[redacted]

GDS2 Global Diagnostic System 2

Freeze Frame/Failure Records

Overview

Vehicle Identification Number (VIN)	[redacted]
Report Creation Date	2017-10-02 11:54:32 PDT

Vehicle Configuration Property

Make	Chevrolet
Model	Volt
Model Year	2017
Collision Avoidance (UGN)	Not Equipped
Telematics Communication Interface Control Module Version	10
Engine Identifier	1.5L (L3A)

System Information Property

[redacted]

Vehicle Session Creation Date	2017-10-02 11:10:47
Test Start Time	2017-10-02 11:53:10 PDT

Freeze Frame/Failure Records	DTC Display	Symptom Byte	DTC Description	Symptom Description
Freeze Frame	P1F09	00	Hybrid/EV Battery Interface Control Module 4 Processor Performance	- - -

Parameter Name	Control Module	Value	Unit
Distance with MIL On	Hybrid Powertrain Control Module 2	0	mi
Warm-Ups Since DTC Cleared	Hybrid Powertrain Control Module 2	1	Counts
Distance Since DTC Cleared	Hybrid Powertrain Control Module 2	24	mi
Ignition 1 Signal	Hybrid Powertrain Control Module 2	12.32	V
Ambient Air Temperature	Hybrid Powertrain Control Module 2	66	°F
Distance Since First Malfunction	Hybrid Powertrain Control Module 2	22	mi
Distance Since Last Malfunction	Hybrid Powertrain Control Module 2	22	mi
Ignition Cycles with Malfunction Since 1st Malfunction	Hybrid Powertrain Control Module 2	0	Counts

[redacted]

Ignition Cycles without Malfunction Since Last Malfunction	Hybrid Powertrain Control Module 2	0	Counts
Ignition Cycles without Completed Test Since 1st Malfunction	Hybrid Powertrain Control Module 2	0	Counts
Cooling Fan Motor Command	Hybrid Powertrain Control Module 2	0	%
Engine Hood Switch	Hybrid Powertrain Control Module 2	1.61	V
Shutdown Mode	Hybrid Powertrain Control Module 2	Yes	
Hybrid/EV Battery System Precharge Current Too High	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery System Precharge Time Too Long	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery System Precharge Time Too Short	Hybrid Powertrain Control Module 2	No	
Discharging	Hybrid Powertrain Control Module 2	No	
Stuck Open	Hybrid Powertrain Control Module 2	Yes	
Overtemperature	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Powertrain Control Module Request	Hybrid Powertrain Control Module 2	No	
Air Bag Deployed	Hybrid Powertrain Control Module 2	No	
Crash Event Detected	Hybrid Powertrain Control Module 2	No	
High Voltage Interlock Circuit Fault	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery Pack Resistance	Hybrid Powertrain Control Module 2	311.00	Ohm
Hybrid/EV Battery Pack Capacity	Hybrid Powertrain Control Module 2	01F6	
Power Requested by Electric A/C Compressor from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.58	kW
Power Delivered to Electric A/C Compressor from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.58	kW
Power Requested by Electric Passenger Compartment Heater from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Power Delivered to Electric Passenger Compartment Heater from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Pack Heater Power Request	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Pack Heater Power Command	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Voltage Sensors Average	Hybrid Powertrain Control Module 2	3.88	V

[redacted]

Hybrid/EV Battery Positive Contactor Command	Hybrid Powertrain Control Module 2	Closed	
Hybrid/EV Battery Negative Contactor Command	Hybrid Powertrain Control Module 2	Closed	
Hybrid/EV Battery Pack Precharge Contactor Command	Hybrid Powertrain Control Module 2	Open	
High Voltage System Interlock Circuit	Hybrid Powertrain Control Module 2	Energized	
High Voltage System Interlock Circuit Status	Hybrid Powertrain Control Module 2	Closed Circuit	
Minimum Hybrid/EV Battery Module Voltage	Hybrid Powertrain Control Module 2	3.86	V
Hybrid/EV Battery Voltage Sensor with Minimum Value	Hybrid Powertrain Control Module 2	64	
Maximum Hybrid/EV Battery Module Voltage	Hybrid Powertrain Control Module 2	3.88	V
Hybrid/EV Battery Voltage Sensor with Maximum Value	Hybrid Powertrain Control Module 2	44	
Hybrid/EV Battery Pack Voltage	Hybrid Powertrain Control Module 2	372.32	V
State of Charge	Hybrid Powertrain Control Module 2	73	%
Hybrid/EV Battery Pack Maximum Discharge Power Limit	Hybrid Powertrain Control Module 2	120.00	kW
Hybrid/EV Battery Pack Maximum Charge Power Limit	Hybrid Powertrain Control Module 2	60.00	kW
Hybrid/EV Battery Pack Minimum State of Charge Limit	Hybrid Powertrain Control Module 2	11	%
Maximum Hybrid/EV Battery Module Temperature	Hybrid Powertrain Control Module 2	70	°F
Minimum Hybrid/EV Battery Module Temperature	Hybrid Powertrain Control Module 2	68	°F
Hybrid/EV Battery Temperature Sensor with Maximum Value	Hybrid Powertrain Control Module 2	6	
Hybrid/EV Battery Temperature Sensor with Minimum Value	Hybrid Powertrain Control Module 2	1	
Average Hybrid/EV Battery Pack Temperature	Hybrid Powertrain Control Module 2	68	°F
Hybrid/EV Battery Pack Current	Hybrid Powertrain Control Module 2	-21.90	A
Battery Charger High Output	Hybrid Powertrain Control Module 2	373.00	V
Battery Charger High Output	Hybrid Powertrain Control Module 2	0.00	A
Battery Charging System	Hybrid Powertrain Control Module 2	Not OK	
Battery Charging System Operating Conditions	Hybrid Powertrain Control Module 2	No	

Battery Charging System Sensors	Hybrid Powertrain Control Module 2	Not OK	
Battery Charger Input 240V AC	Hybrid Powertrain Control Module 2	No	
Battery Charger Input 120V AC	Hybrid Powertrain Control Module 2	No	
Isolation Test Resistance	Hybrid Powertrain Control Module 2	2925.00	kOhm
Hybrid/EV Battery Thermal Conditioning Request	Hybrid Powertrain Control Module 2	Not Requested	
Hybrid/EV Battery Thermal Conditioning Status	Hybrid Powertrain Control Module 2	Bypass	
Hybrid/EV Battery Thermal Conditioning Request	Hybrid Powertrain Control Module 2	Not Requested	
Hybrid/EV Battery Thermal Conditioning Status	Hybrid Powertrain Control Module 2	Bypass	
Power Mode	Hybrid Powertrain Control Module 2	Run	
Ambient Air Temperature Sensor	Hybrid Powertrain Control Module 2	19.0	°C
Ambient Air Temperature (Filtered)	Hybrid Powertrain Control Module 2	66	°F

Freeze Frame/Failure Records	DTC Display	Symptom Byte	DTC Description	Symptom Description
Failure Record 1	U2618	00	Battery Energy Control Module Lost Communication with Hybrid/EV Battery Interface Control Module 6	- - -

Parameter Name	Control Module	Value	Unit
Distance with MIL On	Hybrid Powertrain Control Module 2	0	mi
Warm-Ups Since DTC Cleared	Hybrid Powertrain Control Module 2	10	Counts
Distance Since DTC Cleared	Hybrid Powertrain Control Module 2	343	mi
Ignition 1 Signal	Hybrid Powertrain Control Module 2	12.48	V
Ambient Air Temperature	Hybrid Powertrain Control Module 2	52	°F
Distance Since First Malfunction	Hybrid Powertrain Control Module 2	342	mi
Distance Since Last Malfunction	Hybrid Powertrain Control Module 2	342	mi
Ignition Cycles with Malfunction Since 1st Malfunction	Hybrid Powertrain Control Module 2	1	Counts
Ignition Cycles without Malfunction Since Last Malfunction	Hybrid Powertrain Control Module 2	0	Counts

Ignition Cycles without Completed Test Since 1st Malfunction	Hybrid Powertrain Control Module 2	0	Counts
Cooling Fan Motor Command	Hybrid Powertrain Control Module 2	0	%
Engine Hood Switch	Hybrid Powertrain Control Module 2	1.59	V
Shutdown Mode	Hybrid Powertrain Control Module 2	Yes	
Hybrid/EV Battery System Precharge Current Too High	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery System Precharge Time Too Long	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery System Precharge Time Too Short	Hybrid Powertrain Control Module 2	No	
Discharging	Hybrid Powertrain Control Module 2	No	
Stuck Open	Hybrid Powertrain Control Module 2	Yes	
Overtemperature	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Powertrain Control Module Request	Hybrid Powertrain Control Module 2	No	
Air Bag Deployed	Hybrid Powertrain Control Module 2	No	
Crash Event Detected	Hybrid Powertrain Control Module 2	No	
High Voltage Interlock Circuit Fault	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery Pack Resistance	Hybrid Powertrain Control Module 2	360.00	Ohm
Hybrid/EV Battery Pack Capacity	Hybrid Powertrain Control Module 2	01F7	
Power Requested by Electric A/C Compressor from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Power Delivered to Electric A/C Compressor from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Power Requested by Electric Passenger Compartment Heater from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	5.00	kW
Power Delivered to Electric Passenger Compartment Heater from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Pack Heater Power Request	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Pack Heater Power Command	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Voltage Sensors Average	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Positive Contactor Command	Hybrid Powertrain Control Module 2	Closed	

Hybrid/EV Battery Negative Contactor Command	Hybrid Powertrain Control Module 2	Closed	
Hybrid/EV Battery Pack Precharge Contactor Command	Hybrid Powertrain Control Module 2	Open	
High Voltage System Interlock Circuit	Hybrid Powertrain Control Module 2	Energized	
High Voltage System Interlock Circuit Status	Hybrid Powertrain Control Module 2	Closed Circuit	
Minimum Hybrid/EV Battery Module Voltage	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Voltage Sensor with Minimum Value	Hybrid Powertrain Control Module 2	64	
Maximum Hybrid/EV Battery Module Voltage	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Voltage Sensor with Maximum Value	Hybrid Powertrain Control Module 2	61	
Hybrid/EV Battery Pack Voltage	Hybrid Powertrain Control Module 2	342.16	V
State of Charge	Hybrid Powertrain Control Module 2	29	%
Hybrid/EV Battery Pack Maximum Discharge Power Limit	Hybrid Powertrain Control Module 2	105.30	kW
Hybrid/EV Battery Pack Maximum Charge Power Limit	Hybrid Powertrain Control Module 2	53.20	kW
Hybrid/EV Battery Pack Minimum State of Charge Limit	Hybrid Powertrain Control Module 2	23	%
Maximum Hybrid/EV Battery Module Temperature	Hybrid Powertrain Control Module 2	70	°F
Minimum Hybrid/EV Battery Module Temperature	Hybrid Powertrain Control Module 2	63	°F
Hybrid/EV Battery Temperature Sensor with Maximum Value	Hybrid Powertrain Control Module 2	6	
Hybrid/EV Battery Temperature Sensor with Minimum Value	Hybrid Powertrain Control Module 2	1	
Average Hybrid/EV Battery Pack Temperature	Hybrid Powertrain Control Module 2	64	°F
Hybrid/EV Battery Pack Current	Hybrid Powertrain Control Module 2	-3.15	A
Battery Charger High Output	Hybrid Powertrain Control Module 2	343.50	V
Battery Charger High Output	Hybrid Powertrain Control Module 2	0.00	A
Battery Charging System	Hybrid Powertrain Control Module 2	Not OK	
Battery Charging System Operating Conditions	Hybrid Powertrain Control Module 2	No	
Battery Charging System Sensors	Hybrid Powertrain Control Module 2	Not OK	

Battery Charger Input 240V AC	Hybrid Powertrain Control Module 2	No	
Battery Charger Input 120V AC	Hybrid Powertrain Control Module 2	No	
Isolation Test Resistance	Hybrid Powertrain Control Module 2	2925.00	kOhm
Hybrid/EV Battery Thermal Conditioning Request	Hybrid Powertrain Control Module 2	Not Requested	
Hybrid/EV Battery Thermal Conditioning Status	Hybrid Powertrain Control Module 2	Bypass	
Hybrid/EV Battery Thermal Conditioning Request	Hybrid Powertrain Control Module 2	Not Requested	
Hybrid/EV Battery Thermal Conditioning Status	Hybrid Powertrain Control Module 2	Bypass	
Power Mode	Hybrid Powertrain Control Module 2	Run	
Ambient Air Temperature Sensor	Hybrid Powertrain Control Module 2	11.0	°C
Ambient Air Temperature (Filtered)	Hybrid Powertrain Control Module 2	52	°F

Freeze Frame/Failure Records	DTC Display	Symptom Byte	DTC Description	Symptom Description
Failure Record 2	U2617	00	Battery Energy Control Module Lost Communication with Hybrid/EV Battery Interface Control Module 5	- - -

Parameter Name	Control Module	Value	Unit
Distance with MIL On	Hybrid Powertrain Control Module 2	0	mi
Warm-Ups Since DTC Cleared	Hybrid Powertrain Control Module 2	10	Counts
Distance Since DTC Cleared	Hybrid Powertrain Control Module 2	343	mi
Ignition 1 Signal	Hybrid Powertrain Control Module 2	12.48	V
Ambient Air Temperature	Hybrid Powertrain Control Module 2	52	°F
Distance Since First Malfunction	Hybrid Powertrain Control Module 2	342	mi
Distance Since Last Malfunction	Hybrid Powertrain Control Module 2	342	mi
Ignition Cycles with Malfunction Since 1st Malfunction	Hybrid Powertrain Control Module 2	1	Counts
Ignition Cycles without Malfunction Since Last Malfunction	Hybrid Powertrain Control Module 2	0	Counts
Ignition Cycles without Completed Test Since 1st Malfunction	Hybrid Powertrain Control Module 2	0	Counts

Cooling Fan Motor Command	Hybrid Powertrain Control Module 2	0	%
Engine Hood Switch	Hybrid Powertrain Control Module 2	1.59	V
Shutdown Mode	Hybrid Powertrain Control Module 2	Yes	
Hybrid/EV Battery System Precharge Current Too High	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery System Precharge Time Too Long	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery System Precharge Time Too Short	Hybrid Powertrain Control Module 2	No	
Discharging	Hybrid Powertrain Control Module 2	No	
Stuck Open	Hybrid Powertrain Control Module 2	Yes	
Overtemperature	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Powertrain Control Module Request	Hybrid Powertrain Control Module 2	No	
Air Bag Deployed	Hybrid Powertrain Control Module 2	No	
Crash Event Detected	Hybrid Powertrain Control Module 2	No	
High Voltage Interlock Circuit Fault	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery Pack Resistance	Hybrid Powertrain Control Module 2	360.00	Ohm
Hybrid/EV Battery Pack Capacity	Hybrid Powertrain Control Module 2	01F7	
Power Requested by Electric A/C Compressor from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Power Delivered to Electric A/C Compressor from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Power Requested by Electric Passenger Compartment Heater from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	5.00	kW
Power Delivered to Electric Passenger Compartment Heater from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Pack Heater Power Request	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Pack Heater Power Command	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Voltage Sensors Average	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Positive Contactor Command	Hybrid Powertrain Control Module 2	Closed	
Hybrid/EV Battery Negative Contactor Command	Hybrid Powertrain Control Module 2	Closed	

[redacted]

Hybrid/EV Battery Pack Precharge Contactor Command	Hybrid Powertrain Control Module 2	Open	
High Voltage System Interlock Circuit	Hybrid Powertrain Control Module 2	Energized	
High Voltage System Interlock Circuit Status	Hybrid Powertrain Control Module 2	Closed Circuit	
Minimum Hybrid/EV Battery Module Voltage	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Voltage Sensor with Minimum Value	Hybrid Powertrain Control Module 2	64	
Maximum Hybrid/EV Battery Module Voltage	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Voltage Sensor with Maximum Value	Hybrid Powertrain Control Module 2	61	
Hybrid/EV Battery Pack Voltage	Hybrid Powertrain Control Module 2	342.16	V
State of Charge	Hybrid Powertrain Control Module 2	29	%
Hybrid/EV Battery Pack Maximum Discharge Power Limit	Hybrid Powertrain Control Module 2	105.30	kW
Hybrid/EV Battery Pack Maximum Charge Power Limit	Hybrid Powertrain Control Module 2	53.20	kW
Hybrid/EV Battery Pack Minimum State of Charge Limit	Hybrid Powertrain Control Module 2	23	%
Maximum Hybrid/EV Battery Module Temperature	Hybrid Powertrain Control Module 2	70	°F
Minimum Hybrid/EV Battery Module Temperature	Hybrid Powertrain Control Module 2	63	°F
Hybrid/EV Battery Temperature Sensor with Maximum Value	Hybrid Powertrain Control Module 2	6	
Hybrid/EV Battery Temperature Sensor with Minimum Value	Hybrid Powertrain Control Module 2	1	
Average Hybrid/EV Battery Pack Temperature	Hybrid Powertrain Control Module 2	64	°F
Hybrid/EV Battery Pack Current	Hybrid Powertrain Control Module 2	-3.60	A
Battery Charger High Output	Hybrid Powertrain Control Module 2	343.50	V
Battery Charger High Output	Hybrid Powertrain Control Module 2	0.00	A
Battery Charging System	Hybrid Powertrain Control Module 2	Not OK	
Battery Charging System Operating Conditions	Hybrid Powertrain Control Module 2	No	
Battery Charging System Sensors	Hybrid Powertrain Control Module 2	Not OK	
Battery Charger Input 240V AC	Hybrid Powertrain Control Module 2	No	

Battery Charger Input 120V AC	Hybrid Powertrain Control Module 2	No	
Isolation Test Resistance	Hybrid Powertrain Control Module 2	2925.00	kOhm
Hybrid/EV Battery Thermal Conditioning Request	Hybrid Powertrain Control Module 2	Not Requested	
Hybrid/EV Battery Thermal Conditioning Status	Hybrid Powertrain Control Module 2	Bypass	
Hybrid/EV Battery Thermal Conditioning Request	Hybrid Powertrain Control Module 2	Not Requested	
Hybrid/EV Battery Thermal Conditioning Status	Hybrid Powertrain Control Module 2	Bypass	
Power Mode	Hybrid Powertrain Control Module 2	Run	
Ambient Air Temperature Sensor	Hybrid Powertrain Control Module 2	11.0	°C
Ambient Air Temperature (Filtered)	Hybrid Powertrain Control Module 2	52	°F

Freeze Frame/Failure Records	DTC Display	Symptom Byte	DTC Description	Symptom Description
Failure Record 3	U2606	00	Battery Energy Control Module Lost Communication with Hybrid/EV Battery Interface Control Module 4	- - -

Parameter Name	Control Module	Value	Unit
Distance with MIL On	Hybrid Powertrain Control Module 2	101	mi
Warm-Ups Since DTC Cleared	Hybrid Powertrain Control Module 2	10	Counts
Distance Since DTC Cleared	Hybrid Powertrain Control Module 2	343	mi
Ignition 1 Signal	Hybrid Powertrain Control Module 2	12.48	V
Ambient Air Temperature	Hybrid Powertrain Control Module 2	52	°F
Distance Since First Malfunction	Hybrid Powertrain Control Module 2	342	mi
Distance Since Last Malfunction	Hybrid Powertrain Control Module 2	342	mi
Ignition Cycles with Malfunction Since 1st Malfunction	Hybrid Powertrain Control Module 2	1	Counts
Ignition Cycles without Malfunction Since Last Malfunction	Hybrid Powertrain Control Module 2	0	Counts
Ignition Cycles without Completed Test Since 1st Malfunction	Hybrid Powertrain Control Module 2	0	Counts
Cooling Fan Motor Command	Hybrid Powertrain Control Module 2	0	%

Engine Hood Switch	Hybrid Powertrain Control Module 2	1.59	V
Shutdown Mode	Hybrid Powertrain Control Module 2	Yes	
Hybrid/EV Battery System Precharge Current Too High	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery System Precharge Time Too Long	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery System Precharge Time Too Short	Hybrid Powertrain Control Module 2	No	
Discharging	Hybrid Powertrain Control Module 2	No	
Stuck Open	Hybrid Powertrain Control Module 2	Yes	
Overtemperature	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Powertrain Control Module Request	Hybrid Powertrain Control Module 2	No	
Air Bag Deployed	Hybrid Powertrain Control Module 2	No	
Crash Event Detected	Hybrid Powertrain Control Module 2	No	
High Voltage Interlock Circuit Fault	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery Pack Resistance	Hybrid Powertrain Control Module 2	360.00	Ohm
Hybrid/EV Battery Pack Capacity	Hybrid Powertrain Control Module 2	01F7	
Power Requested by Electric A/C Compressor from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Power Delivered to Electric A/C Compressor from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Power Requested by Electric Passenger Compartment Heater from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	5.00	kW
Power Delivered to Electric Passenger Compartment Heater from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Pack Heater Power Request	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Pack Heater Power Command	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Voltage Sensors Average	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Positive Contactor Command	Hybrid Powertrain Control Module 2	Closed	
Hybrid/EV Battery Negative Contactor Command	Hybrid Powertrain Control Module 2	Closed	
Hybrid/EV Battery Pack Precharge Contactor Command	Hybrid Powertrain Control Module 2	Open	

[redacted]

High Voltage System Interlock Circuit	Hybrid Powertrain Control Module 2	Energized	
High Voltage System Interlock Circuit Status	Hybrid Powertrain Control Module 2	Closed Circuit	
Minimum Hybrid/EV Battery Module Voltage	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Voltage Sensor with Minimum Value	Hybrid Powertrain Control Module 2	64	
Maximum Hybrid/EV Battery Module Voltage	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Voltage Sensor with Maximum Value	Hybrid Powertrain Control Module 2	61	
Hybrid/EV Battery Pack Voltage	Hybrid Powertrain Control Module 2	342.16	V
State of Charge	Hybrid Powertrain Control Module 2	29	%
Hybrid/EV Battery Pack Maximum Discharge Power Limit	Hybrid Powertrain Control Module 2	107.90	kW
Hybrid/EV Battery Pack Maximum Charge Power Limit	Hybrid Powertrain Control Module 2	54.40	kW
Hybrid/EV Battery Pack Minimum State of Charge Limit	Hybrid Powertrain Control Module 2	23	%
Maximum Hybrid/EV Battery Module Temperature	Hybrid Powertrain Control Module 2	70	°F
Minimum Hybrid/EV Battery Module Temperature	Hybrid Powertrain Control Module 2	63	°F
Hybrid/EV Battery Temperature Sensor with Maximum Value	Hybrid Powertrain Control Module 2	6	
Hybrid/EV Battery Temperature Sensor with Minimum Value	Hybrid Powertrain Control Module 2	1	
Average Hybrid/EV Battery Pack Temperature	Hybrid Powertrain Control Module 2	64	°F
Hybrid/EV Battery Pack Current	Hybrid Powertrain Control Module 2	-4.20	A
Battery Charger High Output	Hybrid Powertrain Control Module 2	343.50	V
Battery Charger High Output	Hybrid Powertrain Control Module 2	0.00	A
Battery Charging System	Hybrid Powertrain Control Module 2	Not OK	
Battery Charging System Operating Conditions	Hybrid Powertrain Control Module 2	No	
Battery Charging System Sensors	Hybrid Powertrain Control Module 2	Not OK	
Battery Charger Input 240V AC	Hybrid Powertrain Control Module 2	No	
Battery Charger Input 120V AC	Hybrid Powertrain Control Module 2	No	

Isolation Test Resistance	Hybrid Powertrain Control Module 2	2925.00	kOhm
Hybrid/EV Battery Thermal Conditioning Request	Hybrid Powertrain Control Module 2	Not Requested	
Hybrid/EV Battery Thermal Conditioning Status	Hybrid Powertrain Control Module 2	Bypass	
Hybrid/EV Battery Thermal Conditioning Request	Hybrid Powertrain Control Module 2	Not Requested	
Hybrid/EV Battery Thermal Conditioning Status	Hybrid Powertrain Control Module 2	Bypass	
Power Mode	Hybrid Powertrain Control Module 2	Run	
Ambient Air Temperature Sensor	Hybrid Powertrain Control Module 2	11.0	°C
Ambient Air Temperature (Filtered)	Hybrid Powertrain Control Module 2	52	°F

Freeze Frame/Failure Records	DTC Display	Symptom Byte	DTC Description	Symptom Description
Failure Record 4	U2605	00	Battery Energy Control Module Lost Communication with Hybrid/EV Battery Interface Control Module 3	- - -

Parameter Name	Control Module	Value	Unit
Distance with MIL On	Hybrid Powertrain Control Module 2	101	mi
Warm-Ups Since DTC Cleared	Hybrid Powertrain Control Module 2	10	Counts
Distance Since DTC Cleared	Hybrid Powertrain Control Module 2	343	mi
Ignition 1 Signal	Hybrid Powertrain Control Module 2	12.53	V
Ambient Air Temperature	Hybrid Powertrain Control Module 2	52	°F
Distance Since First Malfunction	Hybrid Powertrain Control Module 2	342	mi
Distance Since Last Malfunction	Hybrid Powertrain Control Module 2	342	mi
Ignition Cycles with Malfunction Since 1st Malfunction	Hybrid Powertrain Control Module 2	1	Counts
Ignition Cycles without Malfunction Since Last Malfunction	Hybrid Powertrain Control Module 2	0	Counts
Ignition Cycles without Completed Test Since 1st Malfunction	Hybrid Powertrain Control Module 2	0	Counts
Cooling Fan Motor Command	Hybrid Powertrain Control Module 2	0	%
Engine Hood Switch	Hybrid Powertrain Control Module 2	1.61	V

Shutdown Mode	Hybrid Powertrain Control Module 2	Yes	
Hybrid/EV Battery System Precharge Current Too High	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery System Precharge Time Too Long	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery System Precharge Time Too Short	Hybrid Powertrain Control Module 2	No	
Discharging	Hybrid Powertrain Control Module 2	No	
Stuck Open	Hybrid Powertrain Control Module 2	Yes	
Overtemperature	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Powertrain Control Module Request	Hybrid Powertrain Control Module 2	No	
Air Bag Deployed	Hybrid Powertrain Control Module 2	No	
Crash Event Detected	Hybrid Powertrain Control Module 2	No	
High Voltage Interlock Circuit Fault	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery Pack Resistance	Hybrid Powertrain Control Module 2	360.00	Ohm
Hybrid/EV Battery Pack Capacity	Hybrid Powertrain Control Module 2	01F7	
Power Requested by Electric A/C Compressor from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Power Delivered to Electric A/C Compressor from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Power Requested by Electric Passenger Compartment Heater from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	5.00	kW
Power Delivered to Electric Passenger Compartment Heater from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Pack Heater Power Request	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Pack Heater Power Command	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Voltage Sensors Average	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Positive Contactor Command	Hybrid Powertrain Control Module 2	Closed	
Hybrid/EV Battery Negative Contactor Command	Hybrid Powertrain Control Module 2	Closed	
Hybrid/EV Battery Pack Precharge Contactor Command	Hybrid Powertrain Control Module 2	Open	
High Voltage System Interlock Circuit	Hybrid Powertrain Control Module 2	Energized	

High Voltage System Interlock Circuit Status	Hybrid Powertrain Control Module 2	Closed Circuit	
Minimum Hybrid/EV Battery Module Voltage	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Voltage Sensor with Minimum Value	Hybrid Powertrain Control Module 2	1	
Maximum Hybrid/EV Battery Module Voltage	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Voltage Sensor with Maximum Value	Hybrid Powertrain Control Module 2	88	
Hybrid/EV Battery Pack Voltage	Hybrid Powertrain Control Module 2	342.16	V
State of Charge	Hybrid Powertrain Control Module 2	29	%
Hybrid/EV Battery Pack Maximum Discharge Power Limit	Hybrid Powertrain Control Module 2	110.70	kW
Hybrid/EV Battery Pack Maximum Charge Power Limit	Hybrid Powertrain Control Module 2	55.70	kW
Hybrid/EV Battery Pack Minimum State of Charge Limit	Hybrid Powertrain Control Module 2	23	%
Maximum Hybrid/EV Battery Module Temperature	Hybrid Powertrain Control Module 2	70	°F
Minimum Hybrid/EV Battery Module Temperature	Hybrid Powertrain Control Module 2	63	°F
Hybrid/EV Battery Temperature Sensor with Maximum Value	Hybrid Powertrain Control Module 2	6	
Hybrid/EV Battery Temperature Sensor with Minimum Value	Hybrid Powertrain Control Module 2	1	
Average Hybrid/EV Battery Pack Temperature	Hybrid Powertrain Control Module 2	64	°F
Hybrid/EV Battery Pack Current	Hybrid Powertrain Control Module 2	-4.50	A
Battery Charger High Output	Hybrid Powertrain Control Module 2	343.00	V
Battery Charger High Output	Hybrid Powertrain Control Module 2	0.00	A
Battery Charging System	Hybrid Powertrain Control Module 2	Not OK	
Battery Charging System Operating Conditions	Hybrid Powertrain Control Module 2	No	
Battery Charging System Sensors	Hybrid Powertrain Control Module 2	Not OK	
Battery Charger Input 240V AC	Hybrid Powertrain Control Module 2	No	
Battery Charger Input 120V AC	Hybrid Powertrain Control Module 2	No	
Isolation Test Resistance	Hybrid Powertrain Control Module 2	2925.00	kOhm

Hybrid/EV Battery Thermal Conditioning Request	Hybrid Powertrain Control Module 2	Not Requested	
Hybrid/EV Battery Thermal Conditioning Status	Hybrid Powertrain Control Module 2	Bypass	
Hybrid/EV Battery Thermal Conditioning Request	Hybrid Powertrain Control Module 2	Not Requested	
Hybrid/EV Battery Thermal Conditioning Status	Hybrid Powertrain Control Module 2	Bypass	
Power Mode	Hybrid Powertrain Control Module 2	Run	
Ambient Air Temperature Sensor	Hybrid Powertrain Control Module 2	11.0	°C
Ambient Air Temperature (Filtered)	Hybrid Powertrain Control Module 2	52	°F

Freeze Frame/Failure Records	DTC Display	Symptom Byte	DTC Description	Symptom Description
Failure Record 5	U2604	00	Battery Energy Control Module Lost Communication with Hybrid/EV Battery Interface Control Module 2	- - -

Parameter Name	Control Module	Value	Unit
Distance with MIL On	Hybrid Powertrain Control Module 2	101	mi
Warm-Ups Since DTC Cleared	Hybrid Powertrain Control Module 2	10	Counts
Distance Since DTC Cleared	Hybrid Powertrain Control Module 2	343	mi
Ignition 1 Signal	Hybrid Powertrain Control Module 2	12.53	V
Ambient Air Temperature	Hybrid Powertrain Control Module 2	52	°F
Distance Since First Malfunction	Hybrid Powertrain Control Module 2	342	mi
Distance Since Last Malfunction	Hybrid Powertrain Control Module 2	342	mi
Ignition Cycles with Malfunction Since 1st Malfunction	Hybrid Powertrain Control Module 2	1	Counts
Ignition Cycles without Malfunction Since Last Malfunction	Hybrid Powertrain Control Module 2	0	Counts
Ignition Cycles without Completed Test Since 1st Malfunction	Hybrid Powertrain Control Module 2	0	Counts
Cooling Fan Motor Command	Hybrid Powertrain Control Module 2	0	%
Engine Hood Switch	Hybrid Powertrain Control Module 2	1.61	V
Shutdown Mode	Hybrid Powertrain Control Module 2	Yes	

Hybrid/EV Battery System Precharge Current Too High	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery System Precharge Time Too Long	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery System Precharge Time Too Short	Hybrid Powertrain Control Module 2	No	
Discharging	Hybrid Powertrain Control Module 2	No	
Stuck Open	Hybrid Powertrain Control Module 2	Yes	
Overtemperature	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Powertrain Control Module Request	Hybrid Powertrain Control Module 2	No	
Air Bag Deployed	Hybrid Powertrain Control Module 2	No	
Crash Event Detected	Hybrid Powertrain Control Module 2	No	
High Voltage Interlock Circuit Fault	Hybrid Powertrain Control Module 2	No	
Hybrid/EV Battery Pack Resistance	Hybrid Powertrain Control Module 2	360.00	Ohm
Hybrid/EV Battery Pack Capacity	Hybrid Powertrain Control Module 2	01F7	
Power Requested by Electric A/C Compressor from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Power Delivered to Electric A/C Compressor from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Power Requested by Electric Passenger Compartment Heater from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	5.00	kW
Power Delivered to Electric Passenger Compartment Heater from Hybrid/EV Battery Pack	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Pack Heater Power Request	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Pack Heater Power Command	Hybrid Powertrain Control Module 2	0.00	kW
Hybrid/EV Battery Voltage Sensors Average	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Positive Contactor Command	Hybrid Powertrain Control Module 2	Closed	
Hybrid/EV Battery Negative Contactor Command	Hybrid Powertrain Control Module 2	Closed	
Hybrid/EV Battery Pack Precharge Contactor Command	Hybrid Powertrain Control Module 2	Open	
High Voltage System Interlock Circuit	Hybrid Powertrain Control Module 2	Energized	
High Voltage System Interlock Circuit Status	Hybrid Powertrain Control Module 2	Closed Circuit	

Minimum Hybrid/EV Battery Module Voltage	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Voltage Sensor with Minimum Value	Hybrid Powertrain Control Module 2	1	
Maximum Hybrid/EV Battery Module Voltage	Hybrid Powertrain Control Module 2	3.56	V
Hybrid/EV Battery Voltage Sensor with Maximum Value	Hybrid Powertrain Control Module 2	88	
Hybrid/EV Battery Pack Voltage	Hybrid Powertrain Control Module 2	341.64	V
State of Charge	Hybrid Powertrain Control Module 2	29	%
Hybrid/EV Battery Pack Maximum Discharge Power Limit	Hybrid Powertrain Control Module 2	110.70	kW
Hybrid/EV Battery Pack Maximum Charge Power Limit	Hybrid Powertrain Control Module 2	55.70	kW
Hybrid/EV Battery Pack Minimum State of Charge Limit	Hybrid Powertrain Control Module 2	23	%
Maximum Hybrid/EV Battery Module Temperature	Hybrid Powertrain Control Module 2	70	°F
Minimum Hybrid/EV Battery Module Temperature	Hybrid Powertrain Control Module 2	63	°F
Hybrid/EV Battery Temperature Sensor with Maximum Value	Hybrid Powertrain Control Module 2	6	
Hybrid/EV Battery Temperature Sensor with Minimum Value	Hybrid Powertrain Control Module 2	1	
Average Hybrid/EV Battery Pack Temperature	Hybrid Powertrain Control Module 2	64	°F
Hybrid/EV Battery Pack Current	Hybrid Powertrain Control Module 2	-12.75	A
Battery Charger High Output	Hybrid Powertrain Control Module 2	342.50	V
Battery Charger High Output	Hybrid Powertrain Control Module 2	0.00	A
Battery Charging System	Hybrid Powertrain Control Module 2	Not OK	
Battery Charging System Operating Conditions	Hybrid Powertrain Control Module 2	No	
Battery Charging System Sensors	Hybrid Powertrain Control Module 2	Not OK	
Battery Charger Input 240V AC	Hybrid Powertrain Control Module 2	No	
Battery Charger Input 120V AC	Hybrid Powertrain Control Module 2	No	
Isolation Test Resistance	Hybrid Powertrain Control Module 2	2925.00	kOhm
Hybrid/EV Battery Thermal Conditioning Request	Hybrid Powertrain Control Module 2	Not Requested	

Hybrid/EV Battery Thermal Conditioning Status	Hybrid Powertrain Control Module 2	Bypass	
Hybrid/EV Battery Thermal Conditioning Request	Hybrid Powertrain Control Module 2	Not Requested	
Hybrid/EV Battery Thermal Conditioning Status	Hybrid Powertrain Control Module 2	Bypass	
Power Mode	Hybrid Powertrain Control Module 2	Run	
Ambient Air Temperature Sensor	Hybrid Powertrain Control Module 2	11.0	°C
Ambient Air Temperature (Filtered)	Hybrid Powertrain Control Module 2	52	°F