



WI
TECH 2.0

CONFIGURATION REPORT

Vehicle [REDACTED] DI TURBO [REDACTED] ENGINE [REDACTED] Odometer [REDACTED]
VIN [REDACTED] Publication Date [REDACTED]

ECU SUMMARY INFO

ECU	NAME	FLASH PART #	CURRENT VIN	ORIGINAL VIN	PART #
TCM	Transmission Control Module	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
PCM	Powertrain Control Module	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ICS	Integrated Center Stack	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
RFH	Radio Frequency Hub	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ESM	Electronic Shifter	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
DTCM	Drive Train Control Module	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ORC	Occupant Restraint	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
EPS	Electric Power Steering	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
HVAC	Heat, Ventilation and A/C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
AMP	Amplifier	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IPC	Instrument Panel Cluster	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
SCCM	Steering Column Control Module	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
BCM	Body Controller	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
RADIO	Radio	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
OCM	Occupant Classification	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
BPCM	Battery Pack Control Module	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	Hybrid Control Processor	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	Auxiliary Hybrid Control Processor	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ABS	Anti Lock Brakes OBD	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

SGW	Security Gateway					
	Charge Module					

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	SERIAL NUMBER	CVNS
PCM						
ICS						
RFH						
ESM						
DTCM						
ORC						
EPS						
HVAC						
AMP				4034		
IPC					G	
SCCM						
BCM						
RADIO						
OCM						
BPCM	Rest of world / ROW					
HCP						
AHCP						
ABSO						
DPDM						

CONFIGURATION

CONFIGURATION

NAME	VALUE	UNITS
Autostick/ERS On/Off Switch Equipped		
Paddle-Shift Switches Equipped		
Shifter with Sport Mode Position Equipped		
Shifter with Low Mode Position Equipped		
Sport Mode Switch or Virtual Switch (Non-Terrain) Equipped		
Overdrive Off or Tow Haul Mode Switch or Virtual Switch (Non-Terrain) Equipped		
ECO/Optimizer Switch Equipped		

ERS/Autostick/Tip Non-paddle on Steering Wheel equipped

ERS/Autostick/Tip Non-paddle on Shifter in D position equipped

ERS/Autostick/Tip Non-paddle on Shifter in A or M position equipped

FWD Equipped

RWD Equipped

AWD Equipped

4WD with switchable Lo Range equipped

Engine Start/Stop equipped

Polystable 2-shift (Cableless without return-to-center) equipped

Long Learn Enabled

Short Learn Enabled

PCM CONFIGURATION

NAME	VALUE	UNITS
AC Equipped		
AC Equipped Over Bus		
Power Steering Switch Equipped		
Integrated Cruise Control		
EMAT (Getrag DCT transmission) Equipped		
Vehicle Speed Sensor #1 Calculated from CAN		
Police Package Equipped		
Unleaded Gasoline Fuel		
Unleaded diesel fuel		
V8 Engine		
4 Speed Automatic Transmission Equipped		
Electronic Automatic Transmission (EATX) Equipped		
Vehicle Speed Sensor #1 Calculated by ECU		
V8 Engine		
Engine		
Engine		
Sensorless FFV Enabled		
Electronic Throttle Control Equipped		
Engine		
Engine		
Engine		
Engine		
Engine		
Engine		
Engine		
Engine		
MTV Solenoid Equipped		
MDS Equipped		

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

Turbocharger Equipped

SRV Equipped

Secondary Air Equipped

Shift Indicator Lamp Equipped

Barometric Sensor Equipped

IP 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

W14 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 Sensor Equipped

Wide Range Sensor 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

engine

engine

engine

Engine

Turbine 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 Relay System Equipped

/ /

/ /

/

VLP Is Learnable Indicator

VLP Equipped Indicator

VFS Actuators Available Indicator

ERS Equipped Indicator

Engine Software In Package

Transmission Software Included

ICC Cruise Equipped

ETC Cruise equipped

Adaptive Cruise Control Equipped

A/C Equipped

Adaptive Cruise Control Hardware Equipped

DUAL_ALTERNATOR_GEN1_LEARNEDCOPY

TOOLCONFIG_OIL_PRESS_ABS_EQUIPPED

Equipped

Equipped

Equipped

Cummins Equipped

Equipped

VMM Equipped

Powernet Equipped

CUSW () Equipped

CUSW () Equipped

Equipped

Next Gen Bus Equipped

Constant Heater Temperature Control Valve Equipped

High Side Port Tumble Valve Equipped

CMCV Equipped

Turbine Volute Valve Actuator Equipped

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

CUSW PROXI Write Programming Support Enabled

Active Engine Mount Equipped

ZF 9 Transmission Equipped

HPT Transmission Equipped

Variable Speed Fuel Pump Equipped

Operator Idle Speed Request Equipped

PTO System Equipped

Air Shutoff Valve Bank 1 Control Solenoid 1 Equipped

Air Shutoff Valve Bank 1 Control Equipped

Air Shutoff Valve Bank 2 Control Equipped

Dual Stage Oil Pump Equipped

Auxiliary Coolant Pump Equipped

Trans Skip Shift Equipped

Trans Reverse Lockout Equipped

Port Flap Valve Equipped

Brushless PWM Fan Equipped

Engine

Primary Lin Alternator Equipped

Coolant On-Off Pump Equipped

Oil Pressure Sensor Enabled

Learning Strategy Equipped

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

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 Solenoid Valve Equipped

Wastegate HBridge Equipped

Remote Start Present

Engine Oil Pressure Sensor Type

None

ICS CONFIGURATION

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

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		

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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

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

Base TPM Present

Full Size Matching Spare Tire Present

ECU Ship Status

Tire Pressure System

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Selectable Tire Fill Alert

TPM Auto-Locate Enabled

TPMS Configuration

CONFIGURATION

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

ORC CONFIGURATION

NAME	VALUE	
Rollover Sensing	[REDACTED]	
EPPM	[REDACTED]	
Occupant Classification (OCM)	[REDACTED]	
[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	
[REDACTED] Switch	[REDACTED]	
[REDACTED] Center seat belt Switch	[REDACTED]	
[REDACTED] Right seat belt Switch	[REDACTED]	
Driver Seat Track Position Sensor	[REDACTED]	
Passenger Seat Track Position Sensor	[REDACTED]	
Passenger Occupant Detection Sensor	[REDACTED]	
Passenger Airbag Disable Switch	[REDACTED]	
Passenger Airbag Disable Indicator	[REDACTED]	
Driver Frontal Squib 1	[REDACTED]	
Driver Frontal Squib 2	[REDACTED]	
Driver Frontal Squib 3	[REDACTED]	
Passenger Frontal Squib 1	[REDACTED]	
Passenger Frontal Squib 2	[REDACTED]	
Passenger Frontal Squib 3	[REDACTED]	
Driver Knee Bolster Squib	[REDACTED]	
Passenger Knee Bolster Squib	[REDACTED]	
Driver Seatbelt Retractor Pretensioner	[REDACTED]	
Passenger Seatbelt Retractor Pretensioner	[REDACTED]	
Driver Seatbelt Load Limiter	[REDACTED]	

SessionID

[REDACTED]

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

Passenger Seatbelt Load Limiter	[REDACTED]	
Driver Seatbelt Anchor Pretensioner	[REDACTED]	
Passenger Seatbelt Anchor Pretensioner	[REDACTED]	
Driver Seatbelt Buckle Pretensioner	[REDACTED]	
Passenger Seatbelt Buckle Pretensioner	[REDACTED]	
Left Curtain Squib 1	[REDACTED]	
Right Curtain Squib 1	[REDACTED]	
Left Side Seat Squib 1	[REDACTED]	
Right Side Seat Squib 1	[REDACTED]	
[REDACTED] Left Seat Side Airbag	[REDACTED]	
[REDACTED] Right Seat Side Airbag	[REDACTED]	
Driver Frontal Squib 4	[REDACTED]	
Passenger Frontal Squib 4	[REDACTED]	
Left Up-Front Acceleration Sensor	[REDACTED]	
Right Up-Front Acceleration Sensor	[REDACTED]	
Right B-Pillar Impact Acceleration Sensor	[REDACTED]	
Left B-Pillar Impact Acceleration Sensor	[REDACTED]	
Left C-Pillar Impact Acceleration Sensor	[REDACTED]	
Right C-Pillar Impact Acceleration Sensor	[REDACTED]	
Right D-Pillar Impact Acceleration Sensor	[REDACTED]	
Left D-Pillar Impact Acceleration Sensor	[REDACTED]	
Left Side Door Pressure Sensor	[REDACTED]	
Right Side Door Pressure Sensor	[REDACTED]	
Configuration Column Identifier	[REDACTED]	

HVAC CONFIGURATION

NAME		UNITS
[REDACTED] ATC Control (Factory)	[REDACTED]	
[REDACTED] ATC Control	[REDACTED]	
Dual Zone MTC Control	[REDACTED]	
Single Zone MTC Control	[REDACTED]	
MTC With EBL ([REDACTED])	[REDACTED]	
MTC Without EBL ([REDACTED])	[REDACTED]	
MTC heater only ([REDACTED])	[REDACTED]	

AMP CONFIGURATION

NAME	VALUE	UNITS
[REDACTED] Calibration Date - [REDACTED]	[REDACTED]	
[REDACTED] Calibration Date - [REDACTED]	[REDACTED]	
[REDACTED] Calibration Date - Patch [REDACTED]	[REDACTED]	
Current [REDACTED] Calibration ID - [REDACTED]	[REDACTED]	
[REDACTED] Status	[REDACTED]	

Surround Sound Activated

Door Module - Left Front

Door Module - Right Front

Premuim - 1

Premuim - 2

Premuim - 3

No ANC

No Rear Doors

No

IPC CONFIGURATION

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

SCCM CONFIGURATION

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

BCM CONFIGURATION

NAME	VALUE	UNITS
RBSM		
LBSM		
BCM (Interior Bus)		
HSM		
HVAC		
PTCM		
Radio		
ITM		
AMP		
EDM		

HVAC_R

TBM

AHLM/AFLS

ASCM

BCM (PT)

OTCM

PWM

EPS

ESM

ABS

RFH

IPC

ORC

PTS

SCCM

ELSD

TCM

TPM

AFLS

ITBM

OCM

DPDM

[REDACTED]

[REDACTED]

[REDACTED]

Number of Reprogramming Attempts - Counter #0

Vehicle Configuration Programmed Status

Last Programmed Status

Last Configuration Odometer

Vehicle Configuration Auto Write Counter

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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

ECU Configuration 3		
ECU Configuration 4		
ECU Configuration 5 (Wireless)		
ECU Configuration 5 (Doors)		
ECU Configuration 5 (Memory)		
ECU Configuration 6 (Brake)		
ECU Configuration 6 (Suspension)		
ECU Configuration 6 (Powertrain)		
ECU Configuration 6 (Safety)		
ECU Configuration 7 (CBC Exterior Lighting Calibrations)		
ECU Configuration 7 (LIN and Miscellaneous)		
ECU Configuration 9A		
ECU Configuration 9 (ITM)		
ECU Configuration 10		
ECU Configuration 11		
ECU Configuration 12		
ECU Configuration 13		
ECU Configuration 14		
ECU Configuration 15 (CBC Features)		
ECU Configuration 15 (Suspension)		
Vehicle Configuration 7 - Write Counter		
Vehicle Config		
Vehicle Config		
Model Year		
Vehicle Line		
Country Code		
Left/Right Hand Drive		
Remote Start Present		
Drive Configuration		
Emode Present		
Auto Highbeam		
Body Style		
Maximum Vehicle Speed		
Shifter 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		

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

of

SKIM 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	
Display Outside Temperature Present	
HVAC Configuration	
Vehicle Brand	
Display Compass Heading Present	
Interior EC Mirror Present	
ESCL system present	
High Intensity Discharge Head Lamps	
Secondary Lock Present	
Liftgate/Trunk Type	
Collision present	
Forward Collision Warning present	
Base system present	
Premium system present	

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

of

Paddle Shift Feature Present		
Sport Mode Present		
Auto Park Present		
Passive Entry Present		
Keyless Go Present		
Transfer Case High Ratio		
Auto Ratio		
Transfer Case Low Range Reduction Ratio		
Dynamic Tire Circumference (All or Rear)		
Dual Rear Wheel (DRW) Vehicle Present		
Non-Regulated Tire () Present		
Steering Ratio at		
Steering Ratio at Positive Angle		
Steering Ratio at Positive Angle		
Steering Ratio at Positive Angle		
Steering Ratio at Positive Angle		
Steering Ratio at Positive Angle		
Analog Door Sensor Configuration		
Air Quality System Present		
Steering Ratio at Negative Angle		
Steering Ratio at Negative Angle		
Steering Ratio at Negative Angle		
Steering Ratio at Negative Angle		
Steering Ratio at Negative Angle		
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 F9		
Reserved - Pin G12		
Horn Switch Input Present - Pin		
Reserved - Pin		
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 D10		

of

Diesel Cabin Heater #1 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 &		
Inverter Enable Relay Output Present - Pin		
Reserved - Pin		
Gated Park Output Present - Pin D-24		
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		
UGDO Feed Output Present - Pin		
VTA 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		
Lane Change		
Exterior Light Loadshed Enable		
Front Wiper Park Enable		
Rear Wiper Park Enable		
Reversible Washer Pump Enable		
Tail Lamp		
DRL Configuration		
DRL Lamp Location		
DRL Dropout Enable		

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

of

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 Wiper 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 (F2)		
Door Lock Switch Signal FT RT Usage (F2)		
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		
DAB Present		
Vehicle Theft Alarm Present		
Heated Steering Wheel Present		
VIN Check Digit Diabie		
Surround Sound Feature Present		
Power Door Locks Present		
Antenna Type		

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

of

CTP Max AC Present

Hybrid Electric Powertrain Present

Disable CD Eject

DTV Front Camera Present

DTV Side Camera Present

Low 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

Present

Dimmer

Heated Seat Present

Split Shaft Present

Manual Headlamp Leveling

Gear Shift Indicator

Service Interval

Temperature Celsius for

Type of

Tip Start Present

AP5 Trunk Lock

Airport Scenario Trunk Set

AP1 Left Front

AP2 Right Front

AP3 Left Rear

Right Rear

Global Up

Global Down

Sun Shade

Puddle Lamp Present

Rear Door Pre Short Drop

Passenger Window Lockout

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

of

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	
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 Pro Present	
Seat Airbags Present	
Reserved	
Reserved	
Integrated EPP Present	
BUX vehicle	
Signature Light Present	
Dual Filament Headlamp	
Front Turn Lamp Diagnostics	

Auto Headlamp On Threshold

Auto Headlamp Off Threshold

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

Present

Present

Humidity Sensor Present

Manual Trans Present

DC to DC Converter Present

Present

Auto Relock Time

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

EVIC Switch Module Present

Compass Mounting Angle

Signature Lamps or Mirror Repeater Present - Pin & Pin

Backup Reverse Lamp Left Present - Pin

Backup Reverse Lamp Right Present - Pin

Stop/Turn Lamp or Stop Lamp Present Pin E2 &

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

Ultrasonics

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[REDACTED] of [REDACTED]

Tilt

Swing Gate Lock Present - Pin XXXXXXXXXX

Swing Gate Unlock Present - Pin

Front Fog Voltage

Rear Fog Voltage

CHMSL Lamp Output Disable

Secondary Door Ajar Present - Pin [REDACTED]

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

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

SessionID

Parameter	Value	Unit
Rear Fog Voltage	[REDACTED]	V
SHMSL Lamp Output Disable	[REDACTED]	Boolean
Secondary Door Ajar Present - Pin [REDACTED]	[REDACTED]	Boolean
Manual Door Locks Present	[REDACTED]	Boolean
Rain Sensor Module #2 Present	[REDACTED]	Boolean
Auto High Beam Module Location	[REDACTED]	Boolean
Average Last Longitudinal Acceleration Values	[REDACTED]	m/s²
Average Last Lateral Acceleration Values	[REDACTED]	m/s²
Excess Longitudinal Acceleration Factor	[REDACTED]	Factor
Excess Lateral Acceleration Factor	[REDACTED]	Factor
[REDACTED] Smoothing Duration	[REDACTED]	s
Brake Smoothing Factor	[REDACTED]	Factor
Steering Smoothing Duration	[REDACTED]	s
Steering Smoothing Factor	[REDACTED]	Factor
Steering Smoothing Threshold	[REDACTED]	Factor
Brake Smoothing Threshold	[REDACTED]	Factor
Maximum Longitudinal Change	[REDACTED]	m/s²
Maximum Lateral Change	[REDACTED]	m/s²
Acceleration Threshold	[REDACTED]	m/s²
Acceleration Factor	[REDACTED]	Factor
Nose Dive Threshold	[REDACTED]	Factor
Nose Dive Factor	[REDACTED]	Factor
RKE Auto-Relock Feature Enable	[REDACTED]	Boolean
PE Auto-Relock Feature Enable	[REDACTED]	Boolean
VTA Hood Ajar Monitoring	[REDACTED]	Boolean
Horn Chirp Duration	[REDACTED]	s
Pitch and Roll Present	[REDACTED]	Boolean
Parking Light Enable	[REDACTED]	Boolean
ASBM Minimum Voltage Time	[REDACTED]	s
ASBM Battery Minimum Voltage	[REDACTED]	V
Interior Lighting Night Threshold	[REDACTED]	Factor
Interior Lighting Day Threshold	[REDACTED]	Factor
Axle Locker Configuration	[REDACTED]	Factor
Transmission Equipped	[REDACTED]	Boolean

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of

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

RADIO CONFIGURATION

NAME	VALUE	UNITS
Satellite Subscription ID		
Satellite Subscription Status		
Satellite Subscription Reason Code		
Satellite Subscription Suspend		
Satellite Subscription Suspend Month		
Satellite Subscription Suspend		
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	Time	
Front Seat Video Playback		
Cabin EQ Curve Number Currently Used by		
Splash Screen		
Compass on the bus messaging Authorization		
GPS on the Bus messaging Authorization		
USB Hubs Detected		
SD Card Readers Detected		Unit
Enumerated USB Devices		Unit
Aux Jack		
DTV Short Term Configuration		

ABSO CONFIGURATION

NAME	VALUE	UNITS
Vehicle Line Identification		
Displacement		Unit
Hybrid Type		
Trans Type		
Drive Configuration		
Chassis Type		
Axle Ratio		No Unit
Tire Circumference		



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TECH 2.0

VEHICLE SCAN REPORT

Vehicle VIN [REDACTED] DI TURBO [REDACTED] ENGINE [REDACTED] Odometer [REDACTED]
Publication Date [REDACTED]

ECU SUMMARY INFO

ECU	NAME	FLASH PART #	CURRENT VIN	ORIGINAL VIN	PART #
TCM	Transmission Control Module	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
PCM	Powertrain Control Module	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ICS	Integrated Center Stack	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
RFH	Radio Frequency Hub	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ESM	Electronic Shifter	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
DTCM	Drive Train Control Module	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ORC	Occupant Restraint	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
EPS	Electric Power Steering	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
HVAC	Heat, Ventilation and A/C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
AMP	Amplifier	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IPC	Instrument Panel Cluster	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
SCCM	Steering Column Control Module	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
BCM	Body Controller	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
RADIO	Radio	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
OCM	Occupant Classification	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
BPCM	Battery Pack Control Module	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	Hybrid Control Processor	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	Auxiliary Hybrid Control Processor	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ABS	Anti Lock Brakes OBD	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

SGW	Security Gateway					
	Charge Module					

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	SERIAL NUMBER	CVNS
TCM	/					
PCM						
ICS		00				
RFH						
ESM						
EPS			DC			
HVAC						
AMP						
					G	
SCCM						
BCM						
RADIO						
OCM						
BPCM	Rest of world / ROW					
HCP						
AHCP						
ABSO						
DPDM						

DTC SUMMARY

ECU	DTC CODE	DTC DESCRIPTION	STATUS
			Active
			Active
			Active
			Active

ENVIRONMENTAL DATA SUMMARY

RADIO | | Active | CAN C Bus Off Performance-

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	1	
Ignition Counter	0	
Event Counter		

BPCM | Active | Hybrid Battery Precharge Contactor Circuit-

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	0	
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	
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 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	
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	
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	°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	
GPS Date - Day	
UTC Time - Hours	
UTC Time - Minutes	
Time -	
HCP - System Shutdown Command (CAN)	
HCP - ePT LOC Diagnostics Enable (CAN)	
HCP - Propulsion system active (CAN)	
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)	

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HV Sensor - U AUX FUSE

HV Battery Total Amp Hour Capacity (CAN)

Battery - Pack Isolation state (CAN)

HV Battery - Powertrain Isolation state (CAN)

HV Sensor - Pack Voltage VALIDITY (CAN)

HV Battery Total Amp Hour Capacity VALIDITY (CAN)

BPCM - MCU Reset Counter

BPCM - RAM Reset Counter

BPCM - ROM Reset Counter

0

BPCM - Hall current sensor supply voltage

BPCM - Precharge Penalty Timer (CAN)

BPCM - RTC Circuit Status

- 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 -scale

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

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

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

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT

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 - Samples 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 # Status

CSC Diagnostics - CSC #07 Status

CSC Diagnostics - CSC #08 Status

CSC Diagnostics - Internal Operation Mode

HVIL PWM Duty Cycle sink - Vehicle

SBC Status

Vref UV Flag

Vref UV State

count @open

0

count @close

0

@open

0

@close

0

Pos HSD Feedback Voltage

Pos HSD Feedback Current

Neg HSD Feedback Voltage

Neg HSD Feedback Current

OCM Value Mon Curr Enrg Val

Retention Diagnosis Case

Retention Diagnosis Flag

Retention Diagnosis Status

Retention Diagnosis Status - 0

BPCM | █ | Active | Battery Energy Control Module Hybrid Battery System Precharge Time Too Long-

NAME	VALUE	UNITS
█	█	
Test Failed	█	
Test Failed This Operation Cycle	█	
Pending █	█	
Confirmed █	█	
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	0	
FoM - for this █ (lifetime fails)	█	
FoM - for this █ (lifetime fails counts on pass)	█	
FoM - for this █ (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)	False	
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	
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	
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)	

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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

GPS Date - Month

GPS Date - Day

UTC Time - Hours

UTC Time - Minutes

Time -

HCP - System Shutdown Command (CAN)

HCP - ePT LOC Diagnostics Enable (CAN)

HCP - Propulsion system active (CAN)

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 Total Amp Hour Capacity VALIDITY (CAN)

- MCU Reset Counter

- RAM Reset Counter

- ROM 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)

No Unit

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT

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

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CSC Fault - Auxiliary channel 2 Pin Open

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CSC Fault - Balancing Switch Open

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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

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

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

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

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

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

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

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 (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 exepected 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

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 - FE Internal Operation Mode

HVIL PWM Duty Cycle - Vehicle

SBC Status

Vref UV Flag

Vref UV State

@open

0

@close

0

@open

0

@close

0

HSD Feedback Voltage

HSD Feedback Current

Neg HSD Feedback Voltage

Neg HSD Feedback Current

OCM Value Mon Curr Enrg Val

Retention Diagnosis Case

Retention Diagnosis Flag

Retention Diagnosis Status

HCP | Active | Drive Motor B Inverter Performance-

NAME	VALUE	UNITS
Test Failed		
Test Failed This Operation Cycle		
Pending		
Confirmed		
Test Not Completed Since Last Clear		
Test Failed Since Last Clear		
Test Not Completed This Operation Cycle		
Warning Indicator Requested		
Extended Data Record Number		
Occurrence flag		
Original Odometer Value		

Most Recent Odometer Value

Frequency Counter

Ignition Cycle Counter

0

Microcontroller reset reason - [REDACTED]

Microcontroller reset reason - [REDACTED]

Real time clock

RAM stamps keyOn

RAM stamps

Accelerator Pedal Position

0

%

Engine Coolant Temperature

°F

Engine Speed

Vehicle Speed

Battery SOC

%

Brake Switch Status

Battery Feed Voltage 1

Battery Feed Voltage 2

Battery Feed Voltage 3

Internal EPS Voltage Sense A

Internal EPS Voltage Sense B

Hybrid System State

Outside Air Temperature

°F

Ignition State

Propulsion System Active

HV Contactor Status

APM Status

Impact Event

PRND Position Display

Distance Travelled with Light ON

HV Battery Sleep Time

eMotor A Shutdown History [0]

eMotor A Shutdown History [1]

eMotor A Shutdown History [2]

eMotor A Fault History [0]

eMotor A Fault History [1]

eMotor A Fault History [2]

eMotor A Fault History [3]

eMotor A Fault History [4]

eMotor A Fault History [5]

eMotor B Shutdown History [0]

eMotor B Shutdown History [1]

eMotor B Shutdown History [2]

eMotor B Fault History [0]

eMotor B Fault History [1]
eMotor B Fault History [2]
eMotor B Fault History [3]
eMotor B Fault History [4]
eMotor B Fault History [5]
eMotor A FA Speed or Position Fault Active
eMotor A FA Motor Temperature Fault Active
eMotor A FA Inverter Temperature A Fault Active
eMotor A FA Inverter Temperature B Fault Active
eMotor A FA Inverter Temperature C Fault Active
eMotor A FA DC Current Fault Active
eMotor A FA DC Voltage Fault Active
eMotor A FA Acceleration Fault Active
eMotor A FA Rotor Temperature Fault Active
eMotor A FA Capacitor Temperature Fault active
eMotor A FA Current Sensor A Fault Active
eMotor A FA Current Sensor B Fault Active
eMotor A FA Current Sensor C Fault Active
eMotor A FA Position Sensor Fault Active
eMotor A FA DC Voltage Out of Range Fault Active
eMotor A FA Reserved
eMotor B FA Speed or Position Fault Active
eMotor B FA Motor Temperature Fault Active
eMotor B FA Inverter Temperature A Fault Active
eMotor B FA Inverter Temperature B Fault Active
eMotor B FA Inverter Temperature C Fault Active
eMotor B FA HV input Current Fault Active
eMotor B FA HV Input Voltage Fault Active
eMotor B FA Acceleration Fault Active
eMotor B FA Rotor Temperature Fault Active
eMotor B FA Capacitor Temperature Fault Active
eMotor B FA Current Sensor A Fault Active
eMotor B FA Current Sensor B Fault Active
eMotor B FA Current Sensor C Fault Active
eMotor B FA Position Sensor Fault Active
eMotor B FA DC Voltage Out of Range Fault Active
eMotor B FA Reserved

eMotor A Current Ia Max

eMotor A Current Ia

eMotor A Current Ib Max

eMotor A Current Ib Min

eMotor A Current Ic Max

A

eMotor A Current Ic Min	
eMotor A Current Id Max	
eMotor A Current Id Min	
eMotor A Current Iq Max	
eMotor A Current Iq Min	
eMotor A Current Sum Max	
eMotor A Current Sum Min	
eMotor A HV Input voltage Max	
eMotor A HV Input voltage Min	
eMotor A speed max mrads	
eMotor A speed min mrads	
eMotor B Current Ia Max	
eMotor B Current Ia Min	
eMotor B Current Ib Max	
eMotor B Current Ib Min	
eMotor B Current Ic Max	
eMotor B Current Ic Min	
eMotor B Current Id Max	
eMotor B Current Id Min	
eMotor B Current Iq Max	
eMotor B Current Iq Min	
eMotor B current Sum Max	
eMotor B current sum Min	
eMotor B HV Input Voltage Max	
eMotor B HV Input Voltage Min	
eMotor B speed Max mrads	
eMotor B speed Min mrads	
eMotor A Current Ia Offset	
eMotor A Current Ib Offset	
eMotor A Current Ic Offset	
eMotor B Current Ia Offset	
eMotor B Current Ib Offset	
eMotor B Current Ic Offset	
eMotor A HV Battery Voltages	
eMotor A HV input Voltages	
eMotor B HV Battery Voltages	
eMotor B HV input Voltages	
eMotor A Motoring Torque Limit	
eMotor A Regenerative Torque Limit	
eMotor B Motoring Torque Limit	
eMotor B Regenerative Torque Limit	
eMotor A Torque command	

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eMotor A Torque achieved		
eMotor A speed		
eMotor B Torque command		
eMotor B Torque achieved		
eMotor B Speed		
eMotor A Temperature Stator		°F
eMotor A Temperature Inverter Model		°F
eMotor A Temperature Inverter 0		°F
eMotor A Temperature Inverter 1		°F
eMotor A Temperature Inverter 2		°F
eMotor A Temperature Coolant Inlet		°F
eMotor A Temperature Coolant Outlet		°F
eMotor A Temperature PCB		°F
eMotor A Temperature Rotor		°F
eMotor A OS Runtime Seconds		sec
eMotor B OS Runtime		
eMotor B Temperature Stator		°F
eMotor B Temperature Inverter Model		°F
eMotor B Temperature Inverter 0		°F
eMotor B Temperature Inverter 1		°F
eMotor B Temperature Inverter 2		°F
eMotor B Temperature coolant Inlet		°F
eMotor B Temperature coolant outlet		°F
eMotor B Temperature PCB		°F
eMotor B Temperature Rotor		°F
eMotor A Lifetime Over Current w/o Over Voltage Events	0	
eMotor A Lifetime Over Current Events	0	
eMotor A Lifetime Over Voltage Events	0	
eMotor A Lifetime Max Voltage		
eMotor A Lifetime Max Phase Current		
eMotor A Lifetime General Retry Events	0	
eMotor A Key Cycle Max Voltage		
eMotor A Key Cycle Max phase Current		
eMotor A Key Cycle General Retry Events	0	
eMotor B Lifetime Over Current w/o Over Voltage Events	0	
eMotor B Lifetime Over Current Events	0	
eMotor B Lifetime Over Voltage Events	0	
eMotor B Lifetime Max Voltage		
eMotor B Lifetime Max Phase Current		
eMotor B Lifetime General retry Events		
eMotor B key Cycle max Voltage		
eMotor B key Cycle max Phase Current		

[REDACTED] of [REDACTED]

eMotor B key Cycle General Retry Events

[REDACTED]

eMotor A MTMR Fault Word

[REDACTED]

eMotor B MTMR Fault Word

[REDACTED]

GPS Date - Year

0

Year

GPS Date - Month

[REDACTED]

GPS Date - Day

[REDACTED]

GPS Time - Hours

[REDACTED]

UTC Time - Minutes

[REDACTED]

[REDACTED] Time

[REDACTED]

ECU Time -

[REDACTED]

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]

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WI
TECH 2.0

VEHICLE SCAN REPORT

Vehicle [REDACTED] DI TURBO [REDACTED] ENGINE
VIN [REDACTED]

Odometer [REDACTED]
Publication Date [REDACTED]

ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	CURRENT VIN	ORIGINAL VIN	PART #
TCM	Transmission Control Module	CAN-C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
PCM	Powertrain Control Module	CAN-C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ICS	Integrated Center Stack	CAN-I	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
RFH	Radio Frequency Hub	CAN-C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ESM	Electronic Shifter	CAN-C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
DTCM	Drive Train Control Module	CAN-C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ORC	Occupant Restraint	CAN-C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
EPS	Electric Power Steering	CAN-C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
HVAC	Heat, Ventilation and A/C	CAN-I	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
AMP	Amplifier	CAN-I	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IPC	Instrument Panel Cluster	CAN-C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
SCCM	Steering Column Control Module	CAN-C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
BCM	Body Controller	CAN-C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
RADIO	Radio	CAN-I	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
OCM	Occupant Classification	CAN-C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
BPCM	Battery Pack Control Module	CAN-C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	Hybrid Control Processor	CAN-C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	Auxiliary Hybrid Control Processor	CAN-C	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ABSO	Anti Lock Brakes OBD	CAN-	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

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SGW	Security Gateway Module	CAN-C				
DPDM	Driver Presence Detection Module	CAN-C				
	Integrated Dual Charge Module	CAN-C				

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	SERIAL NUMBER	CVNS
TCM	/					
PCM						
ICS						
RFH	/					
ESM		0C	2A			
DTCM			0A			
ORC		0B				
EPS			DC			
HVAC						
AMP						
IPC			0F		G	
SCCM						
BCM						
RADIO		0E			T	
OCM						
BPCM	Rest of world / ROW					
AHCP		0C 04				
ABSO		16				
DPDM						

DTC SUMMARY

ECU	DTC CODE	DTC DESCRIPTION	STATUS
TCM			Stored
TCM			Stored
PCM			Active
DTCM			Active
BPCM			Stored
			Active
			Active
			Stored

TCM | [REDACTED] | Stored | Park-By-Wire - Unintended Out of Park Position-

TCM | [REDACTED] | Stored | Implausible Data Received From Hybrid Control Module "A"

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Ignition Cycle Counter

0

PCM | | Active | Implausible Data Received From Hybrid Control Module

NAME	VALUE	UNITS
Number of		
DTC Readiness Flag		
DTC Storage State		
Warning Indicator Request State		
Odometer		
Accumulation Counter		
Ignition Key Cycles	0	
Starts Since Set Counter	0	
Key Cycles Since DTC Last Set Counter	0	
Warm Up Cycles	0	
Good Trip Counter	0	

DTCM | | Active | Implausible Data Received From Hybrid Control Module "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		
DTC Extended Data Record Number - All		
Occurrence flag		
Original Odometer Value		
Most Recent Odometer Value		
Frequency Counter		
Ignition Cycle Counter	0	
System Battery Voltage		
Module Battery Voltage		
Transercase motor position sensor supply voltage		
Transercase Motor Current		
Transercase Position Sensor		
DTCM Temperature		°F
Transercase Motor Duty Cycle		
Transercase Motor Direction State		

SessionID

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Front Axle Locker Sensor Feedback	
Rear Axle Locker Sensor Feedback	
Front Axle Locker Low side Driver	
Rear Axle Locker Low side Driver	
FAD Supply Power Voltage	
FAD Feedback Status	
FAD Feedback Voltage	
FAD Lock request	
Transfer Case Mode Switch	
Time Since Last Ignition On	
Vehicle Speed	
Left Front Wheel Speed	
Right Front Wheel Speed	
Left Rear Wheel Speed	
Right Rear Wheel Speed	
Brake Pedal	
ESP Requested Center (Transfercase) Differential State	
ESP Requested Center Differential Torque	
Steering Wheel Angle	
Delta Steering Wheel Angle	
Ambient Air Temperature	°F
PRNDL Display	
Transmission Current Gear	
Throttle Pedal Position	
Static Engine/Electric Motor Torque	
Engine RPM	rpm
Actual Mode of Transfercase Clutch	
Actual Transfercase Clutch Lock Torque	
Desired Transfercase Clutch Lock Torque	
T-Case Motor Incremental Position Sensor (IPS)	
T-Case Clutch Wear IPS Position	
DTCM Internal Reason	
Transfer Case Shift Inhibited	
Transfercase Status	
Axle Locker Status (Bus)	
Clutch Calibration Not Learned reason	
Electric Motor RPM	rpm
T-Case Clutch Wear Position (Initial)	degrees

BPCM | | Stored | Hybrid Battery Precharge Contactor Circuit-

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

0

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

System () at time of fault

Battery Lifetime s of Charge

Battery Lifetime s of DisCharge

HVIL Status -Vehicle

Cycles left to self heal

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 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

SessionID

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DTC Extended Data Record Number - All

DTC Extended Data Record Number -

HV Battery Charge Power

HV Battery Discharge Power

Key Position

BAC

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

HVIL PWM Frequency Sink - Battery

HVIL Returned current - Vehicle

HVIL Returned current - Battery

Battery Cell Highest Cell number

Battery Cell Lowest Cell number

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

HV Cooling Battery coolant outlet temp

BPCM temperature max

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)

GPS_Date - Year	Year
GPS_Date - [REDACTED]	[REDACTED]
UTC_Time - [REDACTED]	[REDACTED]
UTC_Time - [REDACTED]	[REDACTED]
HCP - System Shutdown Command (CAN)	[REDACTED]
HCP - ePT LOC Diagnostics Enable (CAN)	[REDACTED]
HCP - Propulsion system Active (CAN)	[REDACTED]
Qualified Contactor Command - QCC	[REDACTED]
Verified Contactor Command - VCC	[REDACTED]
HVIL PWM Duty Cycle sink - Vehicle	[REDACTED] %
Sensor - Pack Voltage (U BAT P - U BAT M)	[REDACTED]
Sensor - DC Link Voltage (U DC [REDACTED])	[REDACTED]
Sensor - main fuse Voltage (U MAIN P - U MAIN M) - U DC [REDACTED]	[REDACTED]
OBCM Fuse Voltage (U MAIN P - U AUX FUSE)	[REDACTED]
APM Fuse Voltage (U MAIN P - U AUX REL)	[REDACTED]
Sensor - Battery Voltage - Positive contactor (U BAT P)	[REDACTED]
Sensor - Battery Voltage - Negative contactor (U BAT M)	[REDACTED]
Sensor - Weld Contactor Voltage - Positive contactor (U MAIN P)	[REDACTED]
Sensor - Weld Contactor Voltage - Negative contactor (U MAIN M)	[REDACTED]
Sensor - U AUX FUSE	[REDACTED]
Battery Total Amp Hour Capacity (CAN)	[REDACTED]
Battery - Pack Isolation state (CAN)	[REDACTED]
Battery - Powertrain Isolation state (CAN)	[REDACTED]
Sensor - Pack Voltage VALIDITY (CAN)	[REDACTED]
Battery Current HVBatCrnt VALIDITY (CAN)	[REDACTED]
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]
BPCM - Precharge Penalty Timer (CAN)	[REDACTED]
BPCM - RTC Circuit Status	[REDACTED]

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 GND

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 -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 - $V_{hvuv} < V_{hvuv}$

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

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 (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 - 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 - [REDACTED] Internal Operation Mode	[REDACTED]

HCP | [REDACTED] Active | Drive Motor B Position Sensor 1 Circuit-

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]	
Warning Indicator Requested	[REDACTED]	
DTC Extended Data Record Number	[REDACTED]	
Occurrence flag	[REDACTED]	
Original Odometer Value	[REDACTED]	
Most Recent Odometer Value	[REDACTED]	
Frequency Counter	[REDACTED]	
Ignition Cycle Counter	0	
Microcontroller reset reason - Core 0	[REDACTED]	
Microcontroller reset reason - [REDACTED]	[REDACTED]	
Real time clock	[REDACTED]	
RAM stamps keyOn	[REDACTED]	
RAM Stamps	[REDACTED]	
Accelerator Pedal Position	0	%
Engine Coolant Temperature	[REDACTED]	°F
Engine Speed	[REDACTED]	
Vehicle Speed	[REDACTED]	
[REDACTED] Battery SOC	[REDACTED]	
Brake Switch Status	[REDACTED]	
Battery Feed Voltage 1	[REDACTED]	
Battery Feed Voltage 2	[REDACTED]	
Battery Feed Voltage 3	[REDACTED]	
Internal EPS Voltage Sense A	[REDACTED]	

Internal EPS Voltage Sense B

Hybrid System State

Outside Air Temperature

°F

Ignition State

Propulsion System Active

HV Contactor Status

MM Status

Impact Event

PRND Position Display

Distance Traveled with Light ON

HV Battery Sleep Time

eMotor A Shutdown History [0]

eMotor A Shutdown History [1]

eMotor A Shutdown History [2]

eMotor A Fault History [0]

eMotor A Fault History [1]

eMotor A Fault History [2]

eMotor A Fault History [3]

eMotor A Fault History [4]

eMotor A Fault History [5]

eMotor B Shutdown History [0]

eMotor B Shutdown History [1]

eMotor B Shutdown History [2]

eMotor B Fault History [0]

eMotor B Fault History [1]

eMotor B Fault History [2]

eMotor B Fault History [3]

eMotor B Fault History [4]

eMotor B Fault History [5]

eMotor A FA Speed or Position Fault Active

eMotor A FA Motor Temperature Fault Active

eMotor A FA inverter Temperature A Fault Active

eMotor A FA inverter Temperature B Fault Active

eMotor A FA inverter Temperature C Fault Active

eMotor A FA DC Current Fault Active

eMotor A FA DC Voltage Fault Active

eMotor A FA Acceleration Fault Active

eMotor A FA Rotor Temperature Fault Active

eMotor A FA Capacitor Temperature Fault active

eMotor A FA Current Sensor A Fault Active

eMotor A FA Current Sensor B Fault Active

eMotor A FA Current Sensor C Fault Active

eMotor B Current Id Max

rad/s

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eMotor B Current Id Min		
eMotor B Current Iq Max		
eMotor B Current Iq Min		
eMotor B current Sum Max		
eMotor B current sum Min		
eMotor B HV Input Voltage Max		
eMotor B HV Input Voltage Min		
eMotor B speed Max mrads		
eMotor B speed Min mrads		
eMotor A Current Ia Offset		
eMotor A Current Ib Offset		
eMotor A Current Ic Offset		
eMotor B Current Ia Offset		
eMotor B Current Ib Offset		
eMotor B Current Ic Offset		
eMotor A HV Battery Voltages		
eMotor A HV input Voltages		
eMotor B HV Battery Voltages		
eMotor B HV input Voltages		
eMotor A Motoring Torque Limit		
eMotor A Regenerative Torque Limit		
eMotor B Motoring Torque Limit		
eMotor B Regenerative Torque Limit		
eMotor A Torque command		
eMotor A Torque achieved		
eMotor A speed RPM		
eMotor B Torque command		
eMotor B Torque achieved		
eMotor B Speed RPM		
eMotor A Temperature Stator		°F
eMotor A Temperature Inverter Model		°F
eMotor A Temperature Inverter 0		°F
eMotor A Temperature Inverter 1		°F
eMotor A Temperature Inverter 2		°F
eMotor A Temperature Coolant Inlet		°F
eMotor A Temperature Coolant Outlet		°F
eMotor A Temperature PCB		°F
eMotor A Temperature Rotor		°F
eMotor A OS Runtime		
eMotor B OS Runtime		
eMotor B Temperature Stator		°F
eMotor B Temperature Inverter Model		°F

eMotor B Temperature Inverter 0	[REDACTED]	°F
eMotor B Temperature Inverter 1	[REDACTED]	°F
eMotor B Temperature Inverter 2	[REDACTED]	°F
eMotor B Temperature coolant Inlet	[REDACTED]	°F
eMotor B Temperature coolant outlet	[REDACTED]	°F
eMotor B Temperature PCB	[REDACTED]	°F
eMotor B Temperature Rotor	[REDACTED]	°F
eMotor A Lifetime Over Current w/o Over Voltage Events	0	
eMotor A Lifetime Over Current Events	0	
eMotor A Lifetime Over Voltage Events	0	
eMotor A Lifetime Max Voltage	[REDACTED]	
eMotor A Lifetime Max Phase Current	[REDACTED]	
eMotor A Lifetime General Retry Events	0	
eMotor A Key Cycle Max Voltage	[REDACTED]	
eMotor A Key Cycle Max phase Current	[REDACTED]	
eMotor A Key Cycle General Retry Events	0	
eMotor B Lifetime Over Current w/o Over Voltage Events	0	
eMotor B Lifetime Over Current Events	0	
eMotor B Lifetime Over Voltage Events	0	
eMotor B Lifetime Max Voltage	[REDACTED]	
eMotor B Lifetime Max Phase Current	[REDACTED]	
eMotor B Lifetime General retry Events	[REDACTED]	
eMotor B key Cycle max Voltage	[REDACTED]	
eMotor B key Cycle max Phase Current	[REDACTED]	
eMotor B key Cycle General Retry Events	0	
eMotor A MTMR Fault Word	00 00 00	
eMotor B MTMR Fault Word	00 00 00	
GPS Date - Year	[REDACTED]	Year
GPS Date - Month	[REDACTED]	
GPS Date - Day	[REDACTED]	
UTC Time - Hours	[REDACTED]	
UTC Time - Minutes	[REDACTED]	
UTC Time -	[REDACTED]	
ECU Time -	[REDACTED]	

HCP | [REDACTED] | Active | Drive Motor B Inverter Performance-

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

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

0

Microcontroller reset reason - Core 0

Microcontroller reset reason -

Real time clock

RAM stamps keyOn

RAM Stamps

Accelerator Pedal Position

0

%

Engine Coolant Temperature

°F

Engine Speed

Vehicle Speed

Battery SOC

Brake Switch Status

Battery Feed Voltage 1

Battery Feed Voltage 2

Battery Feed Voltage 3

Internal EPS Voltage Sense A

Internal EPS Voltage Sense B

Hybrid System State

Outside Air Temperature

°F

Ignition State

Propulsion System Active

HV Contactor Status

APM Status

Impact Event

PRND Position Display

Distance Travelled with Light ON

HV Battery Sleep Time

eMotor A Shutdown History [0]

eMotor A Shutdown History [1]

eMotor A Shutdown History [2]

eMotor A Fault History [0]

eMotor A Fault History [1]

eMotor A Fault History [2]

eMotor A Fault History [3]
 eMotor A Fault History [4]
 eMotor A Fault History [5]
 eMotor B Shutdown History [0]
 eMotor B Shutdown History [1]
 eMotor B Shutdown History [2]
 eMotor B Fault History [0]
 eMotor B Fault History [1]
 eMotor B Fault History [2]
 eMotor B Fault History [3]
 eMotor B Fault History [4]
 eMotor B Fault History [5]
 eMotor A FA Speed or Position Fault Active
 eMotor A FA Motor Temperature Fault Active
 eMotor A FA inverter Temperature A Fault Active
 eMotor A FA inverter Temperature B Fault Active
 eMotor A FA inverter Temperature C Fault Active
 eMotor A FA DC Current Fault Active
 eMotor A FA DC Voltage Fault Active
 eMotor A FA Acceleration Fault Active
 eMotor A FA Rotor Temperature Fault Active
 eMotor A FA Capacitor Temperature Fault active
 eMotor A FA Current Sensor A Fault Active
 eMotor A FA Current Sensor B Fault Active
 eMotor A FA Current Sensor C Fault Active
 eMotor A FA Postion Sensor Fault Active
 eMotor A FA DC Voltage Out of Range Fault Active
 eMotor A FA Reserved
 eMotor B FA Speed or Position Fault Active
 eMotor B FA Motor Temperature Fault Active
 eMotor B FA Inverter Temperature A Fault Active
 eMotor B FA Inverter Temperature B Fault Active
 eMotor B FA Inverter Temperature C Fault Active
 eMotor B FA HV input Current Fault Active
 eMotor B FA HV Input Voltage Fault Active
 eMotor B FA Acceleration Fault Active
 eMotor B FA Rotor Temperature Fault Active
 eMotor B FA Capacitor Temperature Fault Active
 eMotor B FA Current Sensor A Fault Active
 eMotor B FA Current Sensor B Fault Active
 eMotor B FA Current Sensor C Fault Active
 eMotor B FA Position Sensor Fault Active

eMotor B FA DC Voltage Out of Range Fault Active

eMotor B FA Reserved

eMotor A Current Ia Max

eMotor A Current Ia Min

eMotor A Current Ib Max

eMotor A Current Ib Min

eMotor A Current Ic Max

eMotor A Current Ic Min

eMotor A Current Id Max

eMotor A Current Id Min

eMotor A Current Iq Max

eMotor A Current Iq Min

eMotor A Current Sum Max

eMotor A Current Sum Min

eMotor A HV Input voltage Max

eMotor A HV Input voltage Min

eMotor A speed max mrad/s

eMotor A speed min mrad/s

eMotor B Current Ia Max

eMotor B Current Ia Min

eMotor B Current Ib Max

eMotor B Current Ib Min

eMotor B Current Ic Max

eMotor B Current Ic Min

eMotor B Current Id Max

eMotor B Current Id Min

eMotor B Current Iq Max

eMotor B Current Iq Min

eMotor B current Sum Max

eMotor B current sum Min

eMotor B HV Input Voltage Max

eMotor B HV Input Voltage Min

eMotor B speed Max mrad/s

eMotor B speed Min mrad/s

eMotor A Current Ia Offset

eMotor A Current Ib Offset

eMotor A Current Ic Offset

eMotor B Current Ia Offset

eMotor B Current Ib Offset

eMotor B Current Ic Offset

eMotor A HV Battery Voltages

eMotor A HV input Voltages

eMotor B HV Battery Voltages		
eMotor B HV input Voltages		
eMotor A Motoring Torque Limit		
eMotor A Regenerative Torque Limit		
eMotor B Motoring Torque Limit		
eMotor B Regenerative Torque Limit		
eMotor A Torque command		
eMotor A Torque achieved		
eMotor A Speed RPM		
eMotor B Torque command		
eMotor B Torque achieved		
eMotor B Speed RPM		
eMotor A Temperature Stator		°F
eMotor A Temperature Inverter Model		°F
eMotor A Temperature Inverter 0		°F
eMotor A Temperature Inverter 1		°F
eMotor A Temperature Inverter 2		°F
eMotor A Temperature Coolant Inlet		°F
eMotor A Temperature Coolant Outlet		°F
eMotor A Temperature PCB		°F
eMotor A Temperature Rotor		°F
eMotor A OS Runtime Seconds		
eMotor B OS Runtime Seconds		sec
eMotor B Temperature Stator		°F
eMotor B Temperature Inverter Model		°F
eMotor B Temperature Inverter 0		°F
eMotor B Temperature Inverter 1		°F
eMotor B Temperature Inverter 2		°F
eMotor B Temperature coolant Inlet		°F
eMotor B Temperature coolant outlet		°F
eMotor B Temperature PCB		°F
eMotor B Temperature Rotor		°F
eMotor A Lifetime Over Current w/o Over Voltage Events	0	
eMotor A Lifetime Over Current Events	0	
eMotor A Lifetime Over Voltage Events	0	
eMotor A Lifetime Max Voltage		
eMotor A Lifetime Max Phase Current		
eMotor A Lifetime General Retry Events	0	
eMotor A Key Cycle Max Voltage		
eMotor A Key Cycle Max phase Current		
eMotor A Key Cycle General Retry Events	0	
eMotor B Lifetime Over Current w/o Over Voltage Events	0	

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eMotor B Lifetime Over Current Events	0	
eMotor B Lifetime Over Voltage Events	0	
eMotor B Lifetime Max Voltage		
eMotor B Lifetime Max Phase Current		A
eMotor B Lifetime General retry Events	0	
eMotor B key Cycle max Voltage		
eMotor B key Cycle max Phase Current		A
eMotor B key Cycle General Retry Events	0	
eMotor A MTMR Fault Word	00 00 00	
eMotor B MTMR Fault Word	00 00 00	
GPS Date - Year		Year
GPS Date - Month		
GPS Date - Day		
UTC Time - Hours		
UTC Time - Minutes		
Time -		
ECU Time -		

HCP | | Stored | Drive Motor B Inverter Phase U Current Sensor Circuit Range/Performance-

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		
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 -		
Real time clock		
RAM stamps keyOn		
RAM Stamps		
Accelerator Pedal Position	0	%
Engine Coolant Temperature		°F

Engine Speed	[REDACTED]
Vehicle Speed	[REDACTED]
HV Battery SOC	[REDACTED]
Brake Switch Status	[REDACTED]
Battery Feed Voltage 1	[REDACTED]
Battery Feed Voltage 2	[REDACTED]
Battery Feed Voltage 3	[REDACTED]
Internal EPS Voltage Sense A	[REDACTED]
Internal EPS Voltage Sense B	[REDACTED]
Hybrid System State	[REDACTED]
Outside Air Temperature	[REDACTED] °F
Ignition State	[REDACTED]
Propulsion System Active	[REDACTED]
HV Contactor Status	[REDACTED]
APM Status	[REDACTED]
Impact Event	[REDACTED]
PRND Position Display	[REDACTED]
Distance Travelled with Light ON	0 miles
HV Battery Sleep Time	[REDACTED]
eMotor A Shutdown History [0]	[REDACTED]
eMotor A Shutdown History [1]	
eMotor A Shutdown History [2]	
eMotor A Fault History [0]	
eMotor A Fault History [1]	
eMotor A Fault History [2]	
eMotor A Fault History [3]	
eMotor A Fault History [4]	
eMotor A Fault History [5]	
eMotor B Shutdown History [0]	
eMotor B Shutdown History [1]	
eMotor B Shutdown History [2]	
eMotor B Fault History [0]	
eMotor B Fault History [1]	
eMotor B Fault History [2]	
eMotor B Fault History [3]	
eMotor B Fault History [4]	
eMotor B Fault History [5]	
eMotor A FA Speed or Position Fault Active	
eMotor A FA Motor Temperature Fault Active	
eMotor A FA inverter Temperature A Fault Active	
eMotor A FA inverter Temperature B Fault Active	
eMotor A FA inverter Temperature C Fault Active	

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

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INFORMATION REDACTED PURSUANT TO THE FREED

eMotor A FA DC Current Fault Active
eMotor A FA DC Voltage Fault Active
eMotor A FA Acceleration Fault Active
eMotor A FA Rotor Temperature Fault Active
eMotor A FA Capacitor Temperature Fault active
eMotor A FA Current Sensor A Fault Active
eMotor A FA Current Sensor B Fault Active
eMotor A FA Current Sensor C Fault Active
eMotor A FA Position Sensor Fault Active
eMotor A FA DC Voltage Out of Range Fault Active
eMotor A FA Reserved
eMotor B FA Speed or Position Fault Active
eMotor B FA Motor Temperature Fault Active
eMotor B FA Inverter Temperature A Fault Active
eMotor B FA Inverter Temperature B Fault Active
eMotor B FA Inverter Temperature C Fault Active
eMotor B FA HV input Current Fault Active
eMotor B FA HV Input Voltage Fault Active
eMotor B FA Acceleration Fault Active
eMotor B FA Rotor Temperature Fault Active
eMotor B FA Capacitor Temperature Fault Active
eMotor B FA Current Sensor A Fault Active
eMotor B FA Current Sensor B Fault Active
eMotor B FA Current Sensor C Fault Active
eMotor B FA Position Sensor Fault Active
eMotor B FA DC Voltage Out of Range Fault Active
eMotor B FA Reserved
eMotor A Current Ia Max
eMotor A Current Ia Min
eMotor A Current Ib Max
eMotor A Current Ib Min
eMotor A Current Ic Max
eMotor A Current Ic Min
eMotor A Current Id Max
eMotor A Current Id Min
eMotor A Current Iq Max
eMotor A Current Iq Min
eMotor A Current Sum Max
eMotor A Current Sum Min
eMotor A HV Input voltage Max
eMotor A HV Input voltage Min
eMotor A speed max mrad/s

[REDACTED]

[REDACTED]

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eMotor A speed min mrad/s		rad/s
eMotor B Current Ia Max		
eMotor B Current Ia Min		
eMotor B Current Ib Max		
eMotor B Current Ib Min		
eMotor B Current Ic Max		
eMotor B Current Ic Min		
eMotor B Current Id Max		
eMotor B Current Id Min		
eMotor B Current Iq Max		
eMotor B Current Iq Min		
eMotor B current Sum Max		
eMotor B current sum Min		
eMotor B HV Input Voltage Max		
eMotor B HV Input Voltage Min		
eMotor B speed Max mrad/s		rad/s
eMotor B speed Min mrad/s		
eMotor A Current Ia Offset		
eMotor A Current Ib Offset		
eMotor A Current Ic Offset		
eMotor B Current Ia Offset		
eMotor B Current Ib Offset		
eMotor B Current Ic Offset		
eMotor A HV Battery Voltages		
eMotor A HV input Voltages		
eMotor B HV Battery Voltages		
eMotor B HV input Voltages		
eMotor A Motoring Torque Limit		
eMotor A Regenerative Torque Limit		
eMotor B Motoring Torque Limit		
eMotor B Regenerative Torque Limit		
eMotor A Torque command		
eMotor A Torque achieved		
eMotor A speed RPM		
eMotor B Torque command		
eMotor B Torque achieved		
eMotor B Speed RPM		
eMotor A Temperature Stator		°F
eMotor A Temperature Inverter Model		°F
eMotor A Temperature Inverter 0		°F
eMotor A Temperature Inverter 1		°F
eMotor A Temperature Inverter 2		°F

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

eMotor A Temperature Coolant Inlet		°F
eMotor A Temperature Coolant Outlet		°F
eMotor A Temperature PCB		°F
eMotor A Temperature Rotor		°F
eMotor A OS Runtime Seconds		sec
eMotor B OS Runtime Seconds		sec
eMotor B Temperature Stator		°F
eMotor B Temperature Inverter Model		°F
eMotor B Temperature Inverter 0		°F
eMotor B Temperature Inverter 1		°F
eMotor B Temperature Inverter 2		°F
eMotor B Temperature Coolant Inlet		°F
eMotor B Temperature coolant outlet		°F
eMotor B Temperature PCB		°F
eMotor B Temperature Rotor		°F

eMotor A Lifetime Over Current w/o Over Voltage Events	0	
eMotor A Lifetime Over Current Events	0	
eMotor A Lifetime Over Voltage Events	0	
eMotor A Lifetime Max Voltage		
eMotor A Lifetime Max Phase Current		
eMotor A Lifetime General Retry Events	0	
eMotor A Key Cycle Max Voltage		
eMotor A Key Cycle Max phase Current		
eMotor A Key Cycle General Retry Events	0	
eMotor B Lifetime Over Current w/o Over Voltage Events	0	
eMotor B Lifetime Over Current Events	0	
eMotor B Lifetime Over Voltage Events	0	
eMotor B Lifetime Max Voltage		
eMotor B Lifetime Max Phase Current		
eMotor B Lifetime General retry Events		
eMotor B key Cycle max Voltage		
eMotor B key Cycle max Phase Current		
eMotor B key Cycle General Retry Events		
eMotor A MTMR Fault Word	00 00 00	
eMotor B MTMR Fault Word	00 00 00	
GPS Date - Year		Year
GPS Date - Month		
GPS Date - Day		
UTC Time - Hours		
UTC Time - Minutes		
Time - Seconds		
ECU Time -		

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		
DTC Extended Data Record Number		
Occurrence flag		
Original Odometer Value		
Most Recent Odometer Value		
Frequency Counter		
Ignition Cycle Counter	0	
Microcontroller reset reason -	Power Up	
Microcontroller reset reason -	Power Up	
Real time clock		
RAM stamps keyOn		
RAM Stamps		
Accelerator Pedal Position	0	%
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 Sense A		
Internal EPS Voltage Sense B		
Hybrid System State		
Outside Air Temperature		°F
Ignition State		
Propulsion System Active		
HV Contactor Status		
APM Status		
Impact Event		
PRND Position Display		
Distance Travelled with Light ON		

HV Battery Sleep Time

eMotor A Shutdown History [0]

eMotor A Shutdown History [1]

eMotor A Shutdown History [2]

eMotor A Fault History [0]

eMotor A Fault History [1]

eMotor A Fault History [2]

eMotor A Fault History [3]

eMotor A Fault History [4]

eMotor A Fault History [5]

eMotor B Shutdown History [0]

eMotor B Shutdown History [1]

eMotor B Shutdown History [2]

eMotor B Fault History [0]

eMotor B Fault History [1]

eMotor B Fault History [2]

eMotor B Fault History [3]

eMotor B Fault History [4]

eMotor B Fault History [5]

eMotor A FA Speed or Position Fault Active

eMotor A FA Motor Temperature Fault Active

eMotor A FA inverter Temperature A Fault Active

eMotor A FA inverter Temperature B Fault Active

eMotor A FA inverter Temperature C Fault Active

eMotor A FA DC Current Fault Active

eMotor A FA DC Voltage Fault Active

eMotor A FA Acceleration Fault Active

eMotor A FA Rotor Temperature Fault Active

eMotor A FA Capacitor Temperature Fault active

eMotor A FA Current Sensor A Fault Active

eMotor A FA Current Sensor B Fault Active

eMotor A FA Current Sensor C Fault Active

eMotor A FA Postion Sensor Fault Active

eMotor A FA DC Voltage Out of Range Fault Active

eMotor A FA Reserved

eMotor B FA Speed or Position Fault Active

eMotor B FA Motor Temperature Fault Active

eMotor B FA Inverter Temperature A Fault Active

eMotor B FA Inverter Temperature B Fault Active

eMotor B FA Inverter Temperature C Fault Active

eMotor B FA HV input Current Fault Active

eMotor B FA HV Input Voltage Fault Active

eMotor B FA Acceleration Fault Active
eMotor B FA Rotor Temperature Fault Active
eMotor B FA Capacitor Temperature Fault Active
eMotor B FA Current Sensor A Fault Active
eMotor B FA Current Sensor B Fault Active
eMotor B FA Current Sensor C Fault Active
eMotor B FA Position Sensor Fault Active
eMotor B FA DC Voltage Out of Range Fault Active
eMotor B FA Reserved



eMotor A Current Ia Max

eMotor A Current Ia Min

eMotor A Current Ib Max

eMotor A Current Ib Min

eMotor A Current Ic Max

eMotor A Current Ic Min

eMotor A Current Id Max

eMotor A Current Id Min

eMotor A Current Iq Max

eMotor A Current Iq Min

eMotor A Current Sum Max

eMotor A Current Sum Min

eMotor A HV Input voltage Max

eMotor A HV Input voltage Min

eMotor A speed max mrads

eMotor A speed min mrads

eMotor B Current Ia Max

eMotor B Current Ia Min

eMotor B Current Ib Max

eMotor B Current Ib Min

eMotor B Current Ic Max

eMotor B Current Ic Min

eMotor B Current Id Max

eMotor B Current Id Min

eMotor B Current Iq Max

eMotor B Current Iq Min

eMotor B current Sum Max

eMotor B current sum Min

eMotor B HV Input Voltage Max

eMotor B HV Input Voltage Min

eMotor B speed Max mrads

eMotor B speed Min mrads

eMotor A Current Ia Offset

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of

eMotor A Current Ib Offset		
eMotor A Current Ic Offset		
eMotor B Current Ia Offset		
eMotor B Current Ib Offset		
eMotor B Current Ic Offset		
eMotor A HV Battery Voltages		
eMotor A HV input Voltages		
eMotor B HV Battery Voltages		
eMotor B HV input Voltages		
eMotor A Motoring Torque Limit		
eMotor A Regenerative Torque Limit		
eMotor B Motoring Torque Limit		
eMotor B Regenerative Torque Limit		
eMotor A Torque command		
eMotor A Torque achieved		Ft-Lbs
eMotor A speed RPM		
eMotor B Torque command		
eMotor B Torque achieved		
eMotor B Speed RPM		
eMotor A Temperature Stator		°F
eMotor A Temperature Inverter Model		°F
eMotor A Temperature Inverter 0		°F
eMotor A Temperature Inverter 1		°F
eMotor A Temperature Inverter 2		°F
eMotor A Temperature Coolant Inlet		°F
eMotor A Temperature Coolant Outlet		°F
eMotor A Temperature PCB		°F
eMotor A Temperature Rotor		°F
eMotor A OS Runtime Seconds		sec
eMotor B OS Runtime Seconds		sec
eMotor B Temperature Stator		°F
eMotor B Temperature Inverter Model		°F
eMotor B Temperature Inverter 0		°F
eMotor B Temperature Inverter 1		°F
eMotor B Temperature Inverter 2		°F
eMotor B Temperature coolant Inlet		°F
eMotor B Temperature coolant outlet		°F
eMotor B Temperature PCB		°F
eMotor B Temperature Rotor		°F
eMotor A Lifetime Over Current w/o Over Voltage Events	0	
eMotor A Lifetime Over Current Events	0	
eMotor A Lifetime Over Voltage Events	0	

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of

eMotor A Lifetime Max Voltage	[REDACTED]
eMotor A Lifetime Max Phase Current	[REDACTED]
eMotor A Lifetime General Retry Events	0
eMotor A Key Cycle Max Voltage	[REDACTED]
eMotor A Key Cycle Max phase Current	[REDACTED]
eMotor A Key Cycle General Retry Events	0
eMotor B Lifetime Over Current w/o Over Voltage Events	0
eMotor B Lifetime Over Current Events	0
eMotor B Lifetime Over Voltage Events	0
eMotor B Lifetime Max Voltage	[REDACTED]
eMotor B Lifetime Max Phase Current	[REDACTED]
eMotor B Lifetime General retry Events	[REDACTED]
eMotor B key Cycle max Voltage	[REDACTED]
eMotor B key Cycle max Phase Current	[REDACTED]
eMotor B key Cycle General Retry Events	[REDACTED]
eMotor A MTMR Fault Word	00 00 00
eMotor B MTMR Fault Word	00 00 00
GPS Date - Year	[REDACTED] Year
GPS Date - Month	[REDACTED]
GPS Date - Day	[REDACTED]
UTC Time - Hours	[REDACTED]
UTC Time - Minutes	[REDACTED]
Time - [REDACTED]	[REDACTED]
ECU Time - Milliseconds	[REDACTED]

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	0	

Microcontroller reset reason - [REDACTED]	[REDACTED]	
Microcontroller reset reason - [REDACTED]	[REDACTED]	
Real time clock	[REDACTED]	
RAM stamps keyOn	[REDACTED]	
RAM Stamps	[REDACTED]	
Accelerator Pedal Position	0	%
Engine Coolant Temperature	[REDACTED]	°F
Engine Speed	[REDACTED]	
Vehicle Speed	[REDACTED]	
HV Battery SOI	[REDACTED]	
Brake Switch Status	[REDACTED]	
Battery Feed Voltage 1	[REDACTED]	
Battery Feed Voltage 2	[REDACTED]	
Battery Feed Voltage 3	[REDACTED]	
Internal EPS Voltage Sense A	[REDACTED]	
Internal EPS Voltage Sense B	[REDACTED]	
Hybrid System State	[REDACTED]	
Outside Air Temperature	[REDACTED]	°F
Ignition State	[REDACTED]	
Propulsion System Active	[REDACTED]	
HV Contactor Status	[REDACTED]	
APM Status	[REDACTED]	
Impact Event	[REDACTED]	
PRND Position Display	[REDACTED]	
Distance Travelled with Light ON	0	miles
HV Battery Sleep Time	[REDACTED]	
eMotor A Shutdown History [0]	[REDACTED]	
eMotor A Shutdown History [1]	[REDACTED]	
eMotor A Shutdown History [2]	[REDACTED]	
eMotor A Fault History [0]	[REDACTED]	
eMotor A Fault History [1]	[REDACTED]	
eMotor A Fault History [2]	[REDACTED]	
eMotor A Fault History [3]	[REDACTED]	
eMotor A Fault History [4]	[REDACTED]	
eMotor A Fault History [5]	[REDACTED]	
eMotor B Shutdown History [0]	[REDACTED]	
eMotor B Shutdown History [1]	[REDACTED]	
eMotor B Shutdown History [2]	[REDACTED]	
eMotor B Fault History [0]	[REDACTED]	
eMotor B Fault History [1]	[REDACTED]	
eMotor B Fault History [2]	[REDACTED]	
eMotor B Fault History [3]	[REDACTED]	

eMotor B Fault History
eMotor B Fault History
eMotor A FA Speed or Position Fault Active
eMotor A FA Motor Temperature Fault Active
eMotor A FA inverter Temperature A Fault Active
eMotor A FA inverter Temperature B Fault Active
eMotor A FA inverter Temperature C Fault Active
eMotor A FA DC Current Fault Active
eMotor A FA DC Voltage Fault Active
eMotor A FA Acceleration Fault Active
eMotor A FA Rotor Temperature Fault Active
eMotor A FA Capacitor Temperature Fault active
eMotor A FA Current Sensor A Fault Active
eMotor A FA Current Sensor B Fault Active
eMotor A FA Current Sensor C Fault Active
eMotor A FA Position Sensor Fault Active
eMotor A FA DC Voltage Out of Range Fault Active
eMotor A FA Reserved
eMotor B FA Speed or Position Fault Active
eMotor B FA Motor Temperature Fault Active
eMotor B FA Inverter Temperature A Fault Active
eMotor B FA Inverter Temperature B Fault Active
eMotor B FA Inverter Temperature C Fault Active
eMotor B FA HV input Current Fault Active
eMotor B FA HV Input Voltage Fault Active
eMotor B FA Acceleration Fault Active
eMotor B FA Rotor Temperature Fault Active
eMotor B FA Capacitor Temperature Fault Active
eMotor B FA Current Sensor A Fault Active
eMotor B FA Current Sensor B Fault Active
eMotor B FA Current Sensor C Fault Active
eMotor B FA Position Sensor Fault Active
eMotor B FA DC Voltage Out of Range Fault Active
eMotor B FA Reserved

eMotor A Current Ia Max
eMotor A Current Ia Min
eMotor A Current Ib Max
eMotor A Current Ib Min
eMotor A Current Ic Max
eMotor A Current Ic Min
eMotor A Current Id Max
eMotor A Current Id Min

eMotor A Current Iq Max	
eMotor A Current Iq Min	
eMotor A Current Sum Max	
eMotor A Current Sum Min	
eMotor A HV Input voltage Max	
eMotor A HV Input voltage Min	
eMotor A speed max mrad/s	
eMotor A speed min mrad/s	
eMotor B Current Ia Max	
eMotor B Current Ia Min	
eMotor B Current Ib Max	
eMotor B Current Ib Min	
eMotor B Current Ic Max	
eMotor B Current Ic Min	
eMotor B Current Id Max	
eMotor B Current Id Min	
eMotor B Current Iq Max	
eMotor B Current Iq Min	
eMotor B current Sum Max	
eMotor B current sum Min	
eMotor B HV Input Voltage Max	
eMotor B HV Input Voltage Min	
eMotor B speed Max mrad/s	
eMotor B speed Min mrad/s	
eMotor A Current Ia Offset	
eMotor A Current Ib Offset	
eMotor A Current Ic Offset	
eMotor B Current Ia Offset	
eMotor B Current Ib Offset	
eMotor B Current Ic Offset	
eMotor A HV Battery Voltages	
eMotor A HV input Voltages	
eMotor B HV Battery Voltages	
eMotor B HV input Voltages	
eMotor A Motoring Torque Limit	
eMotor A Regenerative Torque Limit	
eMotor B Motoring Torque Limit	
eMotor B Regenerative Torque Limit	
eMotor A Torque command	
eMotor A Torque achieved	
eMotor A speed RPM	
eMotor B Torque command	

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

eMotor B Torque achieved		
eMotor B Speed		
eMotor A Temperature Stator		°F
eMotor A Temperature Inverter Model		°F
eMotor A Temperature Inverter 0		°F
eMotor A Temperature Inverter 1		°F
eMotor A Temperature Inverter 2		°F
eMotor A Temperature Coolant Inlet		°F
eMotor A Temperature Coolant Outlet		°F
eMotor A Temperature PCB		°F
eMotor A Temperature Rotor		°F
eMotor A OS Runtime Seconds		
eMotor B OS Runtime Seconds		
eMotor B Temperature Stator		°F
eMotor B Temperature Inverter Model		°F
eMotor B Temperature Inverter 0		°F
eMotor B Temperature Inverter 1		°F
eMotor B Temperature Inverter 2		°F
eMotor B Temperature coolant Inlet		°F
eMotor B Temperature coolant outlet		°F
eMotor B Temperature PCB		°F
eMotor B Temperature Rotor		°F
eMotor A Lifetime Over Current w/o Over Voltage Events	0	
eMotor A Lifetime Over Current Events	0	
eMotor A Lifetime Over Voltage Events	0	
eMotor A Lifetime Max Voltage		
eMotor A Lifetime Max Phase Current		
eMotor A Lifetime General Retry Events	0	
eMotor A Key Cycle Max Voltage		
eMotor A Key Cycle Max phase Current		
eMotor A Key Cycle General Retry Events	0	
eMotor B Lifetime Over Current w/o Over Voltage Events	0	
eMotor B Lifetime Over Current Events	0	
eMotor B Lifetime Over Voltage Events	0	
eMotor B Lifetime Max Voltage		
eMotor B Lifetime Max Phase Current		
eMotor B Lifetime General retry Events		
eMotor B key Cycle max Voltage		
eMotor B key Cycle max Phase Current		
eMotor B key Cycle General Retry Events		
eMotor A MTMR Fault Word	00 00 00	
eMotor B MTMR Fault Word	00 00 00	

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

GPS Date - Year [REDACTED] Year
GPS Date - Month [REDACTED]
GPS Date - Day [REDACTED]
UTC Time - Hours [REDACTED]
UTC Time - Minutes [REDACTED]

[REDACTED] Time - [REDACTED]
[REDACTED] Time - [REDACTED]

HCP | [REDACTED] | Stored | Drive Motor B Current High-

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

Outside Air Temperature

°F

Ignition State

Propulsion System Active

HV Contactor Status

APM Status

Impact Event

LAND Position Display

D

Distance Travelled with Light ON

HV Battery Sleep Time

eMotor A Shutdown History [0]

eMotor A Shutdown History [1]

eMotor A Shutdown History [2]

eMotor A Fault History [0]

eMotor A Fault History [1]

eMotor A Fault History [2]

eMotor A Fault History [3]

eMotor A Fault History [4]

eMotor A Fault History [5]

eMotor B Shutdown History [0]

eMotor B Shutdown History [1]

eMotor B Shutdown History [2]

eMotor B Fault History [0]

eMotor B Fault History [1]

eMotor B Fault History [2]

eMotor B Fault History [3]

eMotor B Fault History [4]

eMotor B Fault History [5]

eMotor A FA Speed or Position Fault Active

eMotor A FA Motor Temperature Fault Active

eMotor A FA inverter Temperature A Fault Active

eMotor A FA inverter Temperature B Fault Active

eMotor A FA inverter Temperature C Fault Active

eMotor A FA DC Current Fault Active

eMotor A FA DC Voltage Fault Active

eMotor A FA Acceleration Fault Active

eMotor A FA Rotor Temperature Fault Active

eMotor A FA Capacitor Temperature Fault active

eMotor A FA Current Sensor A Fault Active

eMotor A FA Current Sensor B Fault Active

eMotor A FA Current Sensor C Fault Active

eMotor A FA Position Sensor Fault Active

eMotor A FA DC Voltage Out of Range Fault Active

eMotor A FA Reserved
eMotor B FA Speed or Position Fault Active
eMotor B FA Motor Temperature Fault Active
eMotor B FA Inverter Temperature A Fault Active
eMotor B FA Inverter Temperature B Fault Active
eMotor B FA Inverter Temperature C Fault Active
eMotor B FA HV input Current Fault Active
eMotor B FA HV Input Voltage Fault Active
eMotor B FA Acceleration Fault Active
eMotor B FA Inverter Temperature Fault Active
eMotor B FA Capacitor Temperature Fault Active
eMotor B FA Current Sensor A Fault Active
eMotor B FA Current Sensor B Fault Active
eMotor B FA Current Sensor C Fault Active
eMotor B FA Position Sensor Fault Active
eMotor B FA DC Voltage Out of Range Fault Active

eMotor B FA Reserved

eMotor A Current Ia Max

eMotor A Current Ia Min

eMotor A Current Ib Max

eMotor A Current Ib Min

eMotor A Current Ic Max

eMotor A Current Ic Min

eMotor A Current Id Max

eMotor A Current Id Min

eMotor A Current Iq Max

eMotor A Current Iq Min

eMotor A Current Sum Max

eMotor A Current Sum Min

eMotor A HV Input voltage Max

eMotor A HV Input voltage Min

eMotor A speed max mrads

eMotor A speed min mrads

eMotor B Current Ia Max

eMotor B Current Ia Min

eMotor B Current Ib Max

eMotor B Current Ib Min

eMotor B Current Ic Max

eMotor B Current Ic Min

eMotor B Current Id Max

eMotor B Current Id Min

eMotor B Current Iq Max

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

eMotor B Current Iq Min		
eMotor B current Sum Max		
eMotor B current sum Min		
eMotor B HV Input Voltage Max		
eMotor B HV Input Voltage Min		
eMotor B speed Max mrads		
eMotor B speed Min mrads		
eMotor A Current Ia Offset		
eMotor A Current Ib Offset		
eMotor A Current Ic Offset		
eMotor B Current Ia Offset		
eMotor B Current Ib Offset		
eMotor B Current Ic Offset		
eMotor A HV Battery Voltages		
eMotor A HV input Voltages		
eMotor B HV Battery Voltages		
eMotor B HV input Voltages		
eMotor A Motoring Torque Limit		
eMotor A Regenerative Torque Limit		
eMotor B Motoring Torque Limit		
eMotor B Regenerative Torque Limit		
eMotor A Torque command		
eMotor A Torque achieved		
eMotor A speed RPM		
eMotor B Torque command		
eMotor B Torque achieved		
eMotor B Speed RPM		
eMotor A Temperature Stator		°F
eMotor A Temperature Inverter Model		°F
eMotor A Temperature Inverter 0		°F
eMotor A Temperature Inverter 1		°F
eMotor A Temperature Inverter 2		°F
eMotor A Temperature Coolant Inlet		°F
eMotor A Temperature Coolant Outlet		°F
eMotor A Temperature PCB		°F
eMotor A Temperature Rotor		°F
eMotor A OS Runtime Seconds		
eMotor B OS Runtime Seconds		sec
eMotor B Temperature Stator		°F
eMotor B Temperature Inverter Model		°F
eMotor B Temperature Inverter 0		°F
eMotor B Temperature Inverter 1		°F

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

eMotor B Temperature Inverter 2	[REDACTED]	°F
eMotor B Temperature coolant Inlet	[REDACTED]	°F
eMotor B Temperature coolant outlet	[REDACTED]	°F
eMotor B Temperature PCB	[REDACTED]	°F
eMotor B Temperature Rotor	[REDACTED]	°F
eMotor A Lifetime Over Current w/o Over Voltage Events	0	
eMotor A Lifetime Over Current Events	0	
eMotor A Lifetime Over Voltage Events	0	
eMotor A Lifetime Max Voltage	[REDACTED]	
eMotor A Lifetime Max Phase Current	[REDACTED]	
eMotor A Lifetime General Retry Events	0	
eMotor A Key Cycle Max Voltage	[REDACTED]	
eMotor A Key Cycle Max phase Current	[REDACTED]	
eMotor A Key Cycle General Retry Events	0	
eMotor B Lifetime Over Current w/o Over Voltage Events	0	
eMotor B Lifetime Over Current Events	0	
eMotor B Lifetime Over Voltage Events	0	
eMotor B Lifetime Max Voltage	[REDACTED]	
eMotor B Lifetime Max Phase Current	[REDACTED]	
eMotor B Lifetime General retry Events	0	
eMotor B key Cycle max Voltage	[REDACTED]	
eMotor B key Cycle max Phase Current	[REDACTED]	
eMotor B key Cycle General Retry Events	0	
eMotor A MTMR Fault Word	00 00 00	
eMotor B MTMR Fault Word	00 00 00	
GPS Date - Year	[REDACTED]	Year
GPS Date - Month	[REDACTED]	
GPS Date - Day	[REDACTED]	
UTC Time - Hours	[REDACTED]	
UTC Time - Minutes	[REDACTED]	
[REDACTED] Time - [REDACTED]	[REDACTED]	
ECU Time - [REDACTED]	[REDACTED]	

HCP | [REDACTED] | Active | HCP Internal - Shutdown Performance-

NAME	VALUE	UNITS
[REDACTED]	[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

Warning Indicator Requested

DTC Extended Data Record Number

Occurrence flag

Original Odometer Value

Most Recent Odometer Value

Frequency Counter

Ignition Cycle Counter

0

Microcontroller reset reason -

Microcontroller reset reason -

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 Sense

Battery Feed Voltage

Battery Feed Voltage 3 Sense

Internal EPS Voltage Sense A

Internal EPS Voltage Sense 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

Commanded Torque - Motor A

Commanded Torque - Motor B

Motor A - Inverter Current - phase A

Motor A - Inverter Current - phase B

Motor A - Inverter Current - phase C

Motor B - Inverter Current - phase A

Motor B - Inverter Current - phase B

0

Motor B - Inverter Current - phase C

0

Motor A Resolver Angle

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		
WTLOC Diag Enable		
Propulsion System Active		
HV Contactor Status		
HV Battery Voltage from BPCM		
Electric Motor A Speed		
Electric Motor B Speed		
PIM DC Link Voltage - A		
PIM DC Link Voltage - B		
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		
OBCM Operating Mode		
Prox Detected State		
HV Battery Sleep Time		
Main Processor Reset Source - Core 0		
Main Processor Reset Source - Core 1		
Static NVM CRC Status		
Cumulative NVM CRC Status		
Adaptable NVM CRC Status		
Preserved NVM CRC Status		
Expendable NVM CRC Status		
MCPUninit EEPROM CRC Status		
MCPInit EEPROM CRC Status		
BSW EEPROM CRC Status		
Non Volatile RAM CRC Status		
HCP - MCPA SPI CRC Error Count	00	
HCP - MCPA SPI ARC Error Count	00	

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

MCPB - MCPA SPI CRC Error Count	00	
MCPB - MCPA SPI ARC Error Count	00	
MemShare CRC Error Count-	00	
MemShare ARC Error Count-	00	
MemShare CRC Error Count-		
MemShare ARC Error Count-		
Main Stack Fault		
Main Analog-to-Digital Converter Fault		
External Watchdog Fault		
MainTPU_Flt		
Main Clock Fault		
MAIN ALU Fault		
MAIN Detected SPI Fault		
Main Detected Seed Received in Wrong Order		
SPT Status		
Previous SPT Status		
SPT Skipped Occurence Counter		
SPT Attempts Counter		
GPS Date - Year		Year
GPS Date - Month		
GPS Date - Day		Days
UTC Time - Hours		Hours
UTC Time - Minutes		
UTC Time -		seconds
ECU Time - Milliseconds		ms

ABS0 | | Active | Implausible Data Received From Hybrid Control Module "A" -

NAME	VALUE	UNITS
Test Failed		
Test Failed This Operation Cycle		
Pending		
Confirmed		
Test Not Completed Since Last Clear		
Test Failed Since Last Clear		
Test Not Completed This Operation Cycle		
Warning Indicator Requested		
Occurrence flag		
Controller Event		
Mirror Memory		
Undervoltage Suspected		
Original Odometer Value		

Most Recent Odometer Value

Frequency Counter

Cycle Counter

Fault Time

Current System Mode

Previous System Mode

Wheel Speed Left Front

Rotation Direction Left Front

Wheel Speed Right Front

Rotation Direction Right Front

Wheel Speed Left Rear

Rotation Direction Left Rear

Wheel Speed Right Rear

Rotation Direction Right Rear

Steering Wheel Angle

Longitudinal Acceleration

Yaw Rate

Supplier Internal Code

^2

°/s

SNAPSHOT DATA SUMMARY

No Snapshot Data available for

No Snapshot Data available for

No Snapshot Data available for

No Snapshot Data available for

No Snapshot Data available for

No Snapshot Data available for

No Snapshot Data available for

No Snapshot Data available for

No Snapshot Data available for

No Snapshot Data available for

No Snapshot Data available for

No Snapshot Data available for

No Snapshot Data available for