

DTC Troubleshooting Index

Battery Charge Control Module

DTC	Detection Item	Troubleshooting	Advanced Diagnostics	Note
P0562	Battery Charge Control Module System Voltage Low	TRS	AD	
P0602	Battery Charge Control Module Programming Error	TRS	AD	
P0607	Battery Charge Control Module Performance	TRS	AD	
P062F	Battery Charge Control Module EEPROM Error	TRS	AD	
P0AF9	HV Battery Charging System Voltage Unstable	TRS	AD	
P0AFA	HV Battery Charging System Voltage Low	TRS	AD	
P0CF3	CPL Circuit Open	TRS	AD	
P0CF4	CPL Circuit Range/Performance	TRS	AD	
P0CF9	CPL S2 Switch Circuit Range/Performance	TRS	AD	
P0D21	Battery Charger Output Voltage Too Low	TRS	AD	
P0D23	Battery Charger Output Shorted	TRS	AD	
P0D24	Battery Charger Temperature Too High	TRS	AD	
P0D27	Battery Charger Input Voltage Too Low	TRS	AD	
P0D28	Battery Charger Input Voltage Too High	TRS	AD	
P0D2A	Battery Charger Input Current Too High	TRS	AD	
P0D38	Battery Charger Input Current Sensor Circuit	TRS	AD	
P0D3D	Battery Charger Input Voltage Sensor Circuit	TRS	AD	
P0D4C	Battery Charger HV Battery Output Voltage Sensor Circuit	TRS	AD	
P0D51	Battery Charger HV Battery Output Current Sensor Circuit	TRS	AD	
P0D57	Charge Cable Proximity Detection Circuit Range/Performance	TRS	AD	
P0D58	Charge Cable Proximity Detection Circuit Low	TRS	AD	
P0D59	Charge Cable Proximity Detection Circuit High	TRS	AD	
P0D5C	Battery Charger HV Battery Output Power Performance	TRS	AD	
P0D67	Battery Charger/Battery Charger Control Module Performance	TRS	AD	
P0D85	Battery Charging Output Voltage Too High	TRS	AD	
P0D9A	Charge Inlet Temperature Sensor 1 Circuit Range/Performance	TRS	AD	
P0D9B	Charge Inlet Temperature Sensor 1 Circuit Low	TRS	AD	
P0D9C	Charge Inlet Temperature Sensor 1 Circuit High	TRS	AD	
P1D00	All CAN Communication Lost (Battery Charge Control Module - PCM)	TRS	AD	
P1D02	All CAN Communication Lost (Battery Charge Control Module - Battery Condition Monitor Module A)	TRS	AD	
P1D16	Charging System Error (Equipment Abnormally)	TRS	AD	
P1D23	Battery Charger Temperature Sensor Circuit Range/Performance	TRS	AD	
P1D2B	Charge Inlet Temperature Sensor 2 Circuit Low	TRS	AD	
P1D2C	Charge Inlet Temperature Sensor 2 Circuit High	TRS	AD	
P1D30	Timer Charging System Malfunction	TRS	AD	
P1D34	Wake-Up Circuit Performance (Battery Condition Monitor Module A - Battery Charge Control Module)	TRS	AD	
P1D36	Wake-Up Circuit Performance (Battery Charge Control Module - Gauge Control Module)	TRS	AD	
P1D37	Wake-Up Circuit Performance (Gauge Control Module - Battery Charge Control Module)	TRS	AD	
P1D3C	Battery Charger Performance	TRS	AD	
P1D6B	IG Signal Circuit Low (Battery Charge Control Module Detected)	TRS	AD	
P1DFC	IGHLDC Relay Circuit	TRS	AD	

DTC	Detection Item	Troubleshooting	Advanced Diagnostics	Note
P262B	Battery Charge Control Module Real Time Clock Error	TRS	AD	
U0029	F-CAN Malfunction (Battery Charge Control Module Bus-Off)	TRS	AD	
U0038	EP-CAN Malfunction (Battery Charge Control Module Bus-Off)	TRS	AD	
U0047	F-CAN 2 Malfunction (Battery Charge Control Module Bus-Off)	TRS	AD	
U0056	F-CAN 4 Malfunction (Battery Charge Control Module Bus-Off)	TRS	AD	
U0100	CAN Malfunction (Battery Charge Control Module - PCM)	TRS	AD	
U0110	F-CAN Malfunction (Battery Charge Control Module - Traction Motor Control Module)	TRS	AD	
U0111	CAN Malfunction (Battery Charge Control Module - Battery Condition Monitor Module A)	TRS	AD	
U0146	F-CAN Malfunction (Battery Charge Control Module - CAN Gateway)	TRS	AD	
U0155	F-CAN Malfunction (Battery Charge Control Module - Gauge Control Module)	TRS	AD	
U019B	F-CAN Malfunction (Battery Charge Control Module - Battery Charger)	TRS	AD	
U0296	F-CAN 4 Malfunction (Battery Charge Control Module - Battery Charger)	TRS	AD	
U0337	Battery Charge Control Module Programming Error (Version Mismatch)	TRS	AD	
U1204	EP-CAN Malfunction (Battery Charge Control Module - PCM)	TRS	AD	
U1206	F-CAN Malfunction (Battery Charge Control Module - Battery Condition Monitor Module A)	TRS	AD	
U12B2	F-CAN Malfunction (Battery Charge Control Module - Climate Control Unit)	TRS	AD	
U148B	B-CAN System Malfunction (Communication with External Device is Unable)	TRS	AD	
U1600	F-CAN Malfunction (Battery Charge Control Module - PCM)	TRS	AD	
U1603	EP-CAN Malfunction (Battery Charge Control Module - Battery Condition Monitor Module A)	TRS	AD	
U160C	F-CAN 2 Malfunction (Battery Charge Control Module - PCM)	TRS	AD	

Battery Condition Monitor Module

DTC	Detection Item	Troubleshooting	Advanced Diagnostics	Note
P0480	Electric Powertrain RFC Circuit	TRS	AD	
P0562	Battery Condition Monitor Module A System Voltage Low	TRS	AD	
P0562	Battery Condition Monitor Module B System Voltage Low	TRS	AD	
P0602	Battery Condition Monitor Module A Programming Error	TRS	AD	
P0602	Battery Condition Monitor Module B Programming Error	TRS	AD	
P062F	Battery Condition Monitor Module A EEPROM Error	TRS	AD	
P062F	Battery Condition Monitor Module B EEPROM Error	TRS	AD	
P06B1	Battery Current Sensor A Circuit Low	TRS	AD	*1
P06B1	HV Battery Pack Current Sensor Power Supply B Circuit Low	TRS	AD	*2
P06E4	Wake-up Circuit Performance (Battery Charge Control Module - Battery Condition Monitor Module A)	TRS	AD	
P0A1F	Battery Condition Monitor Module A	TRS	AD	
P0A1F	Battery Condition Monitor Module B	TRS	AD	
P0A7E	HV Battery Pack A Over Temperature	TRS	AD	
P0A7E	HV Battery Pack B Over Temperature	TRS	AD	
P0A7F	HV Battery Pack Deterioration	TRS	AD	
P0A80	Replace HV Battery Pack A	TRS	AD	
P0A80	Replace HV Battery Pack B	TRS	AD	
P0A94	DC-DC Converter Performance	TRS	AD	
P0A9B	HV Battery Temperature Sensor 1 Circuit	TRS	AD	

*1: When this DTC is stored, the main contactor A is turned off by [the high voltage battery cutoff control](#).

*2: When this DTC is stored, the main contactor B is turned off by [the high voltage battery cutoff control](#).

DTC	Detection Item	Troubleshooting	Advanced Diagnostics	Note
P0A9C	HV Battery Temperature Sensor 1A Circuit Range/Performance	TRS	AD	*1
P0A9D	HV Battery Temperature Sensor 1 Circuit Low	TRS	AD	*1
P0A9E	HV Battery Temperature Sensor 1 Circuit High	TRS	AD	*1
P0AA1	HV Main Contactor Circuit Stuck Closed	TRS	AD	
P0AA3	HV Sub Contactor Circuit	TRS	AD	
P0AA6	HV Battery Voltage System Isolation Fault	TRS	AD	
P0AA7	HV Battery Voltage Isolation Sensor Circuit	TRS	AD	
P0ABA	HV Battery Pack Voltage Sense A Circuit	TRS	AD	*1
P0ABF	HV Battery Current Sensor A Circuit	TRS	AD	
P0AC0	HV Battery Current Sensor A Circuit Range/Performance	TRS	AD	
P0AC1	HV Battery Current Sensor A Circuit Low	TRS	AD	
P0AC2	HV Battery Current Sensor A Circuit High	TRS	AD	
P0AC3	HV Battery Current Sensor A Circuit Intermittent/Erratic	TRS	AD	
P0AC5	HV Battery Temperature Sensor 2A Circuit	TRS	AD	
P0AC6	HV Battery Temperature Sensor 2A Circuit Range/Performance	TRS	AD	*1
P0AC7	HV Battery Temperature Sensor 2A Circuit Low	TRS	AD	*1
P0AC8	HV Battery Temperature Sensor 2A Circuit High	TRS	AD	*1
P0ACA	HV Battery Temperature Sensor 3A Circuit	TRS	AD	
P0ACB	HV Battery Temperature Sensor 3A Circuit Range/Performance	TRS	AD	*1
P0ACC	HV Battery Temperature Sensor 3A Circuit Low	TRS	AD	*1
P0ACD	HV Battery Temperature Sensor 3A Circuit High	TRS	AD	*1
P0AE1	HV Battery Precharge Contactor Circuit	TRS	AD	
P0AE4	HV Battery Precharge Contactor Control Circuit Open	TRS	AD	
P0AE8	HV Battery Temperature Sensor 4A Circuit	TRS	AD	
P0AE9	HV Battery Temperature Sensor 4A Circuit Range/Performance	TRS	AD	*1
P0AEA	HV Battery Temperature Sensor 4A Circuit Low	TRS	AD	*1
P0AEB	HV Battery Temperature Sensor 4A Circuit High	TRS	AD	*1
P0AF9	HV Battery System A Voltage Unstable	TRS	AD	
P0AF9	HV Battery System B Voltage Unstable	TRS	AD	
P0AFA	HV Battery System A Voltage Low	TRS	AD	*1
P0AFA	HV Battery System B Voltage Low	TRS	AD	*2
P0B0E	HV Battery Pack Current Sensor B Circuit	TRS	AD	
P0B0F	HV Battery Pack Current Sensor B Circuit Range/Performance	TRS	AD	
P0B10	HV Battery Pack Current Sensor B Circuit Low	TRS	AD	
P0B11	HV Battery Pack Current Sensor B Circuit High	TRS	AD	
P0B12	HV Battery Pack Current Sensor B Circuit Intermittent/Erratic	TRS	AD	
P0B14	HV Battery Pack Voltage Sense B Circuit	TRS	AD	*2
P0B25	HV Battery A Voltage Low	TRS	AD	*2
P0B26	HV Battery A Voltage High	TRS	AD	*2
P0B29	HV Battery Pack B Voltage Low	TRS	AD	*2
P0B2A	HV Battery Pack B Voltage High	TRS	AD	*2
P0B3B	HV Battery Voltage Sense 1A Circuit	TRS	AD	*1
P0B40	HV Battery Voltage Sense 2A Circuit	TRS	AD	*1
P0B45	HV Battery Voltage Sense 3A Circuit	TRS	AD	*1
P0B4A	HV Battery Voltage Sense 4A Circuit	TRS	AD	*1
P0B4F	HV Battery Voltage Sense 5A Circuit	TRS	AD	*1
P0B54	HV Battery Voltage Sense 6A Circuit	TRS	AD	*1
P0B59	HV Battery Voltage Sense 7A Circuit	TRS	AD	*1

*1: When this DTC is stored, the main contactor A is turned off by [the high voltage battery cutoff control](#).

*2: When this DTC is stored, the main contactor B is turned off by [the high voltage battery cutoff control](#).

DTC	Detection Item	Troubleshooting	Advanced Diagnostics	Note
P0B63	HV Battery Voltage Sense 1B Circuit	TRS	AD	*2
P0B68	HV Battery Voltage Sense 2B Circuit	TRS	AD	*2
P0B6D	HV Battery Voltage Sense 3B Circuit	TRS	AD	*2
P0B72	HV Battery Voltage Sense 4B Circuit	TRS	AD	*2
P0B77	HV Battery Voltage Sense 5B Circuit	TRS	AD	*2
P0B7C	HV Battery Voltage Sense 6B Circuit	TRS	AD	*2
P0B81	HV Battery Voltage Sense 7B Circuit	TRS	AD	*2
P0BBD	HV Battery Pack Voltage Variation Exceeded Limit	TRS	AD	
P0BC2	HV Battery Temperature Sensor 5A Circuit	TRS	AD	
P0BC3	HV Battery Temperature Sensor 5A Circuit Range/Performance	TRS	AD	*1
P0BC4	HV Battery Temperature Sensor 5A Circuit Low	TRS	AD	*1
P0BC5	HV Battery Temperature Sensor 5A Circuit High	TRS	AD	*1
P0C33	HV Battery Temperature Sensor 6A Circuit	TRS	AD	
P0C34	HV Battery Temperature Sensor 6A Circuit Range/Performance	TRS	AD	*1
P0C35	HV Battery Temperature Sensor 6A Circuit Low	TRS	AD	*1
P0C36	HV Battery Temperature Sensor 6A Circuit High	TRS	AD	*1
P0C43	ES Coolant Temperature Sensor 1 Circuit Range/Performance	TRS	AD	
P0C44	ES Coolant Temperature Sensor 1 Circuit Low	TRS	AD	
P0C45	ES Coolant Temperature Sensor 1 Circuit High	TRS	AD	
P0C47	ES Coolant Pump Control Circuit Open	TRS	AD	
P0C4A	ES Coolant Pump Control Performance	TRS	AD	
P0C76	HV Battery System Discharge Time Too Long	TRS	AD	
P0C7C	HV Battery Temperature Sensor 7A Circuit	TRS	AD	
P0C7D	HV Battery Temperature Sensor 7A Circuit Range/Performance	TRS	AD	*1
P0C7E	HV Battery Temperature Sensor 7A Circuit Low	TRS	AD	*1
P0C7F	HV Battery Temperature Sensor 7A Circuit High	TRS	AD	*1
P0C88	HV Battery Temperature Sensor 1B Circuit	TRS	AD	
P0C89	HV Battery Temperature Sensor 1B Circuit Range/Performance	TRS	AD	*2
P0C8A	HV Battery Temperature Sensor 1B Circuit Low	TRS	AD	*2
P0C8B	HV Battery Temperature Sensor 1B Circuit High	TRS	AD	*2
P0C8D	HV Battery Temperature Sensor 2B Circuit	TRS	AD	
P0C8E	HV Battery Temperature Sensor 2B Circuit Range/Performance	TRS	AD	*2
P0C8F	HV Battery Temperature Sensor 2B Circuit Low	TRS	AD	*2
P0C90	HV Battery Temperature Sensor 2B Circuit High	TRS	AD	*2
P0C92	HV Battery Temperature Sensor 3B Circuit	TRS	AD	
P0C93	HV Battery Temperature Sensor 3B Circuit Range/Performance	TRS	AD	*2
P0C94	HV Battery Temperature Sensor 3B Circuit Low	TRS	AD	*2
P0C95	HV Battery Temperature Sensor 3B Circuit High	TRS	AD	*2
P0C97	HV Battery Temperature Sensor 4B Circuit	TRS	AD	
P0C98	HV Battery Temperature Sensor 4B Circuit Range/Performance	TRS	AD	*2
P0C99	HV Battery Temperature Sensor 4B Circuit Low	TRS	AD	*2
P0C9A	HV Battery Temperature Sensor 4B Circuit High	TRS	AD	*2
P0CA8	HV Battery Temperature Sensor 5B Circuit	TRS	AD	
P0CA9	HV Battery Temperature Sensor 5B Circuit Range/Performance	TRS	AD	*2
P0CAA	HV Battery Temperature Sensor 5B Circuit Low	TRS	AD	*2
P0CAB	HV Battery Temperature Sensor 5B Circuit High	TRS	AD	*2
P0CAD	HV Battery Temperature Sensor 6B Circuit	TRS	AD	
P0CAE	HV Battery Temperature Sensor 6B Circuit Range/Performance	TRS	AD	*2

*1: When this DTC is stored, the main contactor A is turned off by [the high voltage battery cutoff control](#).

*2: When this DTC is stored, the main contactor B is turned off by [the high voltage battery cutoff control](#).

DTC	Detection Item	Troubleshooting	Advanced Diagnostics	Note
P0CAF	HV Battery Temperature Sensor 6B Circuit Low	TRS	AD	*2
P0CB0	HV Battery Temperature Sensor 6B Circuit High	TRS	AD	*2
P0CB2	HV Battery Temperature Sensor 7B Circuit	TRS	AD	
P0CB3	HV Battery Temperature Sensor 7B Circuit Range/Performance	TRS	AD	*2
P0CB4	HV Battery Temperature Sensor 7B Circuit Low	TRS	AD	*2
P0CB5	HV Battery Temperature Sensor 7B Circuit High	TRS	AD	*2
P0CD7	ES Coolant Temperature Sensor 2 Circuit Low	TRS	AD	
P0CD8	ES Coolant Temperature Sensor 2 Circuit High	TRS	AD	
P0CE1	ES Coolant Control Valve Stuck On	TRS	AD	
P0D32	DC-DC Converter Over Temperature	TRS	AD	
P0DA8	HV Battery Voltage/Traction Motor Inverter Voltage Correlation (Battery Condition Monitor Module A Detected)	TRS	AD	
P0DA8	HV Battery Voltage/Traction Motor Inverter Voltage Correlation	TRS	AD	
P0E12	HV Battery Module Heater Control Circuit Open	TRS	AD	
P0E15	HV Battery Module Heater Control Performance	TRS	AD	
P0EDD	HV Battery Pack Deterioration	TRS	AD	
P1447	HV Battery Pack Deterioration (Middle Severity)	TRS	AD	
P144A	HV Battery Pack Deterioration (High Severity)	TRS	AD	
P157C	HV Battery Current Sensor B Circuit	TRS	AD	*2
P157D	HV Battery Current Sensor 2B Circuit High	TRS	AD	*2
P157E	HV Battery Current Sensor 1B Circuit Range/Performance	TRS	AD	*2
P157F	HV Battery Current Sensor 2B Circuit Range/Performance	TRS	AD	*2
P1586	HV Battery Current Sensor A	TRS	AD	*1
P158A	HV Battery Current Sensor A Correlation	TRS	AD	*1
P158B	HV Battery Current Sensor 1A Circuit	TRS	AD	
P158C	HV Battery Current Sensor 2A Circuit	TRS	AD	
P158D	HV Battery Current Sensor 1A Circuit Low	TRS	AD	*1
P158E	HV Battery Current Sensor 2A Circuit Low	TRS	AD	*1
P158F	HV Battery Current Sensor 1A Circuit High	TRS	AD	*1
P1596	HV Battery Current Sensor 2A Circuit High	TRS	AD	*1
P1597	HV Battery Current Sensor 1A Circuit Range/Performance	TRS	AD	*1
P1598	HV Battery Current Sensor 2A Circuit Range/Performance	TRS	AD	*1
P159A	HV Battery Current Sensor B Correlation	TRS	AD	*2
P159B	HV Battery Current Sensor 1B Circuit	TRS	AD	
P159C	HV Battery Current Sensor 2B Circuit	TRS	AD	
P159D	HV Battery Current Sensor 1B Circuit Low	TRS	AD	*2
P159E	HV Battery Current Sensor 2B Circuit Low	TRS	AD	*2
P159F	HV Battery Current Sensor 1B Circuit High	TRS	AD	*2
P1673	IGHLD Relay Circuit	TRS	AD	
P16C3	DC-DC Converter Temperature Sensor Circuit	TRS	AD	
P1A90	HV Battery Circuit A	TRS	AD	*1
P1A91	HV Battery Circuit B	TRS	AD	*2
P1A92	HV Battery Pack A Temperature High	TRS	AD	*1
P1A93	HV Battery Pack B High Temperature	TRS	AD	*2
P1D07	HV Battery Identification Circuit A (System Starting)	TRS	AD	
P1D08	HV Battery Identification Circuit B (System Starting)	TRS	AD	
P1D2F	Wake-Up Signal Error (Battery Condition Monitor Module A - PCM)	TRS	AD	

*1: When this DTC is stored, the main contactor A is turned off by [the high voltage battery cutoff control](#).

*2: When this DTC is stored, the main contactor B is turned off by [the high voltage battery cutoff control](#).

DTC	Detection Item	Troubleshooting	Advanced Diagnostics	Note
P1D32	Wake-Up Signal Error (Battery Condition Monitor Module A - Climate Control Unit)	TRS	AD	
P1D3A	Battery Condition Monitor Module A EEPROM Error (FSA Operated)	TRS	AD	
P1D3A	Battery Condition Monitor Module B EEPROM Error (FSA Operated)	TRS	AD	
P1D3B	Battery Condition Monitor Module A EEPROM Error (FSA Not-Operated)	TRS	AD	
P1D3B	Battery Condition Monitor Module B EEPROM Error (FSA Not-Operated)	TRS	AD	
P1D5E	IG Signal Circuit Low (Battery Condition Monitor Module B Detected)	TRS	AD	
P1D64	Collision Detection Signal Circuit	TRS	AD	
P1D65	HV System Shutdown (Collision Detection Signal Detected)	TRS	AD	
P1D6A	IG Signal Circuit Low (Battery Condition Monitor Module A Detected)	TRS	AD	
P1DC7	HV Battery Pack A Deterioration of Power	TRS	AD	
P1DC7	HV Battery Pack B Deterioration of Power	TRS	AD	
P1DCB	HV Battery Identification Circuit A (System Running)	TRS	AD	
P1DCB	HV Battery Identification Circuit B (System Running)	TRS	AD	
P1DF3	ES Coolant Over Temperature	TRS	AD	
P1DF4	ES Coolant Temperature Sensor 3 Circuit Low	TRS	AD	
P1DF5	ES Coolant Temperature Sensor 3 Circuit High	TRS	AD	
P1DF6	ES Coolant Temperature Sensor 4 Circuit Low	TRS	AD	
P1DF7	ES Coolant Temperature Sensor 4 Circuit High	TRS	AD	
P1DFD	Power System Indicator Lighting Request from PCM	TRS	AD	
P1DFF	IGHLDB Relay Circuit	TRS	AD	
U0029	F-CAN Malfunction (Battery Condition Monitor Module A Bus-Off)	TRS	AD	
U0029	F-CAN Malfunction (Battery Condition Monitor Module B Bus-Off)	TRS	AD	
U0038	EP-CAN Malfunction (Battery Condition Monitor Module A Bus-Off)	TRS	AD	
U0081	EP-CAN 2 Malfunction (Battery Condition Monitor Module A Bus-Off)	TRS	AD	
U0081	EP-CAN 2 Malfunction (Battery Condition Monitor Module B Bus-Off)	TRS	AD	
U0100	CAN Malfunction (Battery Condition Monitor Module A - PCM)	TRS	AD	
U0100	CAN Malfunction (Battery Condition Monitor Module B - PCM)	TRS	AD	
U0110	CAN Malfunction (Battery Condition Monitor Module A - Traction Motor Control Module)	TRS	AD	
U0110	CAN Malfunction (Battery Condition Monitor Module B - Traction Motor Control Module)	TRS	AD	
U0111	CAN Malfunction (Battery Condition Monitor Module B - Battery Condition Monitor Module)	TRS	AD	
U0112	CAN Malfunction (Battery Condition Monitor Module A - Battery Condition Monitor Module B)	TRS	AD	
U012D	CAN Malfunction (Battery Condition Monitor Module A - Generator Motor Control Module)	TRS	AD	
U012D	CAN Malfunction (Battery Condition Monitor Module B - Generator Motor Control Module)	TRS	AD	
U0146	F-CAN Malfunction (Battery Condition Monitor Module A - CAN Gateway)	TRS	AD	
U0146	F-CAN Malfunction (Battery Condition Monitor Module B - CAN Gateway)	TRS	AD	
U019B	CAN Malfunction (Battery Condition Monitor Module A - Battery Charge Control Module)	TRS	AD	
U0312	Battery Condition Monitor Module A Programming Error (Version Mismatch)	TRS	AD	
U0313	Battery Condition Monitor Module B Programming Error (Version Mismatch)	TRS	AD	
U0599	DC-DC Converter Serial Communication Receive Error	TRS	AD	
U1204	EP-CAN Malfunction (Battery Condition Monitor Module A - PCM)	TRS	AD	

*1: When this DTC is stored, the main contactor A is turned off by [the high voltage battery cutoff control](#).

*2: When this DTC is stored, the main contactor B is turned off by [the high voltage battery cutoff control](#).

DTC	Detection Item	Troubleshooting	Advanced Diagnostics	Note
U1204	EP-CAN Malfunction (Battery Condition Monitor Module B - PCM)	TRS	AD	
U1205	EP-CAN Malfunction (Battery Condition Monitor Module A - Traction Motor Control Module)	TRS	AD	
U1205	EP-CAN Malfunction (Battery Condition Monitor Module B - Traction Motor Control Module)	TRS	AD	
U1207	F-CAN Malfunction (Battery Condition Monitor Module A - Electric A/C Compressor)	TRS	AD	
U1207	F-CAN Malfunction (Battery Condition Monitor Module B - Electric A/C Compressor)	TRS	AD	
U1220	DC-DC Converter Serial Communication Transmit Error	TRS	AD	
U12A4	F-CAN Malfunction (Battery Condition Monitor Module A - Electric Heater (HVAC))	TRS	AD	
U12A5	EP-CAN Malfunction (Battery Condition Monitor Module A - Generator Motor Control Module)	TRS	AD	
U12A5	EP-CAN Malfunction (Battery Condition Monitor Module B - Generator Motor Control Module)	TRS	AD	
U12B2	F-CAN Malfunction (Battery Condition Monitor Module A - Climate Control Unit)	TRS	AD	
U12B2	F-CAN Malfunction (Battery Condition Monitor Module B - Climate Control Unit)	TRS	AD	
U1600	F-CAN Malfunction (Battery Condition Monitor Module A - PCM)	TRS	AD	
U1600	F-CAN Malfunction (Battery Condition Monitor Module B - PCM)	TRS	AD	
U1603	F-CAN Malfunction (Battery Condition Monitor Module B - Battery Condition Monitor Module A)	TRS	AD	
U1604	F-CAN Malfunction (Battery Condition Monitor Module A - Traction Motor Control Module)	TRS	AD	
U1604	F-CAN Malfunction (Battery Condition Monitor Module B - Traction Motor Control Module)	TRS	AD	
U1605	F-CAN Malfunction (Battery Condition Monitor Module A - Generator Motor Control Module)	TRS	AD	
U1605	F-CAN Malfunction (Battery Condition Monitor Module B - Generator Motor Control Module)	TRS	AD	
U1607	F-CAN Malfunction (Battery Condition Monitor Module A - Battery Charge Control Module)	TRS	AD	
U1608	EP-CAN Malfunction (Battery Condition Monitor Module A - Battery Charge Control Module)	TRS	AD	
U160D	EP-CAN2 Malfunction (Battery Condition Monitor Module B - Battery Condition Monitor Module A)	TRS	AD	
U1610	F-CAN Malfunction (Battery Condition Monitor Module A - Battery Condition Monitor Module B)	TRS	AD	
U1611	EP-CAN2 Malfunction (Battery Condition Monitor Module A - Battery Condition Monitor Module B)	TRS	AD	

*1: When this DTC is stored, the main contactor A is turned off by [the high voltage battery cutoff control](#).

*2: When this DTC is stored, the main contactor B is turned off by [the high voltage battery cutoff control](#).

Motor Control Module

DTC	Detection Item	Troubleshooting	Advanced Diagnostics	Note
P0562	Traction Motor Control Module System Voltage Low	TRS	AD	
P0562	Generator Motor Control Module System Voltage Low	TRS	AD	
P0602	Traction Motor Control Module Programming Error	TRS	AD	
P0602	Generator Motor Control Module Programming Error	TRS	AD	
P061B	Traction Motor Control Module Torque Calculation Performance	TRS	AD	
P062F	Traction Motor Control Module EEPROM Error	TRS	AD	
P062F	Generator Motor Control Module EEPROM Error	TRS	AD	
P0634	Generator Motor Control Module Internal Temperature Too High	TRS	AD	

DTC	Detection Item	Troubleshooting	Advanced Diagnostics	Note
P06B1	Traction Motor Phase Current Sensor Power Supply Circuit Low (Phase U)	TRS	AD	
P06B1	Generator Motor Phase Current Sensor Power Supply Circuit Low (Phase U)	TRS	AD	
P06B4	Traction Motor Phase Current Sensor Power Supply Circuit Low (Phase V)	TRS	AD	
P06B4	Generator Motor Phase Current Sensor Power Supply Circuit Low (Phase V)	TRS	AD	
P06E7	Traction Motor Phase Current Sensor Power Supply Circuit Low (Phase W)	TRS	AD	
P06E7	Generator Motor Phase Current Sensor Power Supply Circuit Low (Phase W)	TRS	AD	
P0711	Transmission Fluid Temperature Sensor Circuit Range/Performance	TRS	AD	
P0712	Transmission Fluid Temperature Sensor Circuit Low	TRS	AD	
P0713	Transmission Fluid Temperature Sensor Circuit High	TRS	AD	
P0714	Transmission Fluid Temperature Sensor Circuit Intermittent	TRS	AD	
P0A1A	Generator Motor Control Module (Traction Motor Control Module Detected)	TRS	AD	
P0A1A	Generator Motor Control Module	TRS	AD	
P0A1B	Traction Motor Control Module	TRS	AD	
P0A1B	Traction Motor Control Module (Generator Motor Control Module Detected)	TRS	AD	
P0A2A	Traction Motor Temperature Sensor Circuit	TRS	AD	
P0A2B	Traction Motor Temperature Sensor Circuit Range/Performance	TRS	AD	
P0A2C	Traction Motor Temperature Sensor Circuit Low	TRS	AD	
P0A2D	Traction Motor Temperature Sensor Circuit High	TRS	AD	
P0A2F	Traction Motor Over Temperature	TRS	AD	
P0A36	Generator Temperature Sensor Circuit (Traction Motor Control Module Detected)	TRS	AD	
P0A36	Generator Motor Temperature Sensor Circuit	TRS	AD	
P0A37	Generator Motor Temperature Sensor Circuit Range/Performance	TRS	AD	
P0A38	Generator Motor Temperature Sensor Circuit Low	TRS	AD	
P0A39	Generator Motor Temperature Sensor Circuit High	TRS	AD	
P0A3B	Generator Motor Over Temperature	TRS	AD	
P0A3C	Traction Motor Inverter Over Temperature	TRS	AD	
P0A3E	Generator Motor Inverter Over Temperature	TRS	AD	
P0A3F	Traction Motor Rotor Position Sensor Circuit	TRS	AD	
P0A40	Traction Motor Rotor Position Sensor Circuit Range/Performance	TRS	AD	
P0A41	Traction Motor Rotor Position Sensor Circuit Low	TRS	AD	
P0A4B	Generator Motor Rotor Position Sensor Circuit	TRS	AD	
P0A4C	Generator Motor Rotor Position Sensor Circuit Range/Performance	TRS	AD	
P0A4D	Generator Motor Rotor Position Sensor Circuit Low	TRS	AD	
P0A5E	Traction Motor Phase U Current Low	TRS	AD	
P0A5F	Traction Motor Phase U Current High	TRS	AD	
P0A61	Traction Motor Phase V Current Low	TRS	AD	
P0A62	Traction Motor Phase V Current High	TRS	AD	
P0A64	Traction Motor Phase W Current Low	TRS	AD	
P0A65	Traction Motor Phase W Current High	TRS	AD	
P0A70	Generator Motor Phase U Current Low	TRS	AD	
P0A71	Generator Motor Phase U Current High	TRS	AD	

DTC	Detection Item	Troubleshooting	Advanced Diagnostics	Note
P0A73	Generator Motor Phase V Current Low	TRS	AD	
P0A74	Generator Motor Phase V Current High	TRS	AD	
P0A76	Generator Motor Phase W Current Low	TRS	AD	
P0A77	Generator Motor Phase W Current High	TRS	AD	
P0A78	Traction Motor Inverter Performance	TRS	AD	
P0A78	Traction Motor Inverter Performance (Generator Motor Control Module Detected)	TRS	AD	
P0A7A	Generator Inverter Performance (Traction Motor Control Module Detected)	TRS	AD	
P0A7A	Generator Motor Inverter Performance	TRS	AD	
P0A90	Traction Motor Performance	TRS	AD	
P0A92	Generator Motor Performance	TRS	AD	
P0AED	Traction Motor Inverter Temperature Sensor Circuit	TRS	AD	
P0AEE	Traction Motor Inverter Temperature Sensor Circuit Range/Performance	TRS	AD	
P0AEF	Traction Motor Inverter Temperature Sensor Circuit Low	TRS	AD	
P0AF0	Traction Motor Inverter Temperature Sensor Circuit High	TRS	AD	
P0BCC	Generator Motor Inverter Temperature Sensor Circuit	TRS	AD	
P0BCD	Generator Motor Inverter Temperature Sensor Circuit Range/Performance	TRS	AD	
P0BCE	Generator Motor Inverter Temperature Sensor Circuit Low	TRS	AD	
P0BCF	Generator Motor Inverter Temperature Sensor Circuit High	TRS	AD	
P0BE6	Traction Motor Phase U Current Sensor Circuit Range/Performance	TRS	AD	
P0BEA	Traction Motor Phase V Current Sensor Circuit Range/Performance	TRS	AD	
P0BEE	Traction Motor Phase W Current Sensor Circuit Range/Performance	TRS	AD	
P0BFD	Traction Motor Phase U-W Current Sensor Correlation	TRS	AD	
P0C4E	Traction Motor Rotor Position Exceeded Learning Limit	TRS	AD	
P0CE9	PCU Coolant Electric Water Pump Control Circuit Open	TRS	AD	
P0CEA	PCU Coolant Electric Water Pump Performance	TRS	AD	
P0CED	PCU Coolant Electric Water Pump Enable Circuit	TRS	AD	
P0CEE	PCU Coolant Temperature Sensor Circuit	TRS	AD	
P0CEF	PCU Coolant Temperature Sensor Circuit Range/Performance	TRS	AD	
P0CF0	PCU Coolant Temperature Sensor Circuit Low	TRS	AD	
P0CF1	PCU Coolant Temperature Sensor Circuit High	TRS	AD	
P0DFA	Generator Motor Phase U-V-W Current Sensor Correlation	TRS	AD	
P0DFB	Generator Motor Rotor Position Sensor Exceeding Learn Limit	TRS	AD	
P0E01	Generator Motor Phase U Current Sensor Circuit Range/Performance	TRS	AD	
P0E05	Generator Motor Phase V Current Sensor Circuit Range/Performance	TRS	AD	
P0E09	Generator Motor Phase W Current Sensor Circuit Range/Performance	TRS	AD	
P1437	Traction Motor Inverter Short	TRS	AD	
P1440	Traction Motor Inverter Gate Line Open	TRS	AD	
P15A5	Traction Motor Inverter Current Too High	TRS	AD	
P1A54	Traction Motor Control Module Torque Control Performance	TRS	AD	
P1A55	Traction Motor Control Module Torque Adjustment Performance	TRS	AD	
P1A56	Traction Motor Current Too High	TRS	AD	
P1A57	Traction Motor Phase Current Sensor	TRS	AD	
P1D1C	VCU V2S Voltage Sensor Circuit	TRS	AD	
P1D6E	Traction Motor Temperature Sensor Circuit Performance	TRS	AD	
P1D6F	Generator Motor Temperature Sensor Circuit (Traction Motor Control Module Detected)	TRS	AD	
P1D70	Traction Motor Phase Current Sensor Multiple Performance	TRS	AD	

DTC	Detection Item	Troubleshooting	Advanced Diagnostics	Note
P1D72	Traction Motor Temperature Sensor Range/Performance (Lo Side)	TRS	AD	
P1D73	Traction Motor Temperature Sensor Range/Performance (Hi Side)	TRS	AD	
P1D74	Generator Motor Temperature Sensor Circuit Range/Performance (Low Side)	TRS	AD	
P1D75	Generator Motor Temperature Sensor Circuit Range/Performance (High Side)	TRS	AD	
P1D77	VCU I1 Current Sensor Range/Performance	TRS	AD	
P1D78	VCU I1 Current Sensor 1 Circuit Low (Traction Motor Control Module Detected)	TRS	AD	
P1D78	VCU I1 Current Sensor Circuit Low (Generator Motor Control Module Detected)	TRS	AD	
P1D79	VCU I1 Current Sensor 1 Circuit High (Traction Motor Control Module Detected)	TRS	AD	
P1D79	VCU I1 Current Sensor Circuit High (Generator Motor Control Module Detected)	TRS	AD	
P1D7A	Reactor Temperature Sensor Range/Performance Problem	TRS	AD	
P1D7B	Reactor Over Temperature (Traction Motor Control Module Detected)	TRS	AD	
P1D7B	Reactor Over Temperature (Generator Motor Control Module Detected)	TRS	AD	
P1D7C	Reactor Temperature Sensor Range/Performance	TRS	AD	
P1D7D	Reactor Temperature Sensor 1 Circuit Low	TRS	AD	
P1D7E	Reactor Temperature Sensor 1 Circuit High	TRS	AD	
P1D7F	Generator Motor Inverter Malfunction Signal Low (Traction Motor Control Module Detected)	TRS	AD	
P1D7F	Generator Motor Inverter Malfunction Signal Low (Generator Motor Control Module Detected)	TRS	AD	
P1D80	Generator Motor Inverter Malfunction Signal High (Traction Motor Control Module Detected)	TRS	AD	
P1D80	Generator Motor Inverter Malfunction Signal High (Generator Motor Control Module Detected)	TRS	AD	
P1D81	VCU Malfunction Signal Low (Traction Motor Control Module Detected)	TRS	AD	
P1D81	VCU Malfunction Signal Low (Generator Motor Control Module Detected)	TRS	AD	
P1D82	VCU Malfunction Signal High (Traction Motor Control Module Detected)	TRS	AD	
P1D82	VCU Malfunction Signal High (Generator Motor Control Module Detected)	TRS	AD	
P1D83	All Inverter Malfunction Signal Low (Traction Motor Control Module Detected)	TRS	AD	
P1D83	All Inverter Malfunction Signal Low (Generator Motor Control Module Detected)	TRS	AD	
P1D84	All Inverter Malfunction Signal High (Traction Motor Control Module Detected)	TRS	AD	
P1D84	All Inverter Malfunction Signal High (Generator Motor Control Module Detected)	TRS	AD	
P1D85	Traction Motor Inverter Malfunction Signal Low (Traction Motor Control Module Detected)	TRS	AD	
P1D85	Traction Motor Inverter Malfunction Signal Low (Generator Motor Control Module Detected)	TRS	AD	
P1D86	Traction Motor Inverter Malfunction Signal High (Traction Motor Control Module Detected)	TRS	AD	
P1D86	Traction Motor Inverter Malfunction Signal High (Generator Motor Control Module Detected)	TRS	AD	
P1D8A	Generator Motor Inverter Gate Line Open	TRS	AD	
P1D8C	Generator Motor Inverter Over Current	TRS	AD	
P1D8D	Generator Motor Inverter Short	TRS	AD	

DTC	Detection Item	Troubleshooting	Advanced Diagnostics	Note
P1D8F	VCU Malfunction	TRS	AD	
P1D92	PCU Coolant Electric Water Pump Control Circuit	TRS	AD	
P1D93	PCU Coolant Over Temperature	TRS	AD	
P1D96	Generator Motor Control Module Software Version Mismatch	TRS	AD	
P1D97	Generator Motor Phase Current Sensors Multiple Failure	TRS	AD	
P1D99	PCU Coolant Electric Water Pump	TRS	AD	
P1D9A	PCU Coolant Electric Water Pump Circuit	TRS	AD	
P1D9D	VCU Temperature Sensor Range/Performance	TRS	AD	
P1DA0	VCU Temperature Sensor Circuit Low	TRS	AD	
P1DA1	VCU Temperature Sensor Circuit High	TRS	AD	
P1DA2	VCU Inverter Lo Side Open	TRS	AD	
P1DA3	VCU Inverter Hi Side Open	TRS	AD	
P1DA4	VCU Inverter Short	TRS	AD	
P1DA5	VCU V1 Voltage Sensor Circuit Low	TRS	AD	
P1DA6	VCU V1 Voltage Sensor Range/Performance	TRS	AD	
P1DA7	VCU V2M Voltage Sensor Circuit Low	TRS	AD	
P1DA8	VCU V2M Voltage Sensor Range/Performance	TRS	AD	
P1DA9	VCU V2S Voltage Sensor Circuit Low	TRS	AD	
P1DAA	VCU V2S Voltage Sensor Range/Performance	TRS	AD	
P1DD8	VCU Temperature Sensor Circuit	TRS	AD	
P1DD9	VCU I1 Current Sensor 1 Circuit (Traction Motor Control Module Detected)	TRS	AD	
P1DD9	VCU I1 Current Sensor Circuit (Generator Motor Control Module Detected)	TRS	AD	
P1DDA	VCU I1 Current Sensor 2 Circuit (Traction Motor Control Module Detected)	TRS	AD	
P1DDA	VCU I1 Current Sensor 2 Circuit (Generator Motor Control Module Detected)	TRS	AD	
P1DDB	Reactor Temperature Sensor 1 Circuit	TRS	AD	
P1DDC	Reactor Temperature Sensor 2 Circuit	TRS	AD	
P1DE4	VCU V1 Voltage Sensor Circuit	TRS	AD	
P1DE6	VCU V2M Voltage Sensor Circuit	TRS	AD	
P1DEB	Reactor Temperature Sensor 2 Circuit Low	TRS	AD	
P1DEC	Reactor Temperature Sensor 2 Circuit High	TRS	AD	
P1DED	VCU I1 Current Sensor 2 Circuit Low (Traction Motor Control Module Detected)	TRS	AD	
P1DED	VCU I1 Current Sensor 2 Circuit Low (Generator Motor Control Module Detected)	TRS	AD	
P1DEE	VCU I1 Current Sensor 2 Circuit High (Traction Motor Control Module Detected)	TRS	AD	
P1DEE	VCU I1 Current Sensor 2 Circuit High (Generator Motor Control Module Detected)	TRS	AD	
P1DF2	VCU Temperature Sensor 2 Range/Performance	TRS	AD	
P1F20	IG Signal Circuit Low (Generator Motor Control Module Detected)	TRS	AD	
P1F3C	VCU Over Temperature	TRS	AD	
P26E0	VCU I1 Current Sensor Power Supply Circuit Low (Traction Motor Control Module Detected)	TRS	AD	
P26E0	VCU I1 Current Sensor Power Supply Circuit Low (Generator Motor Control Module Detected)	TRS	AD	
U0029	F-CAN Malfunction (Traction Motor Control Module Bus-Off)	TRS	AD	

DTC	Detection Item	Troubleshooting	Advanced Diagnostics	Note
U0029	F-CAN Malfunction (Generator Motor Control Module Bus-Off)	TRS	AD	
U0038	EP-CAN Malfunction (Traction Motor Control Module Bus-Off)	TRS	AD	
U0038	EP-CAN Malfunction (Generator Motor Control Module Bus-Off)	TRS	AD	
U0100	CAN Malfunction (Traction Motor Control Module - PCM)	TRS	AD	
U0100	CAN Malfunction (Generator Motor Control Module - PCM)	TRS	AD	
U0111	CAN Malfunction (Traction Motor Control Module - Battery Condition Monitor Module A)	TRS	AD	
U0111	CAN Malfunction (Generator Motor Control Module - Battery Condition Monitor Module A)	TRS	AD	
U0146	F-CAN Malfunction (Traction Motor Control Module - CAN Gateway)	TRS	AD	
U0146	F-CAN Malfunction (Generator Motor Control Module - CAN Gateway)	TRS	AD	
U0311	Traction Motor Control Module Programming Error (Version Mismatch)	TRS	AD	
U1204	EP-CAN Malfunction (Traction Motor Control Module - PCM)	TRS	AD	
U1204	EP-CAN Malfunction (Generator Motor Control Module - PCM)	TRS	AD	
U1206	EP-CAN Malfunction (Traction Motor Control Module - Battery Condition Monitor Module)	TRS	AD	
U1206	EP-CAN Malfunction (Generator Motor Control Module - Battery Condition Monitor Module A)	TRS	AD	
U1600	F-CAN Malfunction (Traction Motor Control Module - PCM)	TRS	AD	
U1600	F-CAN Malfunction (Generator Motor Control Module - PCM)	TRS	AD	
U1603	F-CAN Malfunction (Traction Motor Control Module - Battery Condition Monitor Module)	TRS	AD	
U1603	F-CAN Malfunction (Generator Motor Control Module - Battery Condition Monitor Module A)	TRS	AD	
U1607	F-CAN Malfunction (Traction Motor Control Module - Battery Charge Control Module)	TRS	AD	
U1607	F-CAN Malfunction (Generator Motor Control Module - Battery Charge Control Module)	TRS	AD	
U1608	EP-CAN Malfunction (Traction Motor Control Module - Battery Charge Control Module)	TRS	AD	
U1608	EP-CAN Malfunction (Generator Motor Control Module - Battery Charge Control Module)	TRS	AD	