

No	Component	DTC	UDS Description	MIL Status	Automatically replace battery pack
1	CVTN	U029A	Lost Communication with Hybrid Battery Pack Sensor Module	MIL	no
		P1A29	Cell Supervisory Circuit A Failure	MIL	no
		P1A2A	Cell Supervisory Circuit B Failure	MIL	no
2	Functional Safety	P060C	Internal Control Module Main Processor Performance	MIL	no
		P1D3E	Internal Control Module Shut Off Test Error	MIL	no
		P1D43	Internal Control Module Shut Off Test Monitoring Time Error	MIL	no
		P060A	Internal Control Module Monitoring Processor Performance	MIL	no
3	Cell Voltage	P0B3D	Hybrid/EV Battery Voltage Sense 1 Circuit Low	MIL	no
		P0B3E	Hybrid/EV Battery Voltage Sense 1 Circuit High	MIL	no
		P0B3C	Hybrid/EV Battery Voltage Sense 1 Circuit Performance	MIL	no
		P1C00	Hybrid/EV Battery Voltage Sense 1 Out of Range Low	MIL	no
		P1C01	Hybrid/EV Battery Voltage Sense 1 Out of Range High	MIL	no
		P0B42	Hybrid/EV Battery Voltage Sense 2 Circuit Low	MIL	no
		P0B43	Hybrid/EV Battery Voltage Sense 2 Circuit High	MIL	no
		P0B41	Hybrid/EV Battery Voltage Sense 2 Circuit Performance	MIL	no
		P1C02	Hybrid/EV Battery Voltage Sense 2 Out of Range Low	MIL	no
		P1C03	Hybrid/EV Battery Voltage Sense 2 Out of Range High	MIL	no
		P0B47	Hybrid/EV Battery Voltage Sense 3 Circuit Low	MIL	no
		P0B48	Hybrid/EV Battery Voltage Sense 3 Circuit High	MIL	no
		P0B46	Hybrid/EV Battery Voltage Sense 3 Circuit Performance	MIL	no
		P1C04	Hybrid/EV Battery Voltage Sense 3 Out of Range Low	MIL	no
		P1C05	Hybrid/EV Battery Voltage Sense 3 Out of Range High	MIL	no
		P0B4C	Hybrid/EV Battery Voltage Sense 4 Circuit Low	MIL	no
		P0B4D	Hybrid/EV Battery Voltage Sense 4 Circuit High	MIL	no
		P0B4B	Hybrid/EV Battery Voltage Sense 4 Circuit Performance	MIL	no
		P1C06	Hybrid/EV Battery Voltage Sense 4 Out of Range Low	MIL	no
		P1C07	Hybrid/EV Battery Voltage Sense 4 Out of Range High	MIL	no
		P0B51	Hybrid/EV Battery Voltage Sense 5 Circuit Low	MIL	no
		P0B52	Hybrid/EV Battery Voltage Sense 5 Circuit High	MIL	no
		P0B50	Hybrid/EV Battery Voltage Sense 5 Circuit Performance	MIL	no
		P1C08	Hybrid/EV Battery Voltage Sense 5 Out of Range Low	MIL	no
		P1C09	Hybrid/EV Battery Voltage Sense 5 Out of Range High	MIL	no
		P0B56	Hybrid/EV Battery Voltage Sense 6 Circuit Low	MIL	no
		P0B57	Hybrid/EV Battery Voltage Sense 6 Circuit High	MIL	no
		P0B55	Hybrid/EV Battery Voltage Sense 6 Circuit Performance	MIL	no
		P1C0A	Hybrid/EV Battery Voltage Sense 6 Out of Range Low	MIL	no
		P1C0B	Hybrid/EV Battery Voltage Sense 6 Out of Range High	MIL	no
		P0BBD	Hybrid Battery Pack Voltage Variation Exceeded Limit	MIL	yes
		P0A9E	Hybrid/EV Battery Temperature Sensor 1 Circuit High	MIL	no
		P0A9D	Hybrid/EV Battery Temperature Sensor 1 Circuit Low	MIL	no
		P1A9B	Hybrid/EV Battery Temperature Sensor 1 Out of Range High	MIL	no
		P1A9A	Hybrid/EV Battery Temperature Sensor 1 Out of Range Low	MIL	no
		P0A9C	Hybrid/EV Battery Temperature Sensor 1 Circuit Performance	MIL	no
		P0AC8	Hybrid/EV Battery Temperature Sensor 2 Circuit High	MIL	no
		P0AC7	Hybrid/EV Battery Temperature Sensor 2 Circuit Low	MIL	no
		P1A9F	Hybrid/EV Battery Temperature Sensor 2 Out of Range High	MIL	no
		P1A9E	Hybrid/EV Battery Temperature Sensor 2 Out of Range Low	MIL	no
		P0AC6	Hybrid/EV Battery Temperature Sensor 2 Circuit Performance	MIL	no
		P0ACD	Hybrid/EV Battery Temperature Sensor 3 Circuit High	MIL	no
		P0ACC	Hybrid/EV Battery Temperature Sensor 3 Circuit Low	MIL	no
		P1AA3	Hybrid/EV Battery Temperature Sensor 3 Out of Range High	MIL	no
		P1AA2	Hybrid/EV Battery Temperature Sensor 3 Out of Range Low	MIL	no
		P0ACB	Hybrid/EV Battery Temperature Sensor 3 Circuit Performance	MIL	no

4	Cell Temp	P0AEB	Hybrid/EV Battery Temperature Sensor 4 Circuit High	MIL	no
		P0AEA	Hybrid/EV Battery Temperature Sensor 4 Circuit Low	MIL	no
		P1AA7	Hybrid/EV Battery Temperature Sensor 4 Out of Range High	MIL	no
		P1AA6	Hybrid/EV Battery Temperature Sensor 4 Out of Range Low	MIL	no
		P0AE9	Hybrid/EV Battery Temperature Sensor 4 Circuit Performance	MIL	no
		P0BC5	Hybrid/EV Battery Temperature Sensor 5 Circuit High	MIL	no
		P0BC4	Hybrid/EV Battery Temperature Sensor 5 Circuit Low	MIL	no
		P1AAB	Hybrid/EV Battery Temperature Sensor 5 Out of Range High	MIL	no
		P1AAA	Hybrid/EV Battery Temperature Sensor 5 Out of Range Low	MIL	no
		P0BC3	Hybrid/EV Battery Temperature Sensor 5 Circuit Performance	MIL	no
		P0C36	Hybrid/EV Battery Temperature Sensor 6 Circuit High	MIL	no
		P0C35	Hybrid/EV Battery Temperature Sensor 6 Circuit Low	MIL	no
		P1AAF	Hybrid/EV Battery Temperature Sensor 6 Out of Range High	MIL	no
		P1AAE	Hybrid/EV Battery Temperature Sensor 6 Out of Range Low	MIL	no
		P0C34	Hybrid/EV Battery Temperature Sensor 6 Circuit Performance	MIL	no
		P0C32	Hybrid/EV Battery Cooling System Performance	Non-MIL	no
5	Cell Balancing	P0DAF	Hybrid/EV Battery Cell Balancing Circuit "A" Range/Performance	Non-MIL	no
		P0DB3	Hybrid/EV Battery Cell Balancing Circuit "B" Range/Performance	Non-MIL	no
		P0DB7	Hybrid/EV Battery Cell Balancing Circuit "C" Range/Performance	Non-MIL	no
		P0DBB	Hybrid/EV Battery Cell Balancing Circuit "D" Range/Performance	Non-MIL	no
		P0DBF	Hybrid/EV Battery Cell Balancing Circuit "E" Range/Performance	Non-MIL	no
		P0DC3	Hybrid/EV Battery Cell Balancing Circuit "F" Range/Performance	Non-MIL	no
6	Current Sensors	U064C	Lost Communication with Hybrid/EV Battery Pack Current Sensor "A"	MIL	no
		P2BE5	Hybrid/EV Battery Pack Current Sensor "C" Circuit Performance	MIL	no
		P2BE6	Hybrid/EV Battery Pack Current Sensor "C" Low	MIL	no
		P2BE7	Hybrid/EV Battery Pack Current Sensor "C" High	MIL	no
		P0AC1	Hybrid Battery Pack Current Sensor 1 Circuit Low	MIL	no
		P0AC2	Hybrid Battery Pack Current Sensor 1 Circuit High	MIL	no
		P0AC0	Hybrid Battery Pack Current Sensor 1 Circuit Performance	MIL	no
		P0B10	Hybrid/EV Battery Pack Current Sensor 2 Circuit Low	MIL	no
		P0B11	Hybrid/EV Battery Pack Current Sensor 2 Circuit High	MIL	no
		P1E71	Battery Pack Current Sensor "B" Out of Range Low	MIL	no
		P1E72	Battery Pack Current Sensor "B" Out of Range High	MIL	no
		P0B0F	Hybrid/EV Battery Pack Current Sensor 2 Circuit Performance	MIL	no
7	BECM Supply Voltage	P0D37	Hybrid/EV Battery System Current High	MIL	no
		P0562	System Voltage Low	MIL	no
		P0563	System Voltage High	MIL	no
		P1A0C	Battery Energy Control Module System Voltage Low	Fault only	no
8	Contactors	P1A0D	Battery Energy Control Module System Voltage High	Fault only	no
		P0AA1	Hybrid/EV Battery Positive Contactor Circuit Stuck Closed	MIL	no
		P0AA2	Hybrid/EV Battery Positive Contactor Circuit Stuck Open	MIL	no
		P0ADC	Hybrid/EV Battery Positive Contactor Control Circuit High	MIL	no
		P0ADB	Hybrid/EV Battery Positive Contactor Control Circuit Low	MIL	no
		P2BCA	Battery Charging System Positive Contactor "B" Control Circuit High	MIL	no
		P2BC9	Battery Charging System Positive Contactor "B" Control Circuit Low	MIL	no
		P0AA4	Hybrid/EV Battery Negative Contactor Circuit Stuck Closed	MIL	no
		P0AA5	Hybrid/EV Battery Negative Contactor Circuit Stuck Open	MIL	no
		P0AE0	Hybrid/EV Battery Negative Contactor Control Circuit High	MIL	no
		P0ADF	Hybrid/EV Battery Negative Contactor Control Circuit Low	MIL	no
		P2BD1	Battery Charging System Negative Contactor "B" Control Circuit High	MIL	no
		P2BD0	Battery Charging System Negative Contactor "B" Control Circuit Low	MIL	no
		P0C78	Hybrid/EV Battery System Precharge Time Too Long	MIL	no
		P0C77	Hybrid/EV Battery System Precharge Time Too Short	MIL	no
		P2C89	Hybrid/EV Battery System Precharge "A" Current Too High	MIL	no
		P0AE7	Hybrid/EV Battery Precharge Contactor Control Circuit High	MIL	no

		P0AE6	Hybrid/EV Battery Precharge Contactor Control Circuit Low	MIL	no
		P2BEB	Hybrid/EV Battery Precharge Contactor Control Circuit "B" High	MIL	no
		P2BEA	Hybrid/EV Battery Precharge Contactor Control Circuit "B" Low	MIL	no
		P1A21	HV Battery Contactor Control Sequence Incorrect	MIL	no
9	MSD/Main Fuse	P0B37	High Voltage Service Disconnect Open	MIL	no - replace MSD
		P0A95	High Voltage Fuse "A"	MIL	no - replace fuse
10	Aux Fuses	P0E30	High Voltage Fuse C	MIL	no - replace fuse
		P0E2F	High Voltage Fuse B	MIL	no - replace fuse
11	HV Sense	P0ABB	Hybrid Battery Pack Voltage Sense 1 Circuit Performance	Non-MIL	no
		P0ABA	Hybrid/EV Battery Pack Voltage Sense "A" Circuit	MIL	no
		P0B14	Hybrid/EV Battery Pack Voltage Sense "B" Circuit	MIL	no
12	Isolation	P0AA7	Hybrid/EV Battery Voltage Isolation Sensor Circuit	MIL	no
		P0AA6	Hybrid Battery Voltage System Isolation Fault	MIL	no - perform loss of isolation
		P1E1B	Hybrid/EV Battery Side Voltage System Isolation	MIL	no - perform loss of isolation
13	HV Interlock	P0A0A	High Voltage System Interlock Circuit "A"	MIL	no - HVIL
		P0A0C	High Voltage System Interlock Circuit "A" Low	MIL	no - HVIL
		P0A0D	High Voltage System Interlock Circuit "A" High	MIL	no - HVIL
		P1E73	High Voltage System Interlock Out of Range Low	Non-MIL	no - HVIL
		P1E74	High Voltage System Interlock Out of Range High	Non-MIL	no - HVIL
		P1AE2	Battery Energy Control Module High Voltage System Interlock Circ	MIL	no - HVIL
		P1AE3	Battery Energy Control Module High Voltage System Interlock Circ	MIL	no - HVIL
		P1AE4	Battery Energy Control Module High Voltage System Interlock Circ	MIL	no - HVIL
		P1E75	Battery Energy Control Module High Voltage System Interlock Out	Non-MIL	no
		P1E76	Battery Energy Control Module High Voltage System Interlock Out	Non-MIL	no
14	Coolant Temp	P0C44	Hybrid Battery Pack Coolant Inlet Temperature Sensor Circuit Low	MIL	no
		P0C45	Hybrid Battery Pack Coolant Inlet Temperature Sensor Circuit High	MIL	no
		P1E77	Hybrid Battery Pack Coolant Inlet Temperature Sensor Out of Range	MIL	no
		P1E78	Hybrid Battery Pack Coolant Inlet Temperature Sensor Out of Range	MIL	no
		P0CD7	Hybrid Battery Pack Coolant Outlet Temperature Sensor Circuit Low	MIL	no
		P0CD8	Hybrid Battery Pack Coolant Outlet Temperature Sensor Circuit High	MIL	no
		P1E79	Hybrid Battery Pack Coolant Outlet Temperature Sensor Out of Range	MIL	no
		P1E7A	Hybrid Battery Pack Coolant Outlet Temperature Sensor Out of Range	MIL	no
15	OBCM Coolant	P0CF0	Hybrid/EV Electronics Coolant Temperature Sensor Circuit Low	MIL	no - Battery Coolant Temp Sensor
		P0CF1	Hybrid/EV Electronics Coolant Temperature Sensor Circuit High	MIL	no - Battery Coolant Temp Sensor
		P1B70	Hybrid/EV Electronics Coolant Temperature Sensor "A" Out of Range	MIL	no
		P1B71	Hybrid/EV Electronics Coolant Temperature Sensor "A" Out of Range	MIL	no
16	Impact	P167B	Controlled System Shutdown	MIL	no
17	Internal BECM HW	P1A01	Battery Energy Control Module EEPROM Failure	MIL	no
		P1A05	Battery Energy Control Module Random Access Memory (RAM)	MIL	no
		P1A06	Battery Energy Control Module Read Only Memory (ROM)	MIL	no
		U0300	Internal Control Module Software Incompatibility	MIL	no
		U3017	Control Module Timer/Clock Performance	MIL	no
18	Comm	U0074	Dedicated Powertrain (D-PT) CAN Bus Off	MIL	no
		U0100	Lost Communication With ECM/PCM	MIL	no - Communication Procedure
		U0293	Lost Communication with Hybrid Control Module	MIL	no - Communication Procedure
		U0594	Implausible Data Received from HCP	MIL	no - Communication Procedure
		U11C5	BPCM Lost Communication with On Board Charging Module	MIL	no

		U0151	Lost Communication with Occupant Restraint Controller (ORC)	MIL	no - Communication Prodecure
		U1008	LIN 1 Bus	MIL	no - Coolant Pump
19	Charge Indicator LEDs	B12AB18	Charge Indicator LED1-Under Current	Non-MIL	no - Charge Ind Temp Assy
		B12AB19	Charge Indicator LED1-Overcurrent	Non-MIL	no - Charge Ind Temp Assy
		B12AC18	Charge Indicator LED2-Under Current	Non-MIL	no - Charge Ind Temp Assy
		B12AC19	Charge Indicator LED2-Overcurrent	Non-MIL	no - Charge Ind Temp Assy
		B12AD18	Charge Indicator LED3-Under Current	Non-MIL	no - Charge Ind Temp Assy
		B12AD19	Charge Indicator LED3-Overcurrent	Non-MIL	no - Charge Ind Temp Assy
		B12AE18	Charge Indicator LED4-Under Current	Non-MIL	no - Charge Ind Temp Assy
		B12AE19	Charge Indicator LED4-Overcurrent	Non-MIL	no - Charge Ind Temp Assy
		B12AF18	Charge Indicator LED5-Under Current	Non-MIL	no - Charge Ind Temp Assy
		B12AF19	Charge Indicator LED5-Overcurrent	Non-MIL	no - Charge Ind Temp Assy
20	Charge Indicator Temp	B12B011	Charge Temperature Indicator-Circuit Short to Ground	Non-MIL	no - Charge Ind Temp Sensor
		B12B012	Charge Temperature Indicator-Circuit Short to Battery	Non-MIL	no - Charge Ind Temp Sensor
		B12B084	Charge Temperature Indicator-Signal Below Allowable Range	Fault only	no - Charge Ind Temp Sensor
		B12B085	Charge Temperature Indicator-Signal Above Allowable Range	Fault only	no - Charge Ind Temp Sensor
21	ePT Wakeup	P1CDC	Hybrid/EV Wakeup Control 1 Output Circuit Short to Ground	MIL	no - EPT ECU WAKE-UP SIGNAL
		P1CDB	Hybrid/EV Wakeup Control 1 Output Circuit Short to Battery	MIL	no - EPT ECU WAKE-UP SIGNAL
22	OBCM Wakeup	P1D7C	Hybrid/EV Wakeup Control 3 Output Circuit Short to Ground	MIL	no - OBC ECU WAKE-UP SIGNAL
		P1D7B	Hybrid/EV Wakeup Control 3 Output Circuit Short to Battery	MIL	no - OBC ECU WAKE-UP SIGNAL
		P1A16	Hybrid/EV Wakeup Control 3 Output Circuit/Open	MIL	no
23	Pack Deterioration	P0A7F	Hybrid/EV Battery Pack Deterioration	MIL	no
24	Cell Deterioration	P1C5E	Battery State of Health Failed	MIL	yes
		P0EDD	Hybrid/EV Battery Pack "B" Deterioration	MIL	yes
		P0BBE	Hybrid Battery Pack Voltage Variation	MIL	yes
		P0BBD	Hybrid Battery Pack Voltage Variation Exceeded Limit	MIL	yes