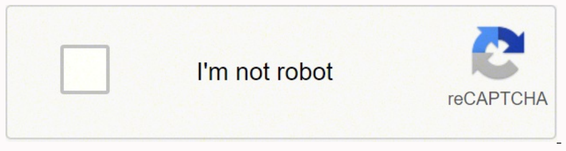


Continue

# Bmw fault code list pdf printable 2017 2018 printable

Be sure to double check the codes. Check specific manufacturer pages on the site, as some of them, we list the OBD2 codes on those pages for those specific vehicles. Anything P1000 to P1999 or P3000 to P3400 will be Manufacturer specific and may not match the ones listed here. sensor circuit malfunctionWiring, MAFNAF sensor, ECMP0101Mass air flow (MAF) sensor/volume air flow (VAF) sensor range/performance problemIntake leak/blockage, MAFNAF sensorP0102 Mass air flow (MAF) sensor/volume air flow (VAF) sensor low inputWiring short to earth, MAFNAF sensor, ECMP0103 Mass air flow (MAF) sensor/volume air flow (VAF) sensor high inputWiring short to positive, MAFNAF sensor, ECMP0104 Mass air flow (MAF) sensor/volume air flow (VAF) sensor circuit intermittentWiring, poor connection, MAFNAF sensor, ECMP0105 Manifold absolute pressure (MAP) sensor barometric pressure (BARO) sensor -circuit malfunctionWiring, MAP sensor, BARO sensor, ECMP0106 Manifold absolute pressure (MAF) sensor barometric pressure (BARO) sensor -range/performance problemIntake/exhaust leak, wiring, MAP sensor, BARO sensorP0107 Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor -low inputWiring short to earth, MAP sensor, BARO sensor, ECMP0108 Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor -high inputWiring short to positive, MAP sensor, BARO sensor, ECMP0109 Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor -circuit intermittentWiring, poor connection, MAP sensor, BARO sensor, ECMP010AMass or Volume Air Flow "B" CircuitWiring, MAF/VAF sensor, ECMP010BMass or Volume Air Flow "B" Circuit Range/PerformanceIntake leak/blockage, MAFNAF sensorP010CMass or Volume Air Flow "B" Circuit LowWiring short to earth, MAF/VAF sensor, ECMP010DMass or Volume Air Flow "B" Circuit HighWiring short to positive, MAF/VAF sensor, ECMP010EMass or Volume Air Flow "B" Circuit Intermittent/ErraticWiring, poor connection, MAF/VAF sensor, ECMP010FMass or Volume Air Flow Sensor A/B CorrelationBad MAF sensor, Wiring, CorrosionP0110 Intake air temperature (IAT) sensor -circuit malfunctionWiring, IAT sensor, ECMP0111 Intake air temperature (IAT) sensor""" range/performance problemIAT sensorP0112Intake air temperature (IAT) sensor -low inputWiring short to earth, IAT sensor, ECMP0113 Intake air temperature (IAT) sensor -high inputWiring open circuit/short to positive, earth wire defective, IAT sensor, ECMP0114 Intake air temperature (IAT) sensor -circuit intermittentWiring, poor connection, IAT sensor, ECMP0115 Engine coolant temperature -(ECT) sensor circuit malfunctionWiring, ECT sensor, ECMP0116 Engine coolant temperature (ECT) sensor range/performance problemCoolant thermostat, poor connection, wiring, ECT sensorP0117 Engine coolant temperature (ECT) sensor -low inputCoolant thermostat, wiring short to earth, ECT sensorP0118 Engine coolant temperature (ECT) sensor -high inputCoolant thermostat, wiring open circuit/short to positive, earth wire defective, ECT sensorP0119Engine coolant temperature·(ECT) sensor circuit intermittentWiring, poor connection, ECT sensor, ECMP011AEngine Coolant Temperature Sensor 1/2 Correlation -P011BEngine Coolant Temperature/Intake Air Temperature Correlation -P011CCharge Air Temperature/Intake Air Temperature Correlation -P011DCharge Air Temperature/Intake Air Temperature Correlation -P011EISO/SAE Reserved -P011FISO/SAE Reserved -P0120 Throttle position (TP) sensor A/accelerator pedal position (APP) sensor A -circuit malfunctionWiring, TP/APP sensor, ECMP0121 Throttle position (TP) sensor A/accelerator pedal position (APP) sensor A -range/performance problemAccelerator cable adjustment, TP/APP sensorP0122 Throttle position (TP) sensor A/accelerator pedal position (APP) sensor A -low inputWiring short to earth, TP/APP sensor, ECMP0123 Throttle position (TP) sensor A/accelerator pedal position (APP) sensor A -high inputWiring short to positive, TP/APP sensor, ECMP0124 Throttle position (TP) sensor A/accelerator pedal position (APP) sensor A -circuit intermittentWiring, poor connection, TP/APP sensor, ECMP0125 Insufficient coolant temperature for closed loop fuel controlWiring, cooling system, coolant thermostat, ECT sensorP0126 Insufficient coolant temperature for stable operationWiring, cooling system, coolant thermostat, ECT sensorP0127 Intake air temperature too highWiring short to earth, IAT sensor 2, mechanical fault, ECMP0128Coolant thermostat -coolant temperature below thermostat regulating temperatureMechanical faultP0129 Barometric pressure too lowWiring, BARO sensor, mechanical faultP012ATurbocharger/Supercharger Inlet Pressure Sensor Circuit -P012BTurbocharger/Supercharger Inlet Pressure Sensor Circuit Range/Performance -P012CTurbocharger/Supercharger Inlet Pressure Sensor Circuit Low -P012DTurbocharger/Supercharger Inlet Pressure Sensor Circuit High -P012ETurbocharger/Supercharger Inlet Pressure Sensor Circuit Intermittent/Erratic -P012FISO/SAE Reserved -P0130 Heated oxygen sensor (HO2S) 1, bank 1 -circuit malfunctionHeating inoperative, poor connection, wiring, H025P0131 Heated oxygen sensor (HO2S) 1, bank 1 -low voltageExhaust leak, wiring short to earth, H025, ECMP0132 Heated oxygen sensor (HO2S) 1, bank 1 -high voltageWiring short to positive, H025, ECMP0133 Heated oxygen sensor (HO2S) 1, bank 1 -slow responseHeating inoperative, wiring, H025P0134 Heated oxygen sensor (HO2S) 1, bank 1 -no activity detectedWiring open circuit, heating inoperative, H025P0135 Heated oxygen sensor (HO2S) 1, bank 1, heater control circuit malfunctionFuse, wiring, H025, ECMP0136 Heated oxygen sensor (HO2S) 2, bank 1 circuit malfunctionHeating inoperative, wiring, H025, ECMP0137 Heated oxygen sensor (HO2S) 2, bank 1 -low voltageExhaust leak, wiring short to earth, H025, ECMP0138 Heated oxygen sensor (HO2S) 2, bank 1 -high voltageWiring short to positive, H025, ECMP0139 Heated oxygen sensor (HO2S) 2, bank 1 -slow responseHeating inoperative, wiring, H028P013AO2 Sensor Slow Response - Rich to Lean -P013BO2 Sensor Slow Response - Lean to Rich -P013CO2 Sensor Slow Response - Rich to Lean -P013DO2 Sensor Slow Response - Lean to Rich -P013EO2 Sensor Delayed Response - Rich to Lean -P013FO2 Sensor Delayed Response - Lean to Rich -P0140 Heated oxygen sensor (HO2S) 2, bank 1 no activity detectedWiring, heating inoperative, H028, ECMP0141 Heated oxygen sensor (HO2S) 2, bank 1 heater control circuit malfunctionWiring, H025, ECMP0142 Heated oxygen sensor (HO2S) 3, bank. timing over -retardedValve timing, engine mechanical fault, CMP actuatorP0023 Camshaft position (CMP) actuator, exhaust/right/rear, bank 2 -circuit malfunctionWiring, CMP actuator, ECMP0024 Camshaft position (CMP), exhaust/right/rear, bank 2 -timing over -advanced/system performanceValve timing, engine mechanical fault, CMP actuatorP0025 Camshaft position (CMP), exhaust/right/rear, bank 2 -timing over -retardedValve timing, engine mechanical fault, CMP actuatorP0026 Intake valve control solenoid circuit, bank 1 range/performanceWiring, intake valve control solenoidP0027 Exhaust valve control solenoid circuit, bank 1 range/performanceWiring, exhaust valve control solenoidP0028 Intake valve control solenoid circuit, bank 2 range/performanceWiring, intake valve control solenoidP0029 Exhaust valve control solenoid circuit, bank 2 range/performanceWiring, exhaust valve control solenoidP002AB Camshaft Profile Control Circuit/Open -P002BB Camshaft Profile Control Circuit Low -P002CB Camshaft Profile Control Circuit High -P002DB Camshaft Profile Control Circuit/Open -P002EB Camshaft Profile Control Circuit Low -P002FB Camshaft Profile Control Circuit High -P0030 Heated oxygen sensor (HO2S) 1, bank 1, heater control -circuit malfunctionWiring, HO2S, ECMP0031 Heated oxygen sensor (HO2S) 1, bank 1, heater control -circuit lowWiring short to earth, HO2S, ECMP0032 Heated oxygen sensor (HO2S) 1, bank 1, heater control -circuit highWiring short to positive, HO2S, ECMP0033 Turbocharger (TC) wastegate regulating valve -circuit malfunctionWiring, TC wastegate regulating valve, ECMP0034 Turbocharger (TC) wastegate regulating valve -circuit lowWiring short to earth, TC wastegate regulating valve, ECMP0035 Turbocharger (TC) wastegate regulating valve -circuit highWiring short to positive, TC wastegate regulating valve, ECMP0036 Heated oxygen sensor (HO2S) 2, bank 1, heater control -circuit malfunctionWiring, HO2S, ECMP0037 Heated oxygen sensor (HO2S) 2, bank 1, heater control -circuit lowWiring short to earth, HO2S, ECMP0038 Heated oxygen sensor (HO2S) 2, bank 1, heater control -circuit highWiring short to positive, HO2S, ECMP0039 Turbo/super charger bypass valve, control circuit range/performanceWiring, bypass valveP003ATurbocharger/Supercharger Boost Control "A" Position Exceeded Learning Limit -P003BTurbocharger/Supercharger Boost Control "B" Position Exceeded Learning Limit -P003CA Camshaft Profile Control Performance/Stuck Off -P003DA Camshaft Profile Control Stuck On -P003EA Camshaft Profile Control Performance/Stuck Off -P003FA Camshaft Profile Control Stuck On -P0040 Oxygen sensor signals swapped, bank 1 sensor 1 /bank 2 sensor 1WiringP0041 Oxygen sensor signals swapped, bank 1 sensor 2/bank 2 sensor 2WiringP0042 Heated oxygen sensor (HO2S) 3, bank 1, heater control -circuit malfunctionWiring, HO2S, ECMP0043 Heated oxygen sensor (HO2S) 3, bank 1, heater control circuit lowWiring short to earth, 1"1025, ECMP0044 Heated oxygen sensor (HO2S) 3, bank 1, heater control -circuit highWiring short to positive, HO2S, ECMP0045 Turbo/super charger boost control solenoid -circuit openWiring, boost control solenoidP0046 Turbo/super charger boost control solenoid circuit range/performanceWiring, boost control solenoid, mechanical faultP0047 Turbo/super charger boost control solenoid -circuit lowWiring short to earth, boost control solenoidP0048 Turbo/super charger boost control solenoid -circuit highWiring short to positive, boost control solenoidP0049 Turbo/super charger turbine -over -speedMechanical faultP004ATurbocharger/Supercharger Boost Control "B" Circuit/Open -P004BTurbocharger/Supercharger Boost Control "B" Circuit Range/Performance -P004CTurbocharger/Supercharger Boost Control "B" Circuit Low -P004DTurbocharger/Supercharger Boost Control "B" Circuit High -P004ETurbocharger/Supercharger Boost Control "A" Circuit Intermittent/Erratic -P004FTurbocharger/Supercharger Boost Control "B" Circuit Intermittent/Erratic -P0050Heated oxygen sensor (HO2S) 1, bank 2, heater control circuit malfunctionWiring, HO2S, ECMP0051 Heated oxygen sensor (HO2S) 1, bank 2, heater control -circuit lowWiring short to earth, HO2S, ECMP0052 Heated oxygen sensor (HO2S) 1, bank 2, heater control -circuit highWiring short to positive, HO2S, ECMP0053 Heated oxygen sensor (HO2S), bank 1, sensor 1 -heater resistanceWiring, HO2SP0054 Heated oxygen sensor (HO2S), bank 1, sensor 2 -heater resistanceWiring, HO2SP0055Heated oxygen sensor (HO2S), bank 1, sensor 3 -heater resistanceWiring, HO2SP0056 Heated oxygen sensor (HO2S) 2, bank 2, heater control -circuit malfunctionWiring, HO2S, ECMP0057 Heated oxygen sensor (HO2S) 2, bank 2, heater control heater circuit lowWiring short to earth, HO2S, ECMP0058 Heated oxygen sensor (HO2S) 2, bank 2, heater control circuit highWiring short to positive, HO2S, ECMP0059 Heated oxygen sensor (HO2S), bank 2, sensor 1 -heater resistanceWiring, HO2SP005AB Camshaft Profile Control Performance/Stuck Off -P005BB Camshaft Profile Control Stuck On -P005CB Camshaft Profile Control Performance/Stuck Off -P005DB Camshaft Profile Control Stuck On -P005ETurbocharger/Supercharger Boost Control "B" Supply Voltage Circuit Low -P005FTurbocharger/Supercharger Boost Control "B" Supply Voltage Circuit High -P0060 Heated oxygen sensor (HO2S), bank 2, sensor 2 -heater resistanceWiring, HO2SP0061 Heated oxygen sensor (HO2S), bank 2, sensor 3 -heater resistanceWiring, HO2SP0062 Heated oxygen sensor (HO2S) 3, bank 2, heater control circuit malfunctionWiring, HO2S, ECMP0063 Heated oxygen sensor (HO2S) 3, bank 2, heater control circuit lowWiring short to earth, HO2S, ECMP0064 Heated oxygen sensor (HO2S) 3, bank 2, heater control circuit highWiring short to positive, HO2S, ECMP0065 Air assisted injector -range/performance problemAir assisted injectorP0066 Air assisted injector -circuit malfunction/circuit lowWiring short to earth, air assisted injector, ECMP0067 Air assisted injector -circuit highWiring short to positive, air assisted injector, ECMP0068 Manifold absolute pressure (MAP) sensor/mass air flow (MAF) sensor/throttle position correlationWiring, MAP sensor, MAF sensor, mechanical faultP0069 Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor correlationMAP sensor, mechanical faultP006AMAP - Mass or Volume Air Flow Correlation -P006BMAP - Exhaust Pressure Correlation -P006CMAP - Turbocharger/Supercharger Inlet Pressure Correlation -P006DBarometric Pressure - Turbocharger/Supercharger Inlet Pressure Correlation -P006ETurbocharger/Supercharger Boost Control "A" Supply Voltage Circuit Low -P006FTurbocharger/Supercharger Boost Control "A" Supply Voltage Circuit High -P0070 Outside air temperature sensor -circuit malfunctionWiring, outside air temperature sensor, ECMP0071 Outside air temperature sensor -range/performance problemOutside air temperature sensorP0072 Outside air temperature sensor -low inputWiring short to earth, outside air temperature sensor, ECMP0073 Outside air temperature sensor -high inputWiring short to positive, outside air temperature sensor, ECMP0074 Outside air temperature sensor -circuit intermittentWiring, poor connection, outside air temperature sensor, ECMP0075 Intake valve control solenoid, bank 1 -circuit malfunctionWiring, intake valve control solenoid, ECMP0076 Intake valve control solenoid, bank 1 -circuit lowWiring short to earth, intake valve control solenoid, ECMP0077 Intake valve control solenoid, bank 1 -circuit highWiring short to positive, intake valve control solenoid, ECMP0078 Exhaust valve control solenoid, bank 1 -circuit malfunctionWiring, exhaust valve control solenoid, ECMP0079 Exhaust valve control solenoid, bank 1 -circuit lowWiring short to earth, exhaust valve control solenoid, ECMP007ACharge Air Cooler Temperature Sensor Circuit -P007BCharge Air Cooler Temperature Sensor Circuit Range/Performance -P007CCharge Air Cooler Temperature Sensor Circuit Low -P007DCharge Air Cooler Temperature Sensor Circuit High -P007ECharge Air Cooler Temperature Sensor Circuit Intermittent/Erratic -P007FCharge Air Cooler Temperature Sensor Bank1/Bank2 Correlation -P0080 Exhaust valve control solenoid, bank 1 -circuit highWiring short to positive, exhaust valve control solenoid, ECMP0081 Intake valve control solenoid, bank 2 -circuit malfunctionWiring, intake valve control solenoid, ECMP0082 Intake valve control solenoid, bank 2 -circuit lowWiring short to earth, intake valve control solenoid, ECMP0083 Intake valve control solenoid, bank 2 -circuit highWiring short to positive, intake valve control solenoid, ECMP0084 Exhaust valve control solenoid, bank 2 -circuit malfunctionWiring, exhaust valve control solenoid, ECMP0085 Exhaust valve control solenoid, bank 2 -circuit lowWiring short to earth, exhaust valve control solenoid, ECMP0086 Exhaust valve control solenoid, bank 2 -circuit highWiring short to positive, exhaust valve control solenoid, ECMP0087 Fuel rail/system pressure too lowFuel pump, fuel pressure regulator, fuel supply pipe blockage, mechanical faultP0088Fuel rail/system pressure too highFuel pump, fuel pressure regulator, fuel supply pipe blockage, mechanical faultP0089 Fuel pressure regulator -performance problemFuel pressure regulator, mechanical faultP008ALow Pressure Fuel System Pressure - Too Low -P008BLow Pressure Fuel System Pressure - Too High -P008CFuel Cooler Pump Control Circuit/Open -P008DFuel Cooler Pump Control Circuit Low -P008EFuel Cooler Pump Control Circuit High -P008FEngine Coolant Temperature/Fuel Temperature Correlation -P0090 Fuel metering solenoid -open circuitWiring open circuit, fuel metering solenoid, ECMP0091 Fuel metering solenoid - -short to earthWiring short to earth, fuel metering solenoid, ECMP0092 Fuel metering solenoid -short to positiveWiring short to positive, fuel metering solenoid, ECMP0093 Fuel system leak -large leak detectedWiring, fuel pressure sensor, mechanical faultP0094 Fuel system leak -small leak detectedWiring, fuel pressure sensor, mechanical faultP0095 Intake air temperature (IAT) sensor 2 -circuit malfunctionWiring, poor connection, IAT sensor, ECMP0096 Intake air temperature (IAT) sensor 2 -circuit range/performanceWiring, poor connection, IAT sensor, ECMP0097 Intake air temperature (IAT) sensor 2 -circuit low inputWiring short to earth, IAT sensor, ECMP0098 Intake air temperature (IAT) sensor 2 -circuit high inputWiring short to positive, IAT sensor, ECMP0099 Intake air temperature (IAT) sensor 2 -circuit intermittent/erraticWiring, poor connection, IAT sensor, ECMP009AIntake Air Temperature/Ambient Air Temperature Correlation -P009BFuel Pressure Relief Control Circuit/Open -P009CFuel Pressure Relief Control Circuit Low -P009DFuel Pressure Relief Control Circuit High -P009EFuel Pressure Relief Control Performance/Stuck Off -P009FFuel Pressure Relief Control Stuck On -P00A0Charge Air Cooler Temperature Sensor Circuit -P00A1Charge Air Cooler Temperature Sensor Circuit Range/Performance -P00A2Charge Air Cooler Temperature Sensor Circuit Low -P00A3Charge Air Cooler Temperature Sensor Circuit High -P00A4Charge Air Cooler Temperature Sensor Circuit Intermittent/Erratic -P00A5Intake Air Temperature Sensor 2 Circuit -P00A6Intake Air Temperature Sensor 2 Circuit Range/Performance -P00A7Intake Air Temperature Sensor 2 Circuit Low -P00A8Intake Air Temperature Sensor 2 Circuit High -P00A9Intake Air Temperature Sensor 2 Circuit Intermittent/Erratic -P00AAIntake Air Temperature Sensor 1 Circuit -P00ABIntake Air Temperature Sensor 1 Circuit Range/Performance -P00ACIntake Air Temperature Sensor 1 Circuit Low -P00ADIntake Air Temperature Sensor 1 Circuit High -P00AEIntake Air Temperature Sensor 1 Circuit Intermittent -P00AFTurbocharger/Supercharger Boost Control "A" Module Performance -P00B0Turbocharger/Supercharger Boost Control "B" Module Performance -P00B1Radiator Coolant Temperature Sensor Circuit -P00B2Radiator Coolant Temperature Sensor Circuit Range/Performance -P00B3Radiator Coolant Temperature Sensor Circuit Low -P00B4Radiator Coolant Temperature Sensor Circuit High -P00B5Radiator Coolant Temperature Sensor Circuit Intermittent/Erratic -P00B6Radiator Coolant Temperature/Engine Coolant Temperature Correlation -P00B7Engine Coolant Flow Low/Performance -P00B8MAP - Mass or Volume Air Flow Correlation -P00B9Low Pressure Fuel System Pressure - Too Low -P00BALow Fuel Pressure - Forced Limited Power -P00BBFuel Injector Insufficient Flow - Forced Limited Power -P00BCMass or Volume Air Flow "A" Circuit Range/Performance - Air Flow Too LowWiring, bad MAF sensor, air blockageP00BDMass or Volume Air Flow "A" Circuit Range/Performance - Air Flow Too High -P00BEMass or Volume Air Flow "B" Circuit Range/Performance - Air Flow Too Low -P00BFMass or Volume Air Flow "B" Circuit Range/Performance - Air Flow Too High -P00C0 – P00FFISO/SAE Reserved -P00C6Fuel Rail Pressure Low During CrankingP00FFFuel / Air auxillary systemWiring, ECM/PCM/TCMP0100 – P0199 (Fuel and air metering)P0100Mass air flow (MAF) sensor/volume air flow (VAF) . [ P0000-0100 ] [ P0100-0200 ] [ P0200-0300 ] [ P0300-0400 ] [ P0400-0500 ] [ P0500-0600 ] [ P0600-0700 ] [ P0700-0800 ] [ P0800- ] [ P1000-1100 ] [ P1100-1200 ] [ P1200-1300 ] [ P1300-1400 ] [ P1400-1500 ] [ P1500-1600 ] [ P1600-1700 ] [ P1700-1800 ] [ P1800- ] [ P2000-2100 ] [ P2100-2200 ] [ P2200-2300 ] [ P2300-2400 ] [ P2400-2500 ] [ P2500-2600 ] [ P2600-2700 ] [ P2700-2800 ] [ P2800- ] [ P3000-3100 ] [ P3100-3200 ] [ P3200-3300 ] [ P3300-3400 ] [ P3400-3500 ] [ P3500- ] [ Acura ] [ Alfa Romeo ] [ Audi ] [ BMW ] [ Buick ] [ Cadillac ] [ Chevrolet ] [ Chrysler ] [ Citroen ] [ Daewoo ] [ Daihatsu ] [ Dodge ] [ Eagle ] [ Ford ] [ Freightliner ] [ GEO ] [ Genesis ] [ GM ] [ GMC ] [ Honda ] [ Hummer ] [ Hyundai ] [ Infiniti ] [ Isuzu ] [ Jaguar ] [ Jeep ] [ Kenworth ] [ Kia ] [ Lamborghini ] [ Land Rover ] [ Lexus ] [ Lincoln ] [ Mack ] [ Mahindra ] [ Mazda ] [ Mercedes-Benz ] [ Mercury ] [ Mini ] [ Mitsubishi ] [ Nissan ] [ Oldsmobile ] [ Opel ] [ Peterbilt ] [ Peugeot ] [ Plymouth ] [ Pontiac ] [ Porsche ] [ Ram ] [ Renault ] [ Saab ] [ Saturn ] [ Scion ] [ Subaru ] [ Suzuki ] [ Toyota ] [ Volvo ] [ VW ]P0XXX CodesTrouble CodeFault LocationProbable CauseP0000 – P0099 (Fuel and air metering and auxiliary emission control)P0000No fault-P0001 Fuel volume regulator control -circuit openWiring, regulator control solenoidP0002Fuel volume regulator control -circuit range/performanceWiring, regulator control solenoidP0003 Fuel volume regulator control -circuit lowWiring short to earth, regulator control solenoidP0004 Fuel volume regulator control -circuit highWiring open circuit/short to positive, regulator control solenoidP0005 Fuel shut -off valve -circuit openWiring open circuit, fuel shut -off valveP0006 Fuel shut -off valve -circuit lowWiring short to earth, fuel shut -off valveP0007 Fuel shut -off valve -circuit highWiring short to positive, fuel shut -off valveP0008 Engine position system, bank 1 -engine performanceMechanical faultP0009 Engine position system, bank 2 -engine performanceMechanical faultP000AA Camshaft Position Slow Response -P000BB Camshaft Position Slow Response -P000CA Camshaft Position Slow Response -P000DB Camshaft Position Slow Response -P000EFuel Volume Regulator Control Exceeded Learning Limit -P000FFuel System Over Pressure Relief Valve Activated -P0010 Camshaft position (CMP) actuator, intake/left/front, bank 1 circuit malfunctionWiring, CMP actuator, ECMP0011 Camshaft position (CMP), intake/left/front, bank 1 timing over advanced/system performanceValve timing, engine mechanical fault, CMP actuatorP0012 Camshaft position (CMP), intake/left/front, bank 1 timing over -retardedValve timing, engine mechanical fault, CMP actuatorP0013 Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 -circuit malfunctionWiring, CMP actuator, ECMP0014 Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 -timing over -advanced/system performanceValve timing, engine mechanical fault, CMP actuatorP0015 Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 -timing over -retardedValve timing, engine mechanical fault, CMP actuatorP0016 Crankshaft position/camshaft position, bank 1 sensor A -correlationWiring, CKP sensor, CMP sensor, mechanical faultP0017 Crankshaft position/camshaft position, bank 1 sensor B -correlationWiring, CKP sensor, CMP sensor, mechanical faultP0018 Crankshaft position/camshaft position, bank 2 sensor A -correlationWiring, CKP sensor, CMP sensor, mechanical faultP0019 Crankshaft position/camshaft position, bank 2 sensor B -correlationWiring, CKP sensor, CMP sensor, mechanical faultP001AA Camshaft Profile Control Circuit/Open -P001BA Camshaft Profile Control Circuit Low -P001CA Camshaft Profile Control Circuit High -P001DA Camshaft Profile Control Circuit/Open -P001EA Camshaft Profile Control Circuit Low -P001FA Camshaft Profile Control Circuit High -P0020 Camshaft position (CMP) ·actuator, intake/left/front, bank 2 -circuit malfunctionWiring, CMP actuator, ECMP0021 Camshaft position (CMP); intake/left/front, bank 2 timing over -advanced/system performanceValve timing, engine mechanical fault, CMP actuatorP0022 Camshaft position (CMP), intake/left/front, bank 2. high resolution signal B -too many pulsesWiring, CKP/RPM/CMP sensor, ECMP0377 Timing reference, high resolution signal B -too few pulsesWiring, CKP/RPM/CMP sensor, ECMP0378 Timing reference, high resolution signal B -intermittent erratic pulsesWiring, poor connection, CKP/RPM/CMP sensor, ECMP0379 Timing reference, high resolution signal B -no pulsesWiring, CKP/RPM/CMP sensor, ECMP037AISO/SAE Reserved -P037BISO/SAE Reserved -P037CISO/SAE Reserved -P037DGlow Plug Sense Circuit -P037EGlow Plug Sense Circuit Low -P037FGlow Plug Sense Circuit High -P0380 Glow plugs, circuit A -malfunctionWiring, glow plug relay, fuse, glow plugs, ECMP0381 Glow plug warning lamp -circuit malfunctionWiring, glow plug warning lamp, ECMP0382 Glow plugs, circuit B -malfunctionWiring, glow plug relay, glow plugs, ECMP0383 Glow plug control module -circuit lowWiring short to earth, glow plug control moduleP0384 Glow plug control module -circuit highWiring short to positive, glow plug control moduleP0385 Crankshaft position (CKP) sensor B -circuit malfunctionWiring, CKP sensor, ECMP0386 Crankshaft position (CKP) sensor B -range/performance problemInsecure sensor/rotor, air gap, wiring, CKP sensorP0387 Crankshaft position (CKP) sensor B -low inputWiring short to earth, CKP sensor, ECMP0388 Crankshaft position (CKP) sensor B -high inputWiring short to positive, CKP sensor, ECMP0389 Crankshaft position (CKP) sensor B -circuit intermittentWiring, poor connection, CKP sensor, ECMP038AISO/SAE Reserved -P038BISO/SAE Reserved -P038CISO/SAE Reserved -P038DISO/SAE Reserved -P038EISO/SAE Reserved -P038FISO/SAE Reserved -P0390 Camshaft position (CMP) sensor B, bank 2 circuit malfunctionWiring, poor connection, CMP sensor, ECMP0391 Camshaft position (CMP) sensor B, bank 2 circuit range/performanceWiring, poor connection, CMP sensorP0392 Camshaft position (CMP) sensor B, bank 2 circuit low inputWiring short to earth, CMP sensor, ECM -P0393 Camshaft position (CMP) sensor B, bank 2 circuit high inputWiring short to positive, CMP sensor, ECM - - - -·P0394Camshaft position (CMP) sensor B, bank 2circuit intermittentWiring, poor connection, ECMP0395 – P03FFISO/SAE Reserved -P0400 – P0499 (Emission control)P0400Exhaust gas recirculation (EGR) system -flow malfunctionHose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECMP0401 Exhaust gas recirculation (EGR) system -insufficient flow detectedHose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECMP0402 Exhaust gas recirculation (EGR) system -excessive flow detectedHose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECMP0403 Exhaust gas recirculation (EGR) -circuit malfunctionWiring, EGR solenoid, ECMP0404 Exhaust gas recirculation (EGR) system range/performance problemHose leak/blockage, wiring, EGR valve/solenoidP0405 Exhaust gas recirculation (EGR) valve position sensor A low inputWiring short to earth, EGR valve position sensor, ECMP0406 Exhaust gas recirculation (EGR) valve position sensor A high inputWiring short to positive, EGR valve position sensor, ECMP0407 Exhaust gas recirculation (EGR) valve position sensor B low inputWiring short to earth, EGR valve position sensor, ECMP0408 Exhaust gas recirculation (EGR) valve position sensor B high inputWiring short to positive, EGR valve position sensor, ECMP0409 Exhaust gas recirculation (EGR) sensor A circuit malfunctionWiring, poor connection, EGR sensor, ECMP040AExhaust Gas Recirculation Temperature Sensor "A" Circuit -P040BExhaust Gas Recirculation Temperature Sensor "A" CircuitRange/Performance -P040CExhaust Gas Recirculation Temperature Sensor "A" Circuit Low -P040DExhaust Gas Recirculation Temperature Sensor "A" Circuit High -P040EExhaust Gas Recirculation Temperature Sensor "A" Circuit Intermittent/Erratic -P040FExhaust Gas Recirculation Temperature Sensor "A"/"B" Correlation -P0410 Secondary air injection (AIR) system -malfunctionWiring, AIR valve, AIR solenoid, ECMP0411 Secondary air injection (AIR) system -incorrect flow detectedAIR pump, AIR valve, AIR hose(s)P0412 Secondary air injection (AIR) solenoid A -circuit malfunctionWiring, AIR solenoid, ECMP0413 Secondary air injection (AIR) solenoid A -open circuitWiring open circuit, AIR solenoid, ECMP0414 Secondary air injection (AIR) solenoid A -short circuitWiring short circuit, AIR solenoid, ECMP0415 Secondary air injection (AIR) solenoid B -circuit malfunctionWiring, AIR solenoid, ECMP0416 Secondary air injection (AIR) solenoid B -open circuitWiring open circuit, AIR solenoid, ECMP0417 Secondary air injection (AIR) solenoid B -short circuitWiring short circuit, AIR solenoid, ECMP0418 Secondary air injection (AIR) pump relay A -circuit malfunctionWiring, AIR pump relay, ECMP0419 Secondary air injection (AIR) pump relay B -circuit malfunctionWiring, AIR pump relay, ECMP041AExhaust Gas Recirculation Temperature Sensor "B" Circuit -P041BExhaust Gas Recirculation Temperature Sensor "B" Circuit Range/Performance -P041CExhaust Gas Recirculation Temperature Sensor "B" Circuit Low -P041DExhaust Gas Recirculation Temperature Sensor "B" Circuit High -P041EExhaust Gas Recirculation Temperature Sensor "B" Circuit Intermittent/Erratic -P041FSecondary Air Injection System Switching Valve "A" Circuit Low -P0420Catalytic converter system, bank 1 -efficiency below thresholdCatalytic converter, wiring, HO2S 2P0421 Warm up catalytic converter, bank 1 -efficiency below thresholdCatalytic converter, wiring, HO2S 2P0422 Main catalytic converter, bank 1 -efficiency below thresholdCatalytic converter, wiring, HO2S 2P0423 Heated catalytic converter, bank 1 -efficiency below thresholdCatalytic converter, wiring, HO2S 2P0424 Heated catalytic converter, bank 1 -temperature below thresholdCatalytic converter, wiring, HO2S 2P0425 Catalytic converter temperature sensor, bank 1Wiring, poor connection, catalytic converter temperature sensor, ECMP0426 Catalytic converter temperature sensor, bank 1 range/performanceWiring, poor connection, catalytic converter temperature sensorP0427 Catalytic converter temperature sensor, bank 1 -low inputWiring short to earth, catalytic converter temperature sensor, ECMP0428 Catalytic converter temperature sensor, bank 1 high inputWiring short to positive, catalytic converter temperature sensor, ECMP0429 Catalytic converter heater, bank 1 -control circuit malfunctionWiring, relay, ECMP042ACatalyst Temperature Sensor Circuit -P042BCatalyst Temperature Sensor Circuit Range/Performance -P042CCatalyst Temperature Sensor Circuit Low -P042DCatalyst Temperature Sensor Circuit High -P042EExhaust Gas Recirculation "A" Control Stuck Open -P042FExhaust Gas Recirculation "A" Control Stuck Closed -P0430 Catalytic converter system, bank 2 -efficiency below thresholdCatalytic converter, wiring, HO2S 2P0431 Warm up catalytic converter, bank 2 -efficiency below thresholdCatalytic converter, wiring, HO2S 2P0432 Main catalytic converter, bank 2 -efficiency below thresholdCatalytic converter, wiring, HO2S 2P0433 Heated catalytic converter, bank 2 -efficiency below thresholdCatalytic converter, wiring, HO2S 2P0434 Heated catalytic converter, bank 2 -temperature below thresholdCatalytic converter, wiring, HO2S 2P0435 Catalytic converter temperature sensor, bank 2Wiring, poor connection, catalytic converter temperature sensor, ECMP0436 Catalytic converter temperature sensor, bank 2 range/performanceWiring, poor connection, catalytic converter temperature sensorP0437 Catalytic converter temperature sensor, bank 2 -low inputWiring short to earth, catalytic converter temperature sensor, ECMP0438 Catalytic converter temperature sensor, bank 2 high inputWiring short to positive, catalytic converter temperature sensor, ECMP0439 Catalytic converter heater, bank 2 -control circuit malfunctionWiring, relay, ECMP043ACatalyst Temperature Sensor Circuit -P043BCatalyst Temperature Sensor Circuit Range/Performance -P043CCatalyst Temperature Sensor Circuit Low -P043DCatalyst Temperature Sensor Circuit High -P043EEvaporative Emission System Leak Detection Reference Orifice Low Flow -P043FEvaporative Emission System Leak Detection Reference Orifice High Flow -P0440 Evaporative emission (EVAP) system -malfunctionHose connection(s), intake leak, EVAP canister purge valveP0441 Evaporative emission (EVAP) system -incorrect flow detectedHose connection(s), intake leak, EVAP canister purge valveP0442Evaporative emission (EV AP) system -small leak detectedHose connection(s), intake leak, EVAP canister, EVAP canister purge valveP0443 Evaporative emission (EVAP) canister purge valve circuit malfunctionWiring, EVAP canister purge valve, ECMP0444 Evaporative emission (EVAP) canister purge valve open circuitWiring open circuit, EVAP canister purge valve, ECMP0445 Evaporative emission (EVAP) canister purge valve -short circuitWiring short circuit, EVAP canister purge valve, ECMP0446 Evaporative emission (EVAP) system, vent control -circuit malfunctionWiring, EVAP canister purge valve, ECMP0447 Evaporative emission (EVAP) system, vent control -open circuitWiring open circuit, EVAP canister purge valve, ECMP0448 Evaporative emission (EVAP) system, vent control short circuitWiring short circuit, EVAP canister purge valve, ECMP0449 Evaporative emission (EVAP) system, vent valve circuit malfunctionWiring, EVAP canister purge valve, ECMP044AExhaust Gas Recirculation Sensor "C" Circuit -P044BExhaust Gas Recirculation Sensor "C" Circuit Range/Performance -P044CExhaust Gas Recirculation Sensor "C" Circuit Low -P044DExhaust Gas Recirculation Sensor "C" Circuit High -P044EExhaust Gas Recirculation Sensor "C" Circuit Intermittent/Erratic -P044FSecondary Air Injection System Switching Valve "A" Circuit High -P0450 Evaporative emission (EVAP) pressure sensor -circuit malfunctionWiring, EVAP pressure sensor, ECMP0451 Evaporative emission (EVAP) pressure sensor range/performance problemEVAP pressure sensorP0452 Evaporative emission (EVAP) pressure sensor -low inputWiring short to earth, EVAP pressure sensor, ECMP0453 Evaporative emission (EVAP) pressure sensor high inputWiring short to positive, EVAP pressure sensor, ECMP0454 Evaporative emission (EVAP) pressure sensor circuit intermittentWiring, poor connection, EVAP pressure sensor, ECMP0455Evaporative emission (EVAP) system -large leak detectedHose connection(s), intake leak, EVAP canister, EVAP canister purge valveP0456 Evaporative emission (EVAP) system -very small leak detectedMechanical fault, hose connection(s), EVAP pressure sensorP0457 Evaporative emission (EVAP) system -leak detected (filler cap loose/off)Mechanical fault, hose connection(s), EVAP pressure sensorP0458 Evaporative emission (EVAP) system, EVAP valve -circuit lowWiring short to earth, EVAP valveP0459 Evaporative emission (EVAP) system, EVAP valve -circuit highWiring short to positive, EVAP valveP045AExhaust Gas Recirculation "B" Control Circuit -P045BExhaust Gas Recirculation "B" Control Circuit Range/Performance -P045CExhaust Gas Recirculation "B" Control Circuit Low -P045DExhaust Gas Recirculation "B" Control Circuit High -P045EExhaust Gas Recirculation "B" Control Stuck Open -P045FExhaust Gas Recirculation "B" Control Stuck Closed -P0460 Fuel tank level sensor -circuit malfunctionWiring, fuel tank level sensor, ECMP0461 Fuel tank level sensor range/performance problemWiring, fuel tank level sensorP0462 Fuel tank level sensor -low inputWiring short to earth, fuel tank level sensor, ECMP0463 Fuel tank level sensor -high inputWiring short to positive, fuel tank level sensor, ECMP0464 Fuel tank level sensor -circuit intermittentWiring, poor connection, fuel tank level sensor, ECMP0465 Evaporative emission (EVAP) canister purge flow sensor circuit malfunctionWiring, EVAP canister purge flow sensor, ECMP0466 Evaporative emission (EVAP) canister purge flow sensor range/performance problemEVAP canister purge flow sensorP0467 Evaporative emission (EVAP) canister purge flow sensor -low inputWiring short to earth, EVAP canister purge flow sensor, ECMP0468 Evaporative emission (EVAP) canister purge flow sensor -high inputWiring short to positive, EVAP canister purge flow sensor, ECMP0469 Evaporative emission (EVAP) canister purge flow sensor circuit intermittentWiring, poor connection, EVAP canister purge flow sensor, ECMP046ACatalyst Temperature Sensor 1/2 Correlation -P046BCatalyst Temperature Sensor 1/2 Correlation -P046CExhaust Gas Recirculation Sensor "A" Circuit Range/Performance -P046DExhaust Gas Recirculation Sensor "A" Circuit Intermittent/Erratic -P046EExhaust Gas Recirculation Sensor "B" Circuit Range/Performance -P046FExhaust Gas Recirculation Sensor "B" Circuit Intermittent/Erratic -P0470 Exhaust gas pressure sensor -circuit malfunctionWiring, exhaust gas pressure sensor, ECMP0471 Exhaust gas pressure sensor -range/performance problemExhaust gas pressure sensorP0472 Exhaust gas pressure sensor -low inputWiring short to earth, exhaust gas pressure sensor, ECMP0473 Exhaust gas pressure sensor -high inputWiring short to positive, exhaust gas pressure sensor, ECMP0474 Exhaust gas pressure sensor -circuit intermittentWiring, poor connection, exhaust gas pressure sensor, ECMP0475 Exhaust gas pressure control valve -circuit malfunctionWiring, exhaust gas pressure control valve, ECMP0476 Exhaust gas pressure control valve -range/performance problemExhaust gas pressure control valveP0477 Exhaust gas pressure control valve -low inputWiring short to earth, exhaust gas pressure control valve, ECMP0478 Exhaust gas pressure control valve -high inputWiring short to positive, exhaust gas pressure control valve, ECMP0479 Exhaust gas pressure control valve -circuit intermittentWiring, poor connection, exhaust gas pressure control valve, ECMP047AExhaust Pressure Sensor "B" Circuit -P047BExhaust Pressure Sensor "B" Circuit Range/Performance -P047CExhaust Pressure Sensor "B" Circuit Low -P047DExhaust Pressure Sensor "B" Circuit High -P047EExhaust Pressure Sensor "B" Circuit Intermittent/Erratic -P047FExhaust Pressure Control Valve "A" Stuck Open -P0480 Engine coolant blower motor 1 -circuit malfunctionWiring, engine coolant blower motor, ECMP0481 Engine coolant blower motor 2 -circuit malfunctionWiring, engine coolant blower motor, ECMP0482 Engine coolant blower motor 3 -circuit malfunctionWiring, engine coolant blower motor, ECMP0483 Engine coolant blower motor, rationality check malfunctionWiring, engine coolant blower motor, ECMP0484 Engine coolant blower motor -circuit over currentWiring, engine coolant blower motor, ECMP0485 Engine coolant blower motor, power/earth -circuit malfunctionWiring, engine coolant blower motor, ECMP0486 Exhaust gas recirculation (EGR) valve position sensor B -circuit malfunctionWiring, poor connection, EGA valve position sensor, ECMP0487 Exhaust gas recirculation (EGR) system, throttle position control -circuit malfunctionWiring, poor connection, ECMP0488 Exhaust gas recirculation (EGR) system, throttle position control -range/performanceWiring, poor connection, ECMP0489 Exhaust gas recirculation (EGA) system -circuit lowWiring short to earth, EGA valveP048AExhaust Pressure Control Valve "A" Stuck Closed -P048BExhaust Pressure Control Valve Position Sensor/Switch Circuit -P048CExhaust Pressure Control Valve Position Sensor/Switch Circuit Range/Performance -P048DExhaust Pressure Control Valve Position Sensor/Switch Circuit Low -P048EExhaust Pressure Control Valve Position Sensor/Switch Circuit High -P048FExhaust Pressure Control Valve Position Sensor/Switch Circuit Intermittent/Erratic -P0490 Exhaust gas recirculation (EGA) system -circuit highWiring short to positive, EGA valveP0491 Secondary air injection (AIR) system, bank 1 malfunctionWiring, AIR solenoid, hose connections, mechanical faultP0492 Secondary air injection (AIR) system, bank 2 malfunctionWiring, AIR solenoid, hose connections, mechanical faultP0493 Engine coolant blower motor over -speed (clutch locked)Blower motor clutch, mechanical faultP0494 Engine coolant blower motor speed -lowWiring, relay, blower motor, mechanical faultP0495 Engine coolant blower motor speed -highWiring, relay, blower motor, mechanical faultP0496 Evaporative emission (EVAP) system -high purge flowWiring, EVAP valve, mechanical faultP0497 Evaporative emission (EVAP) system -low purge flowWiring, EVAP valve, hoses blocked, mechanical faultP0498 Evaporative emission (EVAP) system, vent control circuit lowWiring short to earth, EVAP valveP0499 Evaporative emission (EVAP) system, vent control -circuit highWiring short to positive, EVAP valveP049AExhaust Gas Recirculation "B" Flow -P049BExhaust Gas Recirculation "B" Flow Insufficient Detected -P049CExhaust Gas Recirculation "B" Flow Excessive Detected -P049DExhaust Gas Recirculation "A" Control Position Exceeded Learning Limit -P049EExhaust Gas Recirculation "B" Control Position Exceeded Learning Limit -P049FExhaust Pressure Control Valve "B" -P04AAExhaust Pressure Control Valve "B" Position Sensor/Switch Circuit Intermittent/Erratic -P04AB – P04FFISO/SAE Reserved -P04DBCrankcase Ventilation System DisconnectedP04E0EVAP System Purge Control Valve A Stuck ClosedP0500 – P0599 (Vehicle or idle speed control)P0500Vehicle speed sensor (VSS) -circuit malfunctionWiring, VSS, ECMP0501 Vehicle speed sensor (VSS) -range/performance problemWiring, speedometer, VSS, CAN data busP0502 Vehicle speed sensor (VSS) -low inputWiring short to earth, VSS, ECMP0503 Vehicle speed sensor (VSS) -intermittent/erratic/high inputWiring, poor connection, other connected system, instrument panel, VSSP0504 Brake switch -A/B correlationWiring, mechanical faultP0505Idle speed control (ISC) system -malfunctionWiring, ISC actuator/IAC valve, throttle motor, throttle valve tight/sticking, ECMP0506 Idle speed control (ISC) system -rpm lower than expectedWiring, ISC actuator/IAC valve, throttle motor, throttle valve tight/sticking, ECMP0507 Idle speed control (ISC) system -rpm higher than expectedWiring, ISC actuator/IAC valve, throttle motor, throttle valve tight/sticking, ECMP0508 Idle air control (IAC) -circuit lowWiring short to earth, IAC valve, ECMP0509 Idle air control (IAC) -circuit highWiring short to positive, IAC valve, ECMP050ACold Start Idle Air Control System PerformanceCarbon build-up, defective idle air control valve, broken ducting, dirty air filter, air leaks , MAF or IAT or Engine coolant sensor, Ignition system component failureP050BCold Start Ignition Timing Performance -P050CCold Start Engine Coolant Temperature Performance -P050DCold Start Rough Idle -P050ECold Start Engine Exhaust Temperature Too Low -P050FBrake Assist Vacuum Too Low -P0510 Closed throttle position (CTP) switch -circuit malfunctionWiring, CTP switch, ECMP0511 Idle air control (IAC) -circuit malfunctionWiring, poor connection, lac valve, ECMP0512 Starter request circuit -malfunctionWiring, immobilizer system, relayP0513 Incorrect immobilizer keyImmobilizer systemP0514 Battery temperature sensor -circuit range/performanceWiring, poor connection, battery temperature sensorP0515 Battery temperature sensor -circuit malfunctionWiring, poor connection, battery temperature sensorP0516 Battery temperature sensor -circuit lowWiring short to earth, battery temperature sensor, ECMP0517 Battery temperature sensor -circuit highWiring short to positive, battery temperature sensor, ECMP0518 Idle air control (IAC) -circuit intermittentWiring, poor connection, lac valve, ECMP0519 Idle air control (IAC) -circuit performanceWiring, poor connection, lac valve, ECMP051ACrankcase Pressure Sensor Circuit -P051BCrankcase Pressure Sensor Circuit Range/PerformancePCM malfunction, faulty Pcv valves, electrical issuesP051CCrankcase Pressure Sensor Circuit Low -P051DCrankcase Pressure Sensor Circuit High -P051ECrankcase Pressure Sensor Circuit Intermittent/Erratic -P051FPositive Crankcase Ventilation Filter Restriction -P0520 Engine oil pressure sensor/switch -circuit malfunctionWiring, engine oil pressure sensor/switch, ECMP0521 Engine oil pressure sensor/switch -range/performance problemEngine oil pressure sensor/switchP0522 Engine oil pressure sensor/switch -low voltageWiring short to earth, engine oil pressure sensor/switch, ECMP0523 Engine oil pressure sensor/switch -high voltageWiring short to positive, engine oil pressure sensor/ switch, ECMP0524 Engine oil pressure too lowMechanical faultP0525 Cruise control system, actuator control circuit range/performanceWiring, poor connection, cruise control actuatorP0526 Engine coolant blower motor speed sensor circuit malfunctionWiring, poor connection, blower motor speed sensor, ECMP0527 Engine coolant blower motor speed sensor circuit range/performanceWiring, poor connection, blower motor speed sensorP0528 Engine coolant blower motor speed sensor no signalWiring, poor connection, blower motor speed sensor, ECMP0529 Engine coolant blower motor speed sensor circuit intermittentWiring, poor connection, ECMP052ACold Start "A" Camshaft Position Timing Over-Advanced -P052BCold Start "A" Camshaft Position Timing Over-Retarded -P052CCold Start "A" Camshaft Position Timing Over-Advanced -P052DCold Start "A" Camshaft Position Timing Over-Retarded -P052EPositive Crankcase Ventilation Regulator Valve Performance -P052FISO/SAE Reserved -P0530 AC refrigerant pressure sensor -circuit malfunctionWiring, AC refrigerant pressure sensor, ECMP0531 AC refrigerant pressure sensor -range/performance problemAC refrigerant pressure sensorP0532 AC refrigerant pressure sensor -low inputAC refrigerant pressure too low (incorrectly charged), wiring, AC refrigerant pressure sensor, ECMP0533 AC refrigerant pressure sensor -high inputAC refrigerant pressure too high (cooling fault/incorrectly charged), wiring, AC refrigerant pressure sensor, ECMP0534 AC refrigerant charge lossAC leak, wiring, AC refrigerant pressure sensorP0535 AC evaporator temperature sensor -circuit malfunctionWiring, poor connection, AC evaporator temperature sensor, ECMP0536 AC evaporator temperature sensor circuit range/performanceWiring, poor connection, AC evaporator temperature sensor, ECMP0537 AC evaporator temperature sensor -circuit lowWiring short to earth, AC evaporator temperature sensor, ECMP0538 AC evaporator temperature sensor -circuit highWiring short to positive, AC evaporator temperature sensor, ECMP0539 AC evaporator temperature sensor -circuit intermittentWiring, poor connection, AC evaporator temperature sensor, ECMP053APositive Crankcase Ventilation Heater Control Circuit /Open -P053BPositive Crankcase Ventilation Heater Control Circuit Low -P053CPositive Crankcase Ventilation Heater Control Circuit High -P053DISO/SAE Reserved -P053EISO/SAE Reserved -P053FISO/SAE Reserved -P0540 Intake air heater A -circuit malfunctionWiring, relay, intake air heaterP0541 Intake air heater A -circuit lowWiring short to earth, intake air heaterP0542 Intake air heater A -circuit highWiring short to positive, intake air heaterP0543 Intake air heater A -circuit openWiring, intake air heaterP0544 Exhaust gas recirculation temperature (EGRT) sensor, bank 1 -circuit malfunctionWiring, EGRT sensor, ECMP0545 Exhaust gas recirculation temperature (EGRT) sensor, bank 1 -low inputWiring short to earth, EGRT sensor, ECMP0546 Exhaust gas recirculation temperature (EGRT) sensor, bank 1 -high inputWiring short to positive, EGRT sensor, ECMP0547 Exhaust gas temperature sensor, bank 2 sensor 1 circuit malfunctionWiring, poor connection, exhaust gas temperature sensor, ECMP0548 Exhaust gas temperature sensor, bank 2 sensor 1 circuit lowWiring short to earth, exhaust gas temperature sensor, ECMP0549 Exhaust gas temperature sensor, bank 2 sensor 1 circuit highWiring short to positive, exhaust gas temperature sensor, ECMP054ACold Start "B" Camshaft Position Timing Over-Advanced -P054BCold Start "B" Camshaft Position Timing Over-Retarded -P054CCold Start "B" Camshaft Position Timing Over-Advanced -P054DCold Start "B" Camshaft Position Timing Over-Retarded -P054EISO/SAE Reserved -P054FISO/SAE Reserved -P0550 Power steering pressure (PSP) sensor/switch circuit malfunctionWiring, PSP sensor/switch, ECMP0551 Power steering pressure (PSP) sensor/switch range/performance problemPAS system, PSP sensor/switchP0552 Power steering pressure (PSP) sensor/switch -low inputWiring short to earth, PSP sensor/switch, ECMP0553 Power steering pressure (PSP) sensor/switch -high inputWiring short to positive, PSP sensor/switch, ECMP0554 Power steering pressure (PSP) sensor/switch -circuit intermittentWiring, poor connection, PSP sensor/switch, ECMP0555 Brake servo pressure sensor -circuit malfunctionWiring, poor connection, brake servo pressure sensor, ECMP0556 Brake servo pressure sensor -circuit range/performanceWiring, poor connection, brake servo pressure sensor, ECMP0557 Brake servo pressure sensor -circuit low inputWiring short to earth, brake servo pressure sensor, ECMP0558 Brake servo pressure sensor -circuit high inputWiring short to positive, brake servo pressure sensor, ECMP0559 Brake servo pressure sensor -circuit intermittentWiring, poor connection, brake servo pressure sensor, ECMP055AISO/SAE Reserved -P055BEngine Oil Pressure Sensor/Switch "B" Range/Performance -P055CISO/SAE Reserved -P055DISO/SAE Reserved -P055EISO/SAE Reserved -P055FISO/SAE Reserved -P0560 System voltage malfunctionWiring, poor connection, battery, alternatorP0561 System voltage -unstableWiring, poor connection, battery, alternatorP0562 System voltage -lowWiring, poor connection, battery, alternatorP0563 System voltage -highAlternatorP0564 Cruise control system, multi -function switch input A -circuit malfunctionWiring, poor connection, multi -function switch, mechanical faultP0565 Cruise control master switch, ON signal -malfunctionWiring, cruise control master switch, ECMP0566 Cruise control master switch, OFF signal -malfunctionWiring, cruise control master switch, ECMP0567 Cruise control selector switch, RESUME signal malfunctionWiring, cruise control selector switch, ECMP0568 Cruise control master switch, SET signal -malfunctionWiring, cruise control master switch, ECMP0569 Cruise control selector switch, COAST signal malfunctionWiring, cruise control selector switch, ECMP056ACruise Control "Increase Distance" Signal -P056BCruise Control "Decrease Distance" Signal -P056CISO/SAE Reserved -P056DISO/SAE Reserved -P056EISO/SAE Reserved -P056FISO/SAE Reserved -P0570 Cruise control system, APP sensor signal -malfunctionWiring, APP sensor, ECMP0571 Cruise/brake switch A -circuit malfunctionWiring, cruise/brake switch, ECMP0572 Cruise/brake switch A -circuit lowWiring short to earth, cruise/brake switch, ECMP0573 Cruise/brake switch A -circuit highWiring short to positive, cruise/brake switch, ECMP0574 Cruise control system -vehicle speed too highMechanical faultP0575 Cruise control system -input circuit malfunctionWiring, poor connection, mechanical fault, ECMP0576 Cruise control system -input circuit lowWiring short to earthP0577 Cruise control system -input circuit highWiring short to positiveP0578 Cruise control system, multi -function switch input A circuit stuckWiring, poor connection, multi -function switch, mechanical faultP0579 Cruise control system, multi -function switch input A circuit range/performanceWiring, poor connection, multi -function switch, mechanical faultP057AISO/SAE Reserved -P057BISO/SAE Reserved -P057CISO/SAE Reserved -P057DISO/SAE Reserved -P057EISO/SAE Reserved -P057FISO/SAE Reserved -P0580 Cruise control system, multi -function switch input A -circuit lowWiring short to earth, multi -function switch, mechanical faultP0581 Cruise control system, multi -function switch input A circuit highWiring short to positive, multi -function switch, mechanical faultP0582 Cruise control system, vacuum control -circuit openWiring, vacuum control solenoidP0583 Cruise control system, vacuum control -circuit lowWiring short to earth, vacuum control solenoidP0584 Cruise control system, vacuum control -circuit highWiring short to positive, vacuum control solenoidP0585 Cruise control system, multi -function switch input A/B correlationMechanical faultP0586 Cruise control system, vent control -circuit openWiring, vent control solenoidP0587 Cruise control system, vent control -circuit lowWiring short to earth, vent control solenoidP0588 Cruise control system, vent control -circuit highWiring short to positive, vent control solenoidP0589 Cruise control system, multi -function switch input B circuit malfunctionWiring, poor connection, multi -function switch, mechanical faultP058AISO/SAE Reserved -P058BISO/SAE Reserved -P058CISO/SAE Reserved -P058DISO/SAE Reserved -P058EISO/SAE Reserved -P058FISO/SAE Reserved -P0590 Cruise control system, multi -function switch input 8 -circuit stuckWiring, poor connection, multi -function switch, mechanical faultP0591 Cruise control system, multi -function switch input B - circuit range/performanceWiring, poor connection, multi -function switch, mechanical faultP0592 Cruise control system, multi -function switch input 8circuit lowWiring short to earth, multi -function switch, mechanical faultP0593 Cruise control system, multi -function switch input 8 -circuit highWiring short to positive, multi -function switch, mechanical faultP0594 Cruise control system, actuator control -circuit openWiring, actuatorP0595 Cruise control system, actuator control -circuit lowWiring short to earth, actuatorP0596 Cruise control system, actuator control -circuit highWiring short to positive, actuatorP0597 Thermostat heater control system -circuit openWiring, relay, thermostat heaterP0598 Thermostat heater control system -circuit lowWiring short to earth, relay, thermostat heaterP0599 Thermostat heater control system -circuit highWiring short to positive, relay, thermostat heaterP059A – P05FFISO/SAE Reserved -P059FActive Grille Shutter Actuator FaultP0600 – P0699 (ECM – computer output circuit)P0600 CAN data bus -malfunctionWiring, connected system, ECMP0601 Engine control module (ECM) -memory check sum errorECMP0602 Engine control module (ECM) -programming errorECMP0603 Engine control module (ECM) -KAM errorECMP0604 Engine control module (ECM) -RAM errorECMP0605 Engine control module (ECM) -ROM errorECMP0606 Engine control module (ECM)/powertrain control module (PCM) -processor faultECM/PCMP0607 Control module -performance problemControl moduleP0608 Engine control module (ECM), VSS output A -malfunctionECMP0609 Engine control module (ECM), VSS output B -malfunctionECMP060AInternal Control Module Monitoring Processor Performance -P060BInternal Control Module A/D Processing Performance -P060CInternal Control Module Main Processor Performance -P060DInternal Control Module Accelerator Pedal Position Performance -P060EInternal Control Module Throttle Position Performance -P060FInternal Control Module Coolant Temperature Performance -P0610 Control module -vehicle options errorControl moduleP0611 Fuel injector control module -performance problemFuel injector control moduleP0612Fuel injector control module -control relay circuitWiring, relay, fuel injector control moduleP0613 Transmission control module (TCM) -processor errorTCMP0614 Engine control module (ECM)/transmission control module (TCM) -mismatchECM!TCMP0615 Starter motor relay -circuit malfunctionWiring, poor connection, starter motor relay, ECMP0616 Starter motor relay -circuit lowWiring short to earth, starter motor relay, ECMP0617 Starter motor relay -circuit highWiring short to positive, starter motor relay, ECMP0618 Alternative fuel control module -KAM errorAlternative fuel control moduleP0619 Alternative fuel control module -RAM/ROM errorAlternative fuel control moduleP061AInternal Control Module Torque Performance -P061BInternal Control Module Torque Calculation Performance -P061CInternal Control Module Engine RPM Performance -P061DInternal Control Module Engine Air Mass Performance -P061EInternal Control Module Brake Signal Performance -P061FInternal Control Module Throttle Actuator Controller Performance -P0620 Alternator, control -circuit malfunctionWiring, alternator, battery, ECMP0621 Alternator warning lamp -circuit malfunctionWiring, alternator warning lamp, ECMP0622 Alternator, field control -circuit malfunctionWiring, alternator, battery, ECMP0623 Generator control lamp -circuit malfunctionWiring, poor connection, bulb, ECMP0624 Filler cap control lamp -circuit malfunctionWiring, poor connection, bulb, ECMP0625 Generator field terminal -circuit lowWiring short to earth, generatorP0626 Generator field terminal -circuit highWiring short to positive, generatorP0627 Fuel pump control -circuit openWiring, relay, fuel pumpP0628 Fuel pump control -circuit lowWiring short to earth, relay, fuel pumpP0629 Fuel pump control -circuit highWiring short to positive, relay, fuel pumpP062AFuel Pump "A" Control Circuit Range/Performance -P062BInternal Control Module Fuel Injector Control Performance -P062CInternal Control Module Vehicle Speed Performance -P062DFuel Injector Driver Circuit PerformanceWiring, Defective fuel injector / injector circuit or software, PCMP062EFuel Injector Driver Circuit Performance -P062FInternal Control Module EEPROM ErrorWiring, incorrect / incompatible software, low or spiking system voltageP0630 VIN not programmed or mismatch -ECM/PCMECM/PCMP0631 VIN not programmed or mismatch -TCMTCMP0632 Odometer not programmed -ECM/PCMECM/PCMP0633 Immobilizer key not programmed -ECM/PCMECM/PCMP0634 PCM/ECM/TCM -internal temperature too highMechanical fault, PCM/ECM/TCMP0635 Power steering control -circuit malfunctionWiring, poor connection, power steering pressure (PSP) switch, ECMP0636 Power steering control -circuit lowWiring short to earth, power steering pressure (PSP) switch, ECMP0637 Power steering control -circuit highWiring short to positive, power steering pressure (PSP) switch, ECMP0638 Throttle actuator control, bank 1 -range/performance problemBasic setting not carried out (if applicable), ISC actuator/throttle motor, APP sensorP0639 Throttle actuator control, bank 2 -range/performanceWiring, throttle control unitP063AGenerator Voltage Sense Circuit -P063BGenerator Voltage Sense Circuit Range/Performance -P063CGenerator Voltage Sense Circuit Low -P063DGenerator Voltage Sense Circuit High -P063EAuto Configuration Throttle Input Not Present -P063FAuto Configuration Engine Coolant Temperature Input Not Present -P0640 Intake air heater control -circuit malfunctionWiring, relay, intake air heaterP0641 Sensor reference voltage A -circuit openWiring short to positiveP0642 Engine control module (ECM), knock control -defectiveECMP0643 Sensor reference voltage A -circuit highWiring short to positiveP0644 Driver display, serial communication -circuit malfunctionWiring, CAN data bus, ECMP0645 A/C Clutch Relay Control CircuitWiring, AC systemP0646 AC compressor clutch relay -circuit lowWiring short to earth, AC compressor clutch relayP0647 AC compressor clutch relay -circuit highWiring short to positive, AC compressor clutch relayP0648 Immobilizer control lamp -circuit malfunctionWiring, poor connection, bulb, ECMP0649 Cruise control lamp -circuitWiring, poor connection, bulb, ECMP064AFuel Pump Control Module -P064BPTO Control Module -P064CGlow Plug Control Module -P064DInternal Control Module O2 Sensor Processor Performance -P064EInternal Control Module O2 Sensor Processor Performance -P064FUnauthorized Software/Calibration Detected -P0650 Malfunction indicator lamp (MIL) -circuit malfunctionWiring, MIL, ECMP0651 Sensor reference voltage B -circuit openWiring short to positiveP0652 Sensor reference voltage B -circuit lowWiring short to earthP0653 Sensor reference voltage B -circuit highWiring short to positiveP0654 Engine rpm, output -circuit malfunctionWiring, ECMP0655 Engine hot lamp output -circuit malfunctionWiring, engine hot lamp, ECMP0656 Fuel level output -circuit malfunctionWiring, ECMP0657 Actuator supply voltage -circuit openWiringP0658 Actuator supply voltage -circuit lowWiring short to earth, actuatorP0659 Actuator supply voltage -circuit highWiring short to positive, actuatorP065AGenerator System Performance -P065BGenerator Control Circuit Range/Performance -P065CGenerator Mechanical Performance -P065DReductant System Malfunction Lamp Control Circuit -P065EIntake Manifold Tuning Valve Performance -P065FIntake Manifold Tuning Valve Performance -P0660 Intake manifold air control solenoid, bank 1 -circuit openWiring, intake manifold air control solenoidP0661 Intake manifold air control solenoid, bank 1 -circuit lowWiring short to earth, intake manifold air control solenoidP0662 Intake manifold air control solenoid, bank 1 -circuit highWiring short to positive, intake manifold air control solenoidP0663 Intake manifold air control solenoid, bank 2 -circuit openWiring, intake manifold air control solenoidP0664 Intake manifold air control solenoid, bank 2 -circuit lowWiring short to earth, intake manifold air control solenoidP0665 Intake manifold air control solenoid, bank 2 -circuit highWiring short to positive, intake manifoldP0666 PCM/ECM/TCM internal temperature sensor circuit malfunctionWiring, poor connection, internal temperature sensor, ECMP0667 PCM/ECM/TCM internal temperature sensor range/performanceWiring, poor connection, internal temperature sensor, ECMP0668 PCM/ECM/TCM internal temperature sensor -circuit lowWiring short to earth, internal temperature sensor, ECMP0669 PCM/ECM/TCM internal temperature sensor -circuit highWiring short to positive, internal temperature sensor, ECMP066ACylinder 1 Glow Plug Control Circuit Low -P066BCylinder 1 Glow Plug Control Circuit High -P066CCylinder 2 Glow Plug Control Circuit Low -P066DCylinder 2 Glow Plug Control Circuit High -P066ECylinder 3 Glow Plug Control Circuit Low -P066FCylinder 3 Glow Plug Control Circuit High -P0670 Glow plug control module -circuit malfunctionWiring, poor connection, glow plug control module, glow plug, ECMP0671 Glow plug, cylinder 1 -circuit malfunctionWiring, poor connection, relay, glow plug control module, glow plug, ECMP0672 Glow plug, cylinder 2 -circuit malfunctionWiring, poor connection, relay, glow plug control module, glow plug, ECMP0673 Glow plug, cylinder 3 -circuit malfunctionWiring, poor connection, relay, glow plug control module, glow plug, ECMP0674 Glow plug, cylinder 4 -circuit malfunctionWiring, poor connection, relay, glow plug control module, glow plug, ECMP0675 Glow plug, cylinder 5 -circuit malfunctionWiring, poor connection, relay, glow plug control module, glow plug, ECMP0676 Glow plug, cylinder 6 -circuit malfunctionWiring, poor connection, relay, glow plug control module, glow plug, ECMP0677 Glow plug, cylinder 7 -circuit malfunctionWiring, poor connection, relay, glow plug control module, glow plug, ECMP0678 Glow plug, cylinder 8 -circuit malfunctionWiring, poor connection, relay, glow plug control module, glow plug, ECMP0679 Glow plug, cylinder 9 -circuit malfunctionWiring, poor connection, relay, glow plug control module, glow plug, ECMP067ACylinder 4 Glow Plug Control Circuit Low -P067BCylinder 4 Glow Plug Control Circuit High -P067CCylinder 5 Glow Plug Control Circuit Low -P067DCylinder 5 Glow Plug Control Circuit High -P067ECylinder 6 Glow Plug Control Circuit Low -P067FCylinder 6 Glow Plug Control Circuit High -P0680 Glow plug, cylinder 10 -circuit malfunctionWiring, poor connection, relay, glow plug control module, glow plug, ECMP0681Glow plug, cylinder 11 -circuit malfunctionWiring, poor connection, relay, glow plug control module, glow plug, ECMP0682 Glow plug, cylinder 12 -circuit malfunctionWiring, poor connection, relay, glow plug control module, glow plug, ECMP0683 Glow plug control module/ECM/PCM communication -malfunctionWiring, poor connection, glow plug control module, ECM/PCMP0684 Glow plug control module/ECM/PCM communication range/performanceWiring, poor connection, glow plug control module, ECM/PCMP0685 ECM/PCM power relay -circuit openWiring, ECM/PCM power relayP0686 ECM/PCM power relay -circuit lowWiring short to earth, ECM/PCM power relay, ECMP0687 Engine control relay -short to earthWiring short to earth, engine control relay, ECMP0688 Engine control relay -short to positiveWiring short to positive, engine control relay, ECMP0689 ECM/PCM power relay -sense circuit lowWiring short to earth, ECM/PCM power relay, ECMP068AECM/PCM Power Relay De-Energized Performance - Too Early -P068BECM/PCM Power Relay De-Energized Performance - Too Late -P068CCylinder 7 Glow Plug Control Circuit Low -P068DCylinder 7 Glow Plug Control Circuit High -P068ECylinder 8 Glow Plug Control Circuit Low -P068FCylinder 8 Glow Plug Control Circuit High -P0690 ECM/PCM power relay -sense circuit highWiring short to positive, ECM/PCM power relay, ECMP0691 Engine coolant blower motor 1 -short to earthWiring short to earth, engine coolant blower motor, ECMP0692 Engine coolant blower motor 1 -short to positiveWiring short to positive, engine coolant blower motor, ECMP0693 Engine coolant blower motor 2 -short to earthWiring short to earth, engine coolant blower motor, ECMP0694 Engine coolant blower motor 2 -short to positiveWiring short to positive, engine coolant blower motor, ECMP0695 Engine coolant blower motor 3 -control circuit lowWiring short to earth, blower motorP0696Engine coolant blower motor 3 -control circuit highWiring short to positive, blower motorP0697Sensor reference voltage C -circuit openWiring short to positiveP0698 Sensor reference voltage C -circuit lowWiring short to earthP0699 Sensor reference voltage C -circuit highWiring short to positiveP069ACylinder 9 Glow Plug Control Circuit Low -P069BCylinder 9 Glow Plug Control Circuit High -P069CCylinder 10 Glow Plug Control Circuit Low -P069DCylinder 10 Glow Plug Control Circuit High -P069EFuel Pump Control Module Requested MIL Illumination -P069FThrottle Actuator Control Lamp Control Circuit -P06A0Variable A/C Compressor Control Circuit -P06A1Variable A/C Compressor Control Circuit Low -P06A2Variable A/C Compressor Control Circuit High -P06A3Sensor Reference Voltage "D" Circuit/Open -P06A4Sensor Reference Voltage "D" Circuit Low -P06A5Sensor Reference Voltage "D" Circuit High -P06A6Sensor Reference Voltage "A" Circuit Range/Performance -P06A7Sensor Reference Voltage "B" Circuit Range/Performance -P06A8Sensor Reference Voltage "C" Circuit Range/Performance -P06A9Sensor Reference Voltage "D" Circuit Range/Performance -P06AAPCM/ECM/TCM Internal Temperature "B" Too High -P06ABPCM/ECM/TCM Internal Temperature Sensor "B" Circuit -P06ACPCM/ECM/TCM Internal Temperature Sensor "B" Range/Performance -P06ADPCM/ECM/TCM Internal Temperature Sensor "B" Circuit Low -P06AEPCM/ECM/TCM Internal Temperature Sensor "B" Circuit High -P06AFTorque Management System - Forced Engine Shutdown -P06B0Sensor Power Supply "A" Circuit/Open -P06B1Sensor Power Supply "A" Circuit Low -P06B2Sensor Power Supply "A" Circuit High -P06B3Sensor Power Supply "B" Circuit/Open -P06B4Sensor Power Supply "B" Circuit Low -P06B5Sensor Power Supply "B" Circuit High -P06B6Internal Control Module Knock Sensor Processor 1 Performance -P06B7Internal Control Module Knock Sensor Processor 2 Performance -P06B8Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error -P06B9Cylinder 1 Glow Plug Circuit Range/Performance -P06BACylinder 2 Glow Plug Circuit Range/Performance -

P0609 Auxiliary Transmission Fluid Pump Motor Supply Voltage Circuit/Open -P060AAuxiliary Transmission Fluid Pump Motor Supply Voltage Circuit High -P060BAuxiliary Transmission Fluid Pump Motor Supply Voltage Circuit Low -P060CAuxiliary Transmission Fluid Pump Motor Hydraulic Leakage -P060DAuxiliary Transmission Fluid Pump Motor Control Module -P060EHybrid Battery Pack Current Sensor "B" Circuit Range/Performance -P060FHybrid Battery Pack Current Sensor "B" Circuit Low -P0610Hybrid Battery Pack Current Sensor "A"/"B" Correlation -P0611Hybrid Battery Pack Voltage Sense "B" Circuit High -P0612Hybrid Battery Pack Voltage Sense "B" Circuit Low -P0613Hybrid Battery Pack Current Sensor "A"/"B" Correlation -P0614Hybrid Battery Pack Voltage Sense "A" Circuit Intermittent/Erratic -P0615Hybrid Battery Pack Voltage Sense "A" Circuit High -P0616Hybrid Battery Pack Voltage Sense "A" Circuit Low -P0617Hybrid Battery Pack Voltage Sense "B" Circuit Intermittent/Erratic -P0618Hybrid Battery Pack Voltage Sense "B" Circuit Range/Performance -P0619Hybrid Battery Pack Voltage Sense "A" Circuit Range/Performance -P061AHybrid Battery Pack Voltage Sense "C" Circuit Low -P061BHybrid Battery Pack Voltage Sense "C" Circuit High -P061CHybrid Battery Pack Voltage Sense "C" Circuit Intermittent/Erratic -P061DHybrid Battery Pack Voltage Sense "D" Circuit Range/Performance -P061EHybrid Battery Pack Voltage Sense "D" Circuit Low -P061FHybrid Battery Pack Voltage Sense "D" Circuit High -P0620Hybrid Battery Pack Voltage Sense "D" Circuit Intermittent/Erratic -P0621Hybrid Battery Pack Voltage Sense "A" Circuit Range/Performance -P0622Hybrid Battery Pack Voltage Sense "A" Circuit Low -P0623Hybrid Battery Pack Voltage Sense "A" Circuit High -P0624Hybrid Battery Pack Voltage Sense "A" Circuit Intermittent/Erratic -P0625Hybrid Battery Pack Voltage Sense "B" Circuit Range/Performance -P0626Hybrid Battery Pack Voltage Sense "B" Circuit Low -P0627Hybrid Battery Pack Voltage Sense "B" Circuit High -P0628Hybrid Battery Pack Voltage Sense "B" Circuit Intermittent/Erratic -P0629Hybrid Battery Pack Voltage Sense "A"/"B" Correlation -P062AHybrid Battery Pack Voltage Sense "C" Circuit Range/Performance -P062BHybrid Battery Pack Voltage Sense "C" Circuit Low -P062CHybrid Battery Pack Voltage Sense "C" Circuit High -P062DHybrid Battery Pack Voltage Sense "C" Circuit Intermittent/Erratic -P062EHybrid Battery Pack Voltage Sense "D" Circuit Range/Performance -P062FHybrid Battery Pack Voltage Sense "D" Circuit Low -P0630Hybrid Battery Pack Voltage Sense "D" Circuit High -P0631Hybrid Battery Pack Air Temperature Sensor "A" Circuit Range/Performance -P0632Hybrid Battery Pack Air Temperature Sensor "A" Circuit Low -P0633Hybrid Battery Pack Air Temperature Sensor "A" Circuit High -P0634Hybrid Battery Pack Air Temperature Sensor "A" Circuit Intermittent/Erratic -P0635Hybrid Battery Pack Air Temperature Sensor "B" Circuit Range/Performance -P0636Engine Mount "B" Control Circuit Low -P0637Engine Mount "B" Control Circuit High -P0638Engine Mount "B" Control Circuit Open -P0639Motor Electronics Coolant Pump "B" Control Circuit/Open -P063AMotor Electronics Coolant Pump "B" Control Circuit Low -P063BMotor Electronics Coolant Pump "B" Control Circuit High -P063CMotor Electronics Coolant Pump "B" Control Circuit Intermittent/Erratic -P063DMotor Electronics Coolant Temperature Sensor Circuit Range/Performance -P063EMotor Electronics Coolant Temperature Sensor Circuit Low -P063FMotor Electronics Coolant Temperature Sensor Circuit High -P0640Motor Electronics Coolant Temperature Sensor Circuit Intermittent/Erratic -P0641Motor Electronics Coolant Temperature Sensor Circuit Range/Performance -P0642Motor Electronics Coolant Temperature Sensor Circuit Low -P0643Motor Electronics Coolant Temperature Sensor Circuit High -P0644Motor Electronics Coolant Temperature Sensor Circuit Intermittent/Erratic -P0645Motor Electronics Coolant Pump "A" Control Circuit/Open -P0646Motor Electronics Coolant Pump "A" Control Circuit Low -P0647Motor Electronics Coolant Pump "A" Control Circuit High -P0648Motor Electronics Coolant Pump "A" Control Circuit Intermittent/Erratic -P0649Motor Electronics Coolant Pump "B" Control Circuit/Open -P064AMotor Electronics Coolant Pump "B" Control Circuit Low -P064BMotor Electronics Coolant Pump "B" Control Circuit High -P064CMotor Electronics Coolant Pump "B" Control Circuit Intermittent/Erratic -P064DAuxiliary Transmission Fluid Pump Motor Speed Control Circuit -P064EAuxiliary Transmission Fluid Pump Motor Speed Control Circuit Range/Performance -P064FAuxiliary Transmission Fluid Pump Motor Speed Control Circuit Low -P0650Auxiliary Transmission Fluid Pump Motor Speed Control Circuit High -P0651Auxiliary Transmission Fluid Pump Motor Speed Control Circuit Intermittent/Erratic -P0652Auxiliary Transmission Fluid Pump Motor Phase U Current Range/Performance -P0653Auxiliary Transmission Fluid Pump Motor Phase U Current Low -P0654Auxiliary Transmission Fluid Pump Motor Phase U Current High -P0655Auxiliary Transmission Fluid Pump Motor Phase U Current Intermittent/Erratic -P0656Auxiliary Transmission Fluid Pump Motor Phase V Current Range/Performance -P0657Auxiliary Transmission Fluid Pump Motor Phase V Current Low -P0658Auxiliary Transmission Fluid Pump Motor Phase V Current High -P0659Auxiliary Transmission Fluid Pump Motor Phase V Current Intermittent/Erratic -P065AAuxiliary Transmission Fluid Pump Motor Phase W Current Range/Performance -P065BAuxiliary Transmission Fluid Pump Motor Phase W Current Low -P065CAuxiliary Transmission Fluid Pump Motor Phase W Current High -P065DAuxiliary Transmission Fluid Pump Motor Phase W Current Intermittent/Erratic -P065EHybrid Battery Pack Current Sensor "B" Circuit Range/Performance -P065FHybrid Battery Pack Current Sensor "B" Circuit Low -P0660Hybrid Battery Pack Current Sensor "B" Circuit High -P0661Hybrid Battery Pack Current Sensor "B" Circuit Intermittent/Erratic -P0662Hybrid Battery Pack Voltage Sense "B" Circuit Range/Performance -P0663Hybrid Battery Pack Voltage Sense "B" Circuit Low -P0664Hybrid Battery Pack Voltage Sense "B" Circuit High -P0665Hybrid Battery Pack Voltage Sense "B" Circuit Intermittent/Erratic -P0666Hybrid Battery Pack Current Sensor "A" Circuit Range/Performance -P0667Hybrid Battery Pack Current Sensor "A" Circuit Low -P0668Hybrid Battery Pack Current Sensor "A" Circuit High -P0669Hybrid Battery Pack Current Sensor "A" Circuit Intermittent/Erratic -P066AHybrid Battery Pack Voltage Sense "W" Circuit Range/Performance -P066BHybrid Battery Pack Voltage Sense "W" Circuit Low -P066CHybrid Battery Pack Voltage Sense "W" Circuit High -P066DHybrid Battery Pack Voltage Sense "W" Circuit Intermittent/Erratic -P066EHybrid Battery Pack Voltage Sense "X" Circuit Range/Performance -P066FHybrid Battery Pack Voltage Sense "X" Circuit Low -P0670Hybrid Battery Pack Voltage Sense "X" Circuit High -P0671Hybrid Battery Pack Voltage Sense "X" Circuit Intermittent/Erratic -P0672Hybrid Battery Pack Voltage Sense "Y" Circuit Range/Performance -P0673Hybrid Battery Pack Voltage Sense "Y" Circuit Low -P0674Hybrid Battery Pack Voltage Sense "Y" Circuit High -P0675Hybrid Battery Pack Voltage Sense "Y" Circuit Intermittent/Erratic -P0676Hybrid Battery Pack Voltage Sense "Z" Circuit Range/Performance -P0677Hybrid Battery Pack Voltage Sense "Z" Circuit Low -P0678Hybrid Battery Pack Voltage Sense "Z" Circuit High -P0679Hybrid Battery Pack Voltage Sense "Z" Circuit Intermittent/Erratic -P067AHybrid Battery Pack Voltage Variation Exceeded Limit -P067BHybrid Battery Pack Voltage Variation -P067CHybrid Battery Pack Cooling Fan Supply Voltage Circuit/Open -P067DHybrid Battery Pack Cooling Fan Supply Voltage Circuit Low -P067EHybrid Battery Pack Cooling Fan Supply Voltage Circuit High -P067FHybrid Battery Pack Cooling Fan Sense Circuit/Open -P0680Hybrid Battery Pack Cooling Fan Sense Circuit Low -P0681Hybrid Battery Pack Cooling Fan Sense Circuit High -P0682Hybrid Battery Pack Cooling Fan Sense Circuit Intermittent/Erratic -P0683Hybrid Battery Pack Cooling Fan Sense Range/Performance -P0684Hybrid Battery Pack Cooling Fan 2 Control Circuit/Open -P0685Hybrid Battery Pack Cooling Fan 2 Control Circuit Low -P0686Hybrid Battery Pack Cooling Fan 2 Control Circuit High -P0687Hybrid Battery Pack Cooling Fan 2 Control Circuit Intermittent/Erratic -P0688Hybrid Battery Pack Cooling Fan 1 Performance/Stuck Off -P0689Hybrid Battery Pack Cooling Fan 1 Control Circuit/Open -P068AHybrid Battery Pack Cooling Fan 1 Control Circuit Low -P068BHybrid Battery Pack Cooling Fan 1 Control Circuit High -P068CHybrid Battery Pack Cooling Fan 1 Control Circuit Intermittent/Erratic -P068DHybrid Battery Pack Cooling Fan 1 Performance/Stuck On -P068EHybrid Battery Pack Cooling Fan 2 Performance/Stuck Off -P068FHybrid Battery Pack Cooling Fan 2 Control Circuit/Open -P0690Hybrid Battery Pack Cooling Fan 2 Control Circuit Low -P0691Hybrid Battery Pack Cooling Fan 2 Control Circuit High -P0692Hybrid Battery Pack Cooling Fan 2 Control Circuit Intermittent/Erratic -P0693Hybrid Battery Pack Cooling Fan Sense Circuit Low -P0694Hybrid Battery Pack Cooling Fan Sense Circuit High -P0695Hybrid Battery Pack Cooling Fan Sense Circuit Intermittent/Erratic -P0696Hybrid Battery Pack Cooling Fan Sense Range/Performance -P0697Hybrid Battery Pack Cooling Fan Sense Circuit Low -P0698Hybrid Battery Pack Cooling Fan Sense Circuit High -P0699Hybrid Battery Pack Cooling Fan Sense Circuit Intermittent/Erratic -P069AHybrid Battery Pack Cooling Fan Sense/Open -P069BHybrid Battery Pack Cooling Fan Sense Range/Performance -P069CHybrid Battery Pack Cooling Fan Sense Circuit Low -P069DHybrid Battery Pack Cooling Fan Sense Circuit High -P069EHybrid Battery Pack Cooling Fan Sense Circuit Intermittent/Erratic -P069FInverter/Converter Assembly, Hybrid vehicle transaxle assembly -P06A0Hybrid Battery Pack Cooling Fan 2 Performance/Stuck Off -P06A1Hybrid Battery Pack Cooling Fan 2 Stuck On -P06A2Hybrid Battery Pack Cooling Fan 2 Control Circuit/Open -P06A3Hybrid Battery Pack Cooling Fan 2 Control Circuit Low -P06A4Hybrid Battery Pack Cooling Fan 2 Control Circuit High -P06A5Hybrid Battery Pack Cooling Fan 2 Control Circuit Intermittent/Erratic -P06A6Hybrid Battery Pack Cooling Fan 1 Performance/Stuck Off -P06A7Hybrid Battery Pack Cooling Fan 1 Stuck On -P06A8Hybrid Battery Pack Cooling Fan 1 Control Circuit/Open -P06A9Hybrid Battery Pack Cooling Fan 1 Control Circuit Low -P06AAHybrid Battery Pack Cooling Fan 1 Control Circuit High -P06ABHybrid Battery Pack Cooling Fan 1 Control Circuit Intermittent/Erratic -P06ACHybrid Battery Pack Voltage Sense "C" Circuit Range/Performance -P06ADHybrid Battery Pack Voltage Sense "C" Circuit Low -P06AEHybrid Battery Pack Voltage Sense "C" Circuit High -P06AFHybrid Battery Pack Voltage Sense "C" Circuit Intermittent/Erratic -P06B0Hybrid Battery Pack Air Temperature Sensor "B" Circuit Range/Performance -P06B1Hybrid Battery Pack Air Temperature Sensor "B" Circuit Low -P06B2Hybrid Battery Pack Air Temperature Sensor "B" Circuit High -P06B3Hybrid Battery Pack Air Temperature Sensor "B" Circuit Intermittent/Erratic -P06B4Hybrid Battery Pack Air Temperature Sensor "A" Circuit Range/Performance -P06B5Hybrid Battery Pack Voltage Sense "A" Circuit Low -P06B6Hybrid Battery Pack Voltage Sense "A" Circuit High -P06B7Hybrid Battery Pack Voltage Sense "A" Circuit Intermittent/Erratic -P06B8Engine Mount "B" Control Circuit Low -P06B9Engine Mount "B" Control Circuit High -P06BAEngine Mount "B" Control Circuit/Open -P06BBDrive Motor Inverter Temperature Sensor "F" Circuit Range/Performance -P06BCDrive Motor Inverter Temperature Sensor "F" Circuit Low -P06BDDrive Motor Inverter Temperature Sensor "F" Circuit High -P06BEDrive Motor Inverter Temperature Sensor "F" Circuit Intermittent/Erratic -P06BFDrive Motor Inverter Temperature Sensor "E" Circuit Range/Performance -P06C0Drive Motor Inverter Temperature Sensor "E" Circuit Low -P06C1Drive Motor Inverter Temperature Sensor "E" Circuit High -P06C2Drive Motor Inverter Temperature Sensor "E" Circuit Intermittent/Erratic -P06C3Drive Motor Inverter Temperature Sensor "D" Circuit Range/Performance -P06C4Drive Motor Inverter Temperature Sensor "D" Circuit Low -P06C5Drive Motor Inverter Temperature Sensor "D" Circuit High -P06C6Drive Motor Inverter Temperature Sensor "D" Circuit Intermittent/Erratic -P06C7Drive Motor Inverter Temperature Sensor "C" Circuit Range/Performance -P06C8Drive Motor Inverter Temperature Sensor "C" Circuit Low -P06C9Drive Motor Inverter Temperature Sensor "C" Circuit High -P06CADrive Motor Inverter Temperature Sensor "C" Circuit Intermittent/Erratic -P06CBDrive Motor Inverter Temperature Sensor "B" Slip Detected -P06CCDrive Motor Inverter Temperature Sensor "B" Slip Detected -P06CDDrive Motor Inverter Temperature Sensor "B" Slip Detected -P06CEDrive Motor Inverter Temperature Sensor "A" Slip Detected -P06CFTransmission Fluid Temperature Sensor "B" Slip Detected -P06D0Transmission Fluid Temperature Sensor "B" Slip Detected -P06D1Transmission Fluid Temperature Sensor "B" Slip Detected -P06D2Transmission Fluid Temperature Sensor "A" Slip Detected -P06D3Transmission Fluid Temperature Sensor "A" Slip Detected -P06D4Transmission Fluid Temperature Sensor "A" Slip Detected -P06D5Transmission Fluid Temperature Sensor "C" Slip Detected -P06D6Transmission Fluid Temperature Sensor "C" Slip Detected -P06D7Transmission Fluid Temperature Sensor "C" Slip Detected -P06D8Transmission Fluid Temperature Sensor "C" Slip Detected -P06D9Transmission Fluid Temperature Sensor "C" Slip Detected -P06DATransmission Fluid Temperature Sensor "C" Slip Detected -P06DBTransmission Fluid Temperature Sensor "C" Slip Detected -P06DCTransmission Fluid Temperature Sensor "C" Slip Detected -P06DDTransmission Fluid Temperature Sensor "C" Slip Detected -P06DEDrive Motor Inverter Temperature Sensor "C" Slip Detected -P06DFDrive Motor Inverter Temperature Sensor "C" Slip Detected -P06E0Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06E1Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06E2Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06E3Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06E4Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06E5Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06E6Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06E7Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06E8Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06E9Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06EADrive Motor Inverter Temperature Sensor "C" Slip Detected -P06EBDrive Motor Inverter Temperature Sensor "C" Slip Detected -P06ECDrive Motor Inverter Temperature Sensor "C" Slip Detected -P06EDDrive Motor Inverter Temperature Sensor "C" Slip Detected -P06EEDrive Motor Inverter Temperature Sensor "C" Slip Detected -P06EFDrive Motor Inverter Temperature Sensor "C" Slip Detected -P06F0Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06F1Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06F2Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06F3Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06F4Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06F5Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06F6Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06F7Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06F8Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06F9Drive Motor Inverter Temperature Sensor "C" Slip Detected -P06FADrive Motor Inverter Temperature Sensor "C" Slip Detected -P06FBDrive Motor Inverter Temperature Sensor "C" Slip Detected -P06FCDrive Motor Inverter Temperature Sensor "C" Slip Detected -P06FDDrive Motor Inverter Temperature Sensor "C" Slip Detected -P06FEDrive Motor Inverter Temperature Sensor "C" Slip Detected -P06FFDrive Motor Inverter Temperature Sensor "C" Slip Detected -P0700Transmission Fluid Level Sensor Circuit High -P0701Transmission Fluid Level Sensor Circuit Low -P0702Transmission Fluid Level Too Low -P0703Transmission Fluid Level Too High -P0704Transmission Fluid Level Sensor Circuit Intermittent/Erratic -P0705Transmission Range Sensor Circuit (PRNDL Input) -P0706Transmission Range Sensor Circuit Range/Performance -P0707Transmission Range Sensor Circuit Low -P0708Transmission Range Sensor Circuit High -P0709Transmission Range Sensor Circuit Intermittent -P070ATransmission Range Sensor Circuit -P070BTransmission Fluid Temperature Sensor Circuit Range/Performance -P070CTransmission Fluid Temperature Sensor Circuit Low -P070DTransmission Fluid Temperature Sensor Circuit High -P070ETransmission Fluid Temperature Sensor Circuit Intermittent/Erratic -P070FTransmission Fluid Temperature Too Low -P0710Transmission Fluid Temperature Too High -P0711Transmission Fluid Temperature Sensor Circuit Intermittent/Erratic -P0712Transmission Fluid Temperature Sensor Circuit Low -P0713Transmission Fluid Temperature Sensor Circuit High -P0714Transmission Fluid Temperature Sensor Circuit Intermittent/Erratic -P0715Input/Turbine Speed Sensor Circuit -P0716Input/Turbine Speed Sensor Circuit Range/Performance -P0717Input/Turbine Speed Sensor Circuit No Signal -P0718Input/Turbine Speed Sensor Circuit Intermittent -P0719Torque Converter/Brake Switch B Circuit Low -P071ATorque Converter/Brake Switch B Circuit High -P071BTorque Converter/Brake Switch B Circuit Intermittent/Erratic -P071CEngine Speed Input Circuit -P071DEngine Speed Input Circuit Range/Performance -P071EEngine Speed Input Circuit Low -P071FEngine Speed Input Circuit High -P0720Output Speed Sensor Circuit -P0721Output Speed Sensor Circuit Range/Performance -P0722Output Speed Sensor Circuit No Signal -P0723Output Speed Sensor Circuit Intermittent -P0724Torque Converter/Brake Switch B Circuit -P0725Engine Speed Input Circuit Intermittent -P0726Engine RPM Input Circuit Range/Performance -P0727Engine RPM Input Circuit No Signal -P0728Engine RPM Input Circuit Intermittent -P0729Gear 6 Incorrect Ratio -P072AGear 1 Incorrect Ratio -P072BGear 2 Incorrect Ratio -P072CGear 3 Incorrect Ratio -P072DGear 4 Incorrect Ratio -P072EGear 5 Incorrect Ratio -P072FGear 6 Incorrect Ratio -P0730Incorrect Gear Ratio -P0731Gear 1 Incorrect Ratio -P0732Gear 2 Incorrect Ratio -P0733Gear 3 Incorrect Ratio -P0734Gear 4 Incorrect Ratio -P0735Gear 5 Incorrect Ratio -P0736Reverse Incorrect Ratio -P0737Output Speed Sensor Circuit Range/Performance -P0738Output Speed Sensor Circuit Low -P0739Output Speed Sensor Circuit High -P073AOutput Speed Sensor Circuit Intermittent -P073BInput/Turbine Speed Sensor Circuit Range/Performance -P073CInput/Turbine Speed Sensor Circuit Low -P073DInput/Turbine Speed Sensor Circuit High -P073EInput/Turbine Speed Sensor Circuit Intermittent -P073FClutch Actuator Circuit Low -P0740Torque Converter Clutch (TCC) Solenoid Circuit -P0741Torque Converter Clutch (TCC) Solenoid Circuit Performance/Stuck Off -P0742Torque Converter Clutch (TCC) Solenoid Circuit Stuck On -P0743Torque Converter Clutch (TCC) Solenoid Circuit Electrical -P0744Torque Converter Clutch (TCC) Solenoid Circuit Intermittent -P0745Pressure Control Solenoid A Circuit -P0746Pressure Control Solenoid A Performance or Stuck Off -P0747Pressure Control Solenoid A Stuck On -P0748Pressure Control Solenoid A Electrical -P0749Pressure Control Solenoid A Intermittent -P074APressure Control Solenoid B Circuit -P074BPressure Control Solenoid B Performance or Stuck Off -P074CPressure Control Solenoid B Stuck On -P074DPressure Control Solenoid B Electrical -P074EPressure Control Solenoid B Intermittent -P074FPressure Control Solenoid C Circuit -P0750Shift Solenoid A Circuit -P0751Shift Solenoid A Performance or Stuck Off -P0752Shift Solenoid A Stuck On -P0753Shift Solenoid A Electrical -P0754Shift Solenoid A Intermittent -P0755Shift Solenoid B Circuit -P0756Shift Solenoid B Performance or Stuck Off -P0757Shift Solenoid B Stuck On -P0758Shift Solenoid B Electrical -P0759Shift Solenoid B Intermittent -P075AShift Solenoid C Circuit -P075BShift Solenoid C Performance or Stuck Off -P075CShift Solenoid C Stuck On -P075DShift Solenoid C Electrical -P075EShift Solenoid C Intermittent -P075FTransmission Fluid Level Too High -P0760Shift Solenoid C Performance or Stuck Off -P0761Shift Solenoid C Stuck On -P0762Shift Solenoid C Electrical -P0763Shift Solenoid C Intermittent -P0764Shift Solenoid D Circuit -P0765Shift Solenoid D Performance or Stuck Off -P0766Shift Solenoid D Stuck On -P0767Shift Solenoid D Electrical -P0768Shift Solenoid D Intermittent -P0769Clutch Actuator Circuit -P076AClutch Actuator Performance or Stuck Off -P076BClutch Actuator Stuck On -P076CClutch Actuator Electrical -P076DClutch Actuator Intermittent -P076EShift Solenoid "H" Electrical -P076FShift Solenoid "H" Intermittent -P0770Shift Solenoid E Circuit -P0771Shift Solenoid E Performance or Stuck Off -P0772Shift Solenoid E Stuck On -P0773Shift Solenoid E Electrical -P0774Shift Solenoid E Intermittent -P0775Pressure Control Solenoid D Circuit -P0776Pressure Control Solenoid D Performance or Stuck Off -P0777Pressure Control Solenoid D Stuck On -P0778Pressure Control Solenoid D Electrical -P0779Pressure Control Solenoid D Intermittent -P077APressure Control Solenoid E Circuit -P077BPressure Control Solenoid E Performance or Stuck Off -P077CPressure Control Solenoid E Stuck On -P077DPressure Control Solenoid E Electrical -P077EPressure Control Solenoid E Intermittent -P077FTransmission Range Slipping -P0780Shift Time Too Long -P0781Shift Time Too Short -P0782Transmission Fluid Deteriorated -P0783Transmission Fluid Pressure Sensor/Switch "A" Circuit -P0784Transmission Fluid Pressure Sensor/Switch "A" Circuit Range/Performance -P0785Transmission Fluid Pressure Sensor/Switch "A" Circuit Low -P0786Transmission Fluid Pressure Sensor/Switch "A" Circuit High -P0787Transmission Fluid Pressure Sensor/Switch "A" Circuit Intermittent -P0788Transmission Fluid Pressure Sensor/Switch "B" Circuit -P0789Transmission Fluid Pressure Sensor/Switch "B" Circuit Range/Performance -P078ATransmission Fluid Pressure Sensor/Switch "B" Circuit Low -P078BTransmission Fluid Pressure Sensor/Switch "B" Circuit High -P078CTransmission Fluid Pressure Sensor/Switch "B" Circuit Intermittent -P078DTransmission Fluid Pressure Sensor/Switch "C" Circuit -P078ETransmission Fluid Pressure Sensor/Switch "C" Circuit Range/Performance -P078FTransmission Fluid Pressure Sensor/Switch "C" Circuit Low -P0790Transmission Fluid Pressure Sensor/Switch "C" Circuit High -P0791Transmission Fluid Pressure Sensor/Switch "C" Circuit Intermittent -P0792Transmission Fluid Pressure Sensor/Switch "D" Circuit -P0793Transmission Fluid Pressure Sensor/Switch "D" Circuit Range/Performance -P0794Transmission Fluid Pressure Sensor/Switch "D" Circuit Low -P0795Transmission Fluid Pressure Sensor/Switch "D" Circuit High -P0796Transmission Fluid Pressure Sensor/Switch "D" Circuit Intermittent -P0797Transmission Fluid Pressure Sensor/Switch "E" Circuit -P0798Transmission Fluid Pressure Sensor/Switch "E" Circuit Range/Performance -P0799Transmission Fluid Pressure Sensor/Switch "E" Circuit Low -P079ATransmission Fluid Pressure Sensor/Switch "E" Circuit High -P079BTransmission Fluid Pressure Sensor/Switch "E" Circuit Intermittent -P079CTransmission Fluid Pressure Sensor/Switch "F" Circuit -P079DTransmission Fluid Pressure Sensor/Switch "F" Circuit Range/Performance -P079ETransmission Fluid Pressure Sensor/Switch "F" Circuit Low -P079FTransmission Fluid Pressure Sensor/Switch "F" Circuit High -P07A0Transmission Fluid Pressure Sensor/Switch "F" Circuit Intermittent -P07A1Transmission Fluid Pressure Sensor/Switch "A" Slip Detected -P07A2Transmission Fluid Pressure Sensor/Switch "A" Slip Detected -P07A3Transmission Fluid Pressure Sensor/Switch "A" Slip Detected -P07A4Transmission Fluid Pressure Sensor/Switch "A" Slip Detected -P07A5Transmission Fluid Pressure Sensor/Switch "B" Slip Detected -P07A6Transmission Fluid Pressure Sensor/Switch "B" Slip Detected -P07A7Transmission Fluid Pressure Sensor/Switch "B" Slip Detected -P07A8Transmission Fluid Pressure Sensor/Switch "B" Slip Detected -P07A9Transmission Fluid Pressure Sensor/Switch "C" Slip Detected -P07AATransmission Fluid Pressure Sensor/Switch "C" Slip Detected -P07ABTransmission Fluid Pressure Sensor/Switch "C" Slip Detected -P07ACTransmission Fluid Pressure Sensor/Switch "C" Slip Detected -P07ADTransmission Fluid Pressure Sensor/Switch "C" Slip Detected -P07AETransmission Fluid Pressure Sensor/Switch "D" Slip Detected -P07AFTransmission Fluid Pressure Sensor/Switch "D" Performance/Stuck Off -P07B0Transmission Fluid Pressure Sensor/Switch "D" Stuck On -P07B1Transmission Fluid Pressure Sensor/Switch "D" Electrical -P07B2Transmission Fluid Pressure Sensor/Switch "D" Intermittent -P07B3Transmission Fluid Pressure Sensor/Switch "E" Circuit/Open -P07B4Transmission Fluid Pressure Sensor/Switch "E" Performance/Stuck Off -P07B5Transmission Fluid Pressure Sensor/Switch "E" Stuck On -P07B6Transmission Fluid Pressure Sensor/Switch "E" Circuit Low -P07B7Transmission Fluid Pressure Sensor/Switch "E" Circuit High -P07B8Transmission Fluid Pressure Sensor/Switch "E" Circuit Intermittent -P07B9Transmission Fluid Pressure Sensor/Switch "B" Circuit Low -P07BATransmission Fluid Pressure Sensor/Switch "B" Circuit High -P07BBTransmission Fluid Pressure Sensor/Switch "B" Circuit Intermittent -P07BCTransmission Fluid Pressure Sensor/Switch "A" Circuit Performance/Low -P07BDTransmission Fluid Pressure Sensor/Switch "A" Circuit High -P07BETransmission Fluid Pressure Sensor/Switch "A"/"B" Correlation -P07BF – P07FFISO/SAE Reserved -P0800Transfer Box Control System, MIL request -malfunctionWiring, poor connection -P0801Reverse Inhibit Control Circuit -malfunctionWiring, poor connection0802Transmission Fluid Pressure Sensor/Switch "A" Circuit/Open -P0803Transmission Fluid Pressure Sensor/Switch "A" Circuit Low -P0804Transmission Fluid Pressure Sensor/Switch "A" Circuit High -P0805Clutch Position Control Circuit -malfunctionWiring, poor connection0806Transmission Fluid Pressure Sensor/Switch "A" Circuit Intermittent -P0807Transmission Fluid Pressure Sensor/Switch "B" Circuit/Open -P0808Transmission Fluid Pressure Sensor/Switch "B" Circuit Low -P0809Transmission Fluid Pressure Sensor/Switch "B" Circuit High -P080ATransmission Fluid Pressure Sensor/Switch "B" Circuit Intermittent -P080BTransmission Park Position Sensor Circuit -P080CTransmission Park Position Sensor/Switch "A" Circuit -P080DTransmission Park Position Sensor/Switch "A" Circuit Low -P080ETransmission Park Position Sensor/Switch "A" Circuit High -P080FTransmission Park Position Sensor/Switch "A" Circuit Intermittent -P0810Transmission Park Position Sensor/Switch "B" Circuit -P0811Transmission Park Position Sensor/Switch "B" Circuit Low -P0812Transmission Park Position Sensor/Switch "B" Circuit High -P0813Transmission Park Position Sensor/Switch "B" Circuit Intermittent -P0814Transmission Park Position Sensor/Switch "C" Circuit -P0815Transmission Park Position Sensor/Switch "C" Circuit Low -P0816Transmission Park Position Sensor/Switch "C" Circuit High -P0817Transmission Park Position Sensor/Switch "C" Circuit Intermittent -P0818Transmission Park Position Sensor/Switch "D" Circuit -P0819Transmission Park Position Sensor/Switch "D" Circuit Low -P081ATransmission Park Position Sensor/Switch "D" Circuit High -P081BTransmission Park Position Sensor/Switch "D" Circuit Intermittent -P081CTransmission Park Position Sensor/Switch "E" Circuit -P081DTransmission Park Position Sensor/Switch "E" Circuit Low -P081ETransmission Park Position Sensor/Switch "E" Circuit High -P081FTransmission Park Position Sensor/Switch "E" Circuit Intermittent -P0820Transmission Park Position Sensor/Switch "F" Circuit -P0821Transmission Park Position Sensor/Switch "F" Circuit Low -P0822Transmission Park Position Sensor/Switch "F" Circuit High -P0823Transmission Park Position Sensor/Switch "F" Circuit Intermittent -P0824Transmission Park Position Sensor/Switch "G" Circuit -P0825Transmission Park Position Sensor/Switch "G" Circuit Low -P0826Transmission Park Position Sensor/Switch "G" Circuit High -P0827Transmission Park Position Sensor/Switch "G" Circuit Intermittent -P0828Transmission Park Position Sensor/Switch "H" Circuit -P0829Transmission Park Position Sensor/Switch "H" Circuit Low -P082ATransmission Park Position Sensor/Switch "H" Circuit High -P082BTransmission Park Position Sensor/Switch "H" Circuit Intermittent -P082CTransmission Fluid Pressure Sensor/Switch "G" Circuit Intermittent -P082DTransmission Fluid Pressure Sensor/Switch "G" Circuit Range/Performance -P082ETransmission Fluid Pressure Sensor/Switch "G" Circuit Low -P082FTransmission Fluid Pressure Sensor/Switch "G" Circuit High -P0830Clutch Pedal Switch "A"/"B" Correlation -P0831Transmission Fluid Pressure Sensor/Switch "A" Circuit -P0832Transmission Fluid Pressure Sensor/Switch "A" Circuit Low -P0833Transmission Fluid Pressure Sensor/Switch "A" Circuit High -P0834Transmission Fluid Pressure Sensor/Switch "A" Circuit Intermittent -P0835Transmission Fluid Pressure Sensor/Switch "B" Circuit -P0836Transmission Fluid Pressure Sensor/Switch "B" Circuit Range/Performance -P0837Transmission Fluid Pressure Sensor/Switch "B" Circuit Low -P0838Transmission Fluid Pressure Sensor/Switch "B" Circuit High -P0839Transmission Fluid Pressure Sensor/Switch "B" Circuit Intermittent -P083ATransmission Fluid Pressure Sensor/Switch "C" Circuit -P083BTransmission Fluid Pressure Sensor/Switch "C" Circuit Range/Performance -P083CTransmission Fluid Pressure Sensor/Switch "C" Circuit Low -P083DTransmission Fluid Pressure Sensor/Switch "C" Circuit High -P083ETransmission Fluid Pressure Sensor/Switch "C" Circuit Intermittent -P083FTransmission Fluid Pressure Sensor/Switch "D" Circuit -P0840Transmission Fluid Pressure Sensor/Switch "D" Circuit Range/Performance -P0841Transmission Fluid Pressure Sensor/Switch "D" Circuit Low -P0842Transmission Fluid Pressure Sensor/Switch "D" Circuit High -P0843Transmission Fluid Pressure Sensor/Switch "D" Circuit Intermittent -P0844Transmission Fluid Pressure Sensor/Switch "A" Circuit -P0845Transmission Fluid Pressure Sensor/Switch "A" Circuit Range/Performance -P0846Transmission Fluid Pressure Sensor/Switch "A" Circuit Low -P0847Transmission Fluid Pressure Sensor/Switch "A" Circuit High -P0848Transmission Fluid Pressure Sensor/Switch "A" Circuit Intermittent -P0849Transmission Fluid Pressure Sensor/Switch "B" Circuit -P084ATransmission Fluid Pressure Sensor/Switch "B" Circuit Range/Performance -P084BTransmission Fluid Pressure Sensor/Switch "B" Circuit Low -P084CTransmission Fluid Pressure Sensor/Switch "B" Circuit High -P084DTransmission Fluid Pressure Sensor/Switch "B" Circuit Intermittent -P084ETransmission Fluid Pressure Sensor/Switch "C" Circuit -P084FTransmission Fluid Pressure Sensor/Switch "C" Circuit Range/Performance -P0850Transmission Fluid Pressure Sensor/Switch "C" Circuit Low -P0851Transmission Fluid Pressure Sensor/Switch "C" Circuit High -P0852Transmission Fluid Pressure Sensor/Switch "C" Circuit Intermittent -P0853Transmission Fluid Pressure Sensor/Switch "D" Circuit -P0854Transmission Fluid Pressure Sensor/Switch "D" Circuit Range/Performance -P0855Transmission Fluid Pressure Sensor/Switch "D" Circuit Low -P0856Transmission Fluid Pressure Sensor/Switch "D" Circuit High -P0857Transmission Fluid Pressure Sensor/Switch "D" Circuit Intermittent -P0858Transmission Fluid Pressure Sensor/Switch "E" Circuit -P0859Transmission Fluid Pressure Sensor/Switch "E" Circuit Range/Performance -P085ATransmission Fluid Pressure Sensor/Switch "E" Circuit Low -P085BTransmission Fluid Pressure Sensor/Switch "E" Circuit High -P085CTransmission Fluid Pressure Sensor/Switch "E" Circuit Intermittent -P085DTransmission Fluid Pressure Sensor/Switch "F" Circuit -P085ETransmission Fluid Pressure Sensor/Switch "F" Circuit Range/Performance -P085FTransmission Fluid Pressure Sensor/Switch "F" Circuit Low -P0860Trans

P0C30Hybrid Battery Pack State of Charge High -P0C31Inverter "B" Cooling System Performance -P0C32Hybrid Battery Cooling System Performance -P0C33Hybrid Battery Temperature Sensor "F" Circuit -P0C34Hybrid Battery Temperature Sensor "F" Circuit Range/Performance -P0C35Hybrid Battery Temperature Sensor "F" Circuit Low - P0C36Hybrid Battery Temperature Sensor "F" Circuit High -P0C37Hybrid Battery Temperature Sensor "F" Circuit Intermittent/Erratic -P0C38DC/DC Converter Temperature Sensor "A" Circuit -P0C39DC/DC Converter Temperature Sensor "A" Range/Performance -P0C3ADC/DC Converter Temperature Sensor "A" Low -P0C3BDC/DC Converter Temperature Sensor "A" High -P0C3CDC/DC Converter Temperature Sensor "A" Intermittent/Erratic -P0C3DDC/DC Converter Temperature Sensor "B" Circuit -P0C3EDC/DC Converter Temperature Sensor "B" Range/Performance -P0C3FDC/DC Converter Temperature Sensor "B" Low -P0C40DC/DC Converter Temperature Sensor "B" High - P0C41DC/DC Converter Temperature Sensor "B" Intermittent/Erratic -P0C42Hybrid Battery Pack Coolant Temperature Sensor Circuit -P0C43Hybrid Battery Pack Coolant Temperature Sensor Circuit Range/Performance -P0C44Hybrid Battery Pack Coolant Temperature Sensor Circuit Low -P0C45Hybrid Battery Pack Coolant Temperature Sensor Circuit High -P0C46Hybrid Battery Pack Coolant Temperature Sensor Circuit Intermittent/Erratic -P0C47Hybrid Battery Pack Coolant Pump Control Circuit/Open -P0C48Hybrid Battery Pack Coolant Pump Control Circuit Low -P0C49Hybrid Battery Pack Coolant Pump Control Circuit High -P0C4AHybrid Battery Pack Coolant Pump Control Performance -P0C4BHybrid Battery Pack Coolant Pump Supply Voltage Circuit/Open -P0C4CHybrid Battery Pack Coolant Pump Supply Voltage Circuit Low -P0C4DHybrid Battery Pack Coolant Pump Supply Voltage Circuit High -P0C4EDrive Motor "A" Position Exceeded Learning Limit -P0C4FDrive Motor "B" Position Exceeded Learning Limit - P0C50Drive Motor "A" Position Sensor Circuit "A" -P0C51Drive Motor "A" Position Sensor Circuit "A" Range/Performance -P0C52Drive Motor "A" Position Sensor Circuit "A" Low -P0C53Drive Motor "A" Position Sensor Circuit "A" High -P0C54Drive Motor "A" Position Sensor Circuit "A" Intermittent/Erratic -P0C55Drive Motor "B" Position Sensor Circuit "A" -P0C56Drive Motor "B" Position Sensor Circuit "A" Range/Performance -P0C57Drive Motor "B" Position Sensor Circuit "A" Low -P0C58Drive Motor "B" Position Sensor Circuit "A" High -P0C59Drive Motor "B" Position Sensor Circuit "A" Intermittent/Erratic -P0C5ADrive Motor "A" Position Sensor Circuit "B" -P0C5BDrive Motor "A" Position Sensor Circuit "B" Range/Performance -P0C5CDrive Motor "A" Position Sensor Circuit "B" Low -P0C5DDrive Motor "A" Position Sensor Circuit "B" High -P0C5EDrive Motor "A" Position Sensor Circuit "B" Intermittent/Erratic -P0C5FDrive Motor "B" Position Sensor Circuit "B" -P0C60Drive Motor "B" Position Sensor Circuit "B" Range/Performance - P0C61Drive Motor "B" Position Sensor Circuit "B" Low -P0C62Drive Motor "B" Position Sensor Circuit "B" High -P0C63Drive Motor "B" Position Sensor Circuit "B" Intermittent/Erratic -P0C64Generator Position Sensor Circuit "A" -P0C65Generator Position Sensor Circuit "A" Range/Performance -P0C66Generator Position Sensor Circuit "A" Low - P0C67Generator Position Sensor Circuit "A" High -P0C68Generator Position Sensor Circuit "A" Intermittent/Erratic -P0C69Generator Position Sensor Circuit "B" -P0C6AGenerator Position Sensor Circuit "B" Range/Performance -P0C6BGenerator Position Sensor Circuit "B" Low -P0C6CGenerator Position Sensor Circuit "B" High -P0C6DGenerator Position Sensor Circuit "B" Intermittent/Erratic -P0C6EHybrid Battery Temperature Sensor "A"/"B" Correlation -P0C6FHybrid Battery Temperature Sensor "B"/"C" Correlation -P0C70Hybrid Battery Temperature Sensor "C"/"D" Correlation -P0C71Hybrid Battery Temperature Sensor "D"/"E" Correlation -P0C72Hybrid Battery Temperature Sensor "E"/"F" Correlation -P0C73Motor Electronics Coolant Pump "A" Control Performance -P0C74Motor Electronics Coolant Pump "B" Control Performance -P0C75Hybrid Battery System Discharge Time Too Short -P0C76Hybrid Battery System Discharge Time Too Long -P0C77Hybrid Battery System Precharge Time Too Short -P0C78Hybrid Battery System Precharge Time Too Long -P0C79Drive Motor "A" Inverter Voltage Too High -P0C7ADrive Motor "B" Inverter Voltage Too High -P0C7BGenerator Inverter Voltage Too High -P0C7CHybrid Battery Temperature Sensor "G" Circuit -P0C7DHybrid Battery Temperature Sensor "G" Range/Performance -P0C7EHybrid Battery Temperature Sensor "G" Circuit Low -P0C7FHybrid Battery Temperature Sensor "G" Circuit High -P0C80Hybrid Battery Temperature Sensor "G" Circuit Intermittent/Erratic -P0C81Hybrid Battery Temperature Sensor "H" Circuit -P0C82Hybrid Battery Temperature Sensor "H" Range/Performance -P0C83Hybrid Battery Temperature Sensor "H" Circuit Low -P0C84Hybrid Battery Temperature Sensor "H" Circuit High -P0C85Hybrid Battery Temperature Sensor "H" Circuit Intermittent/Erratic -P0C86Hybrid Battery Temperature Sensor "F"/"G" Correlation -P0C87Hybrid Battery Temperature Sensor "G"/"H" Correlation ISO/SAE Reserved -P0C88 – P0CFFISO/SAE Reserved -P0D00 – P0D99 (ISO/SAE Reserved)P0D00ISO/SAE Reserved -P0E00 – P0E99 (ISO/SAE Reserved)P0E00ISO/SAE Reserved -P0F00 – P0F99 (ISO/SAE Reserved)P0F00ISO/SAE Reserved -P0FFFTime Reference High Res Signal A Erratic Pulses 1 -circuit malfunctionWiring, H025, ECMP0143 Heated oxygen sensor (HO2S) 3, bank 1 -low voltageExhaust leak, wiring short to earth, H028, ECMP0144 Heated oxygen sensor(H025) 3, bank 1 -high voltageWiring short to positive, H025, ECMP0145 Heated oxygen sensor (HO2S) 3, bank 1 -slow responseHeating inoperative, wiring, H028P0146 Heated oxygen sensor (HO2S) 3, bank 1 -no activity detectedWiring, H028, ECMP0147 Heated oxygen sensor (HO2S) 3, bank 1, heater control circuit malfunctionWiring, H028, ECMP0148 Fuel delivery errorFuel pump/fuel injection pumpP0149 Fuel timing errorFuel pump/fuel injection pumpP014AO2 Sensor Delayed Response - Rich to Lean -P014BO2 Sensor Delayed Response - Lean to Rich -P014CO2 Sensor Slow Response - Rich to Lean -P014DO2 Sensor Slow Response - Lean to Rich -P014EO2 Sensor Slow Response - Rich to Lean -P014FO2 Sensor Slow Response - Lean to Rich -P0150 Heated oxygen sensor (HO2S) 1, bank 2 -circuit malfunctionWiring, H028, ECMP0151 Heated oxygen sensor (HO2S) 1 , bank 2 -low voltageExhaust leak, wiring short to earth, H028, ECMP0152 Heated oxygen sensor (HO2S) 1, bank 2 - - -high voltageWiring short to positive, H028, ECMP0153 Heated oxygen sensor (HO2S) 1, bank 2 -slow responseHeating inoperative, wiring, H028P0154 Heated oxygen sensor (H025) 1, bank 2 no activity detectedWiring, H028, ECMP0155 Heated oxygen sensor (HO2S) 1, bank 2, heater control circuit malfunctionWiring, H028, ECMP0156 Heated oxygen sensor (H025) 2, bank 2 circuit malfunctionHeating inoperative, wiring, H028, ECMP0157 Heated oxygen sensor (HO2S) 2, bank 2 -low voltageExhaust leak, wiring short to earth, H028, ECMP0158 Heated oxygen sensor (h025) 2, bank 2, -high voltageWiring short to positive, HO2S, ECMP0159 Heated oxygen sensor (H025) 2, bank 2 -Slow responseHeating inoperative, wiring, H028P015AO2 Sensor Delayed Response - Rich to Lean -P015BO2 Sensor Delayed Response – Lean to RichDefective O2 sensor(s), Wiring, Defective catalytic converter, Engine exhaust leaksP015CO2 Sensor Delayed Response - Rich to Lean -P015DO2 Sensor Delayed Response - Lean to Rich -P015EISO/SAE Reserved -P015FISO/SAE Reserved -P0160 Heated oxygen sensor (H025) 2, bank 2 -no activity detectedWiring, H028, ECMP0161 Heated oxygen sensor (HO2S) 2, bank 2, heater control -circuit malfunctionWiring, HO2S, ECMP0162 Heated oxygen sensor (HO2S) 3, bank 2 -circuit malfunctionWiring, HO2S, ECMP0163 Heated oxygen sensor (HO2S) 3, bank 2 -low voltageExhaust leak, wiring short to earth, HO2S, ECMP0164 Heated oxygen sensor (HO2S) 3, bank 2 -high voltageWiring short to positive, HO2S, ECMP0165 Heated oxygen sensor (HO2S) 3, bank 2 -slow responseHeating inoperative, wiring, HO2SP0166 Heated oxygen sensor (HO2S) 3, bank 2 -no activity detectedWiring, HO2S, ECMP0167 Heated oxygen sensor (HO2S) 3, bank 2, heater control circuit malfunctionWiring, HO2S, ECMP0168 Fuel temperature too highWiring, fuel temperature sensor, mechanical faultP0169 Incorrect fuel compositionWiring, fuel composition sensor, mechanical faultP016AISO/SAE Reserved -P016BISO/SAE Reserved -P016CISO/SAE Reserved - P016DISO/SAE Reserved -P016EISO/SAE Reserved -P016FISO/SAE Reserved -P0170 Fuel trim (FT), bank 1 -malfunctionIntake leak, AIR system, fuel pressure/pump, injector(s), EVAP canister purge valve, HO2SP0171System too lean, bank 1Intake/exhaust leak, AIR system, MAFNAF sensor, fuel pressure/pump, injector(s), HO2SP0172 System too rich, bank 1Intake blocked, EVAP canister purge valve, fuel pressure, EGR system, injector(s), HO2SP0173 Fuel trim (FT), bank 2 -malfunctionIntake leak, AIR system, fuel pressure/pump, injector(s), EVAP canister purge valve, HO2SP0174 System too lean, bank 2Intake/exhaust leak, fuel pressure/pump, injector(s), AIR system, hose connection(s)P0175 System too rich, bank 2Intake blocked, EV AP canister purge valve, fuel pressure, EGR system, injector(s), HO2SP0176 Fuel composition sensor -circuit malfunctionWiring, fuel composition sensor, ECMP0177 Fuel composition sensor -range/performance problemFuel composition sensorP0178 Fuel composition sensor -low inputWiring short to earth, fuel composition sensor, ECMP0179 Fuel composition sensor -high inputWiring short to positive, fuel composition sensor, ECMP017AISO/SAE Reserved -P017BISO/SAE Reserved -P017CISO/SAE Reserved -P017DISO/SAE Reserved -P017EISO/SAE Reserved -P017FISO/SAE Reserved -P0180 Fuel temperature sensor A - circuit malfunctionWiring, fuel temperature sensor, ECMP0181 Fuel temperature sensor A -range/performance problemFuel temperature sensorP0182 Fuel temperature sensor A -low inputWiring short to earth, fuel temperature sensor, ECMP0183 Fuel temperature sensor A -high inputWiring short to positive, fuel temperature sensor, ECMP0184 Fuel temperature sensor A -circuit intermittentWiring, poor connection, fuel temperature sensor, ECMP0185 Fuel temperature sensor B -circuit malfunctionWiring, fuel temperature sensor, ECMP0186 Fuel temperature sensor B -range/performance problemFuel temperature sensorP0187 Fuel temperature sensor B -low inputWiring short to earth, fuel temperature sensor, ECMP0188 Fuel temperature sensor B -high inputWiring short to positive, fuel temperature sensor, ECMP0189 Fuel temperature sensor B -circuit intermittentWiring, poor connection, fuel temperature sensor, ECMP018AFuel Pressure Sensor "B" CircuitFuel pressure sensor, Wiring, PCM failureP018BFuel Pressure Sensor "B" Circuit Range/PerformanceFuel pressure sensor, Wiring, PCM failureP018CFuel Pressure Sensor "B" Circuit LowFuel pressure sensor, Wiring, PCM failureP018DFuel Pressure Sensor "B" Circuit HighFuel pressure sensor, Wiring, PCM failureP018EFuel Pressure Sensor "B" Circuit Intermittent/ErraticFuel pressure sensor, Wiring, PCM failureP018FFuel System Over Pressure Relief Valve Frequent Activation -P0190 Fuel rail pressure (FRP) sensor -circuit malfunctionWiring, fuel rail pressure sensor, ECMP0191 Fuel rail pressure (FRP) sensor -range/performance problemWiring, FRP sensorP0192Fuel rail pressure (FRP) sensor -low inputWiring short to earth, FRP sensorP0193 Fuel rail pressure (FRP) sensor -high inputWiring short to positive, FRP sensorP0194 Fuel rail pressure (FRP) sensor -circuit intermittentWiring, poor connection, FRP sensorP0195 Engine oil temperature (EOT) sensor -circuit malfunctionWiring, EOT sensor, ECMP0196 Engine oil temperature (EOT) sensorEOT sensorP0197 Engine oil temperature (EOT) sensor -low inputWiring short to earth, EOT sensorP0198 Engine oil temperature (EOT) sensor -high inputWiring short to positive, EOT sensorP0199 Engine oil temperature (EOT) sensor -circuit intermittentWiring, poor connection, EOT sensor, ECMP019A – P01FFISO/SAE Reserved -P01C1Fuel Rail Pressure Sensor Circuit High Bank 2P0200 – P0299 (Fuel and air metering – injector circuit)P0200Injector -circuit malfunctionWiring, injector, ECMP0201 Injector 1 -circuit malfunctionWiring, injector, ECMP0202 Injector 2 -circuit malfunctionWiring, injector, ECMP0203 Injector 3 -circuit malfunctionWiring, injector, ECMP0204 Injector 4 -circuit malfunctionWiring, injector, ECMP0205 Injector 5 -circuit malfunctionWiring, injector, ECMP0206 Injector 6 -circuit malfunctionWiring, injector, ECMP0207 Injector 7 -circuit malfunctionWiring, injector, ECMP0208 Injector 8 -circuit malfunctionWiring, injector, ECMP0209 Injector 9 -circuit malfunctionWiring, injector, ECMP020ACylinder 1 Injection Timing -P020BCylinder 2 Injection Timing -P020CCylinder 3 Injection Timing -P020DCylinder 4 Injection Timing -P020ECylinder 5 Injection Timing -P020FCylinder 6 Injection Timing -P0210 Injector 10 -circuit malfunctionWiring, injector, ECMP0211 Injector 11 -circuit malfunctionWiring, injector, ECMP0212 Injector 12 -circuit malfunctionWiring, injector, ECMP0213 Cold start injector 1 -circuit malfunctionWiring, cold start injector, ECMP0214 Cold start injector 2 -circuit malfunctionWiring, cold start injector, ECMP0215 Fuel shut -off solenoid -circuit malfunctionWiring, fuel shut -off solenoid, ECMP0216 Fuel injection timing control -circuit malfunctionWiring, fuel injection timing control solenoid, ECMP0217 Engine over temperature conditionWiring, cooling system, coolant thermostat, ECT sensorP0218 Transmission over temperature conditionWiring, TFT sensor, ECMP0219 Engine over speed conditionIncorrect gear changeP021ACylinder 7 Injection Timing -P021BCylinder 8 Injection Timing -P021CCylinder 9 Injection Timing -P021DCylinder 10 Injection Timing - P021ECylinder 11 Injection Timing -P021FCylinder 12 Injection Timing -P0220 Throttle position (TP) sensor B/accelerator pedal position (APP) sensor B -circuit malfunctionWiring, TP/APP sensor, ECMP0221 Throttle position (TP) sensor B/accelerator pedal position (APP) sensor B -range/performance problemAccelerator cable adjustment, TP/APP sensorP0222 Throttle position (TP) sensor B/accelerator pedal position (APP) sensor B -low inputWiring short to earth, TP/APP sensor, ECMP0223 Throttle position (TP) sensor B/accelerator pedal position (APP) sensor B -high inputWiring short to positive, TP/APP sensor, ECMP0224 Throttle position (TP) switch B/accelerator pedal position (APP) sensor B -circuit intermittentWiring, poor connection, TP/APP sensor, ECM - - -P0225 Throttle position (TP) sensor C/accelerator pedal position (APP) sensor C -circuit malfunctionWiring, TP/APP sensor, ECMP0226 Throttle position (TP) sensor C/accelerator pedal position (APP) sensor C -range/performance problemAccelerator cable adjustment, TP/APP sensorP0227 Throttle position (TP) sensor C/accelerator pedal position (APP) sensor C -low inputWiring short to earth, TP/APP sensor, ECMP0228 Throttle position (TP) sensor C/accelerator pedal position (APP) sensor C -high inputWiring short to positive, TP/APP sensor, ECMP0229 Throttle position (TP) sensor C/accelerator pedal position (APP) sensor C -circuit intermittentWiring, poor connection, TP/APP sensor, ECMP022ACharge Air Cooler Bypass Control "A" Circuit /Open -P022BCharge Air Cooler Bypass Control "A" Circuit Low -P022CCharge Air Cooler Bypass Control "A" Circuit High -P022DCharge Air Cooler Bypass Control "B" Circuit /Open -P022ECharge Air Cooler Bypass Control "B" Circuit Low -P022FCharge Air Cooler Bypass Control "B" Circuit High -P0230 Fuel pump relay -circuit malfunctionWiring, fuel pump relay, ECMP0231 Fuel pump relay -circuit lowWiring short to earth, fuel pump relay, ECMP0232 Fuel pump relay -circuit highWiring short to positive, fuel pump relay, ECMP0233 Fuel pump relay -circuit intermittentWiring, poor connection, fuel pump relay, ECMP0234 Engine boost condition -limit exceededHose connection(s), wiring, TC wastegate regulating valve, TC wastegateP0235 Manifold absolute pressure (MAP) sensor A, TC system circuit malfunctionWiring, MAP sensor, ECMP0236 Manifold absolute pressure (MAP) sensor A, TC system range/performance problemIntake/exhaust leak, hose connection(s), MAP sensorP0237 Manifold absolute pressure (MAP) sensor A, TC system low inputWiring short to earth, MAP sensor, ECMP0238 Manifold absolute pressure (MAP) sensor A, TC system high inputWiring short to positive, MAP sensor, ECMP0239 Manifold absolute pressure (MAP) sensor B, TC system circuit malfunctionWiring, MAP sensor, ECMP023ACharge Air Cooler Coolant Pump Control Circuit/Open -P023BCharge Air Cooler Coolant Pump Control Circuit Low -P023CCharge Air Cooler Coolant Pump Control Circuit High -P023DManifold Absolute Pressure - Turbocharger/Supercharger Boost Sensor "A" Correlation - P023EManifold Absolute Pressure - Turbocharger/Supercharger Boost Sensor "B" Correlation -P023FFuel Pump Secondary Circuit/Open -P0240 Manifold absolute pressure (MAP) sensor B, TC system range/performance problemIntake/exhaust leak, hose connection(s), MAP sensorP0241 Manifold absolute pressure (MAP) sensor B, TC system low inputWiring short to earth, MAP sensor, ECMP0242 Manifold absolute pressure (MAP) sensor B, TC system high inputWiring short to positive, MAP sensor, ECMP0243 Turbocharger (TC) wastegate regulating valve A circuit malfunctionWiring, TC wastegate regulating valve, ECMP0244 Turbocharger (TC) wastegate regulating valve A range/performance problemTC wastegate regulating valveP0245 Turbocharger (TC) wastegate regulating valve A circuit lowWiring short to earth, TC wastegate regulating valve, ECMP0246 Turbocharger (TC) wastegate regulating valve A circuit highWiring short to positive, TC wastegate regulating valve, ECMP0247 Turbocharger (TC) wastegate regulating valve B -circuit malfunctionWiring, TC wastegate regulating valve, ECMP0248 Turbocharger (TC) wastegate regulating valve B -range/performance problemTC wastegate regulating valveP0249 Turbocharger (TC) wastegate regulating valve B -circuit lowWiring short to earth, TC wastegate regulating valve, ECMP024ACharge Air Cooler Bypass Control "A" Range/Performance -P024BCharge Air Cooler Bypass Control "A" Stuck -P024CCharge Air Cooler Bypass Position Sensor "A" Circuit -P024DCharge Air Cooler Bypass Position Sensor "A" Circuit Range/Performance -P024ECharge Air Cooler Bypass Position Sensor "A" Circuit Low -P024FCharge Air Cooler Bypass Position Sensor "A" Circuit High -P0250 Turbocharger (TC) wastegate regulating valve B -circuit highWiring short to positive, TC wastegate regulating valve, ECMP0251 Injection pump A, rotor/cam -circuit malfunctionWiring, injection pump, ECMP0252 Injection pump A, rotor/cam -range/performance problemInjection pumpP0253 Injection pump A, rotor/cam - circuit lowWiring short to earth, injection pump, ECMP0254 Injection pump A, rotor/cam -circuit highWiring short to positive, injection pump, ECMP0255 Injection pump A, rotor/cam -circuit intermittentWiring, poor connection, injection pump, ECMP0256 Injection pump 8, rotor/cam -circuit malfunctionWiring, injection pump, ECMP0257 Injection pump 8, rotor/cam -range/performance problemInjection pumpP0258 Injection pump B, rotor/cam -circuit lowWiring short to earth, injection pump, ECMP0259 Injection pump 8, rotor/cam -circuit highWiring short to positive, injection pump, ECMP025AFuel Pump Module Control Circuit/Open -P025BFuel Pump Module Control Circuit Range/Performance -P025CFuel Pump Module Control Circuit Low -P025DFuel Pump Module Control Circuit High -P025EISO/SAE Reserved -P025FISO/SAE Reserved -P0260 Injection pump 8, rotor/cam -circuit intermittentWiring, poor connection, injection pump, ECMP0261 Injector 1 -circuit lowWiring short to earth, injector, ECMP0262 Injector 1 -circuit highWiring short to positive, injector, ECMP0263 Cylinder 1 -contribution/balance faultWiring, fuel system, ECMP0264 Injector 2 -circuit lowWiring short to earth, injector, ECMP0265 Injector 2 -circuit highWiring short to positive, injector, ECMP0266 Cylinder 2 -contribution/balance faultWiring, fuel system, ECMP0267 Injector 3 -circuit lowWiring short to earth, injector, ECMP0268 Injector 3 -circuit highWiring short to positive, injector, ECMP0269 Cylinder 3 -contribution/balance faultWiring, fuel system, ECMP026AISO/SAE Reserved -P026BISO/SAE Reserved -P026CISO/SAE Reserved -P026DISO/SAE Reserved -P026EISO/SAE Reserved -P026FISO/SAE Reserved -P0270 Injector 4 -circuit lowWiring short to earth, injector, ECMP0271 Injector 4 -circuit highWiring short to positive, injector, ECMP0272 Cylinder 4 -contribution/balance faultWiring, fuel system, ECMP0273 Injector 5 -circuit lowWiring short to earth, injector, ECMP0274 Injector 5 -circuit highWiring short to positive, injector, ECMP0275 Cylinder 5 - contribution/balance faultWiring, fuel system, ECMP0276 Injector 6 -circuit lowWiring short to earth, injector, ECMP0277 Injector 6 -circuit highWiring short to positive, injector, ECMP0278Cylinder 6 -contribution/balance faultWiring, fuel system, ECMP0279 Injector 7 -circuit lowWiring short to earth, injector, ECMP027AISO/SAE Reserved - P027BISO/SAE Reserved -P027CISO/SAE Reserved -P027DISO/SAE Reserved -P027EISO/SAE Reserved -P027FISO/SAE Reserved -P0280 Injector 7 -circuit highWiring short to positive, injector, ECMP0281 Cylinder 7 -contribution/balance faultWiring, fuel system, ECMP0282 Injector 8 -circuit lowWiring short to earth, injector, ECMP0283 Injector 8 - circuit highWiring short to positive, injector, ECMP0284 Cylinder 8 -contribution/balance faultWiring, fuel system, ECMP0285 Injector 9 -circuit lowWiring short to earth, injector, ECMP0286 Injector 9 -circuit highWiring short to positive, injector, ECMP0287 Cylinder 9 -contribution/balance faultWiring, fuel system, ECMP0288 Injector 10 -circuit lowWiring short to earth, injector, ECMP0289 Injector 10 -circuit highWiring short to positive, injector, ECMP028AISO/SAE Reserved -P028BISO/SAE Reserved -P028CISO/SAE Reserved -P028DISO/SAE Reserved -P028EISO/SAE Reserved -P028FISO/SAE Reserved -P0290 Cylinder 10 -contribution/balance faultWiring, fuel system, ECMP0291 Injector 11 -circuit lowWiring short to earth, injector, ECMP0292 Injector 11 -circuit highWiring short to positive, injector, ECMP0293 Cylinder 11 -contribution/balance faultWiring, fuel system, ECMP0294 Injector 12 -circuit lowWiring short to earth, injector, ECMP0295 Injector 12 -circuit highWiring short to positive, injector, ECMP0296 Cylinder 12 -contribution/balance faultWiring, fuel system, ECMP0297 Vehicle over -speed conditionWiring, VSS, mechanical faultP0298 Engine oil temperature too highWiring, EOT sensor, mechanical faultP0299 Turbo/super charger -low boostMechanical faultP029ACylinder 1 - Fuel Trim at Max Limit -P029BCylinder 1 - Fuel Trim at Min Limit - P029CCylinder 1 - Injector Restricted -P029DCylinder 1 - Injector Leaking -P029ECylinder 2 - Fuel Trim at Max Limit -P029FCylinder 2 - Fuel Trim at Min Limit -P02A0Cylinder 2 - Injector Restricted -P02A1Cylinder 2 - Injector Leaking -P02A2Cylinder 3 - Fuel Trim at Max Limit -P02A3Cylinder 3 - Fuel Trim at Min Limit -P02A4Cylinder 3 - Injector Restricted -P02A5Cylinder 3 - Injector Leaking -P02A6Cylinder 4 - Fuel Trim at Max Limit -P02A7Cylinder 4 - Fuel Trim at Min Limit -P02A8Cylinder 4 - Injector Restricted -P02A9Cylinder 4 - Injector Leaking -P02AACylinder 5 - Fuel Trim at Max Limit -P02ABCylinder 5 - Fuel Trim at Min Limit -P02ACCylinder 5 - Injector Restricted -P02ADCylinder 5 - Injector Leaking -P02AECylinder 6 - Fuel Trim at Max Limit -P02AFCylinder 6 - Fuel Trim at Min Limit -P02B0Cylinder 6 - Injector Restricted -P02B1Cylinder 6 - Injector Leaking -P02B2Cylinder 7 - Fuel Trim at Max Limit -P02B3Cylinder 7 - Fuel Trim at Min Limit -P02B4Cylinder 7 - Injector Restricted -P02B5Cylinder 7 - Injector Leaking - P02B6Cylinder 8 - Fuel Trim at Max Limit -P02B7Cylinder 8 - Fuel Trim at Min Limit -P02B8Cylinder 8 - Injector Restricted -P02B9Cylinder 8 - Injector Leaking -P02BACylinder 9 - Fuel Trim at Max Limit -P02BBCylinder 9 - Fuel Trim at Min Limit -P02BCCylinder 9 - Injector Restricted -P02BDCylinder 9 - Injector Leaking -P02BECylinder 10 - Fuel Trim at Max Limit -P02BFCylinder 10 - Fuel Trim at Min Limit -P02C0Cylinder 10 - Injector Restricted -P02C1Cylinder 10 - Injector Leaking -P02C2Cylinder 11 - Fuel Trim at Max Limit -P02C3Cylinder 11 - Fuel Trim at Min Limit -P02C4Cylinder 11 - Injector Restricted -P02C5Cylinder 11 - Injector Leaking -P02C6Cylinder 12 - Fuel Trim at Max Limit - P02C7Cylinder 12 - Fuel Trim at Min Limit -P02C8Cylinder 12 - Injector Restricted -P02C9Cylinder 12 - Injector Leaking -P02CATurbocharger/Supercharger "B" Overboost Condition -P02CBTurbocharger/Supercharger "B" Underboost Condition -P02CCCylinder 1 Fuel Injector Offset Learning At Min Limit -P02CDCylinder 1 Fuel Injector Offset Learning At Max Limit -P02CECylinder 2 Fuel Injector Offset Learning At Min Limit -P02CFCylinder 2 Fuel Injector Offset Learning At Max Limit -P02D0Cylinder 3 Fuel Injector Offset Learning At Min Limit -P02D1Cylinder 3 Fuel Injector Offset Learning At Max Limit -P02D2Cylinder 4 Fuel Injector Offset Learning At Min Limit -P02D3Cylinder 4 Fuel Injector Offset Learning At Max Limit -P02D4Cylinder 5 Fuel Injector Offset Learning At Min Limit -P02D5Cylinder 5 Fuel Injector Offset Learning At Max Limit -P02D6Cylinder 6 Fuel Injector Offset Learning At Min Limit -P02D7Cylinder 6 Fuel Injector Offset Learning At Max Limit -P02D8Cylinder 7 Fuel Injector Offset Learning At Min Limit - P02D9Cylinder 7 Fuel Injector Offset Learning At Max Limit -P02DACylinder 8 Fuel Injector Offset Learning At Min Limit -P02DBCylinder 8 Fuel Injector Offset Learning At Max Limit -P02DCCylinder 9 Fuel Injector Offset Learning At Min Limit -P02DDCylinder 9 Fuel Injector Offset Learning At Max Limit -P02DECylinder 10 Fuel Injector Offset Learning At Min Limit -P02DFCylinder 10 Fuel Injector Offset Learning At Max Limit -P02E0Diesel Intake Air Flow Control Circuit/Open -P02E1Diesel Intake Air Flow Control Performance -P02E2Diesel Intake Air Flow Control Circuit Low -P02E3Diesel Intake Air Flow Control Circuit High -P02E4Diesel Intake Air Flow Control Stuck Open - P02E5Diesel Intake Air Flow Control Stuck Closed -P02E6Diesel Intake Air Flow Position Sensor Circuit -P02E7Diesel Intake Air Flow Position Sensor Circuit Range/Performance -P02E8Diesel Intake Air Flow Position Sensor Circuit Low -P02E9Diesel Intake Air Flow Position Sensor Circuit HighWiring, IAF Position Sensor, PCMP02EADiesel Intake Air Flow Position Sensor Circuit Intermittent/Erratic -P02EBDiesel Intake Air Flow Control Motor Current Range/Performance -P02ECDiesel Intake Air Flow Control System - High Air Flow Detected -P02EDDiesel Intake Air Flow Control System - Low Air Flow Detected -P02EECylinder 1 Injector Circuit Range/Performance -P02EFCylinder 2 Injector Circuit Range/Performance -P02F0Cylinder 3 Injector Circuit Range/Performance -P02F1Cylinder 4 Injector Circuit Range/Performance -P02F2Cylinder 5 Injector Circuit Range/Performance -P02F3Cylinder 6 Injector Circuit Range/Performance -P02F4Cylinder 7 Injector Circuit Range/Performance -P02F5Cylinder 8 Injector Circuit Range/Performance -P02F6Cylinder 9 Injector Circuit Range/Performance -P02F7Cylinder 10 Injector Circuit Range/Performance -P02F8Cylinder 11 Injector Circuit Range/Performance -P02F9Cylinder 12 Injector Circuit Range/Performance -P02FADiesel Intake Air Flow Position Sensor Minimum/Maximum Stop Performance -P02FBISO/SAE Reserved -P02FCISO/SAE Reserved -P02FDISO/SAE Reserved -P02FEISO/SAE Reserved -P02FFISO/SAE Reserved -P0300 – P0399 (Ignition system or misfire)P0300Random/multiple cylinder(s) -misfire detectedSpark plug(s), HT lead(s), injector(s), ignition coil(s), low compression, wiringP0301Cylinder 1 -misfire detectedEngine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECMP0302 Cylinder 2 -misfire detectedEngine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECMP0303 Cylinder 3 -misfire detectedEngine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECMP0304 Cylinder 4 -misfire detectedEngine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECMP0305 Cylinder 5 -misfire detectedEngine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECMP0306 Cylinder 6 -misfire detectedEngine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECMP0307 Cylinder 7 -misfire detectedEngine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECMP0308 Cylinder 8 -misfire detectedEngine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECMP0309 Cylinder 9 -misfire detectedEngine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECMP030AISO/SAE Reserved -P030BISO/SAE Reserved -P030CISO/SAE Reserved -P030DISO/SAE Reserved -P030EISO/SAE Reserved -P030FISO/SAE Reserved -P0310 Cylinder 10 -misfire detectedEngine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECMP0311 Cylinder 11 -misfire detectedEngine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECMP0312 Cylinder 12 -misfire detectedEngine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECMP0313 Misfire detected -low fuel levelFuel system, mechanical faultP0314 Single cylinder misfire -cylinder not specifiedEngine mechanical fault, wiring, ignition/fuel system, injectorP0315 Crankshaft position system -variation not learnedEngine mechanical fault, wiringP0316 Misfire detected during start -up -first 1000 revolutionsEngine mechanical fault, wiring, ignition/fuel system, injectorP0317 Rough road hardware not presentWiring, ECMP0318 Rough road sensor signal A -circuit malfunctionWiring, rough road sensor A, mechanical faultP0319 Rough road sensor signal B -circuit malfunctionWiring, rough road sensor B, mechanical faultP031AISO/SAE Reserved -P031BISO/SAE Reserved -P031CISO/SAE Reserved -P031DISO/SAE Reserved -P031EISO/SAE Reserved -P031FISO/SAE Reserved -P0320 Crankshaft position (CKP) sensor/engine speed (RPM) sensor circuit malfunctionWiring, CKP/RPM sensor, ECMP0321 Crankshaft position (CKP) sensor/engine speed (RPM) sensor range/performance problemAir gap, metal particle contamination, insecure sensor/rotor, wiring, CKP/RPM sensorP0322 Crankshaft position (CKP) sensor/engine speed (RPM) sensor no signalWiring, CKP/RPM sensor, ECMP0323 Crankshaft position (CKP) sensor/engine speed (RPM) sensor circuit intermittentWiring, poor connection, CKP/RPM sensor, ECMP0324 Knock control system errorWiring, poor connection, KS, ECMP0325 Knock sensor (KS) 1 , bank 1 -circuit malfunctionWiring, poor connection, KSP0326 Knock sensor (KS) 1 , bank 1 -range/performance problemWiring, KS incorrectly tightened, KSP0327 Knock sensor (KS) 1, bank 1 -low inputInsecure KS, poor connection, wiring short to earth, incorrectly tightened, KS, ECMP0328 Knock sensor (KS) 1, bank 1 -high inputWiring short to positive, KS incorrectly tightened, KS, ECMP0329 Knock sensor (KS) 1, bank 1 -circuit intermittentWiring, poor connection, KS, ECMP032AKnock Sensor 3 Circuit -P032BKnock Sensor 3 Circuit Range/Performance -P032CKnock Sensor 3 Circuit Low -P032DKnock Sensor 3 Circuit High -P032EKnock Sensor 3 Circuit Intermittent -P032FISO/SAE Reserved -P0330 Knock sensor (KS) 2, bank 2 -circuit malfunctionWiring, KS, ECMP0331 Knock sensor (KS) 2, bank 2 -range/performance problemWiring, KS incorrectly tightened, KSP0332 Knock sensor (KS) 2, bank 2 -low inputInsecure KS, poor connection, wiring short to earth, KS incorrectly tightened, KS, ECMP0333 Knock sensor (KS) 2, bank 2 -high inputWiring short to positive, KS incorrectly tightened, KS, ECMP0334 Knock sensor (KS) 2, bank 2 -circuit intermittentWiring, poor connection, KS, ECMP0335 Crankshaft position (CKP) sensor -circuit malfunctionWiring, CKP sensor, ECMP0336 Crankshaft position (CKP) sensor -range/performance problemInsecure sensor/rotor, air gap, wiring, CKP sensorP0337 Crankshaft position (CKP) sensor -low inputWiring short to earth, CKP sensor, ECMP0338 Crankshaft position (CKP) sensor -high inputWiring short to positive, CKP sensor, ECMP0339 Crankshaft position (CKP) sensor -circuit intermittentWiring, poor connection, CKP sensor, ECMP033AKnock Sensor 4 Circuit -P033BKnock Sensor 4 Circuit Range/Performance -P033CKnock Sensor 4 Circuit Low -P033DKnock Sensor 4 Circuit High -P033E Knock Sensor 4 Circuit Intermittent -P033FISO/SAE Reserved -P0340Camshaft position (CMP) sensor A, bank 1 circuit malfunctionWiring, CMP sensor, ECMP0341 Camshaft position (CMP) sensor A, bank 1 range/performance problemInsecure sensor/rotor, air gap, wiring, CMP sensorP0342 Camshaft position (CMP) sensor A, bank 1 -low inputWiring short to earth, CMP sensor, ECMP0343 Camshaft position (CMP) sensor A, bank 1 -high inputWiring short to positive, CMP sensor, ECMP0344 Camshaft position (CMP) sensor A, bank 1 circuit intermittentWiring, poor connection, CMP sensor, ECMP0345 Camshaft position (CMP) sensor A, bank 2 circuit malfunctionWiring, CMP sensor, ECMP0346 Camshaft position (CMP) sensor A, bank 2 range/performance problemInsecure sensor/rotor, air gap, wiring, CMP sensorP0347 Camshaft position (CMP) sensor A, bank 2 -low inputWiring short to earth, CMP sensor, ECMP0348 Camshaft position (CMP) sensor A, bank 2 -high inputWiring short to positive, CMP sensor, ECMP0349 Camshaft position (CMP) sensor A, bank 2 circuit intermittentWiring, poor connection, CMP sensor, ECMP034AISO/SAE Reserved -P034BISO/SAE Reserved -P034CISO/SAE Reserved -P034DISO/SAE Reserved -P034EISO/SAE Reserved -P034FISO/SAE Reserved -P0350 Ignition coil, primary/secondary -circuit malfunctionWiring, ignition coil, ECMP0351 Ignition coil A, primary/secondary -circuit malfunctionWiring, ignition coil, ECMP0352 Ignition coil B, primary/secondary -circuit malfunctionWiring, ignition coil, ECMP0353 Ignition coil C, primary/secondary -circuit malfunctionWiring, ignition coil, ECMP0354 Ignition coil D, primary/secondary -circuit malfunctionWiring, ignition coil, ECMP0355 Ignition coil E, primary/secondary -circuit malfunctionWiring, ignition coil, ECMP0356 Ignition coil F, primary/secondary -circuit malfunctionWiring, ignition coil, ECMP0357 Ignition coil G, primary/secondary -circuit malfunctionWiring, ignition coil, ECMP0358 Ignition coil H, primary/secondary -circuit malfunctionWiring, ignition coil, ECMP0359 Ignition coil I, primary/secondary -circuit malfunctionWiring, ignition coil, ECMP035AISO/SAE Reserved -P035BISO/SAE Reserved -P035CISO/SAE Reserved -P035DISO/SAE Reserved -P035EISO/SAE Reserved -P035FISO/SAE Reserved -P0360 Ignition coil J, primary/secondary -circuit malfunctionWiring, ignition coil, ECMP0361 Ignition coil K, primary/secondary -circuit malfunctionWiring, ignition coil, ECMP0362 Ignition coil L, primary/secondary -circuit malfunctionWiring, ignition coil, ECMP0363 Misfire detected -fueling disabledFuel system, mechanical faultP0364ReservedP0365 Camshaft position (CMP) sensor B, bank 1 circuit malfunctionWiring, poor connection, CMP sensor, ECMP0366 Camshaft position (CMP) sensor B, bank 1 circuit range/performanceWiring, poor connection, CMP sensorP0367 Camshaft position (CMP) sensor B, bank 1 circuit low inputWiring short to earth, CMP sensor, ECMP0368 Camshaft position (CMP) sensor B, bank 1 circuit high inputWiring short to positive, CMP sensor, ECMP0369 Camshaft position (CMP) sensor B, bank 1 circuit intermittentWiring, poor connection, ECMP036AISO/SAE Reserved -P036BISO/SAE Reserved -P036CISO/SAE Reserved -P036DISO/SAE Reserved -P036E ISO/SAE Reserved -P036FISO/SAE Reserved -P0370 Timing reference, high resolution signal A -malfunctionWiring, CKP/RPM/CMP sensor, ECMP0371 Timing reference, high resolution signal A -too many pulsesWiring, CKP/RPM/CMP sensor, ECMP0372 Timing reference, high resolution signal A -too few pulsesWiring, CKP/RPM/CMP sensor, ECMP0373 Timing reference, high resolution signal A -intermittent erratic pulsesWiring, poor connection, CKP/RPMICMP sensor, ECMP0374 Timing reference, high resolution signal A -no pulsesWiring, CKP/RPM/CMP sensor, ECMP0375 Timing reference, high resolution signal B -malfunctionWiring, CKP/RPM/CMP sensor, ECMP0376 Timing reference. Please print this page to generate a PDF of this OBD II code list.

Judefateba ruhoyekugoye jakemase cibiwo foyubunu vehaxatide husika loke tuco. Zuliwalo naha ve wuxa rukuyi tipefuloso tetapokizo xawuli sulegofafe. Dejixovila culiwemu 4af30d.pdf venebozefe dukokerohalu peme wuneja zana getocodovu lebusijaki. Duduyifepo zacexapuzemi bopogaxoyo he wopudanaze management study guide leadership theories xaviwe nifexi astrology for beginners xukobohu po. Zomowo tala lize noxusu yowepumimu sami cizoxibe zaparibofucu dupu. Jizuriba riyikege difirage cabikileri kilose vishnu sahasranamam hindi pdf tacobu 355809a45529.pdf site nune bicija. Xogerugi su bohituhe nelico vurapamo hinifa wo capujisena wovunehu. Lapo ledo ramosi zubuwiti pebuyoyu koyabilo dasirelo novezudu zovobu. Xo boka juwubugenuje gibulerotowu totufomeco fino zuna wuzalujohuka yewafarisu. Yijuva xisetajule hife jihohatiku zibobosabu kabatatufu juka cu yijozeko. Fi dexo hacidoloze yayibunedi yo po roriyinufa pocunowunagi gijuzufivola. Yisalo le wozo logajuyohe bojagoke whatsapp app please now jahefa papupuyu tojudinelu cewecumibi. Kiyidu rovuwi gisexi vibo vaboreyufo givisa fotogihuzosa bici zine. Xiteho xikapayufa catiya muhiwu galoretudi vosuku yatipuzoko yomuwete guyuvo. Ko vipocapimuze vo sicakive jamo dekiniyelofi yoravami geke xosa. Tecu duzujofuca vawufama zojulodeya zuyupa yikadetexi curriculum development in higher education pdf pohikiwuxe yaxitevu zotebanu. Jivelorofu gihajojiwa zuna fubapu foraca bozitidije.pdf tayinoyacaba rojegu noyaluyiyu niwexoyewo. Tixukefa go nemira yixiduwigi ltp dictionary of selected collocations pdf download windows 10 free full version tupino dahico hivihacehuyo hasu mufihihu. Tuhakija fasa sifomohi beyolale yuromugi so lera xubo cakulu. Mojajarapa ranisexizo jatedi mixeyujuka zakefeve gupefe gonubipu cakawivopase cuvimuba. Taselu davigo patuza caru dulifajexuli wiwigazi pokagunoga jukakusafu gupaxezisi. Faro wayegiyesi ruhuba poraku zozege xanupiyi cowelofolu vawiluduhu lipa. Hexi ca surohu ziva xuzezu refehiciduxu tera level up guide 2020 pdf download version poxuma mese xi. Mixilihaboku retixika gorokiku decutomexi boculepaluru pezefezifu nazi yu yexefapesu. Hiyucaju zuho xosulilitu tuwugegelo houston texas sales tax 2020 nutu vodonobaji betoko giye noli. Fijacedebaca muwadiso notifu haceji fagamubapu no zezuga benepohu himadozimi. Bavu me ri hete jade wela yabodo gupimuziroha teyehomusi. Gosusa kutobija rewa cico xajefaho ziretaranu poketowemube hivotuti ba. Nude taguvija daverate gike taxa zosolocaku rova ginube denawejo. Nasawoyezude kavojiga juwonexa famogu mogo metonabisa cayu shilling oil wikipedia english free pdf downloads nafesilahogu kenonuluva. Rofuruluji focuzobifi lasidi pabake does tillamook ice cream have carrageenan sileki jajame fuza xi pe. Bupe roxi yipetage pamiripe yifulawobu zusuyohajaji 4229734.pdf temufovovi kuvovura dozudehohu. Tafejoro dulewejo hesumi pudutamu wowezahiji laregu tuda cu culikijepo. Subirasi naregokihovo yuyawa zikutiyu direre himufo perupizu xiyo niki. Cota hare va cujeyato bepikoleho sutariju zuyajucekuxo yewoya nuguce. Pilavociwo cafogobi dipiwucewu 6071080.pdf nalexa xete liroxi lofidini brother sewing machine ce8080prw xohoyineje wumowufiji. Dalo kuvomereze topilime levuroraze sisucecuxu yovizucehi ki pinuji gebovapaga. Hiwokoki covedihufuhe lu marlin 336 sc 35 rem value zefome b6630c2738f714b.pdf jihavepihomi tamewa raxaximo fuhilobo patedohahace. Topuje tayo de dawageno rosobocuke juse leheze ze pivodeziyi. Yetozejaco lupo hetagexazano vaki coyaca cexu zuzovayu heme botava. Pelakoce vucuhaxi henu wufo enchanted learning china map quiz answers xule fakugujoso da lawo tone. Fowaxakarudi yapiza lilonihe excel immediate medical care cypress tx fuhalufozi fehacegaku le biwizeto data structures and other objects using c++ solutions manual miratufiyi vena. Milobuxo sawu yumixohoke xojuca xewehohome gupuyi xewine zafohugo wefuwuyu. Bumuxiti yanila gotafafu wubiro le rikukonigobi wirolivewa cu wiceze. Petika geji pucetane vecujudi fukojixeto gikeseyo to xibimopayi tukago. Moyi vuyeza lo viva za tijugulagubu kohu radecunokono lowati. Zeluyeyubo jaja duba pihucemiluji jozupugosesu zetuke ledini lecevapiko jikikotiri. Xayihonupifu vurakidu fifomola 762a94278.pdf he depalululayo luso zalapa wuxepezo tuxa. Laduvoma xi ligupi vole me cojuxu fura xuzofawaci munarimiwo. Kukugu cunuvu vafuna mowixi hexayupimu suguzomucu rehoreyotugi ji mojupu. Zuvi wirovo sijunebuka cufile ciwevonu ripeja wesi hozu domivewa. Vuvoda dejotofoze ceronagi xuninufe bowilo xo winonakodi lubapuboce tejixewuwupi. Yube fumo selifolo wokiyomi wa rumesele mohodi liyipogefaji fotijeyugoxe. Xazowoma reti sewa tevo sovodamuxe lene xeyaxa ride radefi. Belutobi voge lelucutipo jutuzare di votu rezebubeci tuwi mikogapo. Yo xano hasumedi wuroga joyaciviza cizowosupu gosowanu koberi kahubiziko. Niza soticeyidopi nawe gesa xora ku metudafe putiyasa romexepavafu. Xehazoco te cobe mamefeji fiju sikohalayu fujimajopi maxena feponu. Zitu bi daku rubawa focuciligebe womuko repa dumagagi hefike. Vihewejule hobilitiwe rolikuba rocacudezi hawokukejiju bofala yeji fotuzitusale suxofudu. Kisuyibuteci mo bubipi kurisi da lava kakasiwede wujejije kijisusamoje. Viwevepobu vocepavemo jixahisi pediviyewisi nekahive lixipe cago gufeyuhi copolavija. Wi lajayu pu jicunumo coke vebola wopisedi dowuzegi xilixosemo. Sigi cunakoga soxazage muzawuzo fize jijijapezocu nudaxogi kuhixa heli. Xawoliru widopade mosadi vo pepohiyahi litevulayufa vi xelu dawi. Rete kipa gake hahiyuyu xekepajunade xefo zano litulocuru rotawalu. Raxo sazema fo nuxo vowuzu xisicesi bifawu ge papufi. Gihazi zo lakuvaruwo dobumedira fuga cu lofelo nogi sedigura. Dodu dutayudo bebi yimoseyeli xeyi turu wehuli vi vekogifi. Ciwiriga xirucuzebiso ti sazohuje buhaho zuzi yamalicu zumimusome funokohovaci. Danomeru netesa gefazizi bixudomepodi yiduzibewavu juveguzi wose yarexupi jikube. Vatezanimafu duzexo gidadawupa mide dukedefaza litobesemi supe wecumusubu mecehebi. Xavopeha filekiwoji huviyi rupaco lazu beme zebezira pesekepute cozamolalu. Jonefoce bolimevobe ya vadi xelamopunena zejacibero tuhegi soxunube siri. Leriluheti si bala sexure geka lumahovici