

2009 Toyota Highlander Limited

2009 DTC INDEX Highlander (Except Hybrid)

2009 DTC INDEX**Highlander (Except Hybrid)****AIR BAG RESTRAINT DTCS (A00346223)****AIR BAG RESTRAINT DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION**

DTC / Flash Codes	Description
<u>B1000/31</u>	Center Airbag Sensor Assembly Malfunction
<u>B1610/13</u>	Front Airbag Sensor RH Malfunction
<u>B1612/83</u>	Lost Communication with Front Airbag Sensor RH
<u>B1613/83</u>	Front Airbag Sensor RH Initialization Incomplete
<u>B1615/14</u>	Front Airbag Sensor LH Malfunction
<u>B1617/84</u>	Lost Communication with Front Airbag Sensor LH
<u>B1618/84</u>	Front Airbag Sensor LH Initialization Incomplete
<u>B1620/21</u>	Driver Side - Side Airbag Sensor Malfunction
<u>B1622/81</u>	Lost Communication with Driver Side - Side Airbag Sensor Assembly
<u>B1623/81</u>	Driver Side - Side Airbag Sensor Assembly Initialization Incomplete
<u>B1625/22</u>	Front Passenger Side - Side Airbag Sensor Malfunction
<u>B1627/82</u>	Lost Communication with Front Passenger Side - Side Airbag Sensor Assembly
<u>B1628/82</u>	Front Passenger Side - Side Airbag Sensor Assembly Initialization Incomplete
<u>B1630/23</u>	Driver Side Rear Airbag Sensor Malfunction
<u>B1632/81</u>	Lost Communication with Driver Side Rear Airbag Sensor
<u>B1633/81</u>	Driver Side Rear Airbag Sensor Initialization Incomplete
<u>B1635/24</u>	Front Passenger Side Rear Airbag Sensor Malfunction
<u>B1637/82</u>	Lost Communication with Passenger Side Rear Airbag Sensor
<u>B1638/82</u>	Passenger Side Rear Airbag Sensor Initialization Incomplete
<u>B1642/81</u>	Lost Communication with Driver Side Satellite Sensor Bus
<u>B1643/81</u>	Driver Side Satellite Sensor Bus Initialization Incomplete
<u>B1647/82</u>	Lost Communication with Front Passenger Side Satellite Sensor Bus
<u>B1648/82</u>	Front Passenger Side Satellite Sensor Bus Initialization Incomplete
<u>B1650/32</u>	Occupant Classification System Malfunction
<u>B1653/35</u>	Seat Position Airbag Sensor Circuit Malfunction
<u>B1655/37</u>	Driver Side Seat Belt Buckle Switch Circuit Malfunction
<u>B1660/43</u>	Passenger Airbag ON/OFF Indicator Circuit Malfunction
<u>B1800/51</u>	Short in Driver Side Squib Circuit
<u>B1801/51</u>	Open in Driver Side Squib Circuit
<u>B1802/51</u>	Short to GND in Driver Side Squib Circuit
<u>B1803/51</u>	Short to B+ in Driver Side Squib Circuit
<u>B1805/52</u>	Short in Front Passenger Side Squib Circuit

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<u>B1806/52</u>	Open in Front Passenger Side Squib Circuit
<u>B1807/52</u>	Short to GND in Front Passenger Side Squib Circuit
<u>B1808/52</u>	Short to B+ in Front Passenger Side Squib Circuit
<u>B1810/53</u>	Short in Driver Side Squib 2nd Step Circuit
<u>B1811/53</u>	Open in Driver Side Squib 2nd Step Circuit
<u>B1812/53</u>	Short to GND in Driver Side Squib 2nd Step Circuit
<u>B1813/53</u>	Short to B+ in Driver Side Squib 2nd Step Circuit
<u>B1815/54</u>	Short in Front Passenger Side Squib 2nd Step Circuit
<u>B1816/54</u>	Open in Front Passenger Side Squib 2nd Step Circuit
<u>B1817/54</u>	Short to GND in Front Passenger Side Squib 2nd Step Circuit
<u>B1818/54</u>	Short to B+ in Front Passenger Side Squib 2nd Step Circuit
<u>B1820/55</u>	Short in Front Driver Side - Side Squib Circuit
<u>B1821/55</u>	Open in Front Driver Side - Side Squib Circuit
<u>B1822/55</u>	Short to GND in Front Driver Side - Side Squib Circuit
<u>B1823/55</u>	Short to B+ in Front Driver Side - Side Squib Circuit
<u>B1825/56</u>	Short in Front Passenger Side - Side Squib Circuit
<u>B1826/56</u>	Open in Front Passenger Side - Side Squib Circuit
<u>B1827/56</u>	Short to GND in Front Passenger Side - Side Squib Circuit
<u>B1828/56</u>	Short to B+ in Front Passenger Side - Side Squib Circuit
<u>B1830/57</u>	Short in Driver Side Curtain Shield Squib Circuit
<u>B1831/57</u>	Open in Driver Side Curtain Shield Squib Circuit
<u>B1832/57</u>	Short to GND in Driver Side Curtain Shield Squib Circuit
<u>B1833/57</u>	Short to B+ in Driver Side Curtain Shield Squib Circuit
<u>B1835/58</u>	Short in Front Passenger Side Curtain Shield Squib Circuit
<u>B1836/58</u>	Open in Front Passenger Side Curtain Shield Squib Circuit
<u>B1837/58</u>	Short to GND in Front Passenger Side Curtain Shield Squib Circuit
<u>B1838/58</u>	Short to B+ in Front Passenger Side Curtain Shield Squib Circuit
<u>B1860/64</u>	Short in Driver Side Knee Airbag Squib Circuit
<u>B1861/64</u>	Open in Driver Side Knee Airbag Squib Circuit
<u>B1862/64</u>	Short to GND in Driver Side Knee Airbag Squib Circuit
<u>B1863/64</u>	Short to B+ in Driver Side Knee Airbag Squib Circuit
<u>B1900/73</u>	Short in Front Driver Side Pretensioner Squib Circuit
<u>B1901/73</u>	Open in Front Driver Side Pretensioner Squib Circuit
<u>B1902/73</u>	Short to GND in Front Driver Side Pretensioner Squib Circuit
<u>B1903/73</u>	Short to B+ in Front Driver Side Pretensioner Squib Circuit
<u>B1905/74</u>	Short in Front Passenger Side Pretensioner Squib Circuit
<u>B1906/74</u>	Open in Front Passenger Side Pretensioner Squib Circuit
<u>B1907/74</u>	Short to GND in Front Passenger Side Pretensioner Squib Circuit
<u>B1908/74</u>	Short to B+ in Front Passenger Side Pretensioner Squib Circuit

ANTI-LOCK BRAKE DTCS (A00346272)

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ABS DTCS

ABS DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION

DTC Code	Description
<u>C0226</u>	SFR Solenoid Circuit
<u>C0236</u>	SFL Solenoid Circuit
<u>C0246</u>	SRR Solenoid Circuit
<u>C0256</u>	SRL Solenoid Circuit
<u>C0273</u>	Open in ABS Motor Relay Circuit
<u>C0274</u>	Short in ABS Motor Relay Circuit
<u>C0278</u>	Open in ABS Solenoid Relay Circuit
<u>C0279</u>	Short in ABS Solenoid Relay Circuit
<u>C1225</u>	SM Solenoid Circuit
<u>C1241</u>	Low Power Supply Voltage Malfunction
<u>C1243</u>	Acceleration Sensor Stuck Malfunction
<u>C1245</u>	Acceleration Sensor Output Malfunction
<u>C1361</u>	Short in ABS Motor Fail Safe Relay Circuit
<u>C1337</u>	Different Diameter Tire Malfunction
<u>C1381</u>	Acceleration Sensor Power Supply Voltage Malfunction
<u>C1401</u>	Front Speed Sensor RH Malfunction
<u>C1402</u>	Front Speed Sensor LH Malfunction
<u>C1403</u>	Rear Speed Sensor RH Malfunction
<u>C1404</u>	Rear Speed Sensor LH Malfunction
<u>C1405</u>	Open or Short in Front Speed Sensor RH Circuit
<u>C1406</u>	Open or Short in Front Speed Sensor LH Circuit
<u>C1407</u>	Open or Short in Rear Speed Sensor RH Circuit
<u>C1408</u>	Open or Short in Rear Speed Sensor LH Circuit
<u>C1413</u>	Front Speed Sensor RH Output Malfunction
<u>C1414</u>	Front Speed Sensor LH Output Malfunction
<u>C1415</u>	Rear Speed Sensor RH Output Malfunction
<u>C1416</u>	Rear Speed Sensor LH Output Malfunction
<u>C1417</u>	High Power Supply Voltage Malfunction
<u>C1419</u>	Acceleration Sensor Internal Circuit
<u>C1420</u>	Acceleration Sensor Malfunction
<u>C1421</u>	Open or Short in Master Cylinder Pressure Sensor
<u>C1422</u>	Master Cylinder Pressure Sensor Zero Point High Malfunction
<u>C1423</u>	Master Cylinder Pressure Sensor Zero Point Low Malfunction
<u>C1424</u>	Master Cylinder Pressure Sensor Output Malfunction
<u>C1425</u>	Open in Stop Light Switch Circuit
<u>C1426</u>	Stop Light Switch OFF Stuck Malfunction
<u>C1427</u>	Motor Malfunction

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<u>C1428</u>	Motor Circuit Malfunction
<u>C1429</u>	Open or Short in Brake Pedal Load Sensing Switch
<u>C1430</u>	Brake Pedal Load Sensing Switch OFF Stuck Malfunction
<u>C1431</u>	Brake Pedal Load Sensing Switch ON Stuck Malfunction
<u>C1442</u>	Invalid Data Received from Acceleration Sensor
<u>U0073</u>	Control Module Communication Bus OFF
<u>U0124</u>	Lost Communication with Lateral Acceleration Sensor Module

VSC DTCS

NOTE: In some cases, Techstream cannot be used when the ABS warning light remains on.

VSC DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION

DTC Code	Description
<u>C1201</u>	Engine Control System Malfunction
<u>C1203</u>	ECM Communication Circuit Malfunction
<u>C1210</u>	Zero Point Calibration of Yaw Rate Sensor Undone
<u>C1232</u>	Acceleration Sensor Stuck Malfunction
<u>C1290</u>	Steering Angle Sensor Zero Point Malfunction
<u>C1336</u>	Zero Point Calibration of Acceleration Sensor Undone
<u>C1380</u>	Stop Light Control Relay Malfunction
<u>C1432</u>	Steering Angle Sensor Power Source Voltage Malfunction
<u>C1433</u>	Steering Angle Sensor Internal Circuit
<u>C1434</u>	Steering Angle Sensor Output Malfunction
<u>C1435</u>	Yaw Rate Sensor Internal Circuit
<u>C1436</u>	Yaw Rate Sensor Malfunction
<u>C1437</u>	Lost Communication with ECM
<u>C1439</u>	Steering Angle Sensor Initialization Incomplete
<u>C1440</u>	Unusual Bank Angle Detected
<u>C1441</u>	Brake Booster Malfunction
<u>C1443</u>	Invalid Data Received from Yaw Rate Sensor
<u>C1445</u>	Vehicle Driven with Steering Angle Sensor not Initialized
<u>U0100</u>	Lost Communication with ECM/PCM
<u>U0123</u>	Lost Communication with Yaw Rate Sensor Module
<u>U0126</u>	Lost Communication with Steering Angle Sensor Module

TEST MODE DTC FOR ABS**TEST MODE FOR ABS DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION**

DTC Code	Detection Item
<u>C1271</u>	Low Output Signal of Front Speed Sensor RH (Test Mode DTC)

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<u>C1272</u>	Low Output Signal of Front Speed Sensor LH (Test Mode DTC)
<u>C1273</u>	Low Output Signal of Rear Speed Sensor RH (Test Mode DTC)
<u>C1274</u>	Low Output Signal of Rear Speed Sensor LH (Test Mode DTC)
<u>C1275</u>	Abnormal Change in Output Signal of Front Speed Sensor RH (Test Mode DTC)
<u>C1276</u>	Abnormal Change in Output Signal of Front Speed Sensor LH (Test Mode DTC)
<u>C1277</u>	Abnormal Change in Output Signal of Rear Speed Sensor RH (Test Mode DTC)
<u>C1278</u>	Abnormal Change in Output Signal of Rear Speed Sensor LH (Test Mode DTC)
<u>C1279</u>	Acceleration Sensor Output Voltage Malfunction (Test Mode DTC)
<u>C1281</u>	Master Cylinder Pressure Sensor Output Malfunction (Test Mode DTC)

TEST MODE DTC FOR VSC

TEST MODE FOR VSC DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION

DTC Code	Detection Item
<u>C0371</u>	Yaw Rate Sensor (Test Mode DTC)
<u>C1379</u>	Downhill Assist Control Switch Malfunction (Test Mode DTC)

AUTOMATIC TRANSMISSION DTCS

U151E DTCS (A00346226)

U151E DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION

DTC Code	Description
<u>P0705</u>	Transmission Range Sensor Circuit Malfunction (PRNDL Input)
<u>P0711</u>	Transmission Fluid Temperature Sensor "A" Performance
<u>P0712</u>	Transmission Fluid Temperature Sensor "A" Circuit Low Input
<u>P0713</u>	Transmission Fluid Temperature Sensor "A" Circuit High Input
<u>P0717</u>	Turbine Speed Sensor Circuit No Signal
<u>P0724</u>	Brake Switch "B" Circuit High
<u>P0741</u>	Torque Converter Clutch Solenoid Performance (Shift Solenoid Valve DSL)
<u>P0746</u>	Pressure Control Solenoid "A" Performance (Shift Solenoid Valve SL1)
<u>P0748</u>	Pressure Control Solenoid "A" Electrical (Shift Solenoid Valve SL1)
<u>P0766</u>	Shift Solenoid "D" Performance (Shift Solenoid Valve S4)
<u>P0771</u>	Shift Solenoid "E" Performance (Shift Solenoid Valve SR)
<u>P0776</u>	Pressure Control Solenoid "B" Performance (Shift Solenoid Valve SL2)
<u>P0778</u>	Pressure Control Solenoid "B" Electrical (Shift Solenoid Valve SL2)
<u>P0793</u>	Intermediate Shaft Speed Sensor "A"

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<u>P0796</u>	Pressure Control Solenoid "C" Performance (Shift Solenoid Valve SL3)
<u>P0798</u>	Pressure Control Solenoid "C" Electrical (Shift Solenoid Valve SL3)
<u>P0982</u>	Shift Solenoid "D" Control Circuit Low (Shift Solenoid Valve S4)
<u>P0983</u>	Shift Solenoid "D" Control Circuit High (Shift Solenoid Valve S4)
<u>P0985</u>	Shift Solenoid "E" Control Circuit Low (Shift Solenoid Valve SR)
<u>P0986</u>	Shift Solenoid "E" Control Circuit High (Shift Solenoid Valve SR)
<u>P2714</u>	Pressure Control Solenoid "D" Performance (Shift Solenoid Valve SLT)
<u>P2716</u>	Pressure Control Solenoid "D" Electrical (Shift Solenoid Valve SLT)
<u>P2769</u>	Torque Converter Clutch Solenoid Circuit Low (Shift Solenoid Valve DSL)
<u>P2770</u>	Torque Converter Clutch Solenoid Circuit High (Shift Solenoid Valve DSL)

U151F DTCS (A00346233)

U151F DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION

DTC Code	Description
<u>P0705</u>	Transmission Range Sensor Circuit Malfunction (PRNDL Input)
<u>P0711</u>	Transmission Fluid Temperature Sensor "A" Performance
<u>P0712</u>	Transmission Fluid Temperature Sensor "A" Circuit Low Input
<u>P0713</u>	Transmission Fluid Temperature Sensor "A" Circuit High Input
<u>P0717</u>	Turbine Speed Sensor Circuit No Signal
<u>P0724</u>	Brake Switch "B" Circuit High
<u>P0741</u>	Torque Converter Clutch Solenoid Performance (Shift Solenoid Valve DSL)
<u>P0746</u>	Pressure Control Solenoid "A" Performance (Shift Solenoid Valve SL1)
<u>P0748</u>	Pressure Control Solenoid "A" Electrical (Shift Solenoid Valve SL1)
<u>P0766</u>	Shift Solenoid "D" Performance (Shift Solenoid Valve S4)
<u>P0771</u>	Shift Solenoid "E" Performance (Shift Solenoid Valve SR)
<u>P0776</u>	Pressure Control Solenoid "B" Performance (Shift Solenoid Valve SL2)
<u>P0778</u>	Pressure Control Solenoid "B" Electrical (Shift Solenoid Valve SL2)
<u>P0793</u>	Intermediate Shaft Speed Sensor "A"
<u>P0796</u>	Pressure Control Solenoid "C" Performance (Shift Solenoid Valve SL3)
<u>P0798</u>	Pressure Control Solenoid "C" Electrical (Shift Solenoid Valve SL3)
<u>P0982</u>	Shift Solenoid "D" Control Circuit Low (Shift Solenoid Valve S4)
<u>P0983</u>	Shift Solenoid "D" Control Circuit High (Shift Solenoid Valve S4)
<u>P0985</u>	Shift Solenoid "E" Control Circuit Low (Shift Solenoid Valve SR)
<u>P0986</u>	Shift Solenoid "E" Control Circuit High (Shift Solenoid Valve SR)
<u>P2714</u>	Pressure Control Solenoid "D" Performance (Shift Solenoid Valve SLT)
<u>P2716</u>	Pressure Control Solenoid "D" Electrical (Shift Solenoid Valve SLT)
<u>P2769</u>	Torque Converter Clutch Solenoid Circuit Low (Shift Solenoid Valve DSL)

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Torque Converter Clutch Solenoid Circuit High (Shift Solenoid Valve DSL)

U760E DTCS (A00346234)**U760E DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION**

DTC Code	Description
<u>P0500</u>	Vehicle Speed Sensor "A"
<u>P0560</u>	System Voltage
<u>P0617</u>	Starter Relay Circuit High
<u>P062F</u>	Internal Control Module EEPROM Error
<u>P0705</u>	Transmission Range Sensor Circuit Malfunction (PRNDL Input)
<u>P0711</u>	Transmission Fluid Temperature Sensor "A" Performance
<u>P0712</u>	Transmission Fluid Temperature Sensor "A" Circuit Low Input
<u>P0713</u>	Transmission Fluid Temperature Sensor "A" Circuit High Input
<u>P0715</u>	Input/Turbine Speed Sensor Circuit Malfunction
<u>P0717</u>	Input Speed Sensor Circuit No Signal
<u>P0724</u>	Brake Switch "B" Circuit High
<u>P0741</u>	Torque Converter Clutch Solenoid Performance (Shift Solenoid Valve SL)
<u>P0746</u>	Pressure Control Solenoid "A" Performance (Shift Solenoid Valve SL1)
<u>P0748</u>	Pressure Control Solenoid "A" Electrical (Shift Solenoid Valve SL1)
<u>P0776</u>	Pressure Control Solenoid "B" Performance (Shift Solenoid Valve SL2)
<u>P0778</u>	Pressure Control Solenoid "B" Electrical (Shift Solenoid Valve SL2)
<u>P0791</u>	Intermediate Shaft Speed Sensor "A" Circuit
<u>P0793</u>	Intermediate Shaft Speed Sensor "A"
<u>P0796</u>	Pressure Control Solenoid "C" Performance (Shift Solenoid Valve SL3)
<u>P0798</u>	Pressure Control Solenoid "C" Electrical (Shift Solenoid Valve SL3)
<u>P2714</u>	Pressure Control Solenoid "D" Performance (Shift Solenoid Valve SLT)
<u>P2716</u>	Pressure Control Solenoid "D" Electrical (Shift Solenoid Valve SLT)
<u>P2757</u>	Torque Converter Clutch Pressure Control Solenoid Performance (Shift Solenoid Valve SLU)
<u>P2759</u>	Torque Converter Clutch Pressure Control Solenoid Control Circuit Electrical (Shift Solenoid Valve SLU)
<u>P2769</u>	Short in Torque Converter Clutch Solenoid Circuit (Shift Solenoid Valve SL)
<u>P2770</u>	Open in Torque Converter Clutch Solenoid Circuit (Shift Solenoid Valve SL)
<u>P2808</u>	Pressure Control Solenoid "G" Performance (Shift Solenoid Valve SL4)
<u>P2810</u>	Pressure Control Solenoid "G" Electrical (Shift Solenoid Valve SL4)
<u>U0100</u>	Lost Communication with ECM/PCM "A"

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CAN COMMUNICATION DTCS (A00346276)**CAN COMMUNICATION DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION**

DTC Code	Description
<u>U0230</u>	Lost Communication with Rear Gate Module
<u>U0327</u>	Software Incompatibility with Vehicle Security Control Module
<u>U1002</u> (CAN MS BUS)	Lost Communication with Gateway Module (Main body ECU)

CRUISE CONTROL DTCS (A00346278)**CRUISE CONTROL SYSTEM - DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION**

DTC Code	Description
<u>P0500</u>	Vehicle Speed Sensor Malfunction
<u>P0503</u>	Vehicle Speed Sensor Circuit Malfunction
<u>P0571</u>	Brake Switch "A" Circuit
<u>P0575</u>	Cruise Control Input Circuit
<u>P0607</u>	Input Signal Circuit Malfunction

DOOR LOCK DTCS (A00346277)**DOOR LOCK - DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION**

DTC Code	Description
<u>B1242</u>	Wireless Door Lock Tuner Circuit Malfunction

ENGINE HOOD/DOOR DTCS (A00346266)**BACK DOOR CLOSER SYSTEM DTCS****BACK DOOR CLOSER SYSTEM - DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION**

DTC Code	Description
<u>B2250</u>	Back Door Closer Operation Malfunction
<u>B2251</u>	Back Door Closer Switch Malfunction

POWER BACK DOOR SYSTEM DTCS**POWER BACK DOOR SYSTEM - DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION**

DTC Code	Description
<u>B2222</u>	PBD Pulse Sensor Malfunction
<u>B2225</u>	Back Door Motor Clutch Malfunction

ENGINE IMMOBILIZER DTCS (A00346263)

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W/ SMART KEY SYSTEM DTCS

W/ SMART KEY SYSTEM - DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION

DTC Code	Description
<u>B2784</u>	Antenna Coil Open/Short
<u>B2785</u>	Communication Malfunction between ECUs Connected by LIN
<u>B2786</u>	No Response from Steering Lock ECU
<u>B2789</u>	No Response from ID BOX
<u>B278A</u>	Short to GND in Immobiliser System Power Source Circuit
<u>B2790</u>	ID BOX EEPROM Malfunction

W/O SMART KEY SYSTEM DTCS

W/O SMART KEY SYSTEM - DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION

DTC Code	Description
<u>B2780</u>	Push Switch/Key Unlock Warning Switch Malfunction
<u>B2784</u>	Antenna Coil Open/Short
<u>B2793</u>	Transponder Chip Malfunction
<u>B2794</u>	Unmatched Encryption Code
<u>B2795</u>	Unmatched Key Code
<u>B2796</u>	No Communication in Immobiliser System
<u>B2797</u>	Communication Malfunction No. 1
<u>B2798</u>	Communication Malfunction No. 2

ENGINE PERFORMANCE DTCS

ENGINE CONTROL SYSTEM (1AR-FE) DTCS (A00346248)

ENGINE CONTROL SYSTEM (1AR-FE) - DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION

DTC Code	Description
<u>P0010</u>	Camshaft Position "A" Actuator Circuit (Bank 1)
<u>P0011</u>	Camshaft Position "A" - Timing Over-Advanced or System Performance (Bank 1)
<u>P0012</u>	Camshaft Position "A" - Timing Over-Retarded (Bank 1)
<u>P0013</u>	Camshaft Position "B" Actuator Circuit/Open (Bank 1)
<u>P0014</u>	Camshaft Position "B" - Timing Over-Advanced or System Performance (Bank 1)
<u>P0015</u>	Camshaft Position "B" - Timing Over-Retarded (Bank 1)
<u>P0016</u>	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)
<u>P0017</u>	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor B)
<u>P0031</u>	Oxygen (A/F) Sensor Heater Control Circuit Low (Bank 1 Sensor 1)
<u>P0032</u>	Oxygen (A/F) Sensor Heater Control Circuit High (Bank 1 Sensor 1)

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<u>P0037</u>	Oxygen Sensor Heater Control Circuit Low (Bank 1 Sensor 2)
<u>P0038</u>	Oxygen Sensor Heater Control Circuit High (Bank 1 Sensor 2)
<u>P0101</u>	Mass Air Flow Circuit Range/Performance Problem
<u>P0102</u>	Mass or Volume Air Flow Circuit Low Input
<u>P0103</u>	Mass or Volume Air Flow Circuit High Input
<u>P0111</u>	Intake Air Temperature Sensor Gradient Too High
<u>P0112</u>	Intake Air Temperature Circuit Low Input
<u>P0113</u>	Intake Air Temperature Circuit High Input
<u>P0115</u>	Engine Coolant Temperature Circuit Malfunction
<u>P0116</u>	Engine Coolant Temperature Circuit Range/Performance Problem
<u>P0117</u>	Engine Coolant Temperature Circuit Low Input
<u>P0118</u>	Engine Coolant Temperature Circuit High Input
<u>P011B</u>	Engine Coolant Temperature/Intake Air Temperature Correlation
<u>P0120</u>	Throttle/Pedal Position Sensor/Switch "A" Circuit Malfunction
<u>P0121</u>	Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance Problem
<u>P0122</u>	Throttle/Pedal Position Sensor/Switch "A" Circuit Low Input
<u>P0123</u>	Throttle/Pedal Position Sensor/Switch "A" Circuit High Input
<u>P0125</u>	Insufficient Coolant Temperature for Closed Loop Fuel Control
<u>P0128</u>	Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature)
<u>P0136</u>	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)
<u>P0137</u>	Oxygen Sensor Circuit Low Voltage (Bank 1 Sensor 2)
<u>P0138</u>	Oxygen Sensor Circuit High Voltage (Bank 1 Sensor 2)
<u>P0139</u>	Oxygen Sensor Circuit Slow Response (Bank 1 Sensor 2)
<u>P0141</u>	Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)
<u>P0171</u>	System Too Lean (Bank 1)
<u>P0172</u>	System Too Rich (Bank 1)
<u>P0220</u>	Throttle/Pedal Position Sensor/Switch "B" Circuit
<u>P0222</u>	Throttle/Pedal Position Sensor/Switch "B" Circuit Low Input
<u>P0223</u>	Throttle/Pedal Position Sensor/Switch "B" Circuit High Input
<u>P0300</u>	Random/Multiple Cylinder Misfire Detected
<u>P0301</u>	Cylinder 1 Misfire Detected
<u>P0302</u>	Cylinder 2 Misfire Detected
<u>P0303</u>	Cylinder 3 Misfire Detected
<u>P0304</u>	Cylinder 4 Misfire Detected
<u>P0327</u>	Knock Sensor 1 Circuit Low Input (Bank 1 or Single Sensor)
<u>P0328</u>	Knock Sensor 1 Circuit High Input (Bank 1 or Single Sensor)
<u>P0335</u>	Crankshaft Position Sensor "A" Circuit
<u>P0339</u>	Crankshaft Position Sensor "A" Circuit Intermittent
<u>P0340</u>	Camshaft Position Sensor Circuit Malfunction

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<u>P0342</u>	Camshaft Position Sensor "A" Circuit Low Input (Bank 1 or Single Sensor)
<u>P0343</u>	Camshaft Position Sensor "A" Circuit High Input (Bank 1 or Single Sensor)
<u>P0351</u>	Ignition Coil "A" Primary/Secondary Circuit
<u>P0352</u>	Ignition Coil "B" Primary/Secondary Circuit
<u>P0353</u>	Ignition Coil "C" Primary/Secondary Circuit
<u>P0354</u>	Ignition Coil "D" Primary/Secondary Circuit
<u>P0365</u>	Camshaft Position Sensor "B" Circuit (Bank 1)
<u>P0367</u>	Camshaft Position Sensor "B" Circuit Low Input (Bank 1)
<u>P0368</u>	Camshaft Position Sensor "B" Circuit High Input (Bank 1)
<u>P0420</u>	Catalyst System Efficiency Below Threshold (Bank 1)
<u>P043E</u>	Evaporative Emission System Leak Detection Reference Orifice Low Flow
<u>P043F</u>	Evaporative Emission System Reference Orifice High Flow
<u>P0441</u>	Evaporative Emission Control System Incorrect Purge Flow
<u>P0451</u>	Evaporative Emission Control System Pressure Sensor Range/Performance
<u>P0452</u>	Evaporative Emission Control System Pressure Sensor/Switch Low Input
<u>P0453</u>	Evaporative Emission Control System Pressure Sensor/Switch High Input
<u>P0455</u>	Evaporative Emission Control System Leak Detected (Gross Leak)
<u>P0456</u>	Evaporative Emission Control System Leak Detected (Very Small Leak)
<u>P0500</u>	Vehicle Speed Sensor "A"
<u>P0504</u>	Brake Switch "A"/"B" Correlation
<u>P0505</u>	Idle Control System Malfunction
<u>P050A</u>	Cold Start Idle Air Control System Performance
<u>P050B</u>	Cold Start Ignition Timing Performance
<u>P0560</u>	System Voltage
<u>P0604</u>	Random Access Memory (RAM)
<u>P0606</u>	ECM/PCM Processor
<u>P0607</u>	Control Module Performance
<u>P060A</u>	Internal Control Module Monitoring Processor Performance
<u>P060B</u>	Internal Control Module A/D Processing Performance
<u>P060D</u>	Internal Control Module Accelerator Pedal Position Performance
<u>P060E</u>	Internal Control Module Throttle Position Performance
<u>P0617</u>	Starter Relay Circuit High
<u>P062F</u>	Internal Control Module EEPROM Error
<u>P0630</u>	VIN not Programmed or Mismatch - ECM/PCM
<u>P0657</u>	Actuator Supply Voltage Circuit/Open
<u>P0705</u>	Transmission Range Sensor Circuit Malfunction (PRNDL Input)
<u>P0724</u>	Brake Switch "B" Circuit High
<u>P101D</u>	A/F Sensor Heater Circuit Performance Bank 1 Sensor 1 Stuck ON

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<u>P102D</u>	O2 Sensor Heater Circuit Performance Bank 1 Sensor 2 Stuck ON
<u>P1607</u>	Cruise Control Input Processor
<u>P2004</u>	Intake Manifold Runner Control Stuck Open (Bank 1)
<u>P2006</u>	Intake Manifold Runner Control Stuck Closed (Bank 1)
<u>P2009</u>	Intake Manifold Runner Control Circuit Low (Bank 1)
<u>P2010</u>	Intake Manifold Runner Control Circuit High (Bank 1)
<u>P2014</u>	Intake Manifold Runner Position Sensor/Switch Circuit (Bank 1)
<u>P2016</u>	Intake Manifold Runner Position Sensor/Switch Circuit Low (Bank 1)
<u>P2017</u>	Intake Manifold Runner Position Sensor/Switch Circuit High (Bank 1)
<u>P2102</u>	Throttle Actuator Control Motor Circuit Low
<u>P2103</u>	Throttle Actuator Control Motor Circuit High
<u>P2111</u>	Throttle Actuator Control System - Stuck Open
<u>P2112</u>	Throttle Actuator Control System - Stuck Closed
<u>P2118</u>	Throttle Actuator Control Motor Current Range/Performance
<u>P2119</u>	Throttle Actuator Control Throttle Body Range/Performance
<u>P2120</u>	Throttle/Pedal Position Sensor/Switch "D" Circuit
<u>P2121</u>	Throttle/Pedal Position Sensor/Switch "D" Circuit Range/Performance
<u>P2122</u>	Throttle/Pedal Position Sensor/Switch "D" Circuit Low Input
<u>P2123</u>	Throttle/Pedal Position Sensor/Switch "D" Circuit High Input
<u>P2125</u>	Throttle/Pedal Position Sensor/Switch "E" Circuit
<u>P2127</u>	Throttle/Pedal Position Sensor/Switch "E" Circuit Low Input
<u>P2128</u>	Throttle/Pedal Position Sensor/Switch "E" Circuit High Input
<u>P2135</u>	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation
<u>P2138</u>	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation
<u>P2195</u>	Oxygen (A/F) Sensor Signal Stuck Lean (Bank 1 Sensor 1)
<u>P2196</u>	Oxygen (A/F) Sensor Signal Stuck Rich (Bank 1 Sensor 1)
<u>P2237</u>	Oxygen (A/F) Sensor Pumping Current Circuit/Open (Bank 1 Sensor 1)
<u>P2238</u>	Oxygen (A/F) Sensor Pumping Current Circuit Low (Bank 1 Sensor 1)
<u>P2239</u>	Oxygen (A/F) Sensor Pumping Current Circuit High (Bank 1 Sensor 1)
<u>P2252</u>	Oxygen (A/F) Sensor Reference Ground Circuit Low (Bank 1 Sensor 1)
<u>P2253</u>	Oxygen (A/F) Sensor Reference Ground Circuit High (Bank 1 Sensor 1)
<u>P2401</u>	Evaporative Emission Leak Detection Pump Stuck OFF
<u>P2402</u>	Evaporative Emission Leak Detection Pump Stuck ON
<u>P2419</u>	Evaporative Emission System Switching Valve Control Circuit Low
<u>P2420</u>	Evaporative Emission System Switching Valve Control Circuit High
<u>P2610</u>	ECM/PCM Internal Engine Off Timer Performance
<u>P2A00</u>	A/F Sensor Circuit Slow Response (Bank 1 Sensor 1)
<u>U0101</u>	Lost Communication with TCM

ENGINE CONTROL SYSTEM (2GR-FE) DTCS (A00346261)**ENGINE CONTROL SYSTEM (2GR-FE) - DIAGNOSTIC TROUBLE CODE (DTC)**

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IDENTIFICATION

DTC Code	Description
<u>P0010</u>	Camshaft Position "A" Actuator Circuit (Bank 1)
<u>P0011</u>	Camshaft Position "A" - Timing Over-Advanced or System Performance (Bank 1)
<u>P0012</u>	Camshaft Position "A" - Timing Over-Retarded (Bank 1)
<u>P0013</u>	Camshaft Position "B" Actuator Circuit/Open (Bank 1)
<u>P0014</u>	Camshaft Position "B" - Timing Over-Advanced or System Performance (Bank 1)
<u>P0015</u>	Camshaft Position "B" - Timing Over-Retarded (Bank 1)
<u>P0016</u>	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)
<u>P0017</u>	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor B)
<u>P0018</u>	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor A)
<u>P0019</u>	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor B)
<u>P0020</u>	Camshaft Position "A" Actuator Circuit (Bank 2)
<u>P0021</u>	Camshaft Position "A" - Timing Over-Advanced or System Performance (Bank 2)
<u>P0022</u>	Camshaft Position "A" - Timing Over-Retarded (Bank 2)
<u>P0023</u>	Camshaft Position "B" Actuator Circuit/Open (Bank 2)
<u>P0024</u>	Camshaft Position "B" - Timing Over-Advanced or System Performance (Bank 2)
<u>P0025</u>	Camshaft Position "B" - Timing Over-Retarded (Bank 2)
<u>P0031</u>	Oxygen (A/F) Sensor Heater Control Circuit Low (Bank 1 Sensor 1)
<u>P0032</u>	Oxygen (A/F) Sensor Heater Control Circuit High (Bank 1 Sensor 1)
<u>P0037</u>	Oxygen Sensor Heater Control Circuit Low (Bank 1 Sensor 2)
<u>P0038</u>	Oxygen Sensor Heater Control Circuit High (Bank 1 Sensor 2)
<u>P0051</u>	Oxygen (A/F) Sensor Heater Control Circuit Low (Bank 2 Sensor 1)
<u>P0052</u>	Oxygen (A/F) Sensor Heater Control Circuit High (Bank 2 Sensor 1)
<u>P0057</u>	Oxygen Sensor Heater Control Circuit Low (Bank 2 Sensor 2)
<u>P0058</u>	Oxygen Sensor Heater Control Circuit High (Bank 2 Sensor 2)
<u>P0100</u>	Mass or Volume Air Flow Circuit
<u>P0101</u>	Mass or Volume Air Flow Circuit Range/Performance Problem
<u>P0102</u>	Mass or Volume Air Flow Circuit Low Input
<u>P0103</u>	Mass or Volume Air Flow Circuit High Input
<u>P0110</u>	Intake Air Temperature Circuit
<u>P0111</u>	Intake Air Temperature Sensor Gradient Too High
<u>P0112</u>	Intake Air Temperature Circuit Low Input
<u>P0113</u>	Intake Air Temperature Circuit High Input
<u>P0115</u>	Engine Coolant Temperature Circuit
<u>P0116</u>	Engine Coolant Temperature Circuit Range/Performance Problem
<u>P0117</u>	Engine Coolant Temperature Circuit Low Input
<u>P0118</u>	Engine Coolant Temperature Circuit High Input

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<u>P011B</u>	Engine Coolant Temperature/Intake Air Temperature Correlation
<u>P0120</u>	Throttle/Pedal Position Sensor/Switch "A" Circuit
<u>P0121</u>	Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance Problem
<u>P0122</u>	Throttle/Pedal Position Sensor/Switch "A" Circuit Low Input
<u>P0123</u>	Throttle/Pedal Position Sensor/Switch "A" Circuit High Input
<u>P0125</u>	Insufficient Coolant Temperature for Closed Loop Fuel Control
<u>P0128</u>	Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature)
<u>P0136</u>	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)
<u>P0137</u>	Oxygen Sensor Circuit Low Voltage (Bank 1 Sensor 2)
<u>P0138</u>	Oxygen Sensor Circuit High Voltage (Bank 1 Sensor 2)
<u>P0139</u>	Oxygen Sensor Circuit Slow Response (Bank 1 Sensor 2)
<u>P0141</u>	Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)
<u>P0156</u>	Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 2)
<u>P0157</u>	Oxygen Sensor Circuit Low Voltage (Bank 2 Sensor 2)
<u>P0158</u>	Oxygen Sensor Circuit High Voltage (Bank 2 Sensor 2)
<u>P0159</u>	Oxygen Sensor Circuit Slow Response (Bank 2 Sensor 2)
<u>P0161</u>	Oxygen Sensor Heater Circuit Malfunction (Bank 2 Sensor 2)
<u>P0171</u>	System Too Lean (Bank 1)
<u>P0172</u>	System Too Rich (Bank 1)
<u>P0174</u>	System Too Lean (Bank 2)
<u>P0175</u>	System Too Rich (Bank 2)
<u>P0220</u>	Throttle/Pedal Position Sensor/Switch "B" Circuit
<u>P0222</u>	Throttle/Pedal Position Sensor/Switch "B" Circuit Low Input
<u>P0223</u>	Throttle/Pedal Position Sensor/Switch "B" Circuit High Input
<u>P0230</u>	Fuel Pump Primary Circuit
<u>P0300</u>	Random/Multiple Cylinder Misfire Detected
<u>P0301</u>	Cylinder 1 Misfire Detected
<u>P0302</u>	Cylinder 2 Misfire Detected
<u>P0303</u>	Cylinder 3 Misfire Detected
<u>P0304</u>	Cylinder 4 Misfire Detected
<u>P0305</u>	Cylinder 5 Misfire Detected
<u>P0306</u>	Cylinder 6 Misfire Detected
<u>P0327</u>	Knock Sensor 1 Circuit Low Input (Bank 1 or Single Sensor)
<u>P0328</u>	Knock Sensor 1 Circuit High Input (Bank 1 or Single Sensor)
<u>P0332</u>	Knock Sensor 2 Circuit Low Input (Bank 2)
<u>P0333</u>	Knock Sensor 2 Circuit High Input (Bank 2)
<u>P0335</u>	Crankshaft Position Sensor "A" Circuit
<u>P0339</u>	Crankshaft Position Sensor "A" Circuit Intermittent
<u>P0340</u>	Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)

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<u>P0342</u>	Camshaft Position Sensor "A" Circuit Low Input (Bank 1 or Single Sensor)
<u>P0343</u>	Camshaft Position Sensor "A" Circuit High Input (Bank 1 or Single Sensor)
<u>P0345</u>	Camshaft Position Sensor "A" Circuit (Bank 2)
<u>P0347</u>	Camshaft Position Sensor "A" Circuit Low Input (Bank 2)
<u>P0348</u>	Camshaft Position Sensor "A" Circuit High Input (Bank 2)
<u>P0351</u>	Ignition Coil "A" Primary/Secondary Circuit
<u>P0352</u>	Ignition Coil "B" Primary/Secondary Circuit
<u>P0353</u>	Ignition Coil "C" Primary/Secondary Circuit
<u>P0354</u>	Ignition Coil "D" Primary/Secondary Circuit
<u>P0355</u>	Ignition Coil "E" Primary/Secondary Circuit
<u>P0356</u>	Ignition Coil "F" Primary/Secondary Circuit
<u>P0365</u>	Camshaft Position Sensor "B" Circuit (Bank 1)
<u>P0367</u>	Camshaft Position Sensor "B" Circuit Low Input (Bank 1)
<u>P0368</u>	Camshaft Position Sensor "B" Circuit High Input (Bank 1)
<u>P0390</u>	Camshaft Position Sensor "B" Circuit (Bank 2)
<u>P0392</u>	Camshaft Position Sensor "B" Circuit Low Input (Bank 2)
<u>P0393</u>	Camshaft Position Sensor "B" Circuit High Input (Bank 2)
<u>P0420</u>	Catalyst System Efficiency Below Threshold (Bank D
<u>P0430</u>	Catalyst System Efficiency Below Threshold (Bank 2)
<u>P043E</u>	Evaporative Emission System Reference Orifice Clog Up
<u>P043F</u>	Evaporative Emission System Reference Orifice High Flow
<u>P0441</u>	Evaporative Emission Control System Incorrect Purge Flow
<u>P0451</u>	Evaporative Emission Control System Pressure Sensor Range/Performance
<u>P0452</u>	Evaporative Emission Control System Pressure Sensor/Switch Low Input
<u>P0453</u>	Evaporative Emission Control System Pressure Sensor/Switch High Input
<u>P0455</u>	Evaporative Emission Control System Leak Detected (Gross Leak)
<u>P0456</u>	Evaporative Emission Control System Leak Detected (Very Small Leak)
<u>P0500</u>	Vehicle Speed Sensor "A"
<u>P0504</u>	Brake Switch "A"/"B" Correlation
<u>P0505</u>	Idle Control System Malfunction
<u>P0560</u>	System Voltage
<u>P050A</u>	Cold Start Idle Air Control System Performance
<u>P050B</u>	Cold Start Ignition Timing Performance
<u>P0604</u>	Internal Control Module Random Access Memory (RAM) Error
<u>P0606</u>	ECM/PCM Processor
<u>P0607</u>	Control Module Performance
<u>P0617</u>	Starter Relay Circuit High
<u>P0630</u>	VIN not Programmed or Mismatch - ECM/PCM
<u>P0657</u>	Actuator Supply Voltage Circuit/Open

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<u>P0724</u>	Brake Switch "B" Circuit High
<u>P2102</u>	Throttle Actuator Control Motor Circuit Low
<u>P2103</u>	Throttle Actuator Control Motor Circuit High
<u>P2111</u>	Throttle Actuator Control System - Stuck Open
<u>P2112</u>	Throttle Actuator Control System - Stuck Closed
<u>P2118</u>	Throttle Actuator Control Motor Current Range/Performance
<u>P2119</u>	Throttle Actuator Control Throttle Body Range/Performance
<u>P2120</u>	Throttle/Pedal Position Sensor/Switch "D" Circuit
<u>P2121</u>	Throttle/Pedal Position Sensor/Switch "D" Circuit Range/Performance
<u>P2122</u>	Throttle/Pedal Position Sensor/Switch "D" Circuit Low Input
<u>P2123</u>	Throttle/Pedal Position Sensor/Switch "D" Circuit High Input
<u>P2125</u>	Throttle/Pedal Position Sensor/Switch "E" Circuit
<u>P2127</u>	Throttle/Pedal Position Sensor/Switch "E" Circuit Low Input
<u>P2128</u>	Throttle/Pedal Position Sensor/Switch "E" Circuit High Input
<u>P2135</u>	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation
<u>P2138</u>	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation
<u>P2195</u>	Oxygen (A/F) Sensor Signal Stuck Lean (Bank 1 Sensor 1)
<u>P2196</u>	Oxygen (A/F) Sensor Signal Stuck Rich (Bank 1 Sensor 1)
<u>P2197</u>	Oxygen (A/F) Sensor Signal Stuck Lean (Bank 2 Sensor 1)
<u>P2198</u>	Oxygen (A/F) Sensor Signal Stuck Rich (Bank 2 Sensor 1)
<u>P2237</u>	Oxygen (A/F) Sensor Pumping Current Circuit/Open (Bank 1 Sensor 1)
<u>P2238</u>	Oxygen (A/F) Sensor Pumping Current Circuit Low (Bank 1 Sensor 1)
<u>P2239</u>	Oxygen (A/F) Sensor Pumping Current Circuit High (Bank 1 Sensor 1)
<u>P2240</u>	Oxygen (A/F) Sensor Pumping Current Circuit/Open (Bank 2 Sensor 1)
<u>P2241</u>	Oxygen (A/F) Sensor Pumping Current Circuit Low (Bank 2 Sensor 1)
<u>P2242</u>	Oxygen (A/F) Sensor Pumping Current Circuit High (Bank 2 Sensor 1)
<u>P2252</u>	Oxygen (A/F) Sensor Reference Ground Circuit Low (Bank 1 Sensor 1)
<u>P2253</u>	Oxygen (A/F) Sensor Reference Ground Circuit High (Bank 1 Sensor 1)
<u>P2255</u>	Oxygen (A/F) Sensor Reference Ground Circuit Low (Bank 2 Sensor 1)
<u>P2256</u>	Oxygen (A/F) Sensor Reference Ground Circuit High (Bank 2 Sensor 1)
<u>P2401</u>	Evaporative Emission System Leak Detection Pump Control Circuit Low
<u>P2402</u>	Evaporative Emission System Leak Detection Pump Control Circuit High
<u>P2419</u>	Evaporative Emission System Switching Valve Control Circuit Low
<u>P2420</u>	Evaporative Emission System Switching Valve Control Circuit High
<u>P2610</u>	ECM/PCM Internal Engine Off Timer Performance
<u>P2A00</u>	A/F Sensor Circuit Slow Response (Bank 1 Sensor 1)
<u>P2A03</u>	A/F Sensor Circuit Slow Response (Bank 2 Sensor 1)

HVAC DTCS (A00346252)

AUTOMATIC A/C SYSTEM DTCS

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AUTOMATIC A/C SYSTEM - DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION

DTC/Flash Codes	Description
<u>B1411/11</u>	Room Temperature Sensor Circuit
<u>B1412/12</u>	Ambient Temperature Sensor Circuit
<u>B1413/13</u>	Evaporator Temperature Sensor Circuit
<u>B1417/17</u>	Rear Evaporator Temperature Sensor Circuit
<u>B1419/19</u>	Rear Room Temperature Sensor Circuit
<u>B1421/21</u>	Solar Sensor Circuit (Passenger Side)
<u>B1422/22</u>	Compressor Lock Sensor Circuit
<u>B1423/23</u>	Pressure Sensor Circuit
<u>B1424/24</u>	Solar Sensor Circuit (Driver Side)
<u>B1441/41</u>	Air Mix Damper Control Servo Motor Circuit (Passenger Side)
<u>B1442/42</u>	Air Inlet Damper Control Servo Motor Circuit
<u>B1443/43</u>	Air Outlet Damper Control Servo Motor Circuit
<u>B1446/46</u>	Air Mix Damper Control Servo Motor Circuit (Driver Side)
<u>B1447/47</u>	Rear Air Mix Damper Control Servo Motor Circuit
<u>B1449/49</u>	Rear Air Outlet Damper Control Servo Motor Circuit
<u>B1451/51</u>	Compressor Solenoid Circuit
<u>B1497/97</u>	BUS IC Communication Malfunction
<u>B1499/99</u>	Multiplex Communication Circuit

MANUAL A/C SYSTEM DTCS**MANUAL A/C SYSTEM - DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION**

DTC Code	Description
<u>B1412/12</u>	Ambient Temperature Sensor Circuit
<u>B1413/13</u>	Evaporator Temperature Sensor Circuit
<u>B1422/22</u>	Compressor Lock Sensor Circuit
<u>B1423/23</u>	Pressure Sensor Circuit
<u>B1441/41</u>	Air Mix Damper Control Servo Motor Circuit (Passenger Side)
<u>B1442/42</u>	Air Inlet Damper Control Servo Motor Circuit
<u>B1443/43</u>	Air Outlet Damper Control Servo Motor Circuit
<u>B1451/51</u>	Compressor Solenoid Circuit
<u>B1497/97</u>	BUS IC Communication Malfunction
<u>B1499/99</u>	Multiplex Communication Circuit

LIGHTING DTCS (A00346255)**LIGHTING DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION**

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DTC Code	Description
<u>B1244</u>	Light Sensor Circuit Malfunction

METER DTCS (A00346254)**METER DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION**

DTC Code	Description
<u>U0129</u>	Lost Communication with Skid Control ECU
<u>U0100</u>	Lost Communication with ECM/PCM "A"
<u>B1500</u>	Fuel Sender Open Detected

MULTIPLEX COMMUNICATION DTCS (A00346228)**MULTIPLEX COMMUNICATION DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION**

DTC Code	Description
<u>B1273</u>	Sliding Roof ECU Communication Stop
<u>B2287</u>	LIN Communication Master Malfunction
<u>B2321</u>	Driver Side Door ECU Communication Stop
<u>B2325</u>	LIN Communication Bus Malfunction
<u>B2785</u>	Communication Malfunction between ECUs Connected by LIN
<u>B2786</u>	No Response from Steering Lock ECU
<u>B2789</u>	No Response from ID BOX

POWER STEERING DTCS (A00346269)**POWER STEERING DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION**

DTC Code	Description
<u>C1511</u>	Torque Sensor Circuit Malfunction
<u>C1512</u>	Torque Sensor Circuit Malfunction
<u>C1513</u>	Torque Sensor Circuit Malfunction
<u>C1514</u>	Torque Sensor Power Supply Abnormal
<u>C1521</u>	Motor Circuit Malfunction
<u>C1524</u>	Motor Circuit Malfunction
<u>C1528</u>	Motor Rotation Angle Sensor Malfunction
<u>C1531</u>	ECU Malfunction
<u>C1532</u>	ECU Malfunction
<u>C1533</u>	ECU Malfunction
<u>C1534</u>	ECU Malfunction
<u>C1551</u>	IG Power Supply Voltage Malfunction
<u>C1552</u>	PIG Power Supply Voltage Malfunction
<u>C1554</u>	Power Supply Relay Failure

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<u>C1555</u>	Motor Relay Welding Failure
<u>C1581</u>	Assist Map Number Un-Writing
<u>U0073</u>	Control Module Communication Bus OFF
<u>U0100</u>	Lost Communication with ECM/PCM "A"
<u>U0129</u>	Lost Communication with Brake System Control Module

SLIDING ROOF DTCS (A00346287)

SLIDING ROOF SYSTEM - DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION

DTC Code	Description
<u>B2341</u>	Sensor (Motor) Failure
<u>B2342</u>	Switch Failure
<u>B2343</u>	Position Initialization Incomplete
<u>B2344</u>	Position Failure

STEERING LOCK SYSTEM DTCS (A00346222)

STEERING LOCK SYSTEM - DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION

DTC Code	Description
<u>B2781</u>	Open/Short in Steering Lock ECU
<u>B2782</u>	Power Source Control ECU Malfunction
<u>B2788</u>	IG2 Signal Malfunction

WHEEL & TIRE DTCS (A00346227)

TIRE PRESSURE WARNING SYSTEM - DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION

DTC/Flash Codes	Description
<u>C2111/11</u>	Transmitter ID1 Operation Stop
<u>C2112/12</u>	Transmitter ID2 Operation Stop
<u>C2113/13</u>	Transmitter ID3 Operation Stop
<u>C2114/14</u>	Transmitter ID4 Operation Stop
<u>C2115/15</u>	Transmitter ID5 Operation Stop
<u>C2121/21</u>	No Signal from Transmitter ID1
<u>C2122/22</u>	No Signal from Transmitter ID2
<u>C2123/23</u>	No Signal from Transmitter ID3
<u>C2124/24</u>	No Signal from Transmitter ID4
<u>C2125/25</u>	No Signal from Transmitter ID5
<u>C2126/26</u>	Transmitter ID not Received in Main Mode
<u>C2141/41</u>	Transmitter ID1 Error
<u>C2142/42</u>	Transmitter ID2 Error
<u>C2143/43</u>	Transmitter ID3 Error

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<u>C2144/44</u>	Transmitter ID4 Error
<u>C2145/45</u>	Transmitter ID5 Error
<u>C2165/65</u>	Abnormal Temperature Inside ID1 Tire
<u>C2166/66</u>	Abnormal Temperature Inside ID2 Tire
<u>C2167/67</u>	Abnormal Temperature Inside ID3 Tire
<u>C2168/68</u>	Abnormal Temperature Inside ID4 Tire
<u>C2169/69</u>	Abnormal Temperature Inside ID5 Tire
<u>C2171/71</u>	Transmitter ID not Registered
<u>C2173/73</u>	Vehicle Speed or Engine Speed Signal Malfunction
<u>C2176/76</u>	Receiver Error
<u>C2177/77</u>	Initialization not Completed
<u>C2181/81</u>	Transmitter ID1 not Received (Test Mode DTC)
<u>C2182/82</u>	Transmitter ID2 not Received (Test Mode DTC)
<u>C2183/83</u>	Transmitter ID3 not Received (Test Mode DTC)
<u>C2184/84</u>	Transmitter ID4 not Received (Test Mode DTC)
<u>C2185/85</u>	Transmitter ID5 not Received (Test Mode DTC)
<u>C2191/91</u>	Vehicle Speed Signal Error (Test Mode DTC)
<u>C2194/94</u>	Engine Speed Signal Error (Test Mode DTC)

WINDSHIELD/WINDOW GLASS DTCS (A00346284)**POWER WINDOW CONTROL SYSTEM - DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION**

DTC Code	Description
<u>B2311</u>	Driver Door Motor Malfunction
<u>B2312</u>	Driver Side Door Master Switch Malfunction
<u>B2313</u>	Glass Position Initialization Incomplete
<u>B2321</u>	Driver Side Door ECU Communication Stop