

ECU SUMMARY INFO

[illegible]

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	SERIAL NUMBER	CVNS
TCM	USA / USA					
PCM	USA					
ICS	USA					
RFH	USA / USA					
DTCM	USA					
ORC	USA					
EPS	USA					
HVAC	USA					
CSWM	USA					
PTCM	USA					
IPC	USA					
SCCM	USA					
BCM	USA					
RADIO	USA					
OCM	USA					
BPCM	Rest of world / ROW					
HCP	USA					
AHCP	USA					
ABSO	USA					
SGW						
DPDM	USA					
IDCM	USA					

CONFIGURATION

TCM 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		

PCM CONFIGURATION

SessionID # [REDACTED]

Turbocharger Equipped	True
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SRV Equipped	
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Secondary Air Equipped	
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Shift Indicator Lamp Equipped	
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Barometric Sensor Equipped	
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TIP Equipped	
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Battery Temp Sensor Equipped	
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Knock Sensor 1 Equipped	
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Knock Sensor 2 Equipped	
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WI4 Variable Valve Timing Equipped	
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Clutch Interlock Switch Equipped	
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ESIM Equipped	
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Linear Purge Equipped	
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Linear EGR Equipped	
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Continuous Variable Transmission Equipped	
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Direct Injection Equipped	
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Secondary Fuel Pump Equipped	
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Electronic Coolant Pump Equipped	
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O2 Sensor Bank 1 Sensor 1 Equipped	
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O2 Sensor Bank 1 Sensor 2 Equipped	
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O2 Sensor Bank 1 Sensor 3 Equipped	
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O2 Sensor Bank 2 Sensor 1 Equipped	
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O2 Sensor Bank 2 Sensor 2 Equipped	
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Variable Displacement AC Equipped	
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Fixed displacement AC Equipped	
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WI4 Intake Flow Control Valve Equipped	
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Electric Coolant Valve Equipped	
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Engine Oil Heater Cooler Equipped	
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Transmission Oil Heater Equipped	
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Electric Water Pump Equipped	
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Rear Heater Equipped	
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Starter Relay 2 Equipped	
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Inrush Current Reduction Relay Equipped	
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Active Grille Shutter Equipped	
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Electronic Vacuum Pump Equipped	
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Wide Range O2 Sensor 1/1 Equipped	
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Wide Range O2 Sensor 2/1 Equipped	
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MultiAir Equipped	
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Engine Stop Start Equipped	
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Viscosity Sensor Equipped	
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Duty Cycle Purge Valve Equipped	
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Exhaust Cam 1 Equipped	
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Intake Cam 1 Equipped	
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INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552 (B) (6)

1.8 Liter W14 engine			
2.0 Liter W14 engine			
2.4 Liter W14 engine			
3.0 Liter V6 Engine			
Tumble Generator Valve Equipped			
Hybrid Electric Vehicle Equipped			
Auxiliary Heater Electric Water Pump Equipped			
Dual Speed Fuel Pump Equipped			
Exhaust Cam 2 Equipped			
Intake Cam 2 Equipped			
1 Speed Fan Mechanical Relay System Equipped			
2 Speed Fan Mechanical Relay System Equipped			
2 Speed Fan PWM Relay System Equipped			
Linear PWM Fan Relay System Equipped			
PWM Fan Motor System Equipped			
3 Speed Fan Mechanical Relay System Equipped			
Fan Wake Up Relay System Equipped			
2 Speed Fan 3 Driver 3 Relay System Equipped			
40TE / 41TE / 41TEA			
42RLE			
45RFE / 545RFE / 65RFE			
62TE			
66RFE / 68RFE			
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			
GPEC2 Equipped			
GPEC2A Equipped			
GPEC3 Equipped			
Cummins Equipped			
GPEC4 Equipped			
VMM Equipped			
Powernet Equipped			
CUSW (29-Bit) Equipped			

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CUSW (11-Bit) Equipped		
Fiat 940 Compact Equipped		
Next Gen Bus Equipped		
Constant Heater Temperature Control Valve Equipped		
High Side Port Tumble Valve Equipped		
CMCV H-Bridge Equipped		
Engine Volute Valve Actuator Equipped		
Wastegate H-Bridge Equipped		
Active Exhaust Valve Equipped		
Active Exhaust Pressure Sensor Equipped		
Engine Idle Shutoff Equipped		
Aisin 6-Speed 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-Speed Transmission Equipped		
HPT 6-Speed 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 Solenoid 2 Equipped		
Air Shutoff Valve Bank 2 Control Solenoid 2 Equipped		
Dual Stage Oil Pump Equipped		
Auxiliary Coolant Pump Equipped		
Trans Reverse Lockout Equipped		
Port Flap Valve Equipped		
Brushless PWM Fan Equipped		
6.2 Liter V8 Engine		
Primary Lin Alternator Equipped		
Coolant On-Off Pump Equipped		
Oil Pressure Sensor Enabled		
Fiat VIN Learning Strategy Equipped		
Dual Fuel Tank Equipped		
Yaw Rate Sensor ESC Equipped		
1.0 Liter I3 Engine		
Coolant On-Off Valve Equipped		
Buffered Crank Output for ANC (Active Noise Cancellation) Equipped		

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Buffered Crank Output for PHEV Engine Pulse Calculation Equipped

Throttle Inlet Temp Sensor Equipped

Humidity, Temperature and Pressure Sensor (LIN) Equipped

Dual Fuel Pressure Sensor Equipped

Dual Fuel Tank Equipped

PPD System Equipped

Low Temp Radiator Coolant Pump Equipped

Engine Idle Shutoff Equipped

A/C Relay Powered from Engine Switched Battery

CNG Large Gas Tank Equipped

Cooled EGR Equipped

Supercharger Equipped

Hybrid MEC Shifter Equipped

Dual Alternator Gen1 Capable

Auxillary Coolant Pump Equipped

ZF 9-Speed Trans Equipped

HPT 6-Speed Trans Equipped

CUSW 4-Button Cruise Equipped

Power Steering Angle Sensor Mandatory

Throttle Inlet Temp Sensor Equipped

LIN Humidity, Temp, and Pressure Sensor Equipped

Dual Fuel Pressure Sensor Equipped

Brake Pedal Sensor Equipped

Clutch Sensor Equipped

SWAP HARDWIRED BRAKE SWITCH INPUTS

Mass Airflow System Equipped

Bi-Directional Crank Sensor Equipped

5 Button Cruise (LIN) Equipped

Operator Idle Speed Request Equipped

INTAKE O2 SENSOR EQUIPPED

Cylinder Pressure Sensor Equipped

Make Up Air Sensor Equipped

Active Exhaust Pressure Sensor Equipped

Secondary Mass Airflow Sensor Equipped

1.0 Liter I3 Engine

2.0 Liter I4 Direct Injection Engine

Variable Valve Lift Equipped

Coolant On-Off Pump Equipped

Primary Lin Alternator Equipped

Electronic Parking Brake Equipped

Active Exhaust Valve(s) Equipped

Mechanical Coolant Pump Equipped

Aux Coolant Pump Heater Equipped

Heater Temp Control Valve Equipped

High Side Port Tumble Valve Equipped

Wastegate HBridge Equipped

Remote Start Present

Engine Oil Pressure Sensor Type

ICS CONFIGURATION

NAME	VALUE	UNITS
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		
\$0214 Programmed by		
Hardware Configuration: Remote Start Antenna		
Hardware Configuration: Front Left Door Handle H/W		
Hardware Configuration: Front Right Door Handle H/W		
Hardware Configuration: Rear Left Door Handle H/W		
Hardware Configuration: Rear Right Door Handle H/W		
Hardware Configuration: Trunk Door Handle H/W		
RFHub Locked		
Fob Location #1 Successfully Programmed		
Fob Location #2 Successfully Programmed		
Fob Location #3 Successfully Programmed		
Fob Location #4 Successfully Programmed		
Fob Location #5 Successfully Programmed		
Fob Location #6 Successfully Programmed		
Fob Location #7 Successfully Programmed		
Fob Location #8 Successfully Programmed		
Back Up Vehicle Config 1		
Back Up Vehicle Config 2		

Back Up Vehicle Config 3

Back Up Vehicle Config 4

Back Up Vehicle Config 5

Back Up Vehicle Config 6

Back Up Vehicle Config 7

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 (CSM1)

Back Up Customer Settings Menu 2 (CSM2)

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

Selectable Tire Fill Alert

TPM Auto-Locate Enabled

TPMS Configuration

DTCM CONFIGURATION

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

Axle Ratio

T-Case Type

SRT Present

ORC CONFIGURATION

NAME	VALUE	UNITS
Roller Sensing		
EPPM		
Occupant Classification (OCM)		
First Row Driver Seatbelt Buckle Switch		
First Row Passenger Seatbelt Buckle Switch		
Second Row Left seat belt Switch		
Second Row Center seat belt Switch		
Second Row Right seat belt Switch		
Driver Seat Track Position Sensor		
Passenger Seat Track Position Sensor		
Passenger Occupant Detection Sensor		
Passenger Airbag Disable Switch		
Passenger Airbag Disable Indicator		
Driver Frontal Squib 1		
Driver Frontal Squib 2		
Driver Frontal Squib 3		
Passenger Frontal Squib 1		
Passenger Frontal Squib 2		
Passenger Frontal Squib 3		
Driver Knee Bolster Squib		
Passenger Knee Bolster Squib		
Driver Seatbelt Retractor Pretensioner		
Passenger Seatbelt Retractor Pretensioner		
Driver Seatbelt Load Limiter		
Passenger Seatbelt Load Limiter		
Driver Seatbelt Anchor Pretensioner		
Passenger Seatbelt Anchor Pretensioner		
Driver Seatbelt Buckle Pretensioner		
Passenger Seatbelt Buckle Pretensioner		
Left Curtain Squib 1		
Right Curtain Squib 1		
Left Side Seat Squib 1		
Right Side Seat Squib 1		
Second Row Left Seat Side Airbag		
Second Row Right Seat Side Airbag		
Driver Frontal Squib 4		
Passenger Frontal Squib 4		
Left Up-Front Acceleration Sensor		

Right Up-Front Acceleration Sensor		
Right B-Pillar Impact Acceleration Sensor		
Left B-Pillar Impact Acceleration Sensor		
Left C-Pillar Impact Acceleration Sensor		
Right C-Pillar Impact Acceleration Sensor		
Right D-Pillar Impact Acceleration Sensor		
Left D-Pillar Impact Acceleration Sensor		
Left Side Door Pressure Sensor		
Right Side Door Pressure Sensor		
Configuration Column Identifier		

HVAC CONFIGURATION

NAME	VALUE	UNITS
DualZone ATC Control (Factory)		
DualZone ATC Control		
Dual Zone MTC Control		
Single Zone MTC Control		
MTC With EBL (3Knob)		
MTC Without EBL (3Knob)		
MTC heater only (3Knob)		

AMP CONFIGURATION

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

IPC CONFIGURATION

NAME	VALUE	UNITS
Main Fuel Tank Gauge - Empty Stop Calibration		Volts
Main Fuel Tank Gauge - 1/4th Datum Calibration		Volts
Main Fuel Tank Gauge - 1/2 Datum Calibration		Volts
Main Fuel Tank Gauge - 3/4 Datum Calibration		Volts

Main Fuel Tank Gauge - Full Stop Calibration		Volts
Sub Fuel Tank Gauge - Empty Stop Calibration		Volts
Sub Fuel Tank Gauge - 1/4 Datum Calibration		Volts
Sub Fuel Tank Gauge - 1/2 Datum Calibration		Volts
Sub Fuel Tank Gauge - 3/4 Datum Calibration		Volts
Sub Fuel Tank Gauge - Full Stop Calibration		Volts

SCCM CONFIGURATION

NAME	VALUE	UNITS
Rear Wiper		
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)		
DTCM		
PCM		
EPS		
ESM		
ABS		
RFH		
IPC		
ORC		
PTS		
SCCM		
ELSD		
TCM		
TPM		

AFLS		
ITBM		
OCM		
DPDM		
SGW		
ASBS		
APC		
Number of Reprogramming Attempts - Counter #0		
Vehicle Configuration Programmed Status		
Last Programmed Status		
Last Configuration Odometer		miles
Vehicle Configuration Auto Write Counter		
Vehicle Configuration 1 - Write Counter		
Vehicle Configuration 2 - Write Counter		
Vehicle Configuration 3 - Write Counter		
Vehicle Configuration 4 - Write Counter		
Vehicle Configuration 5 - Write Counter		
Vehicle Configuration 6 - Write Counter		
Programmed ECUs: Cabin Network		
Programmed ECUs: P/T Chassis Network		
Programmed Network Configuration - Audio / Telematics Network		
Programmed ECUs: Hybrid LAN Network		
ECU Configuration 1 (CBC Configurable Inputs and Outputs)		
ECU Configuration 2 (CBC Features)		
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 8 (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)		

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Vehicle Configuration 7 - Write Counter

Vehicle Config CSM1

Vehicle Config CSM2

Model Year

Vehicle Line

Country Code

Left/Right Hand Drive

Remote Start Present

Drive Configuration

Emode Present

Auto Highbeam

Body Style

Maximum Vehicle Speed

MPH

Shifter Type

Performance Pages Present

Special Packages

PTS Configuration

Hill Descent Feature Present

Select Speed Control Feature Present

Thatcham Present

Rain Sensor Present

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

PSI

Max Load Inflation Pressure Front Tire

PSI

Light Load Inflation Pressure Rear Tire

PSI

Police Lighting Feature

Power Lift Gate Present

Power Right Sliding Door Present

Power Left Sliding Door Present

RKE System Present

Sunshade Present

T-Case Type

Wheel Base

FOBIK Safe Enable

ELV Present

Fuel Capacity

gallons

Window Express Feature Configuration

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Adjustable Pedal Feature Present (non-Memory)		
Auto Headlamp Feature Present		
Door Alert Feature Present		
Two Fuel Sending Units 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 Mitigation System present		
Forward Collision Warning present		
Base TPM system present		
Premium TPM system present		
Paddle Shift Feature Present		
Sport Mode Present		
Auto Park Present		
Passive Entry Present		
Keyless Go Present		
Transfer Case High Ratio		No Unit
Axle Ratio		
Transfer Case Low Range Reduction Ratio		
Dynamic Tire Circumference (All or Rear)		inch
Dual Rear Wheel (DRW) Vehicle Present		
Non-Regulated Tire Pressure Information System (TPIS) Present		
Steering Ratio at zero		No Unit
Steering Ratio at Positive Angle 1		No Unit
Steering Ratio at Positive Angle 2		No Unit
Steering Ratio at Positive Angle 3		No Unit
Steering Ratio at Positive Angle 4		No Unit
Steering Ratio at Positive Angle 5		No Unit
Analog Door Sensor Configuration		
Air Quality System Present		
Steering Ratio at Negative Angle 1		No Unit
Steering Ratio at Negative Angle 2		No Unit
Steering Ratio at Negative Angle 3		No Unit
Steering Ratio at Negative Angle 4		No Unit
Steering Ratio at Negative Angle 5		No Unit

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Ambient Light Dimmer Wheel Input Present Pin G9

Low Beam Output Present - Pin A3, D2

Rear Wiper Motor Park Present - Pin E29

Left Rear Door Ajar Input Present - Pin F23

Front Driver Analog Door Ajar Input Present - Pin F9

Reserved - Pin G12

Horn Switch Input Present - Pin F29

Reserved - Pin E15

Hood Ajar Switch Input Present - Pin A11

Hard Top Sense Present - Pin E14

Reserved - F21

Reserved - Pin D20

Passenger Door Ajar Signal Present - Pin G18

Reserved - Pin E47

Reserved - Pin E35

Starter Relay Lowside Coil Drive - Pin D7

Diesel Cabin Heater #2 Output Present - Pin D9

Diesel Cabin Heater #3 Output Present - Pin D10

Diesel Cabin Heater #1 Output Present - Pin D11

Right Dedicated DRL Lamp Output Present - Pin A22

Left Dedicated DRL Lamps Output Present - Pin D15

Flipper Glass #2 Output Present

Foot Well Lamps Output Present - Pin G24

Front Fog Lamps Output Present - Pin A1 & D13

Inverter Enable Relay Output Present - Pin F35

Reserved - E20

Gated Park ZFII Output Present - Pin D-24

Reserved - Pin E21

Rear Fog Lamps Output Present - Pin E39 & F5

Rear Park Lamps Output Present - Pin E4 & F32

Rear Turn Lamps Output Present - Pin E3 & F42

Run-ACC Y Relay #2 Output Present - Pin E9

Side Markers Output Present - Pin A10 & D5

Trailer Backup Lamps Output Present - Pin E23

Reserved - Pin F4

UGDO Feed Output Present - Pin G15

VTA Warning LED Output Present - Pin G22

Park Brake Input Present - Pin E11

Ambient Temperature Sensor Present - Pin D22

Tip Start Enabled

Dual Start Relay System Present

Wiper Service Position Enabled

Trailer Tow Present

Quad Headlamps Enable

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Horn Chirp Allowed		
Bi Xenon Headlamps Enable		
Hazard Lamp Configuration		
Park Lamp Loadshed Enable		
Front Fog Lamp Dropout Enable		
Combined Rear Lighting Enable		
One Touch Lane Change		
Exterior Light Loadshed Enable		
Front Wiper Park Enable		
Rear Wiper Park Enable		
Reversible Washer Pump Enable		
Single Element Tail Lamp		
DRL Configuration		
DRL Lamp Location		
DRL Dropout Enable		
Tunnel Detection		
Military Vehicle Present		
LED Reverse Lamps Present		
LED Stop Lamps Present		
LED Rear Turn Lamps Present		
LED Rear Fog Lamps Present		
LED License Lamps Present		
LED Front Turn Lamps Present		
LED Front Fog Lamps Present		
LED Dedicated DRL Present		
LED Low Beam Lamps Present		
LED High Beam Lamps Present		
LED Front Park/Marker Lamps Present		
Door Lock Switch Signal FT RT Usage (F23)		
Headlamp Wash Interval		
Headlamp Wash Shot		
Front Wiper Wipes After Wash		
Headlamp Washer Low Fluid Shut-Off Enable		
Intermittent Wiper States		
LED CHMSL Lamp Present		
Rear Camera Present		
Power Inverter Present		
Front Park Assist Present		
Front Heated Seats Present		
Front Ventilated Seats Present		
Destination		

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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

800R Travel Link Present

DAB Present

Vehicle Theft Alarm Present

Heated Steering Wheel Present

VIN Check Digit Disable

Surround Sound Features Present

Power Door Locks Present

Antenna Type

CTP Max AC Present

Hybrid Electric Powertrain Present

Disable CD Eject

DTV Front Camera Present

DTV Side Camera Present

Tow Haul Present

Hill Descent Control Present

Audio Steering Wheel Switch Configuration

Radio Display On/Off Softkey Present

Microphone Tuning Parameter

Microphone Configuration

Microphone Type

External Port Type

Splashscreen Type

ERS Available

Rear Wheel Dually

Max Gear

Virtual Speedometer Units

Speedometer Range Max Scale

IC Config Feature

PTO Present

AMB Dimmer

Heated Seat Present

Split Shaft Present

Manual Headlamp Leveling

Gear Shift Indicator

Service Interval

Temperature Celsius for UK

Type of Gallons

Tip Start Present

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AP5 Trunk Lock

Airport Scenario Trunk Set

AP1 Left Front

AP2 Right Front

AP3 Left Rear

AP4 Right Rear

Global Up

Global Down

Sun Shade

Puddle Lamp Present

Rear Door Pre Shock Drop

Passenger Window Lockout

Auto Power Folding Mirrors Present

Folding mirrors present

Heated Mirrors Present

Mirror turn signals present

Driver Memory Mirrors Present

Passenger Memory Mirror Present

Electro-chromatic driver mirror present

Electro-chromatic passenger mirror present

Tow Mirror Present

Blindspot Mirror Present

Window Motor Type

Window Hall Sensors Present

Frameless Window Present

Memory Adjustable Pedals Present

Tilt/Telescope Steering Present

Memory Seat Present

Rear Heated Seats Present

Front Vented Seats Present

Heated Steering Wheel Present

Heated Seat Material Type

Heated Wheel Material Type

Rear Vented Seats Present

Front Heated Seat Present

Brake System ECU Configuration A

Wheel 18 inch 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	True	
Passive Ped Pro Present		
Reserved		
Reserved		
Integrated EPP Present		
Box vehicle		
Dual Filament Headlamp		
Front Turn Lamp Diagnostics		
Auto Headlamp On Threshold		Volt
Auto Headlamp Off Threshold		Volt
Left Low Beam Voltage Regulation		
Left High Beam Voltage Regulation		
Right Low Beam Voltage Regulation		
Right High Beam Voltage Regulation		
Left Front Corner Voltage		
Right Front Corner Voltage		
Left Rear Corner Voltage		
Right Rear Corner Voltage		
Panic Enable		
Compass Mounting Orientation		
Washer Fluid Level Voltage Threshold		
IBS Present		
ASBMM Present		
Humidity Sensor Present		
Manual Trans Present		
DC to DC Converter Present		
ASBM Present		
Auto Relock Time		seconds
VTA 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		Degree
Backup Reverse Lamp Left Present - Pin F41		
Backup Reverse Lamp Right Present - Pin E1		
Stop/Turn Lamp or Stop Lamp Present Pin E2 & F40		
Left High Beam Present - Pin D1		
Right High Beam Present - Pin A2		

Left Front Lamp Diagnostics Present - Pin F25		
Right Front Lamp Diagnostics Present - Pin F28		
Left Rear Turn Lamp Diagnostics Present - Pin F27		
Right Rear Turn Lamp Diagnostics Present - Pin F31		
Brake Fluid Level Switch Signal Present - Pin D21		
Siren		
Ultrasonics		
Tilt		
Swing Gate Lock Present - Pin F30		
Swing Gate Unlock Present - Pin F33		
Front Fog Voltage		Volts
Rear Fog Voltage		Volts
CHMSL Lamp Output Disable		
Secondary Door Ajar Present - Pin E28		
Manual Door Locks Present		
Rain Sensor Module #2 Present		
Auto High Beam Module Location		
Average Last Longitudinal Acceleration Values		
Average Last Lateral Acceleration Values		
Excess Longitudinal Acceleration Factor		
Excess Lateral Acceleration Factor		
Brake Smoothing Duration		
Brake Smoothing Factor		
Steering Smoothing Duration		
Steering Smoothing Factor		
Steering Smoothing Threshold		
Brake Smoothing Threshold		
Maximum Longitudinal Change		
Maximum Lateral Change		
Acceleration Threshold		
Acceleration Factor		
Nose Dive Threshold		
Nose Dive Factor		
RKE Auto-Relock Feature Enable		
PE Auto-Relock Feature Enable		
VTA Hood Ajar Monitoring		
Horn Chirp Duration		
Pitch and Roll Present		
Parking Light Enable		
ASBM Battery Minimum Voltage		
Interior Lighting Night Threshold		Volt
Interior Lighting Day Threshold		Volt
Axle Locker Configuration		

Transmission Equipped

Park Brake Type

TPMS Configuration

Hybrid Type

TSBM Module Present

ADR feature Present

ABS 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

EPB service mode customer settings menu

Headlamp drop customer settings menu

Headlamp off delay customer settings menu

Headlamps on with wiper customer settings menu

Passive entry customer settings menu

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

RADIO CONFIGURATION

NAME	VALUE	UNITS
Satellite Subscription ID	[REDACTED]	
Satellite Subscription Status	[REDACTED]	
Satellite Subscription Reason Code	[REDACTED]	
Satellite Subscription Suspend Day	[REDACTED]	
Satellite Subscription Suspend Month	[REDACTED]	
Satellite Subscription Suspend Year	[REDACTED]	
911 Button	[REDACTED]	
SDARS	[REDACTED]	
Navigation Active	[REDACTED]	
Cellular	[REDACTED]	
Internal CD Player	[REDACTED]	
Wi-Fi	[REDACTED]	
Bluetooth	[REDACTED]	
Application Framework	[REDACTED]	
FM Diversity	[REDACTED]	
Clock Defeat	[REDACTED]	
Automated Loudness	[REDACTED]	
Anti-Theft Enable Status	[REDACTED]	
12/24 Time Selection	[REDACTED]	
Front Seat Video Playback	[REDACTED]	
Cabin EQ Curve Number Currently Used by Radio	[REDACTED]	
Splash Screen	[REDACTED]	
Compass on the bus messaging Authorization	[REDACTED]	
GPS on the Bus messaging Authorization	[REDACTED]	
USB Hubs Detected	[REDACTED]	No Unit
SD Card Readers Detected	[REDACTED]	No Unit
Enumerated USB Devices	[REDACTED]	No Unit
Aux Jack	[REDACTED]	
DTV Short Term Configuration	-	

ABSO CONFIGURATION

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



WI
TECH 2.0

ECU SUMMARY INFO

[illegible]

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	SERIAL NUMBER	CVNS
TCM	USA / USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
PCM	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ICS	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
RFH	USA / USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
DTCM	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ORC	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
EPS	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
HVAC	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
CSWM	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
PTCM	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
AMP	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IPC	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
SCCM	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
BCM	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
RADIO	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
OCM	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
BPCM	Rest of world / ROW	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
HCP	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
AHCP	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ABSO	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
SGW		[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
DPDM	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IDCM	USA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

DTC SUMMARY

ECU	DTC CODE	DTC DESCRIPTION	STATUS
TCM	[REDACTED]	[REDACTED]	[REDACTED]
TCM	[REDACTED]	[REDACTED]	[REDACTED]
PCM	[REDACTED]	[REDACTED]	[REDACTED]
DTCM	[REDACTED]	[REDACTED]	[REDACTED]
BPCM	[REDACTED]	[REDACTED]	[REDACTED]
BPCM	[REDACTED]	[REDACTED]	[REDACTED]

HCP			
HCP			
HCP			
HCP			
HCP			
HCP			
ABS			

ENVIRONMENTAL DATA SUMMARY

TCM

NAME	VALUE	UNITS
DTC		
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		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		

TCM

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 - All		
Occurrence flag		
Original Odometer Value		miles
Most Recent Odometer Value		miles

Frequency Counter

Ignition Cycle Counter

PCM

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

DTCM

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 - All		
Occurrence flag		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
System Battery Voltage		Volts
Module Battery Voltage		Volts
Transercase motor position sensor supply voltage		Volts
Transercase Motor Current		Amps
Transercase Position Sensor		Volts
DTCM Temperature		°F
Transercase Motor Duty Cycle		%
Transercase Motor Direction State		
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		Volts
FAD Feedback Status		
FAD Feedback Voltage		Volts
FAD Lock request		
Transfercase Mode Switch		
Time Since Last Ignition On		minutes
Vehicle Speed		MPH
Left Front Wheel Speed		rpm
Right Front Wheel Speed		rpm
Left Rear Wheel Speed		rpm
Right Rear Wheel Speed		rpm
Brake Pedal		
ESP Requested Center (Transfercase Differential State		
ESP Requested Center Differential Torque		Ft-Lbs
Steering Wheel Angle		degrees
Delta Steering Wheel Angle		degrees
Ambient Air Temperature		°F
PRNDL Display		
Transmission Current Gear		
Throttle Pedal Position		%
Static Engine/Electric Motor Torque		Ft-Lbs
Engine RPM		rpm
Actual Mode of Transfercase Clutch		
Actual Transfercase Clutch Lock Torque		Ft-Lbs
Desired Transfercase Clutch Lock Torque		Ft-Lbs
T-Case Motor Incremental Position Sensor (IPS)		degrees
T-Case Clutch Wear IPS Position		degrees
DTCM Internal DTC 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 [REDACTED]

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

Confirmed DTC	True	
Test Not Completed Since Last Clear		
Test Failed Since Last Clear		
Test Not Completed This Operation Cycle		
Warning Indicator Requested		
Occurrence flag		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
FoM - for this DTC (lifetime fails)		events
FoM - for this DTC (lifetime fails counts on pass)		seconds
FoM - for this DTC (lifetime longest fail on pass)		seconds
Battery Total Time Awake		seconds
Key in Ignition		
EPT -WakeUp		
HCP Contactor Command		
Contactor Status		
Plug in Status		
Balance Mode		
Vehicle Speed		MPH
System (12) Volts at time of fault		Volts
Battery Lifetime AmpHrs of Charge		AHr
Battery Lifetime AmpHrs of DisCharge		AHr
HVIL Status -Vehicle		
Cycles left to self heal		No Unit
HV Battery Charge Power 2sec		watts
HV Battery Charge Power 10sec		watts
HV Battery Discharge Power 2sec		watts
HV Battery Discharge Power 10sec		watts
Key - DriveRdy (CAN)		
Battery Lifetime Number Of Closes		
Battery Full AmpHr Capacity		AmpHrs
Battery Cell Voltage Maximum		mV
Battery Cell Voltage Minimum		mV
Battery Cell Voltage Average		mV
Battery Temperature Maximum Module		°F
Battery Temperature Minimum Module		°F
Battery Temperature Average Module		°F
DTC Extended Data Record Number - All		
DTC Extended Data Record Number - 2		
HV Battery Charge Power 30sec		watts
HV Battery Discharge Power 30sec		watts

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

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

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

UTC_Time - Hours		Hours
UTC_Time - Minutes		
UTC_Time - Seconds		seconds
HCP - System Shutdown Command (CAN)		
HCP - ePT LOC Diagnostics Enable (CAN)		
HCP - Propulsion system active (CAN)		
Qualified Contactor Command - QCC		
Verified Contactor Command - VCC		
HVIL PWM Duty Cycle sink - Vehicle		%
HV Sensor - Pack Voltage (U BAT P - U BAT M)		Volts
HV Sensor - DC Link Voltage (U DC LINK)		Volts
HV Sensor - main fuse Voltage (U MAIN P - U MAIN M) - U DC LINK		Volts
OBCM Fuse Voltage (U MAIN P - U AUX FUSE)		Volts
APM Fuse Voltage (U MAIN P - U AUX REL)		Volts
HV Sensor - Battery Voltage - Positive contactor (U BAT P)		Volts
HV Sensor - Battery Voltage - Negative contactor (U BAT M)		Volts
HV Sensor - Weld Contactor Voltage - Positive contactor (U MAIN P)		Volts
HV Sensor - Weld Contactor Voltage - Negative contactor (U MAIN M)		Volts
HV Sensor - U AUX FUSE		Volts
HV Battery Total Amp Hour Capacity (CAN)		AHr
HV Battery - Pack Isolation state (CAN)		
HV Battery - Powertrain Isolation state (CAN)		
HV Sensor - Pack Voltage VALIDITY (CAN)		
HV Battery Current HVBatCrnt VALIDITY (CAN)		
HV Battery Total Amp Hour Capacity VALIDITY (CAN)		
BPCM - MCU Reset Counter		
BPCM - RAM Reset Counter		
BPCM - ROM Reset Counter		
BPCM - Safety Mechanism (TSR) Reset Counter		
BPCM - Hall current sensor supply voltage (5VQT1)		Volts
BPCM - Precharge Penalty Timer (CAN)		seconds
BPCM - RTC Circuit Status		
BPCM - HVBat Sleep Time		seconds
BPCM - System Mode		No Unit
BPCM - HV Battery pack contactor request (CAN)		
BPCM - HV Battery Pack contactor Open (CAN)		
BPCM - HV Battery pack Contactor welded and impeded opening (CAN)		
BPCM - Crash Indication (CAN)		
BPCM - Crash Indication VALIDITY (CAN)		
BPCM - Retention Status		
BPCM - Active weld check type		
BPCM - Current Category of Wearout Counter		
HV Contactor State - Positive Contactor		
HV Contactor State - Negative Contactor		

HV Contactor State - Precharge Contactor

Closed

CSC Fault - Cn Pin Open

[REDACTED]

CSC Fault - Cn Short to SWn

[REDACTED]

CSC Fault - Auxiliary channel 1 Pin Open

[REDACTED]

CSC Fault - Auxiliary channel 2 Pin Open

[REDACTED]

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

[REDACTED]

CSC Fault - Balancing Switch Short

[REDACTED]

CSC Fault - Balancing Switch Open

[REDACTED]

CSC Fault - Alternate reference voltage is out of range

[REDACTED]

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

[REDACTED]

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

[REDACTED]

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

[REDACTED]

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

[REDACTED]

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

[REDACTED]

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

[REDACTED]

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

[REDACTED]

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

[REDACTED]

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

[REDACTED]

CSC Fault - Die Temperature is over the upper limit

[REDACTED]

CSC Fault - Scanning for cell information is not complete

[REDACTED]

CSC Fault - ADC Data Path error

[REDACTED]

CSC Fault - Packet Error Check

[REDACTED]

CSC Fault - Power-on reset event occurred

[REDACTED]

CSC Fault - 32kHz oscillator frequency is not within +/-5% of its expected value

[REDACTED]

CSC Fault - Same as Alrtosc1 (redundant alert)

[REDACTED]

CSC Fault - Die Temperature is over the upper limit

[REDACTED]

CSC Fault - Module number addressing is fail

[REDACTED]

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

[REDACTED]

CSC Fault - PEC Bits in Data-check byte error

[REDACTED]

CSC Fault - V_{hv} - V₁₂ is too low

[REDACTED]

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

[REDACTED]

CSC Diagnostics - Initialization Status

[REDACTED]

CSC Diagnostics - CSC #01 Status

[REDACTED]

CSC Diagnostics - CSC #02 Status

[REDACTED]

CSC Diagnostics - CSC #03 Status

[REDACTED]

CSC Diagnostics - CSC #04 Status

[REDACTED]

CSC Diagnostics - CSC #05 Status

[REDACTED]

CSC Diagnostics - CSC #06 Status

[REDACTED]

CSC Diagnostics - CSC #07 Status

[REDACTED]

CSC Diagnostics - CSC #08 Status

[REDACTED]

CSC Diagnostics - AFE Internal Operation Mode

[REDACTED]

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

NAME	VALUE	UNITS
DTC		
Test Failed		
Test Failed This Operation Cycle		
Pending DTC		
Confirmed DTC		
Test Not Completed Since Last Clear		
Test Failed Since Last Clear		
Test Not Completed This Operation Cycle		
Warning Indicator Requested		
Occurrence flag		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
FoM - for this DTC (lifetime fails)		events
FoM - for this DTC (lifetime fails counts on pass)		seconds
FoM - for this DTC (lifetime longest fail on pass)		seconds
Battery Total Time Awake		seconds
Key in Ignition		
EPT -WakeUp		
HCP Contactor Command		
Contactor Status		
Plug in Status		
Balance Mode		
Vehicle Speed		MPH
System (12) Volts at time of fault		Volts
Battery Lifetime AmpHrs of Charge		AHr
Battery Lifetime AmpHrs of DisCharge		AHr
HVIL Status -Vehicle		
Cycles left to self heal		No Unit
HV Battery Charge Power 2sec		watts
HV Battery Charge Power 10sec		watts
HV Battery Discharge Power 2sec		watts
HV Battery Discharge Power 10sec		watts
Key - DriveRdy (CAN)		
Battery Lifetime Number Of Closes		
Battery Full AmpHr Capacity		AmpHrs
Battery Cell Voltage Maximum		mV
Battery Cell Voltage Minimum		mV
Battery Cell Voltage Average		mV
Battery Temperature Maximum Module		°F
Battery Temperature Minimum Module		°F
Battery Temperature Average Module		°F

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

DTC Extended Data Record Number - All		
DTC Extended Data Record Number - 2		
HV Battery Charge Power 30sec		watts
HV Battery Discharge Power 30sec		watts
Key Position		
SOC		%
HV Bat SOH-R		%
HV Bat SOH-C		%
Cell Impedance Max Discharge		mOhms
Cell Impedance Min Discharge		mOhms
HVIL Status - Battery pack		
HVIL PWM Duty Cycle source - Vehicle		%
HVIL PWM Duty Cycle Source - Battery		%
HVIL PWM Duty Cycle Sink - Battery		%
HVIL PWM Frequency source - Vehicle		Hz
HVIL PWM Frequency Sink - Vehicle		Hz
HVIL PWM Frequency Source - Battery		Hz
HVIL PWM Frequency Sink - Battery		Hz
HVIL Returned current - Vehicle		mA
HVIL Returned current - Battery		mA
Battery Cell Highest Cell number		
Battery Cell Lowest Cell number		
HV Battery Current Sensor Primary		Amps
HV Battery Current Sensor Secondary		Amps
HV Battery Current HVBatCmt		Amps
HV Battery Voltage (cell sum)		Volts
HV Battery Voltage (Module Sum)		Volts
Battery Temperature Highest Sensor number		
Battery Temperature Lowest Sensor number		
HV Cooling Battery coolant inlet temp		°F
HV Cooling Battery coolant outlet temp		°F
BPCM temperature max		°F
BPCM temperature min		°F
Vehicle Isolation Impedance (Positive side)		Mega Ohms
Vehicle Isolation Impedance (Negative side)		Mega Ohms
Vehicle Isolation Impedance (Equivalent)		Mega Ohms
Battery Isolation Impedance (Positive side)		Mega Ohms
Battery Isolation Impedance (Negative side)		Mega Ohms
Battery Isolation Impedance (Equivalent)		Mega Ohms
Engine Speed		rpm

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

Accelerator position		%
GPS_Date - Year		Year
GPS_Date - Month		
GPS_Date - Day		Days
UTC_Time - Hours		Hours
UTC_Time - Minutes		
UTC_Time - Seconds		seconds
HCP - System Shutdown Command (CAN)		
HCP - Propulsion Diagnostics Enable (CAN)		
HCP - Propulsion system active (CAN)		
Qualified Contactor Command - QCC		
Verified Contactor Command - VCC		
HVIL PWM Duty Cycle Sink - Vehicle		%
HV Sensor- Pack Voltage (U BAT P - U BAT M)		Volts
HV Sensor - DC Link Voltage (U DC LINK)		Volts
HV Sensor - main fuse Voltage (U MAIN P - U MAIN M) - U DC LINK		Volts
OBCM Fuse Voltage (U MAIN P - U AUX FUSE)		Volts
APM Fuse Voltage (U MAIN P - U AUX REL)		Volts
HV Sensor - Battery Voltage - Positive contactor (U BAT P)		Volts
HV Sensor - Battery Voltage - Negative contactor (U BAT M)		Volts
HV Sensor - Weld Contactor Voltage - Positive contactor (U MAIN P)		Volts
HV Sensor - Weld Contactor Voltage - Negative contactor (U MAIN M)		Volts
HV Sensor - U AUX FUSE		Volts
HV Battery Total Amp Hour Capacity (CAN)		AHr
HV Battery - Pack Isolation state (CAN)		
HV Battery - Powertrain Isolation state (CAN)		
HV Sensor - Pack Voltage VALIDITY (CAN)		
HV Battery Current HVBatCmt VALIDITY (CAN)		
HV Battery Total Amp Hour Capacity VALIDITY (CAN)		
BPCM - MCU Reset Counter		
BPCM - RAM Reset Counter		
BPCM - ROM Reset Counter		
BPCM - Safety Mechanism (TSR) Reset Counter		
BPCM - Hall current sensor supply voltage (5VQT1)		Volts
BPCM - Precharge Penalty Timer (CAN)		seconds
BPCM - RTC Circuit Status		
BPCM - HVBat Sleep Time		seconds
BPCM - System Mode		No UHL
BPCM - HV Battery pack contactor request (CAN)		
BPCM - HV Battery Pack contactor Open (CAN)		
BPCM - HV Battery pack Contactor welded and impeded opening (CAN)		
BPCM - Crash Indication (CAN)		
BPCM - Crash Indication VALIDITY (CAN)		
BPCM - Retention Status		

BPCM - Active weld check type		
BPCM - Current Category of Wearout Counter		
HV Contactor State - Positive Contactor		
HV Contactor State - Negative Contactor		
HV Contactor State - Precharge Contactor		
CSC Fault - Cn Pin Open		
CSC Fault - Cn Short to SWn		
CSC Fault - Auxiliary channel 1 Pin Open		
CSC Fault - Auxiliary channel 2 Pin Open		
CSC Fault - Measured result difference between Alternative path and Primary path is out of range		
CSC Fault - Balancing Switch Short		
CSC Fault - Balancing Switch Open		
CSC Fault - Alternate reference voltage is out of range		
CSC Fault - Vaa voltage is out of range		
CSC Fault - Level-shift amplifier offset voltage is out of range		
CSC Fault - Stuck ADC output bits verification with zero-scale		
CSC Fault - Stuck ADC output bits verification with full-scale		
CSC Fault - Multiplexer Open/Short verification with single HVMUX test current source		
CSC Fault - Multiplexer Open/Short verification with both HVMUX test current sources		
CSC Fault - Measured result difference between Module voltage and Cell voltage summation		
CSC Fault - $V_{hv} < V_{hvuv}$		
CSC Fault - $V_{hv} - V_{dcin} > V_{hvov}$		
CSC Fault - Die Temperature is over the upper limit		
CSC Fault - Scanning for cell information is not complete		
CSC Fault - ADC Data Path error		
CSC Fault - Packet Error Check		
CSC Fault - Power-on reset event occurred		
CSC Fault - 32kHz oscillator frequency is not within +/-5% of its expected value		
CSC Fault - Same as Alrtosc1(redundant alert)		
CSC Fault - Die Temperature is over the upper limit		
CSC Fault - Module number addressing is fail		
CSC Fault - Alive counter is not matched to the expected value		
CSC Fault - PEC Bits in Data-check byte error		
CSC Fault - $V_{hv} - V_{12}$ is too low		
CSC Fault - Transmit data is not equal to read back data		
CSC Diagnostics - Initialization Status		
CSC Diagnostics - CSC #01 Status		
CSC Diagnostics - CSC #02 Status		
CSC Diagnostics - CSC #03 Status		
CSC Diagnostics - CSC #04 Status		
CSC Diagnostics - CSC #05 Status		
CSC Diagnostics - CSC #06 Status		
CSC Diagnostics - CSC #07 Status		

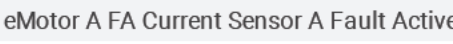
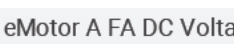
INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552 (B) (6)

CSC Diagnostics - CSC #08 Status

CSC Diagnostics - AFE Internal Operation Mode

HCP |

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		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Microcontroller reset reason - Core 0		
Microcontroller reset reason - Core 1		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Coolant Temperature		°F
Engine Speed		rpm
Vehicle Speed		MPH
HV Battery SOC		%
Brake Switch Status		
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 2 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
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		miles
HV Battery Sleep Time		Days
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 [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 C Fault Active		
eMotor A FA Postion Sensor Fault Active		
eMotor A FA DC Voltage Out of Range Fault Active		
		
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		

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

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		Volts
eMotor A HV Input voltage Min		Volts
eMotor A speed max mrads		rad/s
eMotor A speed min mrads		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		Volts
eMotor B HV Input Voltage Min		Volts
eMotor B speed Max mrads		rad/s
eMotor B speed Min mrads		rad/s
eMotor A Current Ia Offset		
eMotor A Current Ib Offset		
eMotor A Current Ic Offset		
eMotor B Current Ia Offset		

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

eMotor B Current Ib Offset		
eMotor B Current Ic Offset		
eMotor A HV Battery Voltages		Volts
eMotor A HV input Voltages		Volts
eMotor B HV Battery Voltages		Volts
eMotor B HV input Voltages		Volts
eMotor A Motoring Torque Limit		Ft-Lbs
eMotor A Regenerative Torque Limit		Ft-Lbs
eMotor B Motoring Torque Limit		Ft-Lbs
eMotor B Regenerative Torque Limit		Ft-Lbs
eMotor A Torque command		Ft-Lbs
eMotor A Torque achieved		Ft-Lbs
eMotor A speed RPM		rpm
eMotor B Torque command		Ft-Lbs
eMotor B Torque achieved		Ft-Lbs
eMotor B Speed RPM		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		
eMotor A Lifetime Over Current Events		
eMotor A Lifetime Over Voltage Events		
eMotor A Lifetime Max Voltage		Volts
eMotor A Lifetime Max Phase Current		
eMotor A Lifetime General Retry Events		
eMotor A Key Cycle Max Voltage		Volts
eMotor A Key Cycle Max phase Current		

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

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

HCP |

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		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Microcontroller reset reason - Core 0		
Microcontroller reset reason - Core 1		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Coolant Temperature		°F

Engine Speed	[REDACTED]	rpm
Vehicle Speed	[REDACTED]	MPH
HV Battery SOC	[REDACTED]	%
Brake Switch Status	[REDACTED]	
Battery Feed Voltage 1 Sense	[REDACTED]	Volts
Battery Feed Voltage 2 Sense	[REDACTED]	Volts
Battery Feed Voltage 3 Sense	[REDACTED]	Volts
Internal EPS Voltage Sense A	[REDACTED]	Volts
Internal EPS Voltage Sense B	[REDACTED]	Volts
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	[REDACTED]	miles
HV Battery Sleep Time	[REDACTED]	Days
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 [4]	[REDACTED]	
eMotor B Fault History [5]	[REDACTED]	
eMotor A FA Speed or Position Fault Active	[REDACTED]	
eMotor A FA Motor Temperature Fault Active	[REDACTED]	
eMotor A FA inverter Temperature A Fault Active	[REDACTED]	
eMotor A FA inverter Temperature B Fault Active	[REDACTED]	
eMotor A FA inverter Temperature C Fault Active	[REDACTED]	
eMotor A FA DC Current Fault Active	[REDACTED]	
eMotor A FA DC Voltage Fault Active	[REDACTED]	

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		Volts
eMotor A HV Input voltage Min		Volts
eMotor A speed max mrads		rad/s
eMotor A speed min mrads		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		Volts
eMotor B HV Input Voltage Min		Volts
eMotor B speed Max mrad/s		rad/s
eMotor B speed Min mrad/s		rad/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		Volts
eMotor A HV input Voltages		Volts
eMotor B HV Battery Voltages		Volts
eMotor B HV input Voltages		Volts
eMotor A Motoring Torque Limit		Ft-Lbs
eMotor A Regenerative Torque Limit		Ft-Lbs
eMotor B Motoring Torque Limit		Ft-Lbs
eMotor B Regenerative Torque Limit		Ft-Lbs
eMotor A Torque command		Ft-Lbs
eMotor A Torque achieved		Ft-Lbs
eMotor A speed RPM		rpm
eMotor B Torque command		Ft-Lbs
eMotor B Torque achieved		Ft-Lbs
eMotor B Speed RPM		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

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

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		
eMotor A Lifetime Over Current Events		
eMotor A Lifetime Over Voltage Events		
eMotor A Lifetime Max Voltage		Volts
eMotor A Lifetime Max Phase Current		
eMotor A Lifetime General Retry Events	0	
eMotor A Key Cycle Max Voltage		Volts
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	6	
eMotor B Lifetime Over Voltage Events	0	
eMotor B Lifetime Max Voltage		Volts
eMotor B Lifetime Max Phase Current		
eMotor B Lifetime General retry Events	0	
eMotor B key Cycle max Voltage		Volts
eMotor B key Cycle max Phase Current		
eMotor B key Cycle General Retry Events	0	
eMotor A MTMR Fault Word		
eMotor B MTMR Fault Word		
GPS Date - Year		Year
GPS Date - Month		
GPS Date - Day		Days
UTC Time - Hours		Hours
UTC Time - Minutes		
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds		ms

HCP |

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		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter	0	
Microcontroller reset reason - Core 0		
Microcontroller reset reason - Core 1		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position	0	%
Engine Coolant Temperature		°F
Engine Speed		
		MPH
HV Battery SOC		%
Brake Switch Status		
Battery Feed Voltage 1 Sense		
		Volts
Battery Feed Voltage 3 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
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	0	miles
HV Battery Sleep Time	0	Days
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 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		Volts
eMotor A HV Input Voltage Min		Volts
eMotor A speed max mrads		rad/s
eMotor A speed min mrads		
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		Volts
eMotor B HV Input Voltage Min		Volts
eMotor B speed Max mrads		rad/s
eMotor B speed Min mrads		rad/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		Volts
eMotor A HV input Voltages		Volts
eMotor B HV Battery Voltages		Volts
eMotor B HV input Voltages		Volts
eMotor A Motoring Torque Limit		Ft-Lbs
eMotor A Regenerative Torque Limit		Ft-Lbs
eMotor B Motoring Torque Limit		
		Ft-Lbs

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

eMotor A Torque command		Ft-Lbs
eMotor A Torque achieved		Ft-Lbs
eMotor A speed RPM		rpm
eMotor B Torque command		Ft-Lbs
eMotor B Torque achieved		Ft-Lbs
eMotor B Speed RPM		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		
eMotor A Lifetime Over Current Events		
eMotor A Lifetime Over Voltage Events		
eMotor A Lifetime Max Voltage		Volts
eMotor A Lifetime Max Phase Current		A
eMotor A Lifetime General Retry Events		
eMotor A Key Cycle Max Voltage		Volts
eMotor A Key Cycle Max phase Current		A
eMotor A Key Cycle General Retry Events		
eMotor B Lifetime Over Current w/o Over Voltage Events		
eMotor B Lifetime Over Current Events		
eMotor B Lifetime Over Voltage Events		
eMotor B Lifetime Max Voltage		Volts
eMotor B Lifetime Max Phase Current		
eMotor B Lifetime General retry Events		
eMotor B key Cycle max Voltage		Volts
eMotor B key Cycle max Phase Current		
eMotor B key Cycle General Retry Events		

This investigation document contains the first fifty pages. You may request the full version through NHTSA.ODI.CED@dot.gov. Requests are answered as resources allow and in the order they are received.