



WI
TECH 2.0

CONFIGURATION REPORT

Vehicle
VIN

DI TURBO ENGINE

Odometer

Publication Date

ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	CURRENT VIN	ORIGINAL VIN	PART #
TCM	Transmission Control Module	CAN-C				
PCM	Powertrain Control Module	CAN-C				
ASBS	Automatic Sway Bar System	CAN-C				
ICS	Integrated Center Stack	CAN-I				
TPM	Tire Pressure Monitor	CAN-C				
RFH	Radio Frequency Hub	CAN-C				
ESM	Electronic Shifter	CAN-C				
DTCM	Drive Train Control Module	CAN-C				
ORC	Occupant Restraint	CAN-C				
EPS	Electric Power Steering	CAN-C				
HVAC	Heat, Ventilation and A/C	CAN-I				
CSWM	Comfort Seat Wheel Module	CAN-I				
AMP	Amplifier	CAN-I				
IPC	Instrument Panel Cluster	CAN-C				
PTS	Parktronics	CAN-C				
SCCM	Steering Column Control Module	CAN-C				
BCM	Body Controller	CAN-C				
RADIO	Radio	CAN-I				
OCM	Occupant Classification	CAN-C				

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	Control Module	CAN-C
	Hybrid Control Processor	CAN-C
CVM	Central vision processing module	CAN-I
	Auxiliary Hybrid Control Processor	CAN-C
ABS0	Anti Lock Brakes OBD	CAN-C
SGW	Security Gateway Module	CAN-C
DPDM	Driver Presence Detection Module	CAN-C
DASM	Driver Assistance System Module	CAN-C
IDCM	Integrated Dual Charge Module	CAN-C

ECU SUM

[illegible]

HCP	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
CVPM	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
AHCP	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ABSO	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
SGW	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
DPMM	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
DASM	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

CONFIGURATION

TCM CONFIGURATION

NAME	VALUE	UNITS
Autostick/ERS On/Off Switch Equipped	[REDACTED]	
Paddle-Shift Switches Equipped	[REDACTED]	
Shifter with Sport Mode Position Equipped	[REDACTED]	
Shifter with Low Mode Position Equipped	[REDACTED]	
Sport Mode Switch or Virtual Switch (Non-Terrain) Equipped	[REDACTED]	
Overdrive Off or Tow Haul Mode Switch or Virtual Switch (Non-Terrain) Equipped	[REDACTED]	
ECO/Optimizer Switch Equipped	[REDACTED]	
ERS/Autostick/Tip Non-paddle on Steering Wheel equipped	[REDACTED]	
ERS/Autostick/Tip Non-paddle on Shifter in D position equipped	[REDACTED]	
ERS/Autostick/Tip Non-paddle on Shifter in A or M position equipped	[REDACTED]	
FWD Equipped	[REDACTED]	
RWD Equipped	[REDACTED]	
AWD Equipped	[REDACTED]	
4WD with switchable Lo Range equipped	[REDACTED]	
Engine Start/Stop equipped	[REDACTED]	
Polystable E-shift (Cableless without return-to-center) equipped	[REDACTED]	
Long Learn Enabled	[REDACTED]	
Short Learn Enabled	[REDACTED]	

PCM CONFIGURATION

NAME	VALUE	UNITS
AC Equipped	[REDACTED]	
AC Equipped Over Bus	[REDACTED]	
Power Steering Switch Equipped	[REDACTED]	
[REDACTED] Integrated Cruise Control	[REDACTED]	
EMAT (Getrag DCT transmission) Equipped	[REDACTED]	
Vehicle Speed Sensor [REDACTED] Calculated from CAN	[REDACTED]	
Police Package Equipped	[REDACTED]	
Unleaded Gasoline Fuel	[REDACTED]	
Unleaded diesel fuel	[REDACTED]	

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6.4 Liter V8 Engine

Automatic Transmission Equipped

Transmission () Equipped

Vehicle Speed Sensor #1 Calculated by ECU

V8 Engine

Engine

Engine

Sensorless FFV Enabled

Electronic Throttle Control Equipped

V6 Engine

Engine

Engine

Engine

Engine

Engine

V6 Engine

V6 Engine

MTV Solenoid Equipped

MDS Equipped

Turbocharger Equipped

SRV Equipped

Secondary Air Equipped

Shift Indicator Lamp Equipped

Barometric Sensor Equipped

TIP Equipped

Battery Temp Sensor Equipped

Knock Sensor 1 Equipped

Knock Sensor 2 Equipped

W14 Variable Valve Timing Equipped

Clutch Interlock Switch Equipped

ESIM Equipped

Linear Purge Equipped

Linear EGR Equipped

Continuous Variable Transmission Equipped

Direct Injection Equipped

Secondary Fuel Pump Equipped

Electronic Coolant Pump Equipped

Sensor Bank 1 Sensor 1 Equipped

Sensor Bank 1 Sensor 2 Equipped

Sensor Bank 1 Sensor 3 Equipped

Sensor Bank 2 Sensor 1 Equipped

Sensor Bank 2 Sensor 2 Equipped

Variable Displacement AC Equipped

Fixed displacement AC Equipped

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■4 Intake Flow Control Valve Equipped

Electric Coolant Valve Equipped

Engine Oil Heater Cooler Equipped

Transmission Oil Heater Equipped

Electric Water Pump Equipped

Rear Heater Equipped

Starter Relay 2 Equipped

Inrush Current Reduction Relay Equipped

Active Grille Shutter Equipped

Electronic Vacuum Pump Equipped

Wide Range O2 Sensor ■ Equipped

Wide Range O2 Sensor 2/1 Equipped

MultiAir Equipped

Engine Stop Start Equipped

Viscosity Sensor Equipped

Duty Cycle Purge Valve Equipped

Electric Thermostat Heater Equipped

Exhaust Cam 1 Equipped

Intake Cam 1 Equipped

■ W14 engine

■ W14 engine

■ W14 engine

■ Engine

Tumble Generator Valve Equipped

Hybrid Electric Vehicle Equipped

Auxiliary Heater Electric Water Pump Equipped

Dual Speed Fuel Pump Equipped

Exhaust Cam 2 Equipped

Intake Cam 2 Equipped

1 Speed Fan Mechanical Relay System Equipped

2 Speed Fan Mechanical Relay System Equipped

2 Speed Fan PWM Relay System Equipped

Linear PWM Fan Relay System Equipped

PWM Fan Motor System Equipped

3 Speed Fan Mechanical Relay System Equipped

Fan Wake Up Relay System Equipped

2 Speed Fan 3 Driver 3 Relay System Equipped

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VLP Is Learnable Indicator

VLP Equipped Indicator

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552 (B) (6)

VFS Actuators Available Indicator

ERS Equipped Indicator

Engine Software In Package

Transmission Software Included

█ Cruise Equipped

ETC Cruise equipped

Adaptive Cruise Control Equipped

A/C Equipped

Adaptive Cruise Control Hardware Equipped

DUAL_ALTERNATOR_GEN1_LEARNEDCOPY

TOOLCONFIG_ON_PRESS_ABS_EQUIPPED

█ Equipped

█ Equipped

█ Equipped

Cummins Equipped

█ Equipped

VMM Equipped

Powernet Equipped

█ (█) Equipped

█ (█) Equipped

█ █ Equipped

█ Gen Bus Equipped

Constant Heater Temperature Control Valve Equipped

High Side Port Tumble Valve Equipped

CMCV █ Equipped

Turbine Volute Valve Actuator Equipped

█ H- █ Equipped

Active Exhaust Valve Equipped

Active Exhaust Pressure Sensor Equipped

Engine Idle Shutoff Equipped

Aisin █ RWD Transmission Equipped

Cooled EGR Equipped

Supercharger Equipped

Low Temperature Radiator Coolant Pump Equipped

Mechanical Coolant Pump Heater Equipped

Auxiliary Coolant Pump Heater Equipped

Compressed Natural Gas Equipped

█ PROXI Write Programming Support Enabled

Active Engine Mount Equipped

ZF 9-Speed Transmission Equipped

█ Transmission Equipped

Variable Speed Fuel Pump Equipped

Operator Idle Speed Request Equipped

PTO System Equipped

ATION ACT (FOIA), 5 U.S.C. 552 (B) (6)

Air Shutoff Valve Bank 1 Control Solenoid 1 Equipped

Air Shutoff Valve Bank 1 Control Solenoid 2 Equipped

Air Shutoff Valve Bank 2 Control Solenoid 2 Equipped

Dual Stage Oil Pump Equipped

Auxiliary Coolant Pump Equipped

Trans Skip Shift Equipped

Trans Reverse Lockout Equipped

Port Man Valve Equipped

Brushless PWM Fan Equipped

V8 Engine

Primary Lin Alternator Equipped

Coolant On-Off Pump Equipped

Oil Pressure Sensor Enabled

Learning Strategy Equipped

Dual Fuel Tank Equipped

Yaw Rate Sensor ESC Equipped

I3 Engine

Coolant On-Off Valve Equipped

Buffered Crank Output for ANC (Active Noise Cancellation) Equipped

Buffered Crank Output for PHEV Engine Pulse Calculation Equipped

Throttle Inlet Temp Sensor Equipped

Humidity, Temperature and Pressure Sensor (LIN) Equipped

Dual Fuel Pressure Sensor Equipped

Brake Pedal Sensor Equipped

Dual Fuel Tank Equipped

PTO System Equipped

Low Temp Radiator Coolant Pump Equipped

Engine Idle Shutoff Equipped

A/C Relay Powered from Engine Switched Battery

CNG Large Gas Tank Equipped

Cooled EGR Equipped

Supercharger Equipped

Hybrid MEC Shifter Equipped

Dual Alternator Capable

Auxiliary Coolant Pump Equipped

ZF 9- Trans Equipped

HPT 6- Trans Equipped

CUSW Cruise Equipped

Power Steering Angle Sensor Mandatory

Throttle Inlet Temp Sensor Equipped

LIN Humidity, Temp, and Pressure Sensor Equipped

Dual Fuel Pressure Sensor Equipped

Brake Pedal Sensor Equipped

Clutch Sensor Equipped

C. 552 (B) (6)

HARDWIRED BRAKE SWITCH INPUTS

Mass Airflow Equipped

Bi-Directional Crank Sensor Equipped

Cruise (LIN) Equipped

Operator Idle Speed Request Equipped

INTAKE EQUIPPED

Cylinder Pressure Sensor Equipped

Manifold Air Sensor Equipped

Active Exhaust Pressure Sensor Equipped

Secondary Mass Airflow Sensor Equipped

I3 Engine

I4 Direct Injection Engine

Variable Valve Lift Equipped

Coolant On-Off Pump Equipped

Primary Lin Alternator Equipped

Electronic Parking Brake Equipped

Active Exhaust Valve(s) Equipped

Mechanical Coolant Pump Equipped

Aux Coolant Pump Heater Equipped

Heater Temp Control Valve Equipped

High Side Port Tumble Valve Equipped

HBridge Equipped

Remote Start Present

Engine Oil Pressure Sensor Type

None

ICS CONFIGURATION

NAME	VALUE	UNITS
Display Type (Base)		
Display Type (Mid)		
Display Type (High)		

CONFIGURATION

NAME	VALUE	UNITS
Type		
Tire		
Margin Constant Override Setting		
Margin Constant A		No Unit
Margin Constant B		No Unit
Margin Constant C		No Unit
Margin Constant D		No Unit
Current Gain Mode		
Gain Mode Override Status		
WAL Gain Mode Setting		
High Gain Mode Setting		

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Run Flat Tire Present

SRT Vehicle Present

Base TPM Present

Premium TPM Present

BUX Deactivation Flag

TPM Legislation

RFH CONFIGURATION

NAME	VALUE	UNITS
PIN Successfully Programmed		
VIN Successfully Programmed		
Valid Key In Ignition		
Keyless Go		
Ignition system type connected		
e-shifter present		
Auto Park Present		
Secret Codes Programmed		
Passive Entry		
RKE		
Module Configuration Status		
Remote Start Present		
Programmed by		
Hardware Configuration: Remote Start Antenna		
Hardware Configuration: Front Left Door Handle H/W		
Hardware Configuration: Front Right Door Handle H/W		
Hardware Configuration: Rear Left Door Handle H/W		
Hardware Configuration: Rear Right Door Handle H/W		
Hardware Configuration: Trunk Door Handle H/W		
RFHub Locked		
Fob Location #1 Successfully Programmed		
Fob Location #2 Successfully Programmed		
Fob Location #3 Successfully Programmed		
Fob Location #4 Successfully Programmed		
Fob Location #5 Successfully Programmed		
Fob Location #6 Successfully Programmed		
Fob Location #7 Successfully Programmed		
Fob Location #8 Successfully Programmed		
Back Up Vehicle Config 1		
Back Up Vehicle Config 2		
Back Up Vehicle Config 3		
Back Up Vehicle Config 4		
Back Up Vehicle Config 5		
Back Up Vehicle Config 6		
Back Up Vehicle Config 7		

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Back Up ECU Configuration 1	
Back Up ECU Configuration 2	
Back Up ECU Configuration 3	
Back Up ECU Configuration 4	
Back Up ECU Configuration 5	
Back Up ECU Configuration 6	
Back Up ECU Configuration 7	
Back Up ECU Configuration 8	
Back Up ECU Configuration 9	
Back Up ECU Configuration 10	
Back Up ECU Configuration 11	
Back Up ECU Configuration 12	
Back Up ECU Configuration 13	
Back Up ECU Configuration 14	
Back Up ECU Configuration 15	
Back Up ECU Configuration 16	
Back Up ECU Configuration 17	
Back Up Customer Settings Menu 1 ()	
Back Up Customer Settings Menu 2 ()	
Back Up Programmed ECUs: Cabin Network	
Back Up Programmed ECUs: P/T Chassis Network	
Secret Key Sent to Body Controller - Most recent attempt	
Secret Key Sent to Body Controller - Original attempt	

DTCM CONFIGURATION

NAME	VALUE	UNITS
Full-Time T-Case		
Front Locker Present		
Rear Locker Present		
FAD Present		
Mode Switch Present		
Left/Right Hand Drive		
Axle Ratio		
T-Case Type		
SRT Present		

ORC CONFIGURATION

NAME	VALUE	UNITS
Rollover Sensing		
EPPM		
Occupant Classification (OCM)		
Driver Seatbelt Buckle Switch		
Passenger Seatbelt Buckle Switch		
Left seat belt Switch		

Center seat belt Switch

Second Row Right seat belt Switch

Driver Seat Track Position Sensor

Passenger Seat Track Position Sensor

Passenger Occupant Detection Sensor

Passenger Airbag Disable Switch

Passenger Airbag Disable Indicator

Driver Frontal Squib 1

Driver Frontal Squib 2

Driver Frontal Squib 3

Passenger Frontal Squib 1

Passenger Frontal Squib 2

Passenger Frontal Squib 3

Driver Knee Bolster Squib

Passenger Knee Bolster Squib

Driver Seatbelt Retractor Pretensioner

Passenger Seatbelt Retractor Pretensioner

Driver Seatbelt Load Limiter

Passenger Seatbelt Load Limiter

Driver Seatbelt Anchor Pretensioner

Passenger Seatbelt Anchor Pretensioner

Driver Seatbelt Buckle Pretensioner

Passenger Seatbelt Buckle Pretensioner

Left Curtain Squib 1

Right Curtain Squib 1

Left Side Seat Squib 1

Right Side Seat Squib 1

Left Seat Side Airbag

Second Row Right Seat Side Airbag

Driver Frontal Squib 4

Passenger Frontal Squib 4

Left Up-Front Acceleration Sensor

Right Up-Front Acceleration Sensor

Right B-Pillar Impact Acceleration Sensor

Left B-Pillar Impact Acceleration Sensor

Left C-Pillar Impact Acceleration Sensor

Right C-Pillar Impact Acceleration Sensor

Right D-Pillar Impact Acceleration Sensor

Left D-Pillar Impact Acceleration Sensor

Left Side Door Pressure Sensor

Right Side Door Pressure Sensor

Configuration Column Identifier

HVAC CONFIGURATION

NAME		
ATC Control (Factory)		
ATC Control		
MTC Control		
Single Zone MTC Control		
MTC With EBL ()		
MTC Without EBL ()		
MTC Master only ()		

AMP CONFIGURATION

NAME	VALUE	
ANC Calibration Date		
ANC Calibration Date -		
ANC Calibration Date - Patch		
Current ANC Calibration ID - Service		
ANC Status		
Surround Sound Activated		
Door Module - Left Front		
Door Module - Right Front		
Premuim - 1		
Premuim - 2		
Premuim - 3		
Non -ANC		
No Rear Doors		
No Chimes		

IPC CONFIGURATION

NAME		UNITS
Main Fuel Tank Gauge - Empty Stop Calibration		
Main Fuel Tank Gauge - Datum Calibration		
Main Fuel Tank Gauge - Datum Calibration		
Main Fuel Tank Gauge - Datum Calibration		
Main Fuel Tank Gauge - Full Stop Calibration		
Sub Fuel Tank Gauge - Empty Stop Calibration		
Sub Fuel Tank Gauge - Datum Calibration		
Sub Fuel Tank Gauge - Datum Calibration		
Sub Fuel Tank Gauge - Datum Calibration		
Sub Fuel Tank Gauge - Full Stop Calibration		

PTS CONFIGURATION

NAME		UNITS
Rear System with		
Front System with		

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CONFIGURATION

NAME	VALUE	UNITS
Rear Wiper		
Telescope		
Paddle Shifter		
Cruise Control / ACC		

BCM CONFIGURATION

NAME	VALUE	UNITS
RBSM		
LBSM		
BCM (Interior Bus)		
HSM		
HVAC		
P		
Radio		
ITM		
AMP		
EDM		
HVAC_R		
TBM		
AHLM/AFLS		
ASCM		
BCM (PT)		
D		
PCM		
EPS		
ESM		
ABS		
RFH		
IPC		
ORC		
ELSD		
AFLS		
ITBM		
OCM		
DPDM		

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[REDACTED] of [REDACTED]

Number of Reprogramming Attempts - Counter #0	1	
Vehicle Configuration Programmed Status	[REDACTED]	
Last Programmed Status	[REDACTED]	
Last Configuration Odometer	[REDACTED]	[REDACTED]
Vehicle Configuration Auto Write Counter	[REDACTED]	
Vehicle Configuration 1 - Write Counter	0	
Vehicle Configuration 2 - Write Counter	0	
Vehicle Configuration 3 - Write Counter	0	
Vehicle Configuration 4 - Write Counter	0	
Vehicle Configuration 5 - Write Counter	0	
Vehicle Configuration 6 - Write Counter	0	
Programmed ECUs: Cabin Network	0	
Programmed ECUs: P/T Chassis Network	0	
Programmed Network Configuration - Audio / Telematics Network	0	
Programmed ECUs: Hybrid LAN Network	0	
ECU Configuration 1 (CBC Configurable Inputs and Outputs)	0	
ECU Configuration 2 (CBC Features)	0	
ECU Configuration 3	0	
ECU Configuration 4	0	
ECU Configuration 5 (Wireless)	0	
ECU Configuration 5 (Doors)	0	
ECU Configuration 5 (Memory)	0	
ECU Configuration 6 (Brake)	0	
ECU Configuration 6 (Suspension)	0	
ECU Configuration 6 (Powertrain)	0	
ECU Configuration 6 (Safety)	0	
ECU Configuration 7 (CBC Exterior Lighting Calibrations)	0	
ECU Configuration 8 (LIN and Miscellaneous)	0	
ECU Configuration 9A	0	
ECU Configuration 9 (ITM)	0	
ECU Configuration 10	0	
ECU Configuration 11	0	
ECU Configuration 12	0	
ECU Configuration 13	0	
ECU Configuration 14	0	
ECU Configuration 15 (CBC Features)	0	
ECU Configuration 15 (Suspension)	0	
Vehicle Configuration 7 - Write Counter	0	
Vehicle Config CSM1	0	
Vehicle Config CSM2	0	
Model Year	[REDACTED]	
Vehicle Line	[REDACTED]	
Country Code	[REDACTED]	
Left/Right Hand Drive	[REDACTED]	

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Remote Start Present

Drive Configuration

Emode Present

Auto Highbeam

Body Style

Maximum Vehicle Speed

Brake Type

Performance Pages Present

Special Packages

PTS Configuration

Hill Descent Feature Present

Select Speed Control Feature Present

Power Inverter Type

Thatcham Present

Rain Sensor Present

System Present

Air Conditioning Present

Cruise Feature is Present

Flipper Glass Present

Full Size Spare

Off Road Capable

Special Packages

Max Load Inflation Pressure Rear Tire

Max Load Inflation Pressure Front Tire

Light Load Inflation Pressure Rear Tire

Police Lighting Feature

Power Lift Gate Present

Power Right Sliding Door Present

Power Left Sliding Door Present

System Present

Present

T-Case Type

Wheel Base

FOBIK Safe Enable

ELV Present

Fuel Capacity

Window Express Feature Configuration

Adjustable Pedal Feature Present (non-Memory)

Auto Headlamp Feature Present

Door Alert Feature Present

Present

Vehicle is an SRT

Disable Display of Radio Clock

Chassis Type

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Display Outside Temperature Present		
HVAC Configuration		
Vehicle Brand		
Display Compass Heading Present		
Interior EC Mirror Present		
system present		
High Intensity Discharge Head Lamps		
Secondary Lock Present		
Liftgate/Trunk Type		
Collision Mitigation System present		
Forward Collision Warning present		
Base system present		
Premium system present		
Paddle Shift Feature Present		
Sport Mode Present		
Auto Park Present		
Passive Entry Present		
Keyless Go Present		
Transfer Case High Ratio		No Unit
Axle Ratio		
Transfer Case Low Range Reduction Ratio		
Dynamic Tire Circumference (All or Rear)		
Dual Rear Wheel (DRW) Vehicle Present		
Non-Regulated Tire () Present		
Ratio at		No Unit
Ratio at Positive Angle 1		No Unit
Ratio at Positive Angle 2		No Unit
Ratio at Positive Angle 3		No Unit
Ratio at Positive Angle 4		No Unit
Ratio at Positive Angle 5		No Unit
Analog Door Sensor Configuration		
Air Quality System Present		
Ratio at Negative Angle 1		No Unit
Ratio at Negative Angle 2		No Unit
Ratio at Negative Angle 3		No Unit
Ratio at Negative Angle 4		No Unit
Ratio at Negative Angle 5		No Unit
Ambient Light Dimmer Wheel Input Present Pin G9		
Low Beam Output Present - Pin A3, D2		
Rear Wiper Motor Park Present - Pin		
Left Rear Door Ajar Input Present - Pin		
Front Driver Analog Door Ajar Input Present - Pin		
Reserved - Pin		
Horn Switch Input Present - Pin		

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Reserved -	
Hood Ajar Switch Input Present - Pin	
Hard Top Sense Present - Pin	
Reserved -	
Reserved - Pin	
Passenger Door Ajar Signal Present - Pin	
Reserved - Pin	
Reserved - Pin	
Starter Relay Lowside Coil Drive - Pin D7	
Diesel Cabin Heater #2 Output Present - Pin D9	
Diesel Cabin Heater #3 Output Present - Pin	
Diesel Cabin Heater #4 Output Present - Pin	
Right Dedicated DRL Lamp Output Present - Pin	
Left Dedicated DRL Lamps Output Present - Pin	
Flipper Glass #2 Output Present	
Foot Well Lamps Output Present - Pin	
Front Fog Lamps Output Present - Pin A14	
Inverter Enable Relay Output Present - Pin	
Reserved -	
Gated Park ZFI Output Present - Pin D-	
Reserved - Pin	
Rear Fog Lamps Output Present - Pin &	
Rear Park Lamps Output Present - Pin &	
Rear Turn Lamps Output Present - Pin &	
Run-ACC Y Relay #2 Output Present - Pin	
Side Markers Output Present - Pin &	
Trailer Backup Lamps Output Present - Pin	
Reserved - Pin F4	
UGDO Feed Output Present - Pin	
Warning LED Output Present - Pin	
Park Brake Input Present - Pin	
Ambient Temperature Sensor Present - Pin	
Tip Start Enabled	
Dual Start Relay System Present	
Wiper Service Position Enabled	
Trailer Tow Present	
Quad Headlamps Enable	
Horn Chirp Allowed	
Bi Xenon Headlamps Enable	
Hazard Lamp Configuration	
Park Lamp Loadshed Enable	
Front Fog Lamp Dropout Enable	
Combined Rear Lighting Enable	
Side Repeaters Enable	

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Lane Change

Exterior Light Loadshed Enable

Front Wiper Park Enable

Rear Wiper Park Enable

Reversible Washer Pump Enable

Tail Lamp

Configuration

DRL Lamp Location

DRL Dropout Enable

Tunnel Detection

Military Vehicle Present

LED Reverse Lamps Present

LED Stop Lamps Present

LED Rear Turn Lamps Present

LED Tail Lamps Present

LED Rear Fog Lamps Present

LED License Lamps Present

LED Front Turn Lamps Present

LED Front Fog Lamps Present

LED Dedicated DRL Present

LED Low Beam Lamps Present

LED High Beam Lamps Present

LED Front Park/Marker Lamps Present

Door Lock Switch Signal FT LT Usage (F9)

Door Lock Switch Signal FT RT Usage (F23)

Headlamp Wash Interval

Headlamp Wash Shot

Front Wiper Wipes After Wash

Headlamp Washer Low Fluid Shut-Off Enable

Intermittent Wiper States

LED CHMSL Lamp Present

Rear Camera Present

Power Inverter Present

Front Park Assist Present

Front Heated Seats Present

Front Ventilated Seats Present

Destination

Cabin Equilization Curve Number

Hill Start Assist Customer Setting Option Present

Radio Apps Present

CTP Easy Entry Enable

CTP Passive Entry Present

CTP Auto Lock Disable

SDAR Travel Link Present

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B Present

Vehicle Theft Alarm Present

Heated Steering Wheel Present

VIN Check Digit Disable

Surround Sound Feature Present

Power Door Locks Present

Antenna Type

CTP Max AC Present

Hybrid Electric Powertrain Present

Disable CD Effect

DTV Front Camera Present

DTV Side Camera Present

Tow Haul Present

Hill Descent Control Present

Audio Steering Wheel Switch Configuration

Radio Display On/Off Softkey Present

Microphone Tuning Parameter

Microphone Configuration

Microphone Type

External Port Type

Splashscreen Type

ERS Available

Rear Wheel Dually

Max Gear

Virtual Speedometer Units

Speedometer Range Max Scale

IC Config Feature

PTO Present

AMB Dimmer

Heated Seat Present

Split Shaft Present

Manual Headlamp Leveling

Gear Shift Indicator

Service Interval

Temperature Celsius for UK

Type of Gallons

Tip Start Present

5 Trunk Lock

Airport Scenario Trunk Set

1 Left Front

AP2 Right Front

Left Rear

AP4 Right Rear

Global Up

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Global Down		
Sun Shade		
Puddle Lamp Present		
Rear Door Pre Short Drop		
Passenger Window Lockout		
Auto Power Folding Mirrors Present		
Folding mirrors present		
Heated Mirrors Present		
Mirror turn signals present		
Driver Memory Mirrors Present		
Passenger Memory Mirror Present		
Electro-chromatic driver mirror present		
Electro-chromatic passenger mirror present		
Tow Mirror Present		
Blindspot Mirror Present		
Window Motor Type		
Window Hall Sensors Present		
Frameless Window Present		
Memory Adjustable Pedals Present		
Tilt/Telescope Steering Present		
Memory Seat Present		
Rear Heated Seats Present		
Front Vented Seats Present		
Heated Steering Wheel Present		
Heated Seat Material Type		
Heated Wheel Material Type		
Rear Vented Seats Present		
Front Heated Seat Present		
Brake System ECU Configuration A		
Wheel overall ESC Maserati		
Brake System ECU Configuration B		
ECO Mode Configuration		
Dual Alternator Present		
ODS Present		
Driver Kneebag Present		
Passenger Kneebag Present		
Curtain Airbags Present		
Tow Hooks Present		
Passive Ped Present		
Airbags Present		
Reserved		
Reserved		
Integrated EPP Present		
BUX vehicle		

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552 (B) (6)

Signature Light Present		
Dual Filament Headlamp		
Front Turn Lamp Diagnostics		
Auto Headlamp On Threshold		Volt
Auto Headlamp Off Threshold		Volt
Left Low Beam Voltage Regulation		
Left High Beam Voltage Regulation		
Right Low Beam Voltage Regulation		
Right High Beam Voltage Regulation		
Left Front Corner Voltage		
Right Front Corner Voltage		
Left Rear Corner Voltage		
Right Rear Corner Voltage		
Panic Enable		
Compass Mounting Orientation		
Washer Fluid Level Voltage Threshold		
IBS Present		
M Present		
Humidity Sensor Present		
Manual Trans Present		
DC to DC Converter Present		
M Present		
Auto Relock Time		seconds
System Present		
DC to DC Converter #2 Present		
Illuminated Approach Interior Lighting Target Percentage		
Illuminated Approach Headlamp Target Percentage		
Illuminated Approach Taillamp Target Percentage		
Illuminated Approach Interior Lighting Ramp Up Time		
CRVMM Present		et
EVIC Switch Module Present		
Compass Mounting Angle	0	Degree
Signature Lamps or Mirror Repeater Present - Pin A5 & Pin A7		
Backup Reverse Lamp Left Present - Pin F41		
Backup Reverse Lamp Right Present - Pin		
Stop/Turn Lamp or Stop Lamp Present Pin &		
Left High Beam Present - Pin D1		
Right High Beam Present - Pin A2		
Left Front Lamp Diagnostics Present - Pin		
Right Front Lamp Diagnostics Present - Pin		
Left Rear Turn Lamp Diagnostics Present - Pin		
Right Rear Turn Lamp Diagnostics Present - Pin		
Brake Fluid Level Switch Signal Present - Pin		
Siren		

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552 (B) (6)

Ultrasonics

Tilt

Swing Gate Lock Present - Pin

Swing Gate Unlock Present - Pin

Front Fog Voltage

Rear Fog Voltage

Lamp Output Disable

Secondary Door Ajar Present - Pin

Manual Door Locks Present

Rain Sensor Module #2 Present

Auto High Beam Module Location

Average Last Longitudinal Acceleration Values

Average Last Lateral Acceleration Values

Excess Longitudinal Acceleration Factor

Excess Lateral Acceleration Factor

Brake Smoothing Duration

Brake Smoothing Factor

Steering Smoothing Duration

Steering Smoothing Factor

Steering Smoothing Threshold

Brake Smoothing Threshold

Maximum Longitudinal Change

Maximum Lateral Change

Acceleration Threshold

Acceleration Factor

Nose Dive Threshold

Nose Dive Factor

RKE Auto-Relock Feature Enable

PE Auto-Relock Feature Enable

VTA Hood Ajar Monitoring

Horn Chirp Duration

Pitch and Roll Present

Parking Light Enable

ASBM Minimum Voltage Time

ASBM Battery Minimum Voltage

Interior Lighting Night Threshold

Interior Lighting Day Threshold

Axle Locker Configuration

Transmission Equipped

Park Brake Type

TPMS Configuration

Hybrid Type

TSBM Module Present

ADR feature Present

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Present

Temperature Display Resolution

PTC Present

Glovebox Control

Glare Free Present

Brake Type

Suspension Type

Park assist customer settings menu

Park assist brake customer settings menu

Park assist front volume customer settings menu

Park assist rear volume customer settings menu

Electric power steering customer settings menu

Forward collision warning customer settings menu

Auto on driver comfort customer settings menu

Auxiliary switches customer settings menu

Rear view camera gridlines customer settings menu

Unit set customer settings menu

Power accessory delay customer settings menu

Ambient dimmer customer settings menu

Tire jack mode customer settings menu

Air suspension warning customer settings menu

Automatic aero mode customer settings menu

Auto high beam customer settings menu

Auto park customer settings menu

Blind spot alert customer settings menu

Clock display customer settings menu

Compass calibration customer settings menu

Compass variance customer settings menu

Consumption unit customer settings menu

Distance unit customer settings menu

Auto door lock customer settings menu

Easy exit seat customer settings menu

Auto entry exit mode customer settings menu

EPB service mode customer settings menu

Headlamp drop customer settings menu

Headlamp off delay customer settings menu

Headlamps on with wiper customer settings menu

Passive entry customer settings menu

Illuminated approach customer settings menu

Lane departure torque customer settings menu

Lane departure warning customer settings menu

Rear camera customer settings menu

Rain sensitive wipers customer settings menu

Power take off customer settings menu

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Pressure unit customer settings menu
 Power unit customer settings menu
 Power liftgate chime customer settings menu
 Performance shift enable customer settings menu
 Rear view camera delay customer settings menu
 RKE unlock customer settings menu
 Speed unit customer settings menu
 Tilt motor in reverse customer settings menu
 Torque unit customer settings menu
 Teen Key Fuel Pop-up Customer Settings Menu
 Teen Key Automatic High Beam Customer Settings Menu
 Passenger Airbag On/Off Customer Settings Menu
 Forward Collision Warning and Brake Customer Settings Menu
 Doors and Engine Off Power Delay Customer Settings Menu
 Radio Speaker Open Circuit Disable (LF)
 Radio Speaker Open Circuit Disable (RF)
 Radio Speaker Open Circuit Disable (LR)
 Radio Speaker Open Circuit Disable (RR)
 Calibration Parameter Data Set
 Surround View Camera On/Off Softkey Present
 Drive Mode Version
 Rear Defrost and Heated Mirrors Present
 Show Phone Information in Cluster
 Auto Dimming Mirror Hard Button Present
 Clari-Fi Present
 Automatic Crash Notification Feature Present
 Trailer Hitch Camera Present
 Park Assist Tuning Set
 Rear Defrost Presence
 Heated Mirrors Present
 Engine Displacement
 Steering
 Speedometer Tolerance
 Increasing speed constant
 Tachometer Type
 DTV Present
 Tri-State Comfort Climate Softkey Function Present

RADIO CONFIGURATION

NAME	VALUE	UNITS
Satellite Subscription ID		
Satellite Subscription Status		
Satellite Subscription Reason Code	00	
Satellite Subscription Suspend		

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Satellite Subscription Suspend Month

Satellite Subscription Suspend Year

Button

SDARS

Navigation Active

Cellular

Internal CD Player

Wi-Fi

Bluetooth

Application Framework

FM Diversity

Clock Defeat

Automated Loudness

Anti-Theft Enable Status

Time Selection

Front Seat Video Playback

Cabin EQ Curve Number Currently Used by Radio

Splash Screen

Compass on the bus messaging Authorization

GPS on the Bus messaging Authorization

USB Hubs Detected

SD Card Readers Detected

Enumerated USB Devices

Aux Jack

DTV Short Term Configuration

LBSS CONFIGURATION

NAME	VALUE	UNITS
Steering (LHD/RHD)		
Teen Key		
CFG FEATURE		

RBSS CONFIGURATION

NAME	VALUE	UNITS
Steering (LHD/RHD)		
Teen Key	No	

ABSO CONFIGURATION

NAME	VALUE	UNITS
Vehicle Line Identification		
Displacement		No Unit
Hybrid		
Trans		
Drive Configuration	Selectable	

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Chassis	[REDACTED]	
Ratio	[REDACTED]	Unit
Tire Circumference	[REDACTED]	

DASM CONFIGURATION

NAME	VALUE	UNITS
ADP Present	[REDACTED]	
ACC STOP Present	[REDACTED]	
ACC GO Present	[REDACTED]	
FCW Present	[REDACTED]	
LDW Plus Present	[REDACTED]	
Auto High Beam Present	[REDACTED]	
NCC Present	[REDACTED]	

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WI
TECH 2.0

VEHICLE SCAN REPORT

Vehicle

DI TURBO

ENGINE

Odometer

Publication Date

ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	CURRENT VIN	ORIGINAL VIN	PART #
TCM	Transmission Control Module	CAN-C				
PCM	Powertrain Control Module	CAN-C				
ASBS	Automatic Sway Bar System	CAN-C				
ICS	Integrated Center Stack	CAN-I				
TPM	Tire Pressure Monitor	CAN-C				
RFH	Radio Frequency Hub	CAN-C				
ESM	Electronic Shifter	CAN-C				
DTCM	Drive Train Control Module	CAN-C				
ORC	Occupant Restraint	CAN-C				
EPS	Electric Power Steering	CAN-C				
HVAC	Heat, Ventilation and A/C	CAN-I				
CSWM	Comfort Seat Wheel Module	CAN-I				
AMP	Amplifier	CAN-I				
IPC	Instrument Panel Cluster	CAN-C				
PTS	Parktronics	CAN-C				
SCCM	Steering Column Control Module	CAN-C				
BCM	Body Controller	CAN-C				
RADIO	Radio	CAN-I		1C4JJX		
OCM	Occupant Classification	CAN-C				

LBSS	Left Blind Spot Sensor
	Right Blind Spot Sensor
BPCM	Battery Pack Control Module
	Hybrid Control Processor
CVPM	Central vision processing module
	Auxiliary Hybrid Control Processor
ABSO	Anti Lock Brakes OBD
SGW	Security Gateway Module
DPDM	Driver Presence Detection Module
DASM	Driver Assistance System Module
IDCM	Integrated Dual Charge Module

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	SERIAL NUMBER	CVNS
TCM	/					
PCM						
ASBS						
ICS						
TPM						
RFH	/					
ESM						
DTCM						
ORC						
EPS						
HVAC						
CSWM						
AMP						
IPC						
PTS						
SCCM						
BCM						
RADIO						
OCM						
LBSS						
BPCM	Rest of world / ROW					

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HCP	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
CVPM	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
AHCP	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ABSO	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
SGW	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
DPIM	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
DASM	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IDCM	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

DTC SUMMARY

ECU	DTC CODE	DTC DESCRIPTION	STATUS
RADIO	[REDACTED]	[REDACTED]	Stored
RADIO	[REDACTED]	[REDACTED]	Active
[REDACTED]	[REDACTED]	[REDACTED]	Stored
[REDACTED]	[REDACTED]	[REDACTED]	Stored
[REDACTED]	[REDACTED]	[REDACTED]	Stored
[REDACTED]	[REDACTED]	[REDACTED]	Stored
[REDACTED]	[REDACTED]	[REDACTED]	Stored
[REDACTED]	[REDACTED]	[REDACTED]	Stored

ENVIRONMENTAL DATA SUMMARY

RADIO | [REDACTED] | 0 | Stored | CAN C Bus Off Performance-

NAME	VALUE	UNITS
DTCTable	[REDACTED]	
TestFailed	[REDACTED]	
TestFailedThisMonitoringCycle	[REDACTED]	
Pending DTC	[REDACTED]	
Confirmed DTC	[REDACTED]	
Test Not Completed This Monitoring Cycle	[REDACTED]	
Warning Indicator Requested	[REDACTED]	
DTCExtendedDataRecordNumber	[REDACTED]	
Occurance Flag	[REDACTED]	
Reserved	[REDACTED]	
Original Odometer Value	[REDACTED]	
Most Recent Odometer Value	[REDACTED]	
Frequency Counter	[REDACTED]	
Ignition Counter	[REDACTED]	
[REDACTED]	[REDACTED]	
Event Counter	[REDACTED]	

RADIO | [REDACTED] | Active | Head Unit Button-Stuck

NAME	VALUE	UNITS
------	-------	-------

DTCTable

TestFailed

TestFailedThisMonitoringCycle

Pending DTC

Confirmed DTC

Test Not Completed This Monitoring Cycle

Warning Indicator Requested

DTCExtendedDataRecordNumber

Occurance Flag

Reserved

Original Odometer Value

Most Recent Odometer Value

Frequency Counter

Ignition Counter

RDI

Event Counter

BPCM | 0 | Stored | High Voltage System Interlock Circuit "A"-

NAME	VALUE	UNITS
Test Failed		
Test Failed This Operation Cycle		
Pending DTC		
Confirmed DTC		
Test Not Completed Since Last Clear		
Test Failed Since Last Clear		
Test Not Completed This Operation Cycle		
Warning Indicator Requested		
Occurrence flag		
Original Odometer Value		
Most Recent Odometer Value		
Frequency Counter		
Ignition Cycle Counter		
FoM - for this DTC (lifetime fails)		
FoM - for this DTC (lifetime fails counts on pass)		
FoM - for this DTC (lifetime longest fail on pass)		
Battery Total Time Awake		
Key in Ignition		
EPT-WakeUp		
HCP Contactor Command		
Contactor Status		
Plug in Status		
Balance Mode		
Vehicle Speed		

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System (at time of fault		Volts
Battery Lifetime AmpHrs of Charge		AHr
Battery Lifetime AmpHrs of DisCharge		AHr
HVIL Status -Vehicle		
Cycles left to self heal		No Unit
HV Battery Charge Power 2sec		watts
HV Battery Charge Power		watts
HV Battery Discharge Power 2sec		watts
HV Battery Discharge Power		watts
Key - Driven (CAN)		
Battery Lifetime Number Of Closes		
Battery Full AmpHr Capacity		AmpHrs
Battery Cell Voltage Maximum		mV
Battery Cell Voltage Minimum		mV
Battery Cell Voltage Average		mV
Battery Temperature Maximum Module		°F
Battery Temperature Minimum Module		°F
Battery Temperature Average Module		°F
DTC Extended Data Record Number - All		
DTC Extended Data Record Number - 2		
HV Battery Charge Power		watts
HV Battery Discharge Power		watts
Key Position		
SOC		%
HV Bat SOH-R		%
HV Bat SOH-C		%
Cell Impedance Max Discharge		mOhms
Cell Impedance Min Discharge		mOhms
HVIL Status - Battery pack		
HVIL PWM Duty Cycle source - Vehicle		%
HVIL PWM Duty Cycle Source - Battery		%
HVIL PWM Duty Cycle Sink - Battery		%
HVIL PWM Frequency source - Vehicle		Hz
HVIL PWM Frequency Sink - Vehicle		Hz
HVIL PWM Frequency Source - Battery		Hz
HVIL PWM Frequency Sink - Battery		Hz
HVIL Returned current - Vehicle		mA
HVIL Returned current - Battery		mA
Battery Cell Highest Cell number		
Battery Cell Lowest Cell number		
HV Battery Current Sensor Primary		Amps
HV Battery Current Sensor Secondary		Amps
HV Battery Current HVBatCrnt		Amps
HV Battery Voltage (cell sum)		

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HV Battery Voltage (Module Sum)	Volts
Battery Temperature Highest Sensor number	
Battery Temperature Lowest Sensor number	
HV Cooling Battery coolant inlet temp	°F
HV Cooling Battery coolant outlet temp	°F
temperature max	°F
temperature min	°F
Vehicle Isolation Impedance (Positive side)	Mega Ohms
Vehicle Isolation Impedance (Negative side)	Mega Ohms
Vehicle Isolation Impedance (Equivalent)	Mega Ohms
Battery Isolation Impedance (Positive side)	Mega Ohms
Battery Isolation Impedance (Negative side)	Mega Ohms
Battery Isolation Impedance (Equivalent)	Mega Ohms
Engine Speed	rpm
Accelerator position	%
GPS_Date - Year	Year
GPS_Date - Month	
GPS_Date - Day	Days
UTC_Time -	
UTC_Time - Minutes	
UTC_Time -	seconds
HCP - System Shutdown Command (CAN)	
HCP - ePT LOC Diagnostics Enable (CAN)	
HCP - Propulsion system active (CAN)	
Qualified Contactor Command - QCC	
Verified Contactor Command - VCC	
HVIL PWM Duty Cycle sink - Vehicle	%
HV Sensor- Pack Voltage (U BAT P - U BAT M)	Volts
HV Sensor- DC Link Voltage (U DC LINK)	Volts
HV Sensor- main fuse Voltage (U MAIN P - U MAIN M) - U DC LINK	Volts
OBCM Fuse Voltage (U MAIN P - U AUX FUSE)	Volts
APM Fuse Voltage (U MAIN P - U AUX REL)	Volts
HV Sensor - Battery Voltage - Positive contactor (U BAT P)	Volts
HV Sensor - Battery Voltage - Negative contactor (U BAT M)	Volts
HV Sensor - Weld Contactor Voltage - Positive contactor (U MAIN P)	Volts
HV Sensor - Weld Contactor Voltage - Negative contactor (U MAIN M)	Volts
HV Sensor - U AUX FUSE	Volts
HV Battery Total Amp Hour Capacity (CAN)	AHr
HV Battery - Pack Isolation state (CAN)	
HV Battery - Powertrain Isolation state (CAN)	

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT

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HV Sensor - Pack Voltage VALIDITY (CAN)	
HV Battery Current HVBatCrrt VALIDITY (CAN)	
HV Battery Total Amp Hour Capacity VALIDITY (CAN)	
BPCM - MCU Reset Counter	0
BPCM - RAM Reset Counter	0
BPCM - ROM Reset Counter	0
BPCM - Safety Mechanism (TSR) Reset Counter	0
BPCM - Hall current sensor supply voltage ()	
BPCM - Precharge Penalty Timer (CAN)	
BPCM - RTC Circuit Status	
BPCM - HVBat Sleep Time	
BPCM - System Mode	No Unit
BPCM - HV Battery pack Contactor request (CAN)	
BPCM - HV Battery Pack Contactor Open (CAN)	
BPCM - HV Battery pack Contactor welded and impeded opening (CAN)	
BPCM - Crash Indication (CAN)	
BPCM - Crash Indication VALIDITY (CAN)	
BPCM - Retention Status	
BPCM - Active weld check type	
BPCM - Current Category of Wearout Counter	
HV Contactor State - Positive Contactor	
HV Contactor State - Negative Contactor	
HV Contactor State - Precharge Contactor	
CSC Fault - Cn Open	
CSC Fault - Cn Short to SWn	
CSC Fault - Auxiliary channel 1 Open	
CSC Fault - Auxiliary channel 2 Open	
CSC Fault - Measured result difference between Alternative path and Primary path is out of range	
CSC Fault - Balancing Switch Short	
CSC Fault - Balancing Switch Open	
CSC Fault - Alternate reference voltage is out of range	
CSC Fault - Vaa voltage is out of range	
CSC Fault - Level-shift amplifier offset voltage is out of range	
CSC Fault - Stuck ADC output bits verification with zero-scale	
CSC Fault - Stuck ADC output bits verification with full-scale	
CSC Fault - Multiplexer Open/Short verification with HVMUX test current source	
CSC Fault - Multiplexer Open/Short verification with HVMUX test current sources	
CSC Fault - Measured result difference between Module voltage and Cell voltage summation	
CSC Fault - Vhv < Vhvuv	
CSC Fault - Vhv - Vdcin > Vhvov	
CSC Fault - Die Temperature is over the upper limit	
CSC Fault - Scanning for cell information is not complete	
CSC Fault - ADC Data Path error	

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT

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CSC Fault - Packet Error Check

CSC Fault - Power-on reset event occurred

CSC Fault - oscillator frequency is not within of its expected value

CSC Fault - Same as Alrtosc1(redundant alert)

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Module number addressing is fail

CSC Fault - Alive counter is not matched to the expected value

CSC Fault - PEC Bits in Data-check byte error

CSC Fault - Vhv - V12 is too low

CSC Fault - Transmit data is not equal to read back data

CSC Diagnostics - Initialization Status

FF FF FF FF

CSC Diagnostics - CSC #01 Status

00 00 00 00

CSC Diagnostics - CSC #02 Status

00 00 00 00

CSC Diagnostics - CSC #03 Status

00 00 00 00

CSC Diagnostics - CSC #04 Status

00 00 00 00

CSC Diagnostics - CSC #05 Status

00 00 00 00

CSC Diagnostics - CSC #06 Status

00 00 00 00

CSC Diagnostics - CSC #07 Status

00 00 00 00

CSC Diagnostics - CSC #08 Status

00 00 00 00

CSC Diagnostics - AFE Internal Operation Mode

BPCM

NAME	VALUE	UNITS
DTC		
Test Failed		
Test Failed This Operation Cycle		
Pending DTC		
Confirmed DTC		
Test Not Completed Since Last Clear		
Test Failed Since Last Clear		
Test Not Completed This Operation Cycle		
Warning Indicator Requested		
Occurrence flag		
Original Odometer Value		
Most Recent Odometer Value		
Frequency Counter		
Ignition Cycle Counter		
- for this DTC (lifetime fails)		
FoM - for this DTC (lifetime fails counts on pass)		
FoM - for this DTC (lifetime longest fail on pass)		
Battery Total Time Awake		
Key in Ignition		
EPT-WakeUp		
HCP Contactor Command		

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Contactor Status		
Plug in Status		
Balance Mode		
Vehicle Speed		MPH
System (at time of fault		Volts
Battery Lifetime of Charge		AHr
Battery Lifetime s of DisCharge		AHr
HV Status -Vehicle		
Cycles left to self heal		No Unit
HV Battery Charge Power		watts
HV Battery Charge Power		watts
HV Battery Discharge Power		watts
HV Battery Discharge Power		watts
Key - DriveRdy (CAN)		
Battery Lifetime Number Of Cycles		
Battery Full AmpHr Capacity		
Battery Cell Voltage Maximum		
Battery Cell Voltage Minimum		
Battery Cell Voltage Average		
Battery Temperature Maximum Module		°F
Battery Temperature Minimum Module		°F
Battery Temperature Average Module		°F
DTC Extended Data Record Number - All		
DTC Extended Data Record Number - 2		
HV Battery Charge Power		watts
HV Battery Discharge Power		watts
Key Position		
SOC		%
HV Bat SOH-R		%
HV Bat SOH-C		%
Cell Impedance Max Discharge		
Cell Impedance Min Discharge		
HVIL Status - Battery pack		
HVIL PWM Duty Cycle source - Vehicle		%
HVIL PWM Duty Cycle Source - Battery		%
HVIL PWM Duty Cycle Sink - Battery		%
HVIL PWM Frequency source - Vehicle		Hz
HVIL PWM Frequency Sink - Vehicle		Hz
HVIL PWM Frequency Source - Battery		Hz
HVIL PWM Frequency Sink - Battery		Hz
HVIL Returned current - Vehicle		mA
HVIL Returned current - Battery		mA
Battery Cell Highest Cell number		
Battery Cell Lowest Cell number		

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INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT

Battery Current Sensor Primary	
HV Battery Current Sensor	
HV Battery Current HVBatCrnt	
HV Battery Voltage (cell sum)	
HV Battery Voltage (Module Sum)	
Battery Temperature Highest Sensor number	
Battery Temperature Lowest Sensor number	
HV Cooling Battery coolant inlet temp	°F
HV Cooling Battery coolant outlet temp	°F
BPCM temperature max	°F
BPCM temperature min	°F
Vehicle Isolation Impedance (Positive side)	
Vehicle Isolation Impedance (Negative side)	
Vehicle Isolation Impedance (Equivalent)	
Battery Isolation Impedance (Positive side)	
Battery Isolation Impedance (Negative side)	
Battery Isolation Impedance (Equivalent)	
Engine Speed	
Accelerator position	
GPS_Date - Year	Year
GPS_Date - Month	8
GPS_Date - Day	
UTC_Time -	
UTC_Time -	
UTC_Time -	
- System Shutdown Command (CAN)	
- ePT LOC Diagnostics Enable (CAN)	
- Propulsion system active (CAN)	
Qualified Contactor Command - QCC	
Verified Contactor Command - VCC	
HVIL PWM Duty Cycle sink - Vehicle	0.0 %
HV Sensor- Pack Voltage (U BAT P - U BAT M)	
HV Sensor - DC Link Voltage (U DC)	
HV Sensor - main fuse Voltage (U MAIN P - U MAIN M) - U DC	
OBCM Fuse Voltage (U MAIN P - U AUX FUSE)	
APM Fuse Voltage (U MAIN P - U AUX REL)	
HV Sensor - Battery Voltage - Positive contactor (U BAT P)	
HV Sensor - Battery Voltage - Negative contactor (U BAT M)	
HV Sensor - Weld Contactor Voltage - Positive contactor (U MAIN P)	
HV Sensor - Weld Contactor Voltage - Negative contactor (U MAIN M)	

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HV Sensor - U AUX FUSE	
HV Battery Total Amp Hour Capacity (CAN)	
HV Battery - Pack Isolation state (CAN)	
HV Battery - Powertrain Isolation state (CAN)	
HV Sensor - Pack Voltage VALIDITY (CAN)	
HV Battery Current HVBatCrnt VALIDITY (CAN)	
HV Battery Total Amp Hour Capacity VALIDITY (CAN)	
BPCM - MCU Reset Counter	0
BPCM - RAM Reset Counter	0
BPCM - ROM Reset Counter	0
BPCM - Safety Mechanism (TSR) Reset Counter	0
BPCM - Hall current sensor supply voltage ()	
BPCM - Precharge Penalty Timer (CAN)	
BPCM - RTC Circuit Status	
BPCM - HVBat Sleep Time	
BPCM - System Mode	No Unit
BPCM - HV Battery pack contactor request (CAN)	
BPCM - HV Battery Pack contactor Open (CAN)	
BPCM - HV Battery pack Contactor welded and impeded opening (CAN)	
BPCM - Crash Indication (CAN)	
BPCM - Crash Indication VALIDITY (CAN)	
BPCM - Retention Status	
BPCM - Active weld check type	
BPCM - Current Category of Wearout Counter	
HV Contactor State - Positive Contactor	
HV Contactor State - Negative Contactor	
HV Contactor State - Precharge Contactor	
CSC Fault - Cn Pin Open	
CSC Fault - Cn Short to SWn	
CSC Fault - Auxiliary channel 1 Pin Open	
CSC Fault - Auxiliary channel 2 Pin Open	
CSC Fault - Measured result difference between Alternative path and Primary path is out of range	
CSC Fault - Balancing Switch Short	
CSC Fault - Balancing Switch Open	
CSC Fault - Alternate reference voltage is out of range	
CSC Fault - Vaa voltage is out of range	
CSC Fault - Level-shift amplifier offset voltage is out of range	
CSC Fault - Stuck ADC output bits verification with zero-scale	
CSC Fault - Stuck ADC output bits verification with full-scale	
CSC Fault - Multiplexer Open/Short verification with HVMUX test current source	
CSC Fault - Multiplexer Open/Short verification with HVMUX test current sources	
CSC Fault - Measured result difference between Module voltage and Cell voltage summation	
CSC Fault - Vhv < Vhvuv	

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CSC Fault - - > pv

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Scanning for cell information is not complete

CSC Fault - ADC Data Path error

CSC Fault - Packet Error Check

CSC Fault - Power-on reset event occurred

CSC Fault - oscillator frequency is not within of its expected value

CSC Fault - Same as Alrtosc1(redundant alert)

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Module number addressing is fail

CSC Fault - Alive counter is not matched to the expected value

CSC Fault - PEC Bit in Data-check byte error

CSC Fault - - is too low

CSC Fault - Transmit data is not equal to read back data

CSC Diagnostics - Initialization Status

CSC Diagnostics - CSC #01 Status 00 00 00 00

CSC Diagnostics - CSC #02 Status 00 00 00 00

CSC Diagnostics - CSC #03 Status 00 00 00 00

CSC Diagnostics - CSC #04 Status 00 00 00 00

CSC Diagnostics - CSC #05 Status 00 00 00 00

CSC Diagnostics - CSC #06 Status 00 00 00 00

CSC Diagnostics - CSC #07 Status 00 00 00 00

CSC Diagnostics - CSC #08 Status 00 00 00 00

CSC Diagnostics - Internal Operation Mode 0B

BPCM | Stored | Battery Energy Control Module High Voltage System Interlock Circuit-

NAME	VALUE	UNITS
DTC		
Test Failed		
Test Failed This Operation Cycle		
Pending DTC		
Confirmed DTC		
Test Not Completed Since Last Clear		
Test Failed Since Last Clear		
Test Not Completed This Operation Cycle		
Warning Indicator Requested		
Occurrence flag		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter	0	
FoM - for this DTC (lifetime fails)	0	events
FoM - for this DTC (lifetime fails counts on pass)		

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT

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FoM - for this DTC (lifetime longest fail on pass)

Battery Total Time Awake

Key in Ignition

EPT-WakeUp

HCP Contactor Command

Contactor Status

Plug in Status

Balance Mode

Vehicle Speed

System (V) Volts at time of fault

Battery Lifetime AmpHrs of Charge

Battery Lifetime AmpHrs of DisCharge

HVIL Status -Vehicle

Cycles left to self heal

No Unit

HV Battery Charge Power

HV Battery Charge Power

HV Battery Discharge Power

HV Battery Discharge Power

Key - DriveRdy (CAN)

Battery Lifetime Number Of Closes

Battery Full AmpHr Capacity

Battery Cell Voltage Maximum

Battery Cell Voltage Minimum

Battery Cell Voltage Average

Battery Temperature Maximum Module

°F

Battery Temperature Minimum Module

°F

Battery Temperature Average Module

°F

DTC Extended Data Record Number - All

DTC Extended Data Record Number - 2

HV Battery Charge Power

HV Battery Discharge Power

Key Position

SOC

HV Bat SOH-R

HV Bat SOH-C

Cell Impedance Max Discharge

Cell Impedance Min Discharge

HVIL Status - Battery pack

HVIL PWM Duty Cycle source - Vehicle

HVIL PWM Duty Cycle Source - Battery

HVIL PWM Duty Cycle Sink - Battery

HVIL PWM Frequency source - Vehicle

HVIL PWM Frequency Sink - Vehicle

HVIL PWM Frequency Source - Battery

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT

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HVIL PWM Frequency Sink - Battery

HVIL Returned current - Vehicle

HVIL Returned current - Battery

Battery Cell Highest Cell number

Battery Cell Lowest Cell number

HV Battery Current Sensor Primary

HV Battery Current Sensor Secondary

HV Battery Current HVBatCrnt

HV Battery Voltage (cell sum)

HV Battery Voltage (Module Sum)

Battery Temperature Highest Sensor number

Battery Temperature Lowest Sensor number

HV Cooling Battery coolant inlet temp

°F

HV Cooling Battery coolant outlet temp

°F

BPCM temperature max

°F

BPCM temperature min

Vehicle Isolation Impedance (Positive side)

Vehicle Isolation Impedance (Negative side)

Vehicle Isolation Impedance (Equivalent)

Battery Isolation Impedance (Positive side)

Battery Isolation Impedance (Negative side)

Battery Isolation Impedance (Equivalent)

Engine Speed

Accelerator position

GPS_Date - Year

Year

GPS_Date - Month

GPS_Date - Day

UTC_Time - Hours

Hours

UTC_Time -

UTC_Time -

HCP - System Shutdown Command (CAN)

HCP - ePT LOC Diagnostics Enable (CAN)

HCP - Propulsion system active (CAN)

Qualified Contactor Command - QCC

Verified Contactor Command - VCC

HVIL PWM Duty Cycle sink - Vehicle

HV Sensor- Pack Voltage (U BAT P - U BAT M)

HV Sensor - DC Link Voltage (U DC LINK)

HV Sensor - main fuse Voltage (U MAIN P - U MAIN M) - U DC LINK

OBCM Fuse Voltage (U MAIN P - U AUX FUSE)

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (5 U.S.C. 552 (B) (6))

APM Fuse Voltage (U MAIN P - U AUX REL)	Volts
HV Sensor - Battery Voltage - Positive contactor (U BAT P)	Volts
HV Sensor - Battery Voltage - Negative contactor (U BAT M)	Volts
HV Sensor - Weld Contactor Voltage - Positive contactor (U MAIN P)	Volts
HV Sensor - Weld Contactor Voltage - Negative contactor (U MAIN M)	Volts
HV Sensor - U AUX FUSE	Volts
HV Battery Total Amp Hour Capacity (CAN)	AHr
HV Battery - Pack Isolation state (CAN)	
HV Battery - Powertrain Isolation state (CAN)	
HV Sensor - Pack Voltage VALIDITY (CAN)	
HV Battery Current HVBatCmt VALIDITY (CAN)	
HV Battery Total Amp Hour Capacity VALIDITY (CAN)	
BPCM - MCU Reset Counter	
BPCM - RAM Reset Counter	
BPCM - ROM Reset Counter	
BPCM - Safety Mechanism (TSR) Reset Counter	
BPCM - Hall current sensor supply voltage ()	Volts
BPCM - Precharge Penalty Timer (CAN)	seconds
BPCM - RTC Circuit Status	
BPCM - HVBat Sleep Time	seconds
BPCM - System Mode	No Unit
BPCM - HV Battery pack contactor request (CAN)	
BPCM - HV Battery Pack contactor Open (CAN)	
BPCM - HV Battery pack Contactor welded and impeded opening (CAN)	
BPCM - Crash Indication (CAN)	
BPCM - Crash Indication VALIDITY (CAN)	
BPCM - Retention Status	
BPCM - Active weld check type	
BPCM - Current Category of Wearout Counter	
HV Contactor State - Positive Contactor	
HV Contactor State - Negative Contactor	
HV Contactor State - Precharge Contactor	
CSC Fault - Cn Open	
CSC Fault - Cn Short to SWn	
CSC Fault - Auxiliary channel 1 Open	
CSC Fault - Auxiliary channel 2 Open	
CSC Fault - Measured result difference between Alternative path and Primary path is out of range	
CSC Fault - Balancing Switch Short	
CSC Fault - Balancing Switch Open	
CSC Fault - Alternate reference voltage is out of range	
CSC Fault - Vaa voltage is out of range	
CSC Fault - Level-shift amplifier offset voltage is out of range	
CSC Fault - Stuck ADC output bits verification with zero-scale	
CSC Fault - Stuck ADC output bits verification with full-scale	

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CSC Fault - Multiplexer Open/Short verification with test current source

CSC Fault - Multiplexer Open/Short verification with HV_MUX test current sources

CSC Fault - Measured result difference between Module voltage and Cell voltage summation

CSC Fault - $V_{hv} < V_{hvuv}$

CSC Fault - $V_{hv} - V_{dcin} > V_{hvov}$

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Scanning for cell information is not complete

CSC Fault - ADC Data Path error

CSC Fault - Packet Error Check

CSC Fault - Power-on reset event occurred

CSC Fault - Oscillator frequency is not within of its expected value

CSC Fault - Same as $Alertsc1$ (redundant alert)

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Module number addressing is fail

CSC Fault - Alive counter is not matched to the expected value

CSC Fault - PEC Bits in Data-check byte error

CSC Fault - $V_{hv} - V_{12}$ is too low

CSC Fault - Transmit data is not equal to read back data

CSC Diagnostics - Initialization Status

CSC Diagnostics - CSC #01 Status

CSC Diagnostics - CSC #02 Status

CSC Diagnostics - CSC Status

CSC Diagnostics - CSC Status

CSC Diagnostics - CSC #05 Status

CSC Diagnostics - CSC #06 Status

CSC Diagnostics - CSC #07 Status

CSC Diagnostics - CSC Status

CSC Diagnostics - AFE Internal Operation Mode

3F

FF

FF

FF

FF

FF

FF

FF

FF

BPCM | Stored | High Voltage System Interlock Out of Range Low-

NAME	VALUE	UNITS
DTC		
Test Failed		
Test Failed This Operation Cycle		
Pending DTC		
Confirmed DTC		
Test Not Completed Since Last Clear		
Test Failed Since Last Clear		
Test Not Completed This Operation Cycle		
Warning Indicator Requested		
Occurrence flag		
Original Odometer Value		
Most Recent Odometer Value		

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552 (B) (6)

Frequency Counter		
Ignition Cycle Counter		
FoM - for this DTC (lifetime fails)		events
FoM - for this DTC (lifetime fails counts on pass)		seconds
FoM - for this DTC (lifetime longest fail on pass)		seconds
Battery Total Time Awake		seconds
Key in Ignition		
EPN WakeUp		
HCP Contactor Command		
Contactor Status		
Plug in Status		
Balance Mode		
Vehicle Speed		MPH
System () Volts at time of fault		Volts
Battery Lifetime AmpHrs of Charge		AHr
Battery Lifetime AmpHrs of DisCharge		AHr
HVIL Status -Vehicle		
Cycles left to self heal		No Unit
HV Battery Charge Power		watts
HV Battery Charge Power		watts
HV Battery Discharge Power		watts
HV Battery Discharge Power		watts
Key - DriveRdy (CAN)		
Battery Lifetime Number Of Closes		
Battery Full AmpHr Capacity		AmpHrs
Battery Cell Voltage Maximum		mV
Battery Cell Voltage Minimum		mV
Battery Cell Voltage Average		mV
Battery Temperature Maximum Module		°F
Battery Temperature Minimum Module		°F
Battery Temperature Average Module		°F
DTC Extended Data Record Number - All		
DTC Extended Data Record Number - 2		
HV Battery Charge Power		watts
HV Battery Discharge Power		watts
Key Position		
SOC		%
HV Bat SOH-R		%
HV Bat SOH-C		%
Cell Impedance Max Discharge		mOhms
Cell Impedance Min Discharge		mOhms
HVIL Status - Battery pack		
HVIL PWM Duty Cycle source - Vehicle		%
HVIL PWM Duty Cycle Source - Battery		%

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT, 5 U.S.C. 552 (B) (6)

5 U.S.C. 552 (B) (6)

PWM Duty Cycle Sink - Battery		%
PWM Frequency source - Vehicle	0.0	Hz
PWM Frequency Sink - Vehicle		Hz
PWM Frequency Source - Battery		Hz
PWM Frequency Sink - Battery		Hz
Returned current - Vehicle		mA
Returned current - Battery		mA
Battery Cell Highest Cell number		
Battery Cell Lowest Cell number		
HV Battery Current Sensor Primary		Amps
HV Battery Current Sensor Secondary		Amps
HV Battery Current - BatCrnt		Amps
HV Battery Voltage (cell sum)		Volts
HV Battery Voltage (Module Sum)		Volts
Battery Temperature Highest Sensor number		
Battery Temperature Lowest Sensor number		
HV Cooling Battery coolant inlet temp		°F
HV Cooling Battery coolant outlet temp		°F
BPCM temperature max		°F
BPCM temperature min		°F
Vehicle Isolation Impedance (Positive side)		Mega Ohms
Vehicle Isolation Impedance (Negative side)		Mega Ohms
Vehicle Isolation Impedance (Equivalent)		Mega Ohms
Battery Isolation Impedance (Positive side)		Mega Ohms
Battery Isolation Impedance (Negative side)		Mega Ohms
Battery Isolation Impedance (Equivalent)		Mega Ohms
Engine Speed		rpm
Accelerator position		%
GPS_Date - Year		Year
GPS_Date - Month		
GPS_Date - Day		Days
UTC_Time - Hours		Hours
UTC_Time - Minutes		
UTC_Time - Seconds		seconds
HCP - System Shutdown Command (CAN)		
HCP - ePT LOC Diagnostics Enable (CAN)		
HCP - Propulsion system active (CAN)		
Qualified Contactor Command - QCC		
Verified Contactor Command - VCC		
PWM Duty Cycle sink - Vehicle		%

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT, 5 U.S.C. 552 (B) (6)

HV Sensor- Pack Voltage (U BAT P - U BAT M)		Volts
HV Sensor - DC Link Voltage (U DC LINK)		Volts
HV Sensor - main fuse Voltage (U MAIN P - U MAIN M) - U DC LINK		Volts
OBCM Fuse Voltage (U MAIN P - U AUX FUSE)		Volts
APM Fuse Voltage (U MAIN P - U AUX REL)		Volts
HV Sensor - Battery Voltage - Positive contactor (U BAT P)		Volts
HV Sensor - Battery Voltage - Negative contactor (U BAT M)		Volts
HV Sensor - Weld Contactor Voltage - Positive contactor (U MAIN P)		Volts
HV Sensor - Weld Contactor Voltage - Negative contactor (U MAIN M)		Volts
HV Sensor - U AUX FUSE		Volts
HV Battery Total Amp Hour Capacity (CAN)		AHr
HV Battery - Pack Isolation state (CAN)		
HV Battery - Powertrain Isolation state (CAN)		
HV Sensor - Pack Voltage VALIDITY (CAN)		
HV Battery Current HVBatCrnt VALIDITY (CAN)		
HV Battery Total Amp Hour Capacity VALIDITY (CAN)		
BPCM - MCU Reset Counter	0	
BPCM - RAM Reset Counter	0	
BPCM - ROM Reset Counter	0	
BPCM - Safety Mechanism (TSR) Reset Counter	0	
BPCM - Hall current sensor supply voltage ()		Volts
BPCM - Precharge Penalty Timer (CAN)		seconds
BPCM - RTC Circuit Status		
BPCM - HVBat Sleep Time		seconds
BPCM - System Mode		No Unit
BPCM - HV Battery pack contactor request (CAN)		
BPCM - HV Battery Pack contactor Open (CAN)		
BPCM - HV Battery pack Contactor welded and impeded opening (CAN)		
BPCM - Crash Indication (CAN)		
BPCM - Crash Indication VALIDITY (CAN)		
BPCM - Retention Status		
BPCM - Active weld check type		
BPCM - Current Category of Wearout Counter		
HV Contactor State - Positive Contactor		
HV Contactor State - Negative Contactor		
HV Contactor State - Precharge Contactor		
CSC Fault - Cn Pin Open		
CSC Fault - Cn Short to SWn		
CSC Fault - Auxiliary channel 1 Pin Open		
CSC Fault - Auxiliary channel 2 Pin Open		
CSC Fault - Measured result difference between Alternative path and Primary path is out of range		
CSC Fault - Balancing Switch Short		
CSC Fault - Balancing Switch Open		
CSC Fault - Alternate reference voltage is out of range		

5 U.S.C. 552 (B) (6)

CSC Fault - Vaa voltage is out of range

CSC Fault - Level-shift amplifier offset voltage is out of range

CSC Fault - Stuck ADC output bits verification with [REDACTED]

CSC Fault - Stuck ADC output bits verification with full-scale

CSC Fault - Multiplexer Open/Short verification with [REDACTED] HVMUX test current source

CSC Fault - Multiplexer Open/Short verification with [REDACTED] HVMUX test current sources

CSC Fault - Measured result difference between Module voltage and Cell voltage summation

CSC Fault - Vhv < Vhvuv

CSC Fault - Vhv - Vdcin > Vhvov

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Scanning for cell information is not complete

CSC Fault - ADC Data Path error

CSC Fault - Packet Error Check

CSC Fault - Power-on reset event occurred

CSC Fault - [REDACTED] oscillator frequency is not within [REDACTED] of its expected value

CSC Fault - Same as Alrtosc1(redundant alert)

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Module number addressing is fail

CSC Fault - Alive counter is not matched to the expected value

CSC Fault - PEC Bits in Data-check byte error

CSC Fault - Vhv - V12 is too low

CSC Fault - Transmit data is not equal to read back data

CSC Diagnostics - Initialization Status

CSC Diagnostics - CSC #01 Status

CSC Diagnostics - CSC #02 Status

CSC Diagnostics - CSC #03 Status

CSC Diagnostics - CSC #04 Status

CSC Diagnostics - CSC #05 Status

CSC Diagnostics - CSC #06 Status

CSC Diagnostics - CSC #07 Status

CSC Diagnostics - CSC #08 Status

CSC Diagnostics - [REDACTED] Internal Operation Mode

FF FF FF FF

00 00 00 00

00 00 00 00

00 00 00 00

00 00 00 00

00 00 00 00

00 00 00 00

00 00 00 00

00 00 00 00

[REDACTED]

BPCM | [REDACTED] | Stored | High Voltage System Interlock Out of Range High-

NAME	VALUE	UNITS
DTC	[REDACTED]	
Test Failed	[REDACTED]	
Test Failed This Operation Cycle	[REDACTED]	
Pending DTC	[REDACTED]	
Confirmed DTC	[REDACTED]	
Test Not Completed Since Last Clear	[REDACTED]	
Test Failed Since Last Clear	[REDACTED]	
Test Not Completed This Operation Cycle	[REDACTED]	

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552 (B) (6)

Warning Indicator Requested		
Occurrence flag		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
FoM - for this DTC (lifetime fails)		events
FoM - for this DTC (lifetime fails counts on pass)		seconds
FoM - for this DTC (lifetime longest fail on pass)		seconds
Battery Total Time Awake		seconds
Key in Ignition		
EPT-WakeUp		
HCP Contactor Command		
Contactor Status		
Plug in Status		
Balance Mode		
Vehicle Speed		MPH
System () Volts at time of fault		Volts
Battery Lifetime AmpHrs of Charge		AHr
Battery Lifetime AmpHrs of DisCharge		AHr
HVIL Status -Vehicle		
Cycles left to self heal		No Unit
HV Battery Charge Power		watts
HV Battery Charge Power		watts
HV Battery Discharge Power		watts
HV Battery Discharge Power		watts
Key - DriveRdy (CAN)		
Battery Lifetime Number Of Closes		
Battery Full AmpHr Capacity		AmpHrs
Battery Cell Voltage Maximum		mV
Battery Cell Voltage Minimum		mV
Battery Cell Voltage Average		mV
Battery Temperature Maximum Module		°F
Battery Temperature Minimum Module		°F
Battery Temperature Average Module		°F
DTC Extended Data Record Number - All		
DTC Extended Data Record Number - 2		
HV Battery Charge Power		watts
HV Battery Discharge Power		watts
Key Position		
SOC		%
HV Bat SOH-R		%
HV Bat SOH-C		%
Cell Impedance Max Discharge		mOhms

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (5 U.S.C. 552 (B) (6))

Impedance Min Discharge		mOhms
HVIL Status - Battery pack		
HVIL PWM Duty Cycle source - Vehicle		%
HVIL PWM Duty Cycle Source - Battery		%
HVIL PWM Duty Cycle Sink - Battery		%
HVIL PWM Frequency source - Vehicle		Hz
HVIL PWM Frequency Sink - Vehicle		Hz
HVIL PWM Frequency Source - Battery		Hz
HVIL PWM Frequency Sink - Battery		Hz
HVIL Returned current - Vehicle		mA
HVIL Returned current - Battery		mA
Battery Highest number		
Battery Lowest number		
HV Battery Current Sensor Primary		Amps
HV Battery Current Sensor Secondary		Amps
HV Battery Current HVBatCrnt		Amps
HV Battery Voltage (cell sum)		Volts
HV Battery Voltage (Module Sum)		Volts
Battery Temperature Highest Sensor number		
Battery Temperature Lowest Sensor number		
HV Cooling Battery coolant inlet temp		°F
HV Cooling Battery coolant outlet temp		°F
BPCM temperature max		°F
BPCM temperature min		°F
Vehicle Isolation Impedance (Positive side)		Mega Ohms
Vehicle Isolation Impedance (Negative side)		Mega Ohms
Vehicle Isolation Impedance (Equivalent)		Mega Ohms
Battery Isolation Impedance (Positive side)		Mega Ohms
Battery Isolation Impedance (Negative side)		Mega Ohms
Battery Isolation Impedance (Equivalent)		Mega Ohms
Engine Speed		rpm
Accelerator position		%
GPS_Date - Year		Year
GPS_Date - Month		
GPS_Date - Day		Days
UTC_Time - Hours		Hours
UTC_Time - Minutes		
UTC_Time - Seconds		seconds
HCP - System (CAN)		
HCP - ePT LOC Enable (CAN)		

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552 (B) (6)

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT

[REDACTED] active (CAN)	[REDACTED]
Qualified Contactor Command - QCC	[REDACTED]
Verified Contactor Command - VCC	[REDACTED]
HVIL PWM Duty Cycle sink - Vehicle	[REDACTED]
HV Sensor- Pack Voltage (U BAT P - U BAT M)	[REDACTED]
HV Sensor - DC Link Voltage (U DC LINK)	[REDACTED]
HV Sensor - main fuse Voltage (U MAIN P - U MAIN M) - U DC LINK	[REDACTED]
OBEM Fuse Voltage (U MAIN P - U AUX FUSE)	[REDACTED]
APM Fuse Voltage (U MAIN P - U AUX REL)	[REDACTED]
HV Sensor - Battery Voltage - Positive contactor (U BAT P)	[REDACTED]
HV Sensor - Battery Voltage - Negative contactor (U BAT M)	[REDACTED]
HV Sensor - Weld Contactor Voltage - Positive contactor (U MAIN P)	[REDACTED]
HV Sensor - Weld Contactor Voltage - Negative contactor (U MAIN M)	[REDACTED]
HV Sensor - U AUX FUSE	[REDACTED]
HV Battery Total Amp Hour Capacity (CAN)	[REDACTED]
HV Battery - Pack Isolation state (CAN)	[REDACTED]
HV Battery - Powertrain Isolation state (CAN)	[REDACTED]
HV Sensor - Pack Voltage VALIDITY (CAN)	[REDACTED]
HV Battery Current HVBatCrnt VALIDITY (CAN)	[REDACTED]
HV Battery Total Amp Hour Capacity VALIDITY (CAN)	[REDACTED]
BPCM - MCU Reset Counter	0
BPCM - RAM Reset Counter	0
BPCM - ROM Reset Counter	0
BPCM - Safety Mechanism (TSR) Reset Counter	0
BPCM - Hall current sensor supply voltage ([REDACTED])	[REDACTED] Volts
BPCM - Precharge Penalty Timer (CAN)	[REDACTED]
BPCM - RTC Circuit Status	[REDACTED]
BPCM - HVBat Sleep Time	[REDACTED]
BPCM - System Mode	[REDACTED] No Unit
BPCM - HV Battery pack contactor request (CAN)	[REDACTED]
BPCM - HV Battery Pack contactor Open (CAN)	[REDACTED]
BPCM - HV Battery pack Contactor welded and impeded opening (CAN)	[REDACTED]
BPCM - Crash Indication (CAN)	[REDACTED]
BPCM - Crash Indication VALIDITY (CAN)	[REDACTED]
BPCM - Retention Status	[REDACTED]
BPCM - Active weld check type	[REDACTED]
BPCM - Current Category of Wearout Counter	[REDACTED]
HV Contactor State - Positive Contactor	[REDACTED]
HV Contactor State - Negative Contactor	[REDACTED]
HV Contactor State - Precharge Contactor	[REDACTED]
CSC Fault - Cn Pin Open	[REDACTED]
CSC Fault - Cn Short to SWn	[REDACTED]
CSC Fault - Auxiliary channel 1 Pin Open	[REDACTED]
CSC Fault - Auxiliary channel 2 Pin Open	[REDACTED]

U.S.C. 552 (B) (6)

CSC Fault - Measured result difference between Alternative path and Primary path is out of range

CSC Fault - Balancing Switch Short

CSC Fault - Balancing Switch Open

CSC Fault - Alternate reference voltage is out of range

CSC Fault - Vaa voltage is out of range

CSC Fault - Level-shift amplifier offset voltage is out of range

CSC Fault - Stuck ADC output bits verification with scale

CSC Fault - Stuck ADC output bits verification with full-scale

CSC Fault - Multiplexer Open/Short verification with HVMUX test current source

CSC Fault - Multiplexer Open/Short verification with HVMUX test current sources

CSC Fault - Measured result difference between Module voltage and Cell voltage summation

CSC Fault - Vhv < Vhvuv

CSC Fault - Vhv - Vdcin > Vhvuv

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Scanning for cell information is not complete

CSC Fault - ADC Data Path error

CSC Fault - Packet Error Check

CSC Fault - Power-on reset event occurred

CSC Fault - oscillator frequency is not within of its expected value

CSC Fault - Same as Alrtosc1(redundant alert)

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Module number addressing is fail

CSC Fault - Alive counter is not matched to the expected value

CSC Fault - PEC Bits in Data-check byte error

CSC Fault - Vhv - V12 is too low

CSC Fault - Transmit data is not equal to read back data

CSC Diagnostics - Initialization Status

FF FF FF FF

CSC Diagnostics - CSC #01 Status

00 00 00 00

CSC Diagnostics - CSC #02 Status

00 00 00 00

CSC Diagnostics - CSC #03 Status

00 00 00 00

CSC Diagnostics - CSC #04 Status

00 00 00 00

CSC Diagnostics - CSC #05 Status

00 00 00 00

CSC Diagnostics - CSC #06 Status

00 00 00 00

CSC Diagnostics - CSC #07 Status

00 00 00 00

CSC Diagnostics - CSC #08 Status

00 00 00 00

CSC Diagnostics - Internal Operation Mode

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552 (B) (6)

0 | Stored | Battery Energy Control Module High Voltage System Interlock Out of Range Low-

NAME	VALUE	UNITS
DTC		
Test Failed		
Test Failed This Operation Cycle		
Pending DTC		

Confirmed DTC	
Test Not Completed Since Last Clear	
Test Failed Since Last Clear	
Test Not Completed This Operation Cycle	
Warning Indicator Requested	
Occurrence flag	
Original Odometer Value	miles
Most Recent Odometer Value	miles
Frequency Counter	
Ignition Cycle Counter	
FoM - for this DTC (lifetime fails)	events
FoM - for this DTC (lifetime fails counts on pass)	seconds
FoM - for this DTC (lifetime longest fail on pass)	seconds
Battery Total Time Awake	seconds
Key in Ignition	
EPT-WakeUp	
HCP Contactor Command	
Contactor Status	
Plug in Status	
Balance Mode	
Vehicle Speed	MPH
System () Volts at time of fault	Volts
Battery Lifetime AmpHrs of Charge	AHr
Battery Lifetime AmpHrs of DisCharge	AHr
HVIL Status -Vehicle	
Cycles left to self heal	No Unit
HV Battery Charge Power	watts
HV Battery Charge Power	watts
HV Battery Discharge Power	watts
HV Battery Discharge Power	watts
Key - DriveRdy (CAN)	
Battery Lifetime Number Of Closes	
Battery Full AmpHr Capacity	Amphrs
Battery Cell Voltage Maximum	mV
Battery Cell Voltage Minimum	mV
Battery Cell Voltage Average	mV
Battery Temperature Maximum Module	°F
Battery Temperature Minimum Module	°F
Battery Temperature Average Module	°F
DTC Extended Data Record Number - All	
DTC Extended Data Record Number - 2	
HV Battery Charge Power	watts
HV Battery Discharge Power	watts

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT

5 U.S.C. 552 (B) (6)

Key Position		
SOC		%
HV Bat SOH-R		%
HV Bat SOH-C		%
Cell Impedance Max Discharge		
Cell Impedance Min Discharge		
ECU Status - Battery pack		
HVIL PWM Duty Cycle source - Vehicle		%
HVIL PWM Duty Cycle Source - Battery		%
HVIL PWM Duty Cycle Sink - Battery		%
HVIL PWM Frequency source - Vehicle		Hz
HVIL PWM Frequency Sink - Vehicle		Hz
HVIL PWM Frequency Source - Battery		Hz
HVIL PWM Frequency Sink - Battery		Hz
HVIL Returned current - Vehicle		mA
HVIL Returned current - Battery		mA
Battery Cell Highest Cell number		
Battery Cell Lowest Cell number		
HV Battery Current Sensor Primary		Amps
HV Battery Current Sensor Secondary		Amps
HV Battery Current HVBatCrnt		Amps
HV Battery Voltage (cell sum)		Volts
HV Battery Voltage (Module Sum)		Volts
Battery Temperature Highest Sensor number		
Battery Temperature Lowest Sensor number		
HV Cooling Battery coolant inlet temp		°F
HV Cooling Battery coolant outlet temp		°F
BPCM temperature max		°F
BPCM temperature min		°F
Vehicle Isolation Impedance (Positive side)		Mega Ohms
Vehicle Isolation Impedance (Negative side)		Mega Ohms
Vehicle Isolation Impedance (Equivalent)		Mega Ohms
Battery Isolation Impedance (Positive side)		Mega Ohms
Battery Isolation Impedance (Negative side)		Mega Ohms
Battery Isolation Impedance (Equivalent)		Mega Ohms
Engine Speed	0	rpm
Accelerator position	0.0	%
GPS_Date - Year		Year
GPS_Date - Month		
GPS_Date - Day		Days

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. § 552 (B) (6)

UTC_Time - Hours	[REDACTED]	Hours
UTC_Time - Minutes	[REDACTED]	
UTC_Time - [REDACTED]	[REDACTED]	seconds
[REDACTED] - System Shutdown Command (CAN)	[REDACTED]	
[REDACTED] - ePT LOC Diagnostics Enable (CAN)	[REDACTED]	
[REDACTED] - Propulsion system active (CAN)	[REDACTED]	
Qualified Contactor Command - QCC	[REDACTED]	
Verified Contactor Command - VCC	[REDACTED]	
HVIL PWM Duty Cycle sink - Vehicle	[REDACTED]	%
HV Sensor - Pack Voltage (U BAT P - U BAT M)	[REDACTED]	Volts
HV Sensor - DC Link Voltage (U DC LINK)	[REDACTED]	Volts
HV Sensor - main fuse Voltage (U MAIN P - U MAIN M) - U DC LINK	[REDACTED]	Volts
OBCM Fuse Voltage (U MAIN P - U AUX FUSE)	[REDACTED]	Volts
APM Fuse Voltage (U MAIN P - U AUX REL)	[REDACTED]	Volts
HV Sensor - Battery Voltage - Positive contactor (U BAT P)	[REDACTED]	Volts
HV Sensor - Battery Voltage - Negative contactor (U BAT M)	[REDACTED]	Volts
HV Sensor - Weld Contactor Voltage - Positive contactor (U MAIN P)	[REDACTED]	Volts
HV Sensor - Weld Contactor Voltage - Negative contactor (U MAIN M)	[REDACTED]	Volts
HV Sensor - U AUX FUSE	[REDACTED]	Volts
HV Battery Total Amp Hour Capacity (CAN)	[REDACTED]	AHr
HV Battery - Pack Isolation state (CAN)	[REDACTED]	
HV Battery - Powertrain Isolation state (CAN)	[REDACTED]	
HV Sensor - Pack Voltage VALIDITY (CAN)	[REDACTED]	
HV Battery Current HVBatCmnt VALIDITY (CAN)	[REDACTED]	
HV Battery Total Amp Hour Capacity VALIDITY (CAN)	[REDACTED]	
BPCM - MCU Reset Counter	0	
BPCM - RAM Reset Counter	0	
BPCM - ROM Reset Counter	0	
BPCM - Safety Mechanism (TSR) Reset Counter	0	
BPCM - Hall current sensor supply voltage ([REDACTED])	[REDACTED]	Volts
BPCM - Precharge Penalty Timer (CAN)	[REDACTED]	seconds
BPCM - RTC Circuit Status	[REDACTED]	
BPCM - HVBat Sleep Time	[REDACTED]	seconds
BPCM - System Mode	[REDACTED]	No Unit
BPCM - HV Battery pack contactor request (CAN)	[REDACTED]	
BPCM - HV Battery Pack contactor Open (CAN)	[REDACTED]	
BPCM - HV Battery pack Contactor welded and impeded opening (CAN)	[REDACTED]	
BPCM - Crash Indication (CAN)	[REDACTED]	
BPCM - Crash Indication VALIDITY (CAN)	[REDACTED]	
BPCM - Retention Status	[REDACTED]	
BPCM - Active weld check type	[REDACTED]	
BPCM - Current Category of Wearout Counter	[REDACTED]	
HV Contactor State - Positive Contactor	[REDACTED]	
HV Contactor State - Negative Contactor	[REDACTED]	

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (5 U.S.C. 552 (B) (6))

5 U.S.C. 552 (B) (6)

HV Contactor State - Precharge Contactor

CSC Fault - Cn Pin Open

CSC Fault - Cn Short to SWn

CSC Fault - Auxiliary channel 1 Pin Open

CSC Fault - Auxiliary channel 2 Pin Open

CSC Fault - Measured result difference between Alternative path and Primary path is out of range

CSC Fault - Balancing Switch Short

CSC Fault - Balancing Switch Open

CSC Fault - Alternate reference voltage is out of range

CSC Fault - V_{ref} voltage is out of range

CSC Fault - Level-shift amplifier offset voltage is out of range

CSC Fault - Stuck ADC output bits verification with [REDACTED] scale

CSC Fault - Stuck ADC output bits verification with full-scale

CSC Fault - Multiplexer Open/Short verification with [REDACTED] HVMUX test current source

CSC Fault - Multiplexer Open/Short verification with [REDACTED] HVMUX test current sources

CSC Fault - Measured result difference between Module voltage and Cell voltage summation

CSC Fault - V_{hv} < V_{hvv}

CSC Fault - V_{hv} - V_{dcm} > V_{hvv}

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Scanning for cell information is not complete

CSC Fault - ADC Data Path error

CSC Fault - Packet Error Check

CSC Fault - Power-on reset event occurred

CSC Fault - [REDACTED] oscillator frequency is not within [REDACTED] of its expected value

CSC Fault - Same as Alrtosc1(redundant alert)

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Module number addressing is fail

CSC Fault - Alive counter is not matched to the expected value

CSC Fault - PEC Bits in Data-check byte error

CSC Fault - V_{hv} - V₁₂ is too low

CSC Fault - Transmit data is not equal to read back data

CSC Diagnostics - Initialization Status

CSC Diagnostics - CSC #01 Status

CSC Diagnostics - CSC [REDACTED] Status

CSC Diagnostics - CSC [REDACTED] Status

CSC Diagnostics - CSC [REDACTED] Status

CSC Diagnostics - CSC #05 Status

CSC Diagnostics - CSC #06 Status

CSC Diagnostics - CSC #07 Status

CSC Diagnostics - CSC [REDACTED] Status

CSC Diagnostics - [REDACTED] Internal Operation Mode

EOIA), 5 U.S.C. 552 (B) (6)

No Snapshot Data available for [REDACTED]

No Snapshot Data available for [REDACTED]

No Snapshot Data available for [REDACTED]

No Snapshot Data available for [REDACTED]

No Snapshot Data available for [REDACTED]

No Snapshot Data available for [REDACTED]

No Snapshot Data available for [REDACTED]

No Snapshot Data available for [REDACTED]

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552 (B) (6)



WI
TECH 2.0

VEHICLE SCAN REPORT

Vehicle
VIN

DI TURBO PHEV ENGINE

Odometer

Publication Date

ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	CURRENT VIN	ORIGINAL VIN	PART #
TCM	Transmission Control Module	CAN-C				
PCM	Powertrain Control Module	CAN-C				
ASBS	Automatic Sway Bar System	CAN-C				
ICS	Integrated Center Stack	CAN-I				
TPM	Tire Pressure Monitor	CAN-C				
RFH	Radio Frequency Hub	CAN-C				
ESM	Electronic Shifter	CAN-C				
DTCM	Drive Train Control Module	CAN-C				
ORC	Occupant Restraint	CAN-C				
EPS	Electric Power Steering	CAN-C				
HVAC	Heat, Ventilation and A/C	CAN-I				
CSWM	Comfort Seat Wheel Module	CAN-I				
AMP	Amplifier	CAN-I				
IPC	Instrument Panel Cluster	CAN-C				
PTS	Parktronics	CAN-C				
SCCM	Steering Column Control Module	CAN-C				
BCM	Body Controller	CAN-C				
RADIO	Radio	CAN-I	68472587AI			68472587AI
OCM	Occupant Classification	CAN-C				

SessionID #

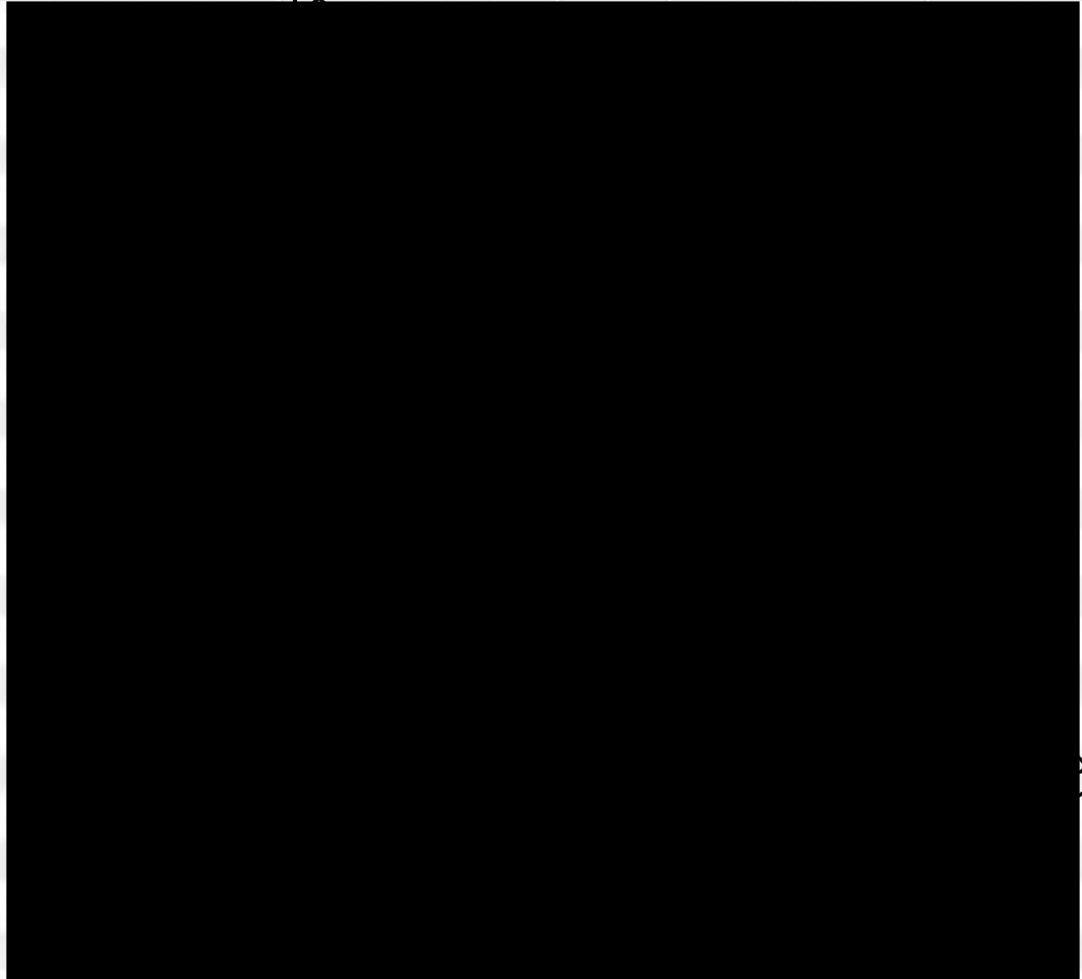
(B) (6)

LBSS	Left Blind Spot Sensor	CAN-I
	Right Blind Spot Sensor	CAN-I
BPCM	Battery Pack Control Module	CAN-C
	Hybrid Control Processor	CAN-C
CVPM	Central vision processing module	CAN-I
	Auxiliary Hybrid Control Processor	CAN-C
ABSO	Anti Lock Brakes OBD	CAN-C
SGW	Security Gateway Module	CAN-C
DPDM	Driver Presence Detection Module	CAN-C
DASM	Driver Assistance System Module	CAN-C
IDCM	Integrated Dual Charge Module	CAN-C



ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	SERIAL NUMBER	CVNS
TCM	/					
PCM						
ASBS						
ICS						
TPM						
RFH	/					
ESM						
DTCM						
ORC						
EPS						
HVAC						
CSWM						
AMP						
IPC						
PTS						
SCCM						
BCM						
RADIO						
OCM						
LBSS						
BPCM	Rest of world / ROW					



[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
CVPM	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
A	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ABSO	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
SGW	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
DPM	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
DASM	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

DTC SUMMARY

ECU	DTC CODE	DTC DESCRIPTION	STATUS
RADIO	[REDACTED]	[REDACTED]	Stored
[REDACTED]	[REDACTED]	[REDACTED]	Stored
[REDACTED]	[REDACTED]	[REDACTED]	Stored
[REDACTED]	[REDACTED]	[REDACTED]	Stored

ENVIRONMENTAL DATA SUMMARY

RADIO | [REDACTED] | Stored | CAN C Bus Off Performance-

NAME	VALUE	UNITS
DTCTable	[REDACTED]	
TestFailed	[REDACTED]	
TestFailedThisMonitoringCycle	[REDACTED]	
Pending DTC	[REDACTED]	
Confirmed DTC	[REDACTED]	
Test Not Completed This Monitoring Cycle	[REDACTED]	
Warning Indicator Requested	[REDACTED]	
DTCExtendedDataRecordNumber	[REDACTED]	
Occurance Flag	[REDACTED]	
Reserved	[REDACTED]	
Original Odometer Value	[REDACTED]	
Most Recent Odometer Value	[REDACTED]	
Frequency Counter	[REDACTED]	
Ignition Counter	[REDACTED]	
RDI	[REDACTED]	
Event Counter	[REDACTED]	

[REDACTED] | [REDACTED] | Stored | High Voltage System Interlock Circuit "A"-

NAME	VALUE	UNITS
DTC	[REDACTED]	
Test Failed	[REDACTED]	
Test Failed This Operation Cycle	[REDACTED]	
Pending DTC	[REDACTED]	

Confirmed DTC	
Test Not Completed Since Last Clear	
Test Failed Since Last Clear	
Test Not Completed This Operation Cycle	
Warning Indicator Requested	
Occurrence flag	
Original Odometer Value	miles
Most Recent Odometer Value	miles
Frequency Counter	
Ignition Cycle Counter	
FoM - for this DTC (lifetime fails)	events
FoM - for this DTC (lifetime fails counts on pass)	seconds
FoM - for this DTC (lifetime longest fail on pass)	seconds
Battery Total Time Awake	seconds
Key in Ignition	
EPT-WakeUp	
HCP Contactor Command	
Contactor Status	
Plug in Status	
Balance Mode	
Vehicle Speed	MPH
System () Volts at time of fault	Volts
Battery Lifetime AmpHrs of Charge	AHr
Battery Lifetime AmpHrs of DisCharge	AHr
HVIL Status -Vehicle	
Cycles left to self heal	No Unit
HV Battery Charge Power	watts
HV Battery Charge Power	watts
HV Battery Discharge Power	watts
HV Battery Discharge Power	watts
Key - DriveRdy (CAN)	
Battery Lifetime Number Of Closes	
Battery Full AmpHr Capacity	AmpHrs
Battery Cell Voltage Maximum	mV
Battery Cell Voltage Minimum	mV
Battery Cell Voltage Average	mV
Battery Temperature Maximum Module	°F
Battery Temperature Minimum Module	°F
Battery Temperature Average Module	°F
DTC Extended Data Record Number - All	
DTC Extended Data Record Number - 2	
HV Battery Charge Power	watts
HV Battery Discharge Power	watts
Key Position	

SOC	%
HV Bat SOH-R	%
HV Bat SOH-C	%
Cell Impedance Max Discharge	mOhms
Cell Impedance Min Discharge	mOhms
HVIL Status - Battery pack	
HVIL PWM Duty Cycle source - Vehicle	%
HVIL PWM Duty Cycle Source - Battery	%
HVIL PWM Duty Cycle Sink - Battery	%
HVIL PWM Frequency source - Vehicle	Hz
HVIL PWM Frequency Sink - Vehicle	Hz
HVIL PWM Frequency Source - Battery	Hz
HVIL PWM Frequency Sink - Battery	Hz
HVIL Returned current - Vehicle	mA
HVIL Returned current - Battery	mA
Battery Cell Highest Cell number	
Battery Cell Lowest Cell number	
HV Battery Current Sensor Primary	Amps
HV Battery Current Sensor Secondary	Amps
HV Battery Current HVBatCrnt	Amps
HV Battery Voltage (cell sum)	Volts
HV Battery Voltage (Module Sum)	Volts
Battery Temperature Highest Sensor number	
Battery Temperature Lowest Sensor number	
HV Cooling Battery coolant inlet temp	°F
HV Cooling Battery coolant outlet temp	°F
BPCM temperature max	°F
BPCM temperature min	°F
Vehicle Isolation Impedance (Positive side)	Mega Ohms
Vehicle Isolation Impedance (Negative side)	Mega Ohms
Vehicle Isolation Impedance (Equivalent)	Mega Ohms
Battery Isolation Impedance (Positive side)	Mega Ohms
Battery Isolation Impedance (Negative side)	Mega Ohms
Battery Isolation Impedance (Equivalent)	Mega Ohms
Engine Speed	rpm
Accelerator position	%
GPS_Date - Year	Year
GPS_Date - Month	
GPS_Date - Day	Days
UTC_Time - Hours	Hours

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552 (B) (6)

UTC_Time - Minutes

UTC_Time - Seconds

█ - System Shutdown Command (CAN)

█ - ePT LOC Diagnostics Enable (CAN)

█ - Propulsion system active (CAN)

Qualified Contactor Command - QCC

Qualified Contactor Command - VCC

HV PWM Duty Cycle sink - Vehicle

%

HV Sensor - Pack Voltage (U BAT P - U BAT M)

HV Sensor - DC Link Voltage (U DC LINK)

HV Sensor - main Fuse Voltage (U MAIN P - U MAIN M) - U DC LINK

OBCM Fuse Voltage (U MAIN P - U AUX FUSE)

APM Fuse Voltage (U MAIN P - U AUX REL)

HV Sensor - Battery Voltage - Positive contactor (U BAT P)

HV Sensor - Battery Voltage - Negative contactor (U BAT M)

HV Sensor - Weld Contactor Voltage - Positive contactor (U MAIN P)

HV Sensor - Weld Contactor Voltage - Negative contactor (U MAIN M)

HV Sensor - U AUX FUSE

HV Battery Total Amp Hour Capacity (CAN)

HV Battery - Pack Isolation state (CAN)

HV Battery - Powertrain Isolation state (CAN)

HV Sensor - Pack Voltage VALIDITY (CAN)

HV Battery Current HVBatCrnt VALIDITY (CAN)

HV Battery Total Amp Hour Capacity VALIDITY (CAN)

BPCM - MCU Reset Counter

0

BPCM - RAM Reset Counter

0

BPCM - ROM Reset Counter

0

BPCM - Safety Mechanism (TSR) Reset Counter

0

BPCM - Hall current sensor supply voltage (█)

Volts

BPCM - Precharge Penalty Timer (CAN)

BPCM - RTC Circuit Status

BPCM - HVBat Sleep Time

BPCM - System Mode

No Unit

BPCM - HV Battery pack contactor request (CAN)

BPCM - HV Battery Pack contactor Open (CAN)

BPCM - HV Battery pack Contactor welded and impeded opening (CAN)

BPCM - Crash Indication (CAN)

BPCM - Crash Indication VALIDITY (CAN)

BPCM - Retention Status

BPCM - Active weld check type

BPCM - Current Category of Wearout Counter

HV Contactor State - Positive Contactor

HV Contactor State - Negative Contactor

HV Contactor State - Precharge Contactor

CSC Fault - Cn Pin Open

CSC Fault - Cn Short to SWn

CSC Fault - Auxiliary channel 1 Pin Open

CSC Fault - Auxiliary channel 2 Pin Open

CSC Fault - Measured result difference between Alternative path and Primary path is out of range

CSC Fault - Balancing Switch Short

CSC Fault - Balancing Switch Open

CSC Fault - Alternate reference voltage is out of range

CSC Fault - Vaa voltage is out of range

CSC Fault - Level shift amplifier offset voltage is out of range

CSC Fault - Stuck ADC output bits verification with [REDACTED] scale

CSC Fault - Stuck ADC output bits verification with full-scale

CSC Fault - Multiplexer Open/Short verification with [REDACTED] test current source

CSC Fault - Multiplexer Open/Short verification with [REDACTED] HVMUX test current sources

CSC Fault - Measured result difference between Module voltage and Cell voltage summation

CSC Fault - $V_{hv} < V_{hvuv}$

CSC Fault - $V_{hv} - V_{dcin} > V_{hvov}$

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Scanning for cell information is not complete

CSC Fault - ADC Data Path error

CSC Fault - Packet Error Check

CSC Fault - Power-on reset event occurred

CSC Fault - [REDACTED] oscillator frequency is not within [REDACTED] of its expected value

CSC Fault - Same as Alrtosc1(redundant alert)

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Module number addressing is fail

CSC Fault - Alive counter is not matched to the expected value

CSC Fault - PEC Bits in Data-check byte error

CSC Fault - $V_{hv} - V_{12}$ is too low

CSC Fault - Transmit data is not equal to read back data

CSC Diagnostics - Initialization Status

CSC Diagnostics - CSC #01 Status

CSC Diagnostics - CSC #02 Status

CSC Diagnostics - CSC #03 Status

CSC Diagnostics - CSC #04 Status

CSC Diagnostics - CSC #05 Status

CSC Diagnostics - CSC #06 Status

CSC Diagnostics - CSC #07 Status

CSC Diagnostics - CSC #08 Status

CSC Diagnostics - AFE Internal Operation Mode

BPCM | [REDACTED] | Stored | High Voltage System Interlock Out of Range Low-

NAME	VALUE	UNITS
------	-------	-------

SessionID # [REDACTED]

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INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT

DTC

Test Failed

Test Failed This Operation Cycle

Pending DTC

Confirmed DTC

Test Not Completed Since Last Clear

Test Failed Since Last Clear

Test Not Completed This Operation Cycle

Warning Indicator Requested

Occurrence Flag

Original Odometer Value

Most Recent Odometer Value

Frequency Counter

Ignition Cycle Counter

FoM - for this DTC (lifetime fails)

events

FoM - for this DTC (lifetime fails counts on pass)

FoM - for this DTC (lifetime longest fail on pass)

Battery Total Time Awake

Key in Ignition

EPT -WakeUp

HCP Contactor Command

Contactor Status

Plug in Status

Balance Mode

Vehicle Speed

System () Volts at time of fault

Battery Lifetime AmpHrs of Charge

Battery Lifetime AmpHrs of DisCharge

HVIL Status -Vehicle

Cycles left to self heal

No Unit

HV Battery Charge Power

HV Battery Charge Power

HV Battery Discharge Power

HV Battery Discharge Power

Key - DriveRdy (CAN)

Battery Lifetime Number Of Closes

Battery Full AmpHr Capacity

Battery Cell Voltage Maximum

Battery Cell Voltage Minimum

Battery Cell Voltage Average

Battery Temperature Maximum Module

°F

Battery Temperature Minimum Module

°F

Battery Temperature Average Module

°F

DTC Extended Data Record Number - All

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DTC Extended Data Record Number - 2

HV Battery Charge Power [REDACTED] watts

HV Battery Discharge Power [REDACTED] watts

Key Position

SOC %

HV Bat SOH-R %

HV Bat SOH-C %

Cell Impedance Max Discharge mOhms

Cell Impedance Min Discharge mOhms

HVIL Status - Battery pack

HVIL PWM Duty Cycle source - Vehicle %

HVIL PWM Duty Cycle Source - Battery %

HVIL PWM Duty Cycle Sink - Battery %

HVIL PWM Frequency source - Vehicle 0.0 Hz

HVIL PWM Frequency Sink - Vehicle 0.0 Hz

HVIL PWM Frequency Source - Battery Hz

HVIL PWM Frequency Sink - Battery Hz

HVIL Returned current - Vehicle mA

HVIL Returned current - Battery mA

Battery Cell Highest Cell number

Battery Cell Lowest Cell number

HV Battery Current Sensor Primary - Amps

HV Battery Current Sensor Secondary - Amps

HV Battery Current HVBatCrnt - Amps

HV Battery Voltage (cell sum) Volts

HV Battery Voltage (Module Sum) Volts

Battery Temperature Highest Sensor number

Battery Temperature Lowest Sensor number

HV Cooling Battery coolant inlet temp °F

HV Cooling Battery coolant outlet temp °F

BPCM temperature max °F

BPCM temperature min °F

Vehicle Isolation Impedance (Positive side) Mega Ohms

Vehicle Isolation Impedance (Negative side) Mega Ohms

Vehicle Isolation Impedance (Equivalent) Mega Ohms

Battery Isolation Impedance (Positive side) Mega Ohms

Battery Isolation Impedance (Negative side) Mega Ohms

Battery Isolation Impedance (Equivalent) Mega Ohms

Engine Speed rpm

Accelerator position %

GPS_Date - Year Year

GPS_Date - Month

GPS_Date - Day

UTC_Time - Hours

UTC_Time - Minutes

UTC_Time - Seconds

HCP - System Shutdown Command (CAN)

HCP - EPT LOC Diagnostics Enable (CAN)

HCP - Propulsion system active (CAN)

Qualified Contactor Command - QCC

Verified Contactor Command - VCC

HVIL PWM Duty Cycle sink - Vehicle

HV Sensor - Pack Voltage (U BAT P - U BAT M)

HV Sensor - DC Link Voltage (U DC LINK)

HV Sensor - main fuse Voltage (U MAIN P - U MAIN M) - U DC LINK

OBCM Fuse Voltage (U MAIN P - U AUX FUSE)

APM Fuse Voltage (U MAIN P - U AUX FUSE)

HV Sensor - Battery Voltage - Positive contactor (U BAT P)

HV Sensor - Battery Voltage - Negative contactor (U BAT M)

HV Sensor - Weld Contactor Voltage - Positive contactor (U MAIN P)

HV Sensor - Weld Contactor Voltage - Negative contactor (U MAIN M)

HV Sensor - U AUX FUSE

HV Battery Total Amp Hour Capacity (CAN)

HV Battery - Pack Isolation state (CAN)

HV Battery - Powertrain Isolation state (CAN)

HV Sensor - Pack Voltage VALIDITY (CAN)

HV Battery Current HVBatCrnt VALIDITY (CAN)

HV Battery Total Amp Hour Capacity VALIDITY (CAN)

- MCU Reset Counter

- RAM Reset Counter

- ROM Reset Counter

- Safety Mechanism (TSR) Reset Counter

- Hall current sensor supply voltage ()

- Precharge Penalty Timer (CAN)

- RTC Circuit Status

- HVBat Sleep Time

- System Mode

- HV Battery pack contactor request (CAN)

- HV Battery Pack contactor Open (CAN)

- HV Battery pack Contactor welded and impeded opening (CAN)

- Crash Indication (CAN)

- Crash Indication VALIDITY (CAN)

- Retention Status

- Active weld check type

Volts

No Unit

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552 (B) (6)

BPCM - Current Category of Wearout Counter

HV Contactor State - Positive Contactor

HV Contactor State - Negative Contactor

HV Contactor State - Precharge Contactor

CSC Fault - Cn Pin Open

CSC Fault - Cn Short to SWn

CSC Fault - Auxiliary channel 1 Pin Open

CSC Fault - Auxiliary channel 2 Pin Open

CSC Fault - Measured result difference between Alternative path and Primary path is out of range

CSC Fault - Balancing Switch Short

CSC Fault - Balancing Switch Open

CSC Fault - Alternate reference voltage is out of range

CSC Fault - Vaa voltage is out of range

CSC Fault - Level-shift amplifier offset voltage is out of range

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CSC Fault - Stuck ADC output bits verification with full-scale

CSC Fault - Multiplexer Open/Short verification with HVMUX test current source

CSC Fault - Multiplexer Open/Short verification with HVMUX test current sources

CSC Fault - Measured result difference between Module voltage and Cell voltage summation

CSC Fault - $V_{hv} < V_{hvuv}$

CSC Fault - $V_{hv} - V_{dcin} > V_{hvov}$

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Scanning for cell information is not complete

CSC Fault - ADC Data Path error

CSC Fault - Packet Error Check

CSC Fault - Power-on reset event occurred

CSC Fault - oscillator frequency is not within of its expected value

CSC Fault - Same as Alrtosc1(redundant alert)

CSC Fault - Die Temperature is over the upper limit

CSC Fault - Module number addressing is fail

CSC Fault - Alive counter is not matched to the expected value

CSC Fault - PEC Bits in Data-check byte error

CSC Fault - $V_{hv} - V_{12}$ is too low

CSC Fault - Transmit data is not equal to read back data

CSC Diagnostics - Initialization Status

CSC Diagnostics - CSC #01 Status

CSC Diagnostics - CSC #02 Status

CSC Diagnostics - CSC #03 Status

CSC Diagnostics - CSC #04 Status

CSC Diagnostics - CSC #05 Status

CSC Diagnostics - CSC #06 Status

CSC Diagnostics - CSC #07 Status

CSC Diagnostics - CSC #08 Status

0 | Stored | High Voltage System Interlock Circuit "A"-

NAME	VALUE	UNITS
DTC		
Test Failed		
Test Failed This Operation Cycle		
Pending DTC		
Confirmed DTC		
Test Not Completed Since Last Clear		
Test Failed Since Last Clear		
Test Not Completed This Operation Cycle		
Warning Indicator Requested		
DTC Extended Data Record Number		
Occurrence flag		
Original Odometer Value		
Most Recent Odometer Value		
Frequency Counter		
Ignition Cycle Counter		
Microcontroller reset reason -		
Microcontroller reset reason - Core 1		
Real time clock		
RAM stamps keyOn		
RAM Stamps		
Accelerator Pedal Position	0	%
Barometric Pressure		
Engine Coolant Temperature		°F
Engine Speed		
Vehicle Speed		
HV Battery SOC		
Brake Switch Status		
Battery Feed Voltage 1		
Battery Feed Voltage 2		
Battery Feed Voltage 3		
Internal EPS Voltage A		
Internal EPS Voltage B		
Hybrid System State		
Actual Torque - Motor A		
Actual Torque - Motor B		
Available Motor Torque - Motor A		
Available Motor Torque - Motor B		
Available Regen Torque - Motor A		
Available Regen Torque - Motor B		Lbs
Commanded Torque - Motor A		

Commanded Torque - Motor B		Ft-Lbs
Motor A - Inverter Current - phase A		AMP
Motor A - Inverter Current - phase B		AMP
Motor A - Inverter Current - phase C		AMP
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Motor A Resolver Angle		Degree
Motor B Resolver Angle		Degree
Motor A Temp Sensor		°F
Motor B Temp Sensor		°F
Outside Air Temperature		°F
Ignition State		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
Propulsion System Active		
HV Contactor Status		
HV Battery Voltage from BPCM		Volts
Electric Motor A Speed		rpm
Electric Motor B Speed		rpm
PIM DC Link Voltage - A		Volts
PIM DC Link Voltage - B		Volts
Inverter A IGBT Temperature for phase A		°F
Inverter A IGBT Temperature for phase B		°F
Inverter A IGBT Temperature for phase C		°F
Inverter B IGBT Temperature for phase A		°F
Inverter B IGBT Temperature for phase B		°F
Inverter B IGBT Temperature for phase C		°F
APM Status		
Impact Event		
PRND Position Display		
HCP System Shutdown Command		
PHEV Charging Status		
Distance Travelled with Light ON		miles
OBCM Operating Mode		
Detected State		
HV Battery Sleep Time	0	Days
SW Build Release Version		
HCP SW Version		
High Voltage bus voltage fault status		
HV Battery Voltage		Volts
HV Battery Voltage fault status		
APM HV Voltage		Volts

APMHV Voltage fault status	[REDACTED]	
ECH HV Voltage	[REDACTED]	Volts
ECH HV Voltage fault status	[REDACTED]	
EAC HV Voltage	[REDACTED]	Volts
EAC HV Voltage fault status	[REDACTED]	
HV Battery Contactor Status FA	[REDACTED]	
PAP Contactor Open	[REDACTED]	
Air PTC Heater HV Voltage	[REDACTED]	Volts
Air PTC Heater HV Voltage Fault Status	[REDACTED]	
DBK Heater HV Voltage	[REDACTED]	Volts
DBK Heater HV Voltage Fault Status	[REDACTED]	
High Voltage Interlock Status	[REDACTED]	
Engine WarmUp Cycle Complete	[REDACTED]	
Charging System Status	[REDACTED]	
Charging Level	[REDACTED]	
High Voltage Contactor Control	[REDACTED]	
GPS Date - Year	[REDACTED]	Year
GPS Date - Month	[REDACTED]	
GPS Date - Day	[REDACTED]	Days
UTC Time - Hours	[REDACTED]	Hours
UTC Time - Minutes	[REDACTED]	
UTC Time - Seconds	[REDACTED]	seconds
ECU Time - Milliseconds	[REDACTED]	ms

SNAPSHOT DATA SUMMARY

No Snapshot Data available for [REDACTED]

No Snapshot Data available for [REDACTED]

No Snapshot Data available for [REDACTED]

No Snapshot Data available for [REDACTED]