	REFER to Section 415-00.
B1D79:01	Microphone Input: General Electrical Failure	ACM	REFER to Section 415-00.
B1D79:01	Microphone Input: General Electrical Failure	APIM	REFER to Section 415-00.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
B2008	Wipers On Signal Circuit Short to Ground	SJB	REFER to Section 501-16.
B2031	Left Corner Lamp Output Circuit Failure	SJB	REFER to Section 417-01.
B2032	Right Corner Lamp Output Circuit Failure	SJB	REFER to Section 417-01.
B2044	Left Rear Stop Lamp Circuit Short to Ground	SJB	REFER to Section 417-01.
B2045	Left Rear Stop Lamp Circuit Open	SJB	REFER to Section 417-01.
B2046	Right Rear Stop Lamp Circuit Short to Ground	SJB	REFER to Section 417-01.
B2047	Right Rear Stop Lamp Circuit Open	SJB	REFER to Section 417-01.
B2048	Left Rear Turn Lamp Circuit Short to Ground	SJB	REFER to Section 417-01.
B2049	Left Rear Turn Lamp Circuit Open	SJB	REFER to Section 417-01.
B2050	Right Rear Turn Lamp Circuit Short to Ground	SJB	REFER to Section 417-01.
B2051	Right Rear Turn Lamp Circuit Open	SJB	REFER to Section 417-01.
B2071	Hazard Switch Signal Short to Ground	SJB	REFER to Section 417-01.
B2077	Liftgate Ajar Sw Circuit Failure	SJB	REFER to Section 417-02.
B2097	Compass Module Failure	IC	REFER to Section 419-11.
B2100	Door Driver Key Cylinder Switch Failure	SJB	The DTC is not applicable. The vehicle is not equipped with a driver door key cylinder switch. CLEAR the DTCs. REPEAT the self-test.
B2103	Antenna Not Connected	ACM	REFER to Section 415-00.
B2103	Antenna Not Connected	IC	For gas vehicles, REFER to Section 419-01A. For hybrid vehicles, REFER to Section 419-01B.
B2108	Trunk Key Cylinder Switch Failure	SJB	The DTC is not applicable. The vehicle is not equipped with a trunk key cylinder switch. CLEAR the DTCs. REPEAT the self-test.
B2141	NVM Configuration Failure	IC	For gas vehicles, REFER to Section 419-01A. For hybrid vehicles, REFER to Section 419-01B.
B2143	NVM Memory Failure	IC	REFER to Section 413-01.
B2172	Inertia Switch Input Circuit Open	BCM	REFER to Section 414-03.
B2212	Panel Dim Switch Out of Range	SJB	REFER to Section 417-02.
B2254	Front Fog Lamp Switch Failure	SJB	REFER to Section 417-01.
B2274	Phone Transceiver Active Circuit Failure	ACM	REFER to Section 415-00.
B2276	Less Than 2 Transmitters Programmed	SJB	REFER to Section 501-14.
B2277	Electronic Power Steering Motor Malfunction	PSCM	REFER to Section 211-00.
B2278	Steering Shaft Torque Sensor Malfunction	PSCM	REFER to Section 211-00.
B227B	Steering Shaft Position Sensor Malfunction	PSCM	REFER to Section 211-00.
B2281	Right Turn Switch Short to Ground	SJB	REFER to Section 417-01.
B2282	Left Turn Switch Short to Ground	SJB	REFER to Section 417-01.
B2290	Occupant Classification System Fault	OCSM	REFER to Section 501-20B.
B2384	Audio Reverse Aid Mute Input Ckt. Failure	ACM	REFER to Section 415-00.
B2404	Audio Steering Wheel Switch Circuit Fault	ACM	REFER to Section 415-00.
B2406	Audio Disc CD Player Internal Fault	ACM	REFER to Section 415-00.
B2425	Remote Keyless Entry Out of Synchronization	SJB	REFER to Section 501-14.
B2426	Passenger Solar Radiation Sensor Circuit Open	HVAC module	REFER to Section 412-00A.
B2427	Passenger Solar Radiation Sensor Circuit Short to Ground	HVAC module	REFER to Section 412-00A.
B2431	Transponder Programming Failed	IC	For gas vehicles, REFER to Section 419-01A. For hybrid vehicles, REFER to Section 419-01B.
B2477	Module Configuration Failure	ABS module	REFER to Section 206-09.

DIAGNOSIS AND TESTING (Continued)

(Continued)

DTC	Description	Source	Action
B2477	Module Configuration Failure	ACM	REFER to Section 418-01.
B2477	Module Configuration Failure	FDIM	REFER to Section 418-01.
B2477	Module Configuration Failure	HVAC module	REFER to Section 418-01.
B2477	Module Configuration Failure	IC	REFER to Section 418-01.
B2477	Module Configuration Failure	PSCM	REFER to Section 211-00.
B2477	Module Configuration Failure	SJB	REFER to Section 418-01.
B2479	Park Brake Switch Circuit Short to Ground	SJB	REFER to Section 413-01.
B2498	Headlamp Switch Multiple Signals Input Active	SJB	REFER to Section 417-01.
B2572	Brake Shift Interlock Output Circuit Failure	SJB	REFER to Section 307-05A or Section 307-05B.
B2666	Liftgate Release Switch Circuit Failure	SJB	REFER to Section 501-14.
B2667	Liftglass Release Switch Circuit Failure	SJB	REFER to Section 501-14.
B273A	Liftgate Release Output Circuit Shorted to Ground	SJB	REFER to Section 501-14.
B273B	Liftgate Release Output Circuit Open or Shorted to Battery Voltage	SJB	REFER to Section 501-14.
B2741	Sensor Cluster Defective	ABS module	REFER to Section 206-09.
B2795	Driver Solar Radiation Sensor Circuit Short to Ground	HVAC module	REFER to Section 412-00A.
B2796	Driver Solar Radiation Sensor Circuit Open	HVAC module	REFER to Section 412-00A.
B2826	Front Evaporator Temp Sensor Circuit Failure	HVAC module	REFER to Section 412-00A.
B2827	Front Evaporator Temp Sensor Short to Ground	HVAC module	REFER to Section 412-00A.
B2844	Ignition Fault	SJB	REFER to Section 211-05.
B2868	Left Front Tire Pressure Sensor Fault	SJB	REFER to Section 204-04.
B2869	Right Front Tire Pressure Sensor Fault	SJB	REFER to Section 204-04.
B2870	Right Rear Tire Pressure Sensor Fault	SJB	REFER to Section 204-04.
B2871	Left Rear Tire Pressure Sensor Fault	SJB	REFER to Section 204-04.
B2872	Tire Pressure Sensor Fault	SJB	REFER to Section 204-04.
B287A	Tire Pressure System Fault	SJB	REFER to Section 204-04.
B2900	VIN Mismatch	ABS module	REFER to Section 206-09.
B2909	Belt Tension Sensor Fault	OCSM	REFER to Section 501-20B.
B2913	Audio Subwoofer Not Connected	ACM	REFER to Section 415-00.
B2965	Audio System Speaker Circuit Fault	ACM	REFER to Section 415-00.
B297A	Blend Door Actuator, Drive Circuit(s) Open	HVAC module	REFER to Section 412-00A.
B297B	Blend Door Actuator, Drive Circuit(s) Shorted to Ground	HVAC module	REFER to Section 412-00A.
B297C	Driver Blend Door Actuator, Drive Circuit(s) Open	HVAC module	REFER to Section 412-00A.
B297D	Driver Blend Door Actuator, Drive Circuit(s) Shorted to Ground	HVAC module	REFER to Section 412-00A.
B297E	Passenger Blend Door Actuator, Drive Circuit(s) Open	HVAC module	REFER to Section 412-00A.
B297F	Passenger Blend Door Actuator, Drive Circuit(s) Shorted to Ground	HVAC module	REFER to Section 412-00A.
B298A	Mode Door Actuator, Drive Circuit(s) Open	HVAC module	REFER to Section 412-00A.
B298B	Mode Door Actuator, Drive Circuit(s) Shorted to Ground	HVAC module	REFER to Section 412-00A.
B298C	Recirc Door Actuator, Drive Circuit(s) Open	HVAC module	REFER to Section 412-00A.
B298D	Recirc Door Actuator, Drive Circuit(s) Shorted to Ground	HVAC module	REFER to Section 412-00A.
B29B7	White Lighting Output Circuit Open	SJB	REFER to Section 417-02.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
B29B8	White Lighting Output Circuit Short to Ground	SJB	REFER to Section 417-02.
B2A20	Ignition Stuck In START	IC	REFER to Section 413-01.
B2A20	Ignition Stuck In START	SJB	REFER to Section 211-05.
B2A21	One or More Configuration Files Missing or Corrupt	SJB	REFER to Smart Junction Box (SJB) in this section.
B2A22	Headlamp OFF Circuit Open	SJB	REFER to Section 417-01.
B2A23	High Beam Input Circuit Short To Ground	SJB	REFER to Section 417-01.
B2A24	Turn Signal Input Circuit Failure	SJB	REFER to Section 417-01.
B2A25	Trim Panel Lock Switch Circuit Failure	SJB	REFER to Section 501-14.
B2A26	Keypad Switch Circuit Failure	SJB	REFER to Section 501-14.
B2A27	Right Front Turn Lamp Circuit Open	SJB	REFER to Section 417-01.
B2A28	Right Front Turn Lamp Circuit Short to Ground	SJB	REFER to Section 417-01.
B2A29	Left Front Turn Lamp Circuit Open	SJB	REFER to Section 417-01.
B2A2A	Left Front Turn Lamp Circuit Short to Ground	SJB	REFER to Section 417-01.
B2A2B	Left Corner Lamp Output Circuit Short to Ground	SJB	REFER to Section 417-01.
B2A2C	Right Corner Lamp Output Circuit Short to Ground	SJB	REFER to Section 417-01.
B2A2E	Right Front Lamp Low Beam Circuit Open	SJB	REFER to Section 417-01.
B2A2F	Right Front Lamp Low Beam Circuit Short to Ground	SJB	REFER to Section 417-01.
B2A30	Left Front Lamp Low Beam Circuit Open	SJB	REFER to Section 417-01.
B2A31	Left Front Lamp Low Beam Circuit Short to Ground	SJB	REFER to Section 417-01.
B2A32	LED Backlighting Output Circuit Open	SJB	REFER to Section 413-00.
B2A33	LED Backlighting Output Circuit Short to Ground	SJB	REFER to Section 413-00.
B2A35	Interior Lighting Output Circuit Open	SJB	REFER to Section 417-02.
B2A36	Interior Lighting Output Circuit Short to Ground	SJB	REFER to Section 417-02.
B2A37	Floor Lamp Output Circuit Open	SJB	REFER to Section 417-02.
B2A38	Floor Lamp Output Circuit Short to Ground	SJB	REFER to Section 417-02.
B2A39	Puddle Lamp Output Circuit Open	SJB	REFER to Section 417-02.
B2A3A	Puddle Lamp Output Circuit Short to Ground	SJB	REFER to Section 417-02.
B2A4C	Hybrid Battery Current Sensor Implausible	BCM	REFER to Section 414-03.
C0001:49	TCS Control Channel "A" Valve 1: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C0002:49	TCS Control Channel "A" Valve 2: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C0003:49	TCS Control Channel "B" Valve 1: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C0004:49	TCS Control Channel "B" Valve 2: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C0010:49	Left Front Inlet Control: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C0011:49	Left Front Outlet Control: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C0014:49	Right Front Inlet Control: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C0015:49	Right Front Outlet Control: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C0018:49	Left Rear Inlet Control: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C0019:49	Left Rear Outlet Control: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C001C:49	Right Rear Inlet Control: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C001D:49	Right Rear Outlet Control: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C0020:11	ABS Pump Motor Control: Circuit Short To Ground	ABS module	REFER to Section 206-09.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
C0020:12	ABS Pump Motor Control: Circuit Short To Battery	ABS module	REFER to Section 206-09.
C0020:13	ABS Pump Motor Control: Circuit Open	ABS module	REFER to Section 206-09.
C0020:71	ABS Pump Motor Control: Actuator Stuck	ABS module	REFER to Section 206-09.
C0021:21	Brake Booster Performance: Signal Amplitude □ Minimum	ABS module	REFER to Section 206-09.
C0021:66	Brake Booster Performance: Signal Has Too Many Transitions / Events	ABS module	REFER to Section 206-09.
C0021:77	Brake Booster Performance: Commanded Position Not Reachable	ABS module	REFER to Section 206-09.
C0022:11	Brake Booster Solenoid: Circuit Short To Ground	ABS module	REFER to Section 206-09.
C0022:12	Brake Booster Solenoid: Circuit Short To Battery	ABS module	REFER to Section 206-09.
C0022:13	Brake Booster Solenoid: Circuit Open	ABS module	REFER to Section 206-09.
C0022:14	Brake Booster Solenoid: Circuit Short To Ground Or Open	ABS module	REFER to Section 206-09.
C0022:1D	Brake Booster Solenoid: Circuit Current Out Of Range	ABS module	REFER to Section 206-09.
C0022:49	Brake Booster Solenoid: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C0030:07	Left Front Tone Wheel: Mechanical Failures	ABS module	REFER to Section 206-09.
C0031:01	Left Front Wheel Speed Sensor: General Electrical Failure	ABS module	REFER to Section 206-09.
C0031:29	Left Front Wheel Speed Sensor: Signal Invalid	ABS module	REFER to Section 206-09.
C0031:2F	Left Front Wheel Speed Sensor: Signal Erratic	ABS module	REFER to Section 206-09.
C0031:64	Left Front Wheel Speed Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C0033:07	Right Front Tone Wheel: Mechanical Failures	ABS module	REFER to Section 206-09.
C0034:01	Right Front Wheel Speed Sensor: General Electrical Failure	ABS module	REFER to Section 206-09.
C0034:29	Right Front Wheel Speed Sensor: Signal Invalid	ABS module	REFER to Section 206-09.
C0034:2F	Right Front Wheel Speed Sensor: Signal Erratic	ABS module	REFER to Section 206-09.
C0034:64	Right Front Wheel Speed Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C0036:07	Left Rear Tone Wheel: Mechanical Failures	ABS module	REFER to Section 206-09.
C0037:01	Left Rear Wheel Speed Sensor: General Electrical Failure	ABS module	REFER to Section 206-09.
C0037:29	Left Rear Wheel Speed Sensor: Signal Invalid	ABS module	REFER to Section 206-09.
C0037:2F	Left Rear Wheel Speed Sensor: Signal Erratic	ABS module	REFER to Section 206-09.
C0037:64	Left Rear Wheel Speed Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C0039:07	Right Rear Tone Wheel: Mechanical Failures	ABS module	REFER to Section 206-09.
C003A:01	Right Rear Wheel Speed Sensor: General Electrical Failure	ABS module	REFER to Section 206-09.
C003A:29	Right Rear Wheel Speed Sensor: Signal Invalid	ABS module	REFER to Section 206-09.
C003A:2F	Right Rear Wheel Speed Sensor: Signal Erratic	ABS module	REFER to Section 206-09.
C003A:64	Right Rear Wheel Speed Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C0044:28	Brake Pressure Sensor "A": Signal Bias Level Out Of Range / Zero Adjustment Failure	ABS module	REFER to Section 206-09.
C0044:49	Brake Pressure Sensor "A": Internal Electronic Failure	ABS module	REFER to Section 206-09.
C0044:64	Brake Pressure Sensor "A": Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C0048:11	Brake Booster Travel Sensor: Circuit Short To Ground	ABS module	REFER to Section 206-09.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
C0048:12	Brake Booster Travel Sensor: Circuit Short To Battery	ABS module	REFER to Section 206-09.
C0048:64	Brake Booster Travel Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C0061:28	Lateral Acceleration Sensor: Signal Bias Level Out Of Range / Zero Adjustment Failure	ABS module	REFER to Section 206-09.
C0061:64	Lateral Acceleration Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C0062:64	Longitudinal Acceleration Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C0062:76	Longitudinal Acceleration Sensor: Wrong Mounting Position	ABS module	REFER to Section 206-09.
C0063:28	Yaw Rate Sensor: Signal Bias Level Out Of Range / Zero Adjustment Failure	ABS module	REFER to Section 206-09.
C0063:64	Yaw Rate Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C0064:28	Roll Rate Sensor: Signal Bias Level Out Of Range / Zero Adjustment Failure	ABS module	REFER to Section 206-09.
C0064:64	Roll Rate Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C1001:01	Vision System Camera: General Electrical Failure	ACM	REFER to Section 415-00.
C100A:28	Brake Pedal Angle Sensor: Signal Bias Level Out Of Range / Zero Adjustment Failure	ABS module	REFER to Section 206-09.
C100A:41	Brake Pedal Angle Sensor: General Checksum Failure	ABS module	REFER to Section 206-09.
C100A:62	Brake Pedal Angle Sensor: Signal Compare Failure	ABS module	REFER to Section 206-09.
C100A:64	Brake Pedal Angle Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C100D:21	Brake Pedal Angle Sensor Circuit 1: Signal Amplitude < Minimum	ABS module	REFER to Section 206-09.
C100D:22	Brake Pedal Angle Sensor Circuit 1: Signal Amplitude > Maximum	ABS module	REFER to Section 206-09.
C100E:21	Brake Pedal Angle Sensor Circuit 2: Signal Amplitude < Minimum	ABS module	REFER to Section 206-09.
C100E:22	Brake Pedal Angle Sensor Circuit 2: Signal Amplitude > Maximum	ABS module	REFER to Section 206-09.
C100F:11	Brake Pedal Angle Sensor Supply: Circuit Short To Ground	ABS module	REFER to Section 206-09.
C100F:12	Brake Pedal Angle Sensor Supply: Circuit Short To Battery	ABS module	REFER to Section 206-09.
C1011:1C	Brake Pedal Feel Simulator Cut-off Pressure Sensor: Circuit Voltage Out Of Range	ABS module	REFER to Section 206-09.
C1011:1F	Brake Pedal Feel Simulator Cut-off Pressure Sensor: Circuit Intermittent	ABS module	REFER to Section 206-09.
C1011:67	Brake Pedal Feel Simulator Cut-off Pressure Sensor: Signal Incorrect After Event	ABS module	REFER to Section 206-09.
C1012:01	Brake Pedal Feel Simulator Cut-off Valve Solenoid: General Electrical Failure	ABS module	REFER to Section 206-09.
C1014:07	Brake System Total Volume Balance: Mechanical Failures	ABS module	REFER to Section 206-09.
C1015:64	Vacuum Supply: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C1015:7A	Vacuum Supply: Fluid Leak Or Seal Failure	ABS module	REFER to Section 206-09.
C1015:7B	Vacuum Supply: Low Fluid Level	ABS module	REFER to Section 206-09.
C1018:00	Regenerative Braking: No Sub Type Information	ABS module	REFER to Section 206-09.
C1018:46	Regenerative Braking: Calibration / Parameter Memory Failure	ABS module	REFER to Section 206-09.
C1018:62	Regenerative Braking: Signal Compare Failure	ABS module	REFER to Section 206-09.
C101A:1C	Vacuum Pressure Sensor: Circuit Voltage Out Of Range	ABS module	REFER to Section 206-09.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
C101A:62	Vacuum Pressure Sensor: Signal Compare Failure	ABS module	REFER to Section 206-09.
C101A:64	Vacuum Pressure Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C101B:1C	Vacuum Pressure Sensor Circuit B: Circuit Voltage Out Of Range	ABS module	REFER to Section 206-09.
C101C:01	Brake Vacuum Pump: General Electrical Failure	ABS module	REFER to Section 206-09.
C101C:71	Brake Vacuum Pump: Actuator Stuck	ABS module	REFER to Section 206-09.
C1021:21	ABS Booster Control Pressure: Signal Amplitude < Minimum	ABS module	REFER to Section 206-09.
C1021:22	ABS Booster Control Pressure: Signal Amplitude > Maximum	ABS module	REFER to Section 206-09.
C1025:21	Brake Primary Circuit Overboost Pressure: Signal Amplitude < Minimum	ABS module	REFER to Section 206-09.
C1025:22	Brake Primary Circuit Overboost Pressure: Signal Amplitude > Maximum	ABS module	REFER to Section 206-09.
C1026:21	ABS Secondary Circuit Overboost Pressure: Signal Amplitude < Minimum	ABS module	REFER to Section 206-09.
C1026:22	ABS Secondary Circuit Overboost Pressure: Signal Amplitude > Maximum	ABS module	REFER to Section 206-09.
C1027:62	Master Cylinder (MC) to Primary Circuit Pressure: Signal Compare Failure	ABS module	REFER to Section 206-09.
C1028:62	ABS Primary Circuit Wheel Pressure: Signal Compare Failure	ABS module	REFER to Section 206-09.
C1029:00	ABS Primary Circuit Pressure Lower Than Secondary: No Sub Type Information	ABS module	REFER to Section 206-09.
C102A:62	Brake Secondary Circuit Pressure Mismatch Between Wheels: Signal Compare Failure	ABS module	REFER to Section 206-09.
C102B:00	ABS Secondary Circuit Pressure Lower Than Primary: No Sub Type Information	ABS module	REFER to Section 206-09.
C1095	ABS Hydraulic Pump Motor Circuit Failure	ABS module	REFER to Section 206-09.
C1108:11	Pedal Sensor(s) Supply Voltage: Circuit Short To Ground	ABS module	REFER to Section 206-09.
C1108:12	Pedal Sensor(s) Supply Voltage: Circuit Short To Battery	ABS module	REFER to Section 206-09.
C1108:1C	Pedal Sensor(s) Supply Voltage: Circuit Voltage Out of Range	ABS module	REFER to Section 206-09.
C1125	Brake Fluid Level Sensor Input Circuit Failure	SJB	REFER to Section 413-01.
C1133:28	Left Front Brake Pressure Sensor: Signal Bias Level Out Of Range / Zero Adjustment Failure	ABS module	REFER to Section 206-09.
C1133:49	Left Front Brake Pressure Sensor: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C1133:64	Left Front Brake Pressure Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C1134:28	Right Front Brake Pressure Sensor: Signal Bias Level Out Of Range / Zero Adjustment Failure	ABS module	REFER to Section 206-09.
C1134:49	Right Front Brake Pressure Sensor: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C1134:64	Right Front Brake Pressure Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C1135:28	Left Rear Brake Pressure Sensor: Signal Bias Level Out Of Range / Zero Adjustment Failure	ABS module	REFER to Section 206-09.
C1135:49	Left Rear Brake Pressure Sensor: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C1135:64	Left Rear Brake Pressure Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
C1136:28	Right Rear Brake Pressure Sensor: Signal Bias Level Out Of Range / Zero Adjustment Failure	ABS module	REFER to Section 206-09.
C1136:49	Right Rear Brake Pressure Sensor: Internal Electronic Failure	ABS module	REFER to Section 206-09.
C1136:64	Right Rear Brake Pressure Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C1145	Speed Wheel Sensor RF Input Circuit Failure	ABS module	REFER to Section 206-09.
C1155	Speed Wheel Sensor LF Input Circuit Failure	ABS module	REFER to Section 206-09.
C1165	Speed Wheel Sensor RR Input Circuit Failure	ABS module	REFER to Section 206-09.
C1175	Speed Wheel Sensor LR Input Circuit Failure	ABS module	REFER to Section 206-09.
C1233	Speed Wheel LF Input Signal Missing	ABS module	REFER to Section 206-09.
C1234	Speed Wheel RF Input Signal Missing	ABS module	REFER to Section 206-09.
C1235	Speed Wheel RR Input Signal Missing	ABS module	REFER to Section 206-09.
C1236	Speed Wheel LR Input Signal Missing	ABS module	REFER to Section 206-09.
C1277	Steering Wheel Angle 1 and 2 Circuit Failure	ABS module	REFER to Section 206-09.
C1278	Steering Wheel Angle 1 and 2 Signal Faulted	ABS module	REFER to Section 206-09.
C1280	Yaw Rate Sensor Signal Fault	ABS module	REFER to Section 206-09.
C1282	Lateral Accelerometer Signal Fault	ABS module	REFER to Section 206-09.
C1288	Pressure Transducer Main/Primary Input Circuit Failure	ABS module	REFER to Section 206-09.
C1440	Pressure Transducer Main/Primary Signal Faulted	ABS module	REFER to Section 206-09.
C1470	TCS Functions Temporarily Disabled (Thermal Brake Protection)	ABS module	REFER to Section 206-09.
C1516	Roll Rate Sensor Signal Fault	ABS module	REFER to Section 206-09.
C1805	Mismatched PCM and/or ABS-TC Module	ABS module	REFER to Section 206-09.
C1862	Contactors Circuit Failure	BCM	REFER to Section 414-03.
C1941	Zero Seat Weight Test Failure	OCSM	REFER to Section 501-20B.
C1963	Stability Control Inhibit Warning	ABS module	REFER to Section 206-09.
C1991	Module Calibration Failure	ABS module	REFER to Section 206-09.
C1992	Vehicle Speed Circuit Failure	ACM	REFER to Section 415-00.
C1996	Active Yaw and/or Roll Control Disabled	ABS module	REFER to Section 206-09.
C1B00:28	Steering Angle Sensor: Signal Bias Level Out Of Range / Zero Adjustment Failure	ABS module	REFER to Section 206-09.
C1B00:29	Steering Angle Sensor: Signal Invalid	ABS module	REFER to Section 206-09.
C1B00:64	Steering Angle Sensor: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
C1B14:11	Sensor Supply Voltage A: Circuit Short To Ground	HVAC module	REFER to Section 412-00B.
C1B14:12	Sensor Supply Voltage A: Circuit Short To Battery	HVAC module	REFER to Section 412-00B.
C2000	Steering Angle Sensor Not Calibrated	PSCM	REFER to Section 211-00.
C2770	Longitudinal Acceleration Sensor Plausibility Failure	ABS module	REFER to Section 206-09.
C2777	Sensor Cluster Bus Failure	ABS module	REFER to Section 206-09.
C2778	Sensor Power Supply Failure	ABS module	REFER to Section 206-09.
C2780	ECU in Manufacturer Sub-State	SJB	REFER to Section 204-04.
P0512	Starter Request Circuit	PCM	REFER to Section 303-06.
P0561:1C	System Voltage Unstable: Circuit Voltage Out of Range	ABS module	REFER to Section 206-09.
P0563	System Voltage High	PCM	REFER to Section 414-00.
P0620	Generator Control Circuit	PCM	REFER to Section 414-00.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
P0625	Generator Field Terminal Circuit Low	PCM	REFER to Section 414-00.
P0626	Generator Field Terminal Circuit High	PCM	REFER to Section 414-00.
P062F	Internal Control Module EEPROM Error	SJB	REFER to Smart Junction Box (SJB) in this section.
P065B	Generator Control Circuit Range/Performance	PCM	REFER to Section 414-00.
P0812:12	Reverse Input Circuit: Circuit Short To Battery	ACM	REFER to Section 415-00.
P0A0C	High Voltage System Inter-lock Circuit Low	BCM	REFER to Section 414-03.
P0A0E	High Voltage System Inter-lock Circuit Intermittent	BCM	REFER to Section 414-03.
P0A08	DC/DC Converter Status Circuit / Open	PCM	REFER to Section 414-05.
P0A09	DC/DC Converter Status Circuit Low	PCM	REFER to Section 414-05.
P0A10	DC/DC Converter Status Circuit High	PCM	REFER to Section 414-05.
P0A11	DC/DC Converter Enable Circuit / Open	PCM	REFER to Section 414-05.
P0A12	DC/DC Converter Enable Circuit Low	PCM	REFER to Section 414-05.
P0A13	DC/DC Converter Enable Circuit High	PCM	REFER to Section 414-05.
P0A1F	Battery Energy Control Module	BCM	REFER to Section 414-03.
P0A27	Hybrid Battery Power Off Circuit	BCM	REFER to Section 414-03.
P0A7D	Hybrid Battery Pack State of Charge Low	BCM	REFER to Section 414-03.
P0A7E	Hybrid Battery Pack Over Temperature	BCM	REFER to Section 414-03.
P0A80	Replace Hybrid Battery Pack	BCM	REFER to Section 414-03.
P0A81	Hybrid Battery Pack Cooling Fan 1 Control Circuit	BCM	REFER to Section 414-03.
P0A8B	14 Volt Power Module System Voltage	BCM	REFER to Section 414-03.
P0A8D	14 Volt Power Module System Voltage Low	BCM	REFER to Section 414-03.
P0A8E	14 Volt Power Module System Voltage High	BCM	REFER to Section 414-03.
P0A95	High Voltage Fuse	BCM	REFER to Section 414-03.
P0A96	Hybrid Battery Pack Cooling Fan 2 Control Circuit	BCM	REFER to Section 414-03.
P0A9B	Hybrid Battery Temperature Sensor A Circuit	BCM	REFER to Section 414-03.
P0AA6	Hybrid Battery Voltage System Isolation Fault	BCM	REFER to Section 414-03.
P0AA7	Hybrid Battery Voltage Isolation Sensor Circuit	BCM	REFER to Section 414-03.
P0AAC	Hybrid Battery Pack Air Temperature Sensor A Circuit	BCM	REFER to Section 414-03.
P0ABF	Hybrid Battery Pack Current Sensor A Circuit	BCM	REFER to Section 414-03.
P0AC0	Hybrid Battery Pack Current Sensor A Circuit Range/ Performance	BCM	REFER to Section 414-03.
P0AD9	Hybrid Battery Positive Contactor Control Circuit/Open GM	BCM	REFER to Section 414-03.
P0ADD	Hybrid Battery Negative Contactor Control Circuit/ Open	BCM	REFER to Section 414-03.
P0AE1	Hybrid Battery Precharge Contactor Circuit	BCM	REFER to Section 414-03.
P0AFA:16	Hybrid Battery System Voltage Low: Circuit Voltage Below Threshold	ACCM	REFER to Section 412-00B.
P0AFA:17	Hybrid Battery System Voltage Low: Circuit Voltage Above Threshold	ACCM	REFER to Section 412-00B.
P1260	Theft Detected, Vehicle Immobilized	PCM	REFER to Section 419-01A.
P1260	Theft Detected, Vehicle Immobilized	Transmission Control Module (TCM)	REFER to Section 419-01B.
P1603:41	EEPROM Malfunction: General Checksum Failure	PAM	REFER to Section 413-13A.
P1603:55	EEPROM Malfunction: Not Configured	PAM	REFER to Section 413-13A.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
P1635	Tire/Axle Out of Acceptable Range	4x4 control module	REFER to Section 308-07A.
P1824	4-Wheel Drive Clutch Relay Circuit Failure	4x4 control module	REFER to Section 308-07A.
P1825	4-Wheel Drive Clutch Relay Open Circuit	4x4 control module	REFER to Section 308-07A.
P2533	Ignition Switch Run/Start Position Circuit	BCM	REFER to Section 414-03.
PXXXX	All other DTCs	BCM	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
PXXXX	All other DTCs	PCM	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
PXXXX	All other DTCs	TCM	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
U0001	High Speed CAN Communication Bus	ABS module	REFER to Section 418-00.
U0001:88	High Speed CAN Communication Bus: Bus Off	ABS module	REFER to Section 418-00.
U0028:08	Vehicle Communication Bus A: Bus Signal / Message Failures	RCM	REFER to Section 501-20B.
U0028:88	Vehicle Communication Bus A: Bus Off	RCM	REFER to Section 418-00.
U0100	Lost Communication with ECM/PCM	4x4 control module	REFER to Section 308-07A.
U0100	Lost Communication with ECM/PCM	ABS module	REFER to Section 206-09.
U0100	Lost Communication with ECM/PCM	BCM	REFER to Section 414-03.
U0100	Lost Communication with ECM/PCM	IC	REFER to Section 413-01.
U0100	Lost Communication with ECM/PCM	PSCM	REFER to Section 211-00.
U0100:00	Lost Communication With ECM/PCM "A": No Sub Type Information	ABS module	REFER to Section 206-09.
U0100:00	Lost Communication With ECM/PCM "A": No Sub Type Information	ACCM	REFER to Section 412-00B.
U0100:00	Lost Communication With ECM/PCM "A": No Sub Type Information	APIM	REFER to Section 415-00.
U0100:00	Lost Communication With ECM/PCM "A": No Sub Type Information	RCM	REFER to Section 501-20B.
U0101	Lost Communication with TCM	BCM	REFER to Section 414-03.
U0101	Lost Communication with TCM	IC	REFER to Section 419-01B.
U0101	Lost Communication with TCM	PSCM	REFER to Section 211-00.
U0111	Lost Communication With Battery Energy Control Module (BCM)	IC	REFER to Section 413-01.
U0114	Lost Communication With Four-Wheel Drive Clutch Control Module	ABS module	REFER to Section 206-09.
U0114	Lost Communication With Four-Wheel Drive Clutch Control Module	IC	REFER to Section 413-01.
U0114:00	Lost Communication With Four-Wheel Drive Clutch Control Module: No Sub Type Information	ABS module	REFER to Section 206-09.
U0121	Lost Communication With Anti-Lock Brake System (ABS) Control Module	4x4 control module	REFER to Section 308-07A.
U0121	Lost Communication With Anti-Lock Brake System (ABS) Control Module	IC	REFER to Section 413-01.
U0121	Lost Communication With Anti-Lock Brake System (ABS) Control Module	PSCM	REFER to Section 211-00.
U0129	Lost Communication with Brake System Control Module	IC	REFER to Section 413-01.
U0131	Lost Communication With Power Steering Control Module (VAPS)	IC	REFER to Section 413-01.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
U0131:87	Lost Communication With Power Steering Control Module: Missing Message	ABS module	REFER to Section 206-09.
U0140	Lost Communication With Body Control Module (GEM)	ABS module	REFER to Section 206-09.
U0140	Lost Communication With Body Control Module (GEM)	ACM	REFER to Section 415-00.
U0140	Lost Communication With Body Control Module (GEM)	FDIM	REFER to Section 415-00.
U0140	Lost Communication With Body Control Module (GEM)	HVAC module	REFER to Section 418-00.
U0140	Lost Communication With Body Control Module (GEM)	IC	REFER to Section 413-01.
U0140:00	Lost Communication With Body Control Module: No Sub Type Information	ACM	REFER to Section 415-00.
U0140:00	Lost Communication With Body Control Module: No Sub Type Information	APIM	REFER to Section 415-00.
U0140:00	Lost Communication With Body Control Module: No Sub Type Information	Front Controls Interface Module (FCIM)	REFER to Section 415-00.
U0140:00	Lost Communication With Body Control Module: No Sub Type Information	Global Positioning System Module (GPSM)	REFER to Section 415-00.
U0140:00	Lost Communication With Body Control Module: No Sub Type Information	HVAC module	REFER to Section 412-00B.
U0151	Lost Communication With Restraints Control Module	ABS module	REFER to Section 206-09.
U0151	Lost Communication With Restraints Control Module	IC	REFER to Section 413-01.
U0151	Lost Communication With Restraints Control Module	OCSM	REFER to Section 501-20B.
U0151:00	Lost Communication With Restraints Control Module: No Sub Type Information	APIM	REFER to Section 415-00.
U0151:87	Lost Communication With Restraints Control Module: Missing Message	ABS module	REFER to Section 206-09.
U0151:88	Lost Communication With Restraints Control Module: Bus Off	ABS module	REFER to Section 206-09.
U0154:00	Lost Communication With Restraints Occupant Classification System Module: No Sub Type Information	RCM	REFER to Section 501-20B.
U0155	Lost Communication with Instrument Panel Cluster (IC) Control Module	4x4 control module	REFER to Section 308-07A.
U0155	Lost Communication with Instrument Panel Cluster (IC) Control Module	ABS module	REFER to Section 206-09.
U0155	Lost Communication with Instrument Panel Cluster (IC) Control Module	ACM	REFER to Section 415-00.
U0155	Lost Communication with Instrument Panel Cluster (IC) Control Module	BCM	REFER to Section 414-03.
U0155	Lost Communication with Instrument Panel Cluster (IC) Control Module	FDIM	REFER to Section 415-00.
U0155	Lost Communication with Instrument Panel Cluster (IC) Control Module	PSCM	REFER to Section 211-00.
U0155	Lost Communication with Instrument Panel Cluster (IC) Control Module	SJB	REFER to Smart Junction Box (SJB) in this section.
U0155:00	Lost Communication With Instrument Panel Cluster (IPC) Control Module: No Sub Type Information	ACCM	REFER to Section 412-00B.
U0155:00	Lost Communication With Instrument Panel Cluster (IPC) Control Module: No Sub Type Information	ACM	REFER to Section 415-00.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
U0155:00	Lost Communication With Instrument Panel Cluster (IPC) Control Module: No Sub Type Information	APIM	REFER to Section 415-00.
U0155:00	Lost Communication With Instrument Panel Cluster (IPC) Control Module: No Sub Type Information	GPSM	REFER to Section 415-00.
U0155:00	Lost Communication With Instrument Panel Cluster (IPC) Control Module: No Sub Type Information	HVAC module	REFER to Section 412-00B.
U0155:00	Lost Communication With Instrument Panel Cluster (IPC) Control Module: No Sub Type Information	RCM	REFER to Section 501-20B.
U0155:87	Lost Communication With Instrument Panel Cluster (IPC) Control Module: Missing Message	ABS module	REFER to Section 206-09.
U0159	Lost Communication With Parking Assist Control Module (PAM)	ACM	REFER to Section 415-00.
U0159	Lost Communication With Parking Assist Control Module (PAM)	IC	REFER to Section 413-01.
U0159	Lost Communication With Parking Assist Control Module (PAM)	PSCM	REFER to Section 211-00.
U0159:00	Lost Communication With Parking Assist Control Module "A": No Sub Type Information	ACM	REFER to Section 415-00.
U0162:00	Lost Communication With Navigation Display Module: No Sub Type Information	ACM	REFER to Section 415-00.
U0163	Lost Communication With Navigation Control Module (NAV)	IC	REFER to Section 413-01.
U0164	Lost Communication With HVAC Control Module (EATC)	FDIM	REFER to Section 415-00.
U0164	Lost Communication With HVAC Control Module (EATC)	IC	REFER to Section 413-01.
U0164:00	Lost Communication With HVAC Control Module: No Sub Type Information	ACM	REFER to Section 415-00.
U016A:00	Lost Communication With Global Positioning System Module: No Sub Type Information	APIM	REFER to Section 415-00.
U0184	Lost Communication With Radio (ACM)	FDIM	REFER to Section 415-00.
U0184:00	Lost Communication With Radio: No Sub Type Information	APIM	REFER to Section 415-00.
U0184:00	Lost Communication With Radio: No Sub Type Information	FCIM	REFER to Section 415-00.
U0193	Lost Communication With Digital Audio Control Module (SDARS)	ACM	REFER to Section 415-00.
U0193	Lost Communication With Digital Audio Control Module (SDARS)	FDIM	REFER to Section 415-00.
U0193:00	Lost Communication With "Digital Audio Control Module A": No Sub Type Information	ACM	REFER to Section 415-00.
U0196	Lost Communication With Entertainment Control Module - Rear (AUX)	ACM	REFER to Section 415-00.
U0196	Lost Communication With Entertainment Control Module - Rear (AUX)	Front Display Interface Module (FDIM)	REFER to Section 415-00.
U0196:00	Lost Communication With Entertainment Control Module-Rear "A": No Sub Type Information	ACM	REFER to Section 415-00.
U0196:00	Lost Communication With Entertainment Control Module-Rear "A": No Sub Type Information	APIM	REFER to Section 415-00.
U0197	Lost Communication With Telephone Control Module	ACM	REFER to Section 415-00.
U0197	Lost Communication With Telephone Control Module	FDIM	REFER to Section 415-00.
U0197:00	Lost Communication With Telephone Control Module: No Sub Type Information	ACM	REFER to Section 415-00.

DIAGNOSIS AND TESTING (Continued)

(Continued)

DTC	Description	Source	Action
U0238	Lost Communication With Digital Audio Control Module "D" (DSP)	ACM	REFER to Section 415-00.
U0238	Lost Communication With Digital Audio Control Module "D" (DSP)	FDIM	REFER to Section 415-00.
U0238:00	Lost Communication With Digital Audio Control Module "D": No Sub Type Information	ACM	REFER to Section 415-00.
U0249	Lost Communication With Entertainment Control Module - Rear "B" (RCU)	ACM	REFER to Section 415-00.
U0249	Lost Communication With Entertainment Control Module - Rear "B" (RCU)	FDIM	REFER to Section 415-00.
U0249:00	Lost Communication With Entertainment Control Module - Rear "B": No Sub Type Information	ACM	REFER to Section 415-00.
U0249:00	Lost Communication With Entertainment Control Module - Rear "B": No Sub Type Information	APIM	REFER to Section 415-00.
U0253:00	Lost Communication With Accessory Protocol Interface Module: No Sub Type Information	RCM	REFER to Section 501-20B.
U0255	Lost Communication With Front Controls Interface Module	ACM	REFER to Section 415-00.
U0255:00	Lost Communication With Front Display Interface Module: No Sub Type Information	ACM	REFER to Section 415-00.
U0255:00	Lost Communication With Front Display Interface Module: No Sub Type Information	APIM	REFER to Section 415-00.
U0256	Lost Communication With Front Display Interface Module	ACM	REFER to Section 415-00.
U0256:00	Lost Communication With Front Controls Interface Module "A": No Sub Type Information	ACM	REFER to Section 415-00.
U0256:00	Lost Communication With Front Controls Interface Module "A": No Sub Type Information	APIM	REFER to Section 415-00.
U0298:87	Lost Communication With DC to DC Converter Control Module "A": Missing Message	ABS module	REFER to Section 206-09.
U0300	Internal Control Module Software Incompatibility	BCM	REFER to Section 418-01.
U0300	Internal Control Module Software Incompatibility	HVAC module	REFER to Section 418-01.
U0300	Internal Control Module Software Incompatibility	PCM	REFER to Section 418-01.
U0300:00	Internal Control Module Software Incompatibility: No Sub Type Information	RCM	REFER to Section 501-20B.
U0300:51	Internal Control Module Software Incompatibility: Not Programmed	ABS module	REFER to Section 206-09.
U0401	Invalid Data Received From ECM/PCM A	4x4 control module	REFER to Section 308-07A.
U0401	Invalid Data Received From ECM/PCM A	ABS module	REFER to Section 206-09.
U0401	Invalid Data Received From ECM/PCM A	BCM	REFER to Section 414-03.
U0401:00	Invalid Data Received from ECM/PCM A: No Sub Type Information	ABS module	REFER to Section 206-09.
U0401:00	Invalid Data Received From ECM/PCM: No Sub Type Information	RCM	REFER to Section 501-20B.
U0401:68	Invalid Data Received From ECM/PCM: Event Information	ACCM	REFER to Section 412-00B.
U0402	Invalid Data Received From TCM	ABS module	REFER to Section 206-09.
U0402	Invalid Data Received From TCM	BCM	REFER to Section 414-03.
U0414	Invalid Data Received From Four-Wheel Drive Clutch Control Module	ABS module	REFER to Section 206-09.
U0415	Invalid Data Received From Anti-Lock Brake System (ABS) Control Module	4x4 control module	REFER to Section 308-07A.

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
U0415	Invalid Data Received From Anti-Lock Brake System (ABS) Control Module	PSCM	REFER to Section 211-00.
U0420:87	Invalid Data Received From Power Steering Control Module: Missing Message	ABS module	REFER to Section 206-09.
U0422:00	Invalid Data Received From Body Control Module: No Sub Type Information	APIM	REFER to Section 415-00.
U0422:00	Invalid Data Received From Body Control Module: No Sub Type Information	GPSM	REFER to Section 415-00.
U0422:68	Invalid Data Received From Body Control Module: Event Information	HVAC module	REFER to Section 412-00B.
U0423	Invalid Data Received From Instrument Panel Cluster Control Module	BCM	REFER to Section 414-03.
U0423:00	Invalid Data Received From Instrument Panel Cluster (IPC) Control Module: No Sub Type Information	APIM	REFER to Section 415-00.
U0423:00	Invalid Data Received From Instrument Panel Cluster (IPC) Control Module: No Sub Type Information	GPSM	REFER to Section 415-00.
U0423:64	Invalid Data Received From Instrument Panel Cluster (IPC) Control Module: Signal Plausibility Failure	ABS module	REFER to Section 206-09.
U0423:68	Invalid Data Received From Instrument Panel Cluster (IPC) Control Module: Event Information	ACCM	REFER to Section 412-00B.
U0423:68	Invalid Data Received From Instrument Panel Cluster (IPC) Control Module: Event Information	HVAC module	REFER to Section 412-00B.
U0424	Invalid Data Received From HVAC Control Module	BCM	REFER to Section 414-03.
U0452	Invalid Data Received From Restraints Control Module	ABS module	REFER to Section 206-09.
U0452:29	Invalid Data Received From Restraints Control Module: Signal Invalid	ABS module	REFER to Section 206-09.
U045A	Invalid Data Received From Parking Assist Control Module A	PSCM	REFER to Section 211-00.
U046B:00	Invalid Data Received From Global Positioning System Module: No Sub Type Information	APIM	REFER to Section 415-00.
U0485:00	Invalid Data Received From Radio: No Sub Type Information	APIM	REFER to Section 415-00.
U0554:00	Invalid Data Received From Accessory Protocol Interface Module: No Sub Type Information	RCM	REFER to Section 501-20B.
U1000:00	Solid State Driver Protection Activated - Driver Disabled: No Sub Type Information	HVAC module	REFER to Section 412-00B.
U1901	CAN Network #2 Communication Bus Fault - Receive Error	ABS module	REFER to Section 206-09.
U2013	Compass Module is Not Responding	IC	REFER to Section 419-11.
U2013:63	Switch Pack: Circuit / Component Protection Time-Out	ACM	REFER to Section 415-00.
U2013:63	Switch Pack: Circuit / Component Protection Time-Out	FCIM	REFER to Section 415-00.
U2014:09	Control Module Hardware: Component Failures	ACM	REFER to Section 415-00.
U2014:41	Control Module Hardware: General Checksum Failure	ACM	REFER to Section 415-00.
U2014:41	Control Module Hardware: General Checksum Failure	FCIM	REFER to Section 415-00.
U2014:96	Control Module Hardware: Component Internal Failure	ACM	REFER to Section 415-00.
U201A:51	Control Module Main Calibration Data: Not Programmed	ACM	REFER to Section 418-01.
U201A:51	Control Module Main Calibration Data: Not Programmed	FCIM	REFER to Section 418-01.
U2023	Fault Received From External Node	IC	REFER to Section 418-00.
U2023	Fault Received From External Node	PSCM	REFER to Section 211-00.
U2050	No Application Present	4x4 control module	REFER to Section 418-01.

DIAGNOSIS AND TESTING (Continued)

(Continued)

DTC	Description	Source	Action
U2050	No Application Present	ABS module	REFER to Section 206-09.
U2050	No Application Present	ACM	REFER to Section 418-01.
U2050	No Application Present	BCM	REFER to Section 418-01.
U2050	No Application Present	FDIM	REFER to Section 418-01.
U2050	No Application Present	HVAC module	REFER to Section 418-01.
U2050	No Application Present	IC	REFER to Section 418-01.
U2050	No Application Present	OCSM	REFER to Section 501-20B.
U2050	No Application Present	PSCM	REFER to Section 418-01.
U2050	No Application Present	SJB	REFER to Section 418-01.
U2050	No Application Present	TCM	REFER to Section 418-01.
U2051	One or More Calibration Files Missing/Corrupt	4x4 control module	REFER to Section 418-01.
U2051	One or More Calibration Files Missing/Corrupt	ACM	REFER to Section 418-01.
U2051	One or More Calibration Files Missing/Corrupt	FDIM	REFER to Section 418-01.
U2051	One or More Calibration Files Missing/Corrupt	HVAC module	REFER to Section 418-01.
U2051	One or More Calibration Files Missing/Corrupt	OCSM	REFER to Section 501-20B.
U2100:00	Initial Configuration Not Complete: No Sub Type Information	ABS module	REFER to Section 206-09.
U2100:00	Initial Configuration Not Complete: No Sub Type Information	ACM	REFER to Section 418-01.
U2100:00	Initial Configuration Not Complete: No Sub Type Information	APIM	REFER to Section 418-01.
U2100:00	Initial Configuration Not Complete: No Sub Type Information	RCM	REFER to Section 501-20B.
U2100:41	Initial Configuration Not Complete: General Checksum Failure	ABS module	REFER to Section 206-09.
U2100:56	Initial Configuration Not Complete: Invalid / Incompatible Configuration	ABS module	REFER to Section 206-09.
U2101:00	Control Module Configuration Incompatible: No Sub Type Information	ACM	REFER to Section 418-01.
U2101:00	Control Module Configuration Incompatible: No Sub Type Information	APIM	REFER to Section 418-01.
U2196	Invalid 'Engine RPM' Data	IC	REFER to Section 413-01.
U2197	Invalid 'Vehicle Speed' Data	IC	REFER to Section 413-01.
U2198	Invalid 'Fuel Pulse' Data	IC	REFER to Section 413-01.
U2199	Invalid 'Engine Coolant Temperature' Data	IC	REFER to Section 413-01.
U2200	Invalid 'ODO Count' Data	IC	REFER to Section 413-01.
U2200:00	Control Module Configuration Memory Corrupt: No Sub Type Information	RCM	REFER to Section 501-20B.
U2472	Unexpected Ignition State	IC	REFER to Section 413-01.
U2472	Unexpected Ignition State	SJB	REFER to Section 211-05.
U2473	Unexpected Vehicle Speed (VSS)	SJB	<p>NOTE: Sets during the self-test if vehicle speed exceeds 3 mph (5 kph) or vehicle speed cannot be determined by the SJB.</p> <p>VERIFY the speedometer operates correctly. If the speedometer does not operate correctly, REFER to Section 413-01. If the speedometer operates correctly, the self-test is carried out while the vehicle is moving. STOP the vehicle and REPEAT the self-test.</p>

DIAGNOSIS AND TESTING (Continued)**(Continued)**

DTC	Description	Source	Action
U2510	CAN - Invalid Data for Vehicle Security	IC	For gas vehicles, REFER to Section 419-01A. For hybrid vehicles, REFER to Section 419-01B.
U2511	CAN - Data Mis-Match (Receive Data Does Not Match Expected)	IC	For gas vehicles, REFER to Section 419-01A. For hybrid vehicles, REFER to Section 419-01B.
U261A	CAN Data / Configuration Setup Mismatch	IC	REFER to Section 413-01.
U3000:04	Control Module: System Internal Failures	APIM	REFER to Section 415-00.
U3000:09	Control Module: Component Failures	GPSM	REFER to Section 415-00.
U3000:41	Control Module: General Checksum Failure	ABS module	REFER to Section 206-09.
U3000:41	Control Module: General Checksum Failure	APIM	REFER to Section 415-00.
U3000:41	Control Module: General Checksum Failure	GPSM	REFER to Section 415-00.
U3000:41	Control Module: General Checksum Failure	HVAC module	REFER to Section 412-00B.
U3000:42	Control Module: General Memory Failure	APIM	REFER to Section 415-00.
U3000:42	Control Module: General Memory Failure	GPSM	REFER to Section 415-00.
U3000:43	Control Module: Special Memory Failure	ABS module	REFER to Section 206-09.
U3000:45	Control Module: Program Memory Failure	ACM	REFER to Section 415-00.
U3000:45	Control Module: Program Memory Failure	PAM	REFER to Section 413-13A.
U3000:46	Control Module: Calibration / Parameter Memory Failure	RCM	REFER to Section 501-20B.
U3000:47	Control Module: Watchdog / Safety Failure	ABS module	REFER to Section 206-09.
U3000:49	Control Module: Internal Electronic Failure	ABS module	REFER to Section 206-09.
U3000:49	Control Module: Internal Electronic Failure	ACCM	REFER to Section 412-00B.
U3000:49	Control Module: Internal Electronic Failure	HVAC module	REFER to Section 412-00B.
U3000:49	Control Module: Internal Electronic Failure	RCM	REFER to Section 501-20B.
U3000:4A	Control Module: Incorrect Component Installed	RCM	REFER to Section 501-20B.
U3000:4B	Control Module: Over Temperature	ABS module	REFER to Section 206-09.
U3000:88	Control Module: Bus Off	APIM	REFER to Section 418-00.
U3002:62	Vehicle Identification Number: Signal Compare Failure	ABS module	REFER to Section 206-09.
U3002:62	Vehicle Identification Number: Signal Compare Failure	RCM	REFER to Section 501-20B.
U3003:16	Battery Voltage: Circuit Voltage Below Threshold	ABS module	REFER to Section 206-09.
U3003:16	Battery Voltage: Circuit Voltage Below Threshold	ACM	REFER to Section 415-00.
U3003:16	Battery Voltage: Circuit Voltage Below Threshold	APIM	REFER to Section 415-00.
U3003:16	Battery Voltage: Circuit Voltage Below Threshold	FCIM	REFER to Section 415-00.
U3003:16	Battery Voltage: Circuit Voltage Below Threshold	GPSM	REFER to Section 415-00.
U3003:16	Battery Voltage: Circuit Voltage Below Threshold	HVAC module	REFER to Section 412-00B.
U3003:16	Battery Voltage: Circuit Voltage Below Threshold	RCM	REFER to Section 501-20B.
U3003:17	Battery Voltage: Circuit Voltage Above Threshold	ABS module	REFER to Section 206-09.
U3003:17	Battery Voltage: Circuit Voltage Above Threshold	ACM	REFER to Section 415-00.
U3003:17	Battery Voltage: Circuit Voltage Above Threshold	APIM	REFER to Section 415-00.
U3003:17	Battery Voltage: Circuit Voltage Above Threshold	FCIM	REFER to Section 415-00.
U3003:17	Battery Voltage: Circuit Voltage Above Threshold	GPSM	REFER to Section 415-00.
U3003:17	Battery Voltage: Circuit Voltage Above Threshold	HVAC module	REFER to Section 412-00B.
U3003:17	Battery Voltage: Circuit Voltage Above Threshold	RCM	REFER to Section 501-20B.