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WI TECH 2.0

CONFIGURATION REPORT

Vehicle 2023 JEEP WRANGLER 2.0L I4 DOHC DI TURBO PHEV ENGINE
VIN [redacted]

Odometer 1357.0 miles
Publication Date Mar 27, 2023, 2:28:10 PM

ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	[redacted]	PART #
TCM	Transmission Control Module	CAN-C	68620361AB		68620361AB
PCM	Powertrain Control Module	CAN-C	68614847AC		68614847AC
ICS	Integrated Center Stack	CAN-I	6SX94DX9AE		6SX94DX9AE
RFH	Radio Frequency Hub	CAN-C	56029925AB		56029925AB
ESM	Electronic Shifter	CAN-C	04670716AD		04670716AD
DTCM	Drive Train Control Module	CAN-C	68611937AA		68611937AA
ORC	Occupant Restraint	CAN-C	68526670AB		68526670AB
EPS	Electric Power Steering	CAN-C	68529427AD		68529427AD
HVAC	Heat, Ventilation and A/C	CAN-I	52080486AB		52080486AB
CSWM	Comfort Seat Wheel Module	CAN-I	68530204AB		68530204AB
PTCM	Power Top Control Module	CAN-I	68371772AB		68371772AB
AMP	Amplifier	CAN-I	68549084AC		68549084AC
IPC	Instrument Panel Cluster	CAN-C	68525023AD		68525023AD
PTS	Parktronics	CAN-C	68441031AC		68441031AC
SCCM	Steering Column Control Module	CAN-C	68526258AA		68526258AA
BCM	Body Controller	CAN-C	68525356AC		68525355AC
RADIO	Radio	CAN-I	68615156AB		68615156AB
OCM	Occupant Classification	CAN-C	68582577AB		68582577AB
LBSS	Left Blind Spot Sensor	CAN-I	68454896AA		68454896AA
RBSS	Right Blind Spot Sensor	CAN-I	68454896AA		68454896AA

BPCM	Battery Pack Control Module	CAN-C	05193168AJ		05193168AJ
HCP	Hybrid Control Processor	CAN-C	68614244AC		68614244AC
AHCP	Auxiliary Hybrid Control Processor	CAN-C	68614243AC		68614243AC
ABSO	Anti Lock Brakes OBD	CAN-C	68596542AA		68596542AA
SGW	Security Gateway Module	CAN-C	68532299AB		68532299AB
DPDM	Driver Presence Detection Module	CAN-C	68582578AB		68582578AB
DASM	Driver Assistance System Module	CAN-C	04672930AC		04672930AC
IDCM	Integrated Dual Charge Module	CAN-C	05185035AS		05185035AS

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	SERIAL NUMBER	CVNS
TCM	USA / USA	13 05 0E	16 1C 00	4700	T06UM269208211	4AB842E6
PCM	USA	1D 47	21 22 00	4928	T00EP3272L8WPD	0443072B
ICS	USA	10 1E 00	14 33 00	4802	T339210251	
RFH	USA / USA	10 17 00	15 1D 00	4604	T04Z23422R0198	
ESM	USA	15 18 00	12 2A 00	4322	T5N334221549	
DTCM	USA	11 22 00	16 1F 01	4501	TH2YC32722LSRS	
ORC	USA	14 0B 00	14 12 01	4501	T02JF2862G324D	
EPS	USA	10 13 00	16 0B DC	4005	TFD1662C0066	
HVAC	USA	13 20 00	15 01 01	4420	TCB292812B0447	
CSWM	USA	11 2A 00	15 06 00	4202	TJL6B321200273	
PTCM	USA	11 1A 21	12 12 60	4101	T170867XXX12	
AMP	USA	21 01 01	15 29 00	4034	TH1AA3052G8911	
IPC	USA	21 2C 00	16 19 01	4805	JLZ73342402S	
PTS	USA	10 32 01	13 24 03	4401	??????????????	
SCCM	USA	13 28 00	13 29 00	4301	S31620404	
BCM	USA	0D 11 00	15 21 50	4630	T1C331221694	
RADIO	USA	16 22 11	16 22 11	8205	T M9312200204	
OCM	USA	15 17 01	16 13 02	4151	TJLJY29821N1A2	
LBSS	USA	11 23 01	12 25 00	4204	TJL 332240061	
RBSS	USA	11 23 01	12 25 00	4204	TJL 339240231	
BPCM	Rest of world / ROW	13 0C 04	16 0F 43	5701	28722S0342	30E9B2D7
HCP	USA	16 09 06	16 2A 01	5403	TVS9H3062Z0614	665178C3 8D7568A3 4B0D83D8
AHCP	USA	16 09 06	14 33 01	5600		
ABSO	USA	16 16 00	16 0C 01	4300	T5HOL3322L1420	C3CCDF76
SGW		6	1125	4103	TF1163162J11C40	
DPDM	USA	15 18 01	16 13 02	4600	TJLJY31021P0W2	
DASM	USA	11 0E 00	16 04 01	4021	T037M319211043	

IDCM	USA	15 0E 00		4000	TD6OA3282D8524	

CONFIGURATION

TCM CONFIGURATION

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

PCM CONFIGURATION

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

3.6 Liter V6 Engine	False	
4.0 Liter I6 Engine	False	
3.8 Liter V6 Engine	False	
3.7 Liter V6 Engine	False	
3.5 Liter V6 Engine	False	
3.3 Liter V6 Engine	False	
3.2 Liter V6 Engine	False	
2.7 Liter V6 Engine	False	
MTV Solenoid Equipped	False	
MDS Equipped	False	
Turbocharger Equipped	True	
SRV Equipped	False	
Secondary Air Equipped	False	
Shift Indicator Lamp Equipped	False	
Barometric Sensor Equipped	True	
TIP Equipped	True	
Battery Temp Sensor Equipped	False	
Knock Sensor 1 Equipped	True	
Knock Sensor 2 Equipped	True	
WI4 Variable Valve Timing Equipped	True	
Clutch Interlock Switch Equipped	False	
ESIM Equipped	False	
Linear Purge Equipped	False	
Linear EGR Equipped	False	
Continuous Variable Transmission Equipped	False	
Direct Injection Equipped	True	
Secondary Fuel Pump Equipped	False	
Electronic Coolant Pump Equipped	False	
O2 Sensor Bank 1 Sensor 1 Equipped	True	
O2 Sensor Bank 1 Sensor 2 Equipped	True	
O2 Sensor Bank 1 Sensor 3 Equipped	False	
O2 Sensor Bank 2 Sensor 1 Equipped	False	
O2 Sensor Bank 2 Sensor 2 Equipped	False	
Variable Displacement AC Equipped	False	
Fixed displacement AC Equipped	False	
WI4 Intake Flow Control Valve Equipped	False	
Electric Coolant Valve Equipped	False	
Engine Oil Heater Cooler Equipped	True	
Transmission Oil Heater Equipped	False	
Electric Water Pump Equipped	False	
Rear Heater Equipped	False	
Starter Relay 2 Equipped	False	
Inrush Current Reduction Relay Equipped	False	
Active Grille Shutter Equipped	False	

Electronic Vacuum Pump Equipped	False	
Wide Range O2 Sensor 1/1 Equipped	True	
Wide Range O2 Sensor 2/1 Equipped	False	
MultiAir Equipped	False	
Engine Stop Start Equipped	False	
Viscosity Sensor Equipped	False	
Duty Cycle Purge Valve Equipped	True	
Electric Thermostat Heater Equipped	False	
Exhaust Cam 1 Equipped	True	
Intake Cam 1 Equipped	True	
1.8 Liter WI4 engine	False	
2.0 Liter WI4 engine	False	
2.4 Liter WI4 engine	False	
3.0 Liter V6 Engine	False	
Tumble Generator Valve Equipped	False	
Hybrid Electric Vehicle Equipped	True	
Auxiliary Heater Electric Water Pump Equipped	False	
Dual Speed Fuel Pump Equipped	False	
Exhaust Cam 2 Equipped	False	
Intake Cam 2 Equipped	False	
1 Speed Fan Mechanical Relay System Equipped	False	
2 Speed Fan Mechanical Relay System Equipped	False	
2 Speed Fan PWM Relay System Equipped	False	
Linear PWM Fan Relay System Equipped	True	
PWM Fan Motor System Equipped	False	
3 Speed Fan Mechanical Relay System Equipped	False	
Fan Wake Up Relay System Equipped	False	
2 Speed Fan 3 Driver 3 Relay System Equipped	False	
40TE / 41TE / 41TEA	False	
42RLE	False	
45RFE / 545RFE / 65RFE	False	
62TE	False	
66RFE / 68RFE	False	
VLP Is Learnable Indicator	False	
VLP Equipped Indicator	False	
VFS Actuators Available Indicator	False	
ERS Equipped Indicator	False	
Engine Software In Package	True	
Transmission Software Included	False	
ICC Cruise Equipped	False	
ETC Cruise equipped	False	
Adaptive Cruise Control Equipped	True	
A/C Equipped	True	
Adaptive Cruise Control Hardware Equipped	False	

DUAL_ALTERNATOR_GEN1_LEARNEDCOPY	False	
TOOLCONFIG_OIL_PRESS_ABS_EQUIPPED	True	
GPEC2 Equipped	False	
GPEC2A Equipped	False	
GPEC3 Equipped	False	
Cummins Equipped	False	
GPEC4 Equipped	True	
VMM Equipped	False	
Powernet Equipped	False	
CUSW (29-Bit) Equipped	False	
CUSW (11-Bit) Equipped	False	
Fiat 940 Compact Equipped	False	
Next Gen Bus Equipped	False	
Constant Heater Temperature Control Valve Equipped	False	
High Side Port Tumble Valve Equipped	Undefined	
CMCV H-Bridge Equipped	Undefined	
Turbine Volute Valve Actuator Equipped	Undefined	
Wastegate H-Bridge Equipped	01	
Active Exhaust Valve Equipped	False	
Active Exhaust Pressure Sensor Equipped	False	
Engine Idle Shutoff Equipped	False	
Aisin 6-Speed RWD Transmission Equipped	False	
Cooled EGR Equipped	True	
Supercharger Equipped	False	
Low Temperature Radiator Coolant Pump Equipped	False	
Mechanical Coolant Pump Heater Equipped	False	
Auxiliary Coolant Pump Heater Equipped	Undefined	
Compressed Natural Gas Equipped	False	
CUSW PROXI Write Programming Support Enabled	True	
Active Engine Mount Equipped	False	
ZF 9-Speed Transmission Equipped	False	
HPT 6-Speed Transmission Equipped	False	
Variable Speed Fuel Pump Equipped	True	
Operator Idle Speed Request Equipped	False	
PTO System Equipped	False	
Air Shutoff Valve Bank 1 Control Solenoid 1 Equipped	False	
Air Shutoff Valve Bank 1 Control Solenoid 2 Equipped	False	
Air Shutoff Valve Bank 2 Control Solenoid 2 Equipped	False	
Dual Stage Oil Pump Equipped	True	
Auxiliary Coolant Pump Equipped	True	
Trans Skip Shift Equipped	False	
Trans Reverse Lockout Equipped	False	
Port Flap Valve Equipped	False	
Brushless PWM Fan Equipped	FAN_PWM_BOSCH_BRUSHLESS_CNFG	

6.2 Liter V8 Engine	False	
Primary Lin Alternator Equipped	False	
Coolant On-Off Pump Equipped	True	
Oil Pressure Sensor Enabled	True	
Fiat VIN Learning Strategy Equipped	False	
Dual Fuel Tank Equipped	False	
Yaw Rate Sensor ESC Equipped	True	
1.0 Liter I3 Engine	False	
Coolant On-Off Valve Equipped	False	
Buffered Crank Output for ANC (Active Noise Cancellation) Equipped	True	
Buffered Crank Output for PHEV Engine Pulse Calculation Equipped	True	
Throttle Inlet Temp Sensor Equipped	True	
Humidity, Temperature and Pressure Sensor (LIN) Equipped	False	
Dual Fuel Pressure Sensor Equipped	False	
Brake Pedal Sensor Equipped	True	
Dual Fuel Tank Equipped	False	
PTO System Equipped	False	
Low Temp Radiator Coolant Pump Equipped	False	
Engine Idle Shutoff Equipped	False	
A/C Relay Powered from Engine Switched Battery	False	
CNG Large Gas Tank Equipped	False	
Cooled EGR Equipped	True	
Supercharger Equipped	False	
Hybrid MEC Shifter Equipped	False	
Dual Alternator Gen1 Capable	False	
Auxillary Coolant Pump Equipped	True	
ZF 9-Speed Trans Equipped	False	
HPT 6-Speed Trans Equipped	False	
CUSW 4-Button Cruise Equipped	False	
Power Steering Angle Sensor Mandatory	False	
Throttle Inlet Temp Sensor Equipped	True	
LIN Humidity, Temp, and Pressure Sensor Equipped	False	
Dual Fuel Pressure Sensor Equipped	False	
Brake Pedal Sensor Equipped	True	
Clutch Sensor Equipped	False	
SWAP HARDWIRED BRAKE SWITCH INPUTS	True	
Mass Airflow System Equipped	False	
Bi-Directional Crank Sensor Equipped	True	
5 Button Cruise (LIN) Equipped	True	
Operator Idle Speed Request Equipped	False	
INTAKE O2 SENSOR EQUIPPED	False	
Cylinder Pressure Sensor Equipped	False	
Make Up Air Sensor Equipped	True	
Active Exhaust Pressure Sensor Equipped	False	

Secondary Mass Airflow Sensor Equipped	False	
1.0 Liter I3 Engine	False	
2.0 Liter I4 Direct Injection Engine	True	
Variable Valve Lift Equipped	Not Equipped	
Coolant On-Off Pump Equipped	Equipped	
Primary Lin Alternator Equipped	Not Equipped	
Electronic Parking Brake Equipped	False	
Active Exhaust Valve(s) Equipped	False	
Mechanical Coolant Pump Equipped	False	
Aux Coolant Pump Heater Equipped	False	
Heater Temp Control Valve Equipped	False	
High Side Port Tumble Valve Equipped	False	
Wastegate HBridge Equipped	True	
Remote Start Present	Present	
Engine Oil Pressure Sensor Type	255	None

ICS CONFIGURATION

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

RFH CONFIGURATION

NAME	VALUE	UNITS
PIN Successfully Programmed	Yes	
VIN Successfully Programmed	Yes	
Valid Key In Ignition	Yes	
Keyless Go	True	
Ignition system type connected	KIN system	
e-shifter present	True	
Auto Park Present	True	
Secret Codes Programmed	True	
Passive Entry	True	
RKE	True	
Module Configuration Status	True	
Remote Start Present	True	
$0214 Programmed by	Programmed by FCA manufacturing	
Hardware Configuration: Remote Start Antenna	Present	
Hardware Configuration: Front Left Door Handle H/W	Serial AP	
Hardware Configuration: Front Right Door Handle H/W	Serial AP	
Hardware Configuration: Rear Left Door Handle H/W	No AP	
Hardware Configuration: Rear Right Door Handle H/W	No AP	
Hardware Configuration: Trunk Door Handle H/W	Serial AP	
RFHub Locked	RFHUB Locked after IAC write	

Fob Location #1 Successfully Programmed	Yes	
Fob Location #2 Successfully Programmed	Yes	
Fob Location #3 Successfully Programmed	No	
Fob Location #4 Successfully Programmed	No	
Fob Location #5 Successfully Programmed	No	
Fob Location #6 Successfully Programmed	No	
Fob Location #7 Successfully Programmed	No	
Fob Location #8 Successfully Programmed	No	
Back Up Vehicle Config 1	True	
Back Up Vehicle Config 2	True	
Back Up Vehicle Config 3	True	
Back Up Vehicle Config 4	True	
Back Up Vehicle Config 5	True	
Back Up Vehicle Config 6	True	
Back Up Vehicle Config 7	True	
Back Up ECU Configuration 1	True	
Back Up ECU Configuration 2	True	
Back Up ECU Configuration 3	True	
Back Up ECU Configuration 4	True	
Back Up ECU Configuration 5	True	
Back Up ECU Configuration 6	True	
Back Up ECU Configuration 7	True	
Back Up ECU Configuration 8	True	
Back Up ECU Configuration 9	True	
Back Up ECU Configuration 10	True	
Back Up ECU Configuration 11	True	
Back Up ECU Configuration 12	True	
Back Up ECU Configuration 13	True	
Back Up ECU Configuration 14	True	
Back Up ECU Configuration 15	True	
Back Up ECU Configuration 16	True	
Back Up ECU Configuration 17	True	
Back Up Customer Settings Menu 1 (CSM1)	True	
Back Up Customer Settings Menu 2 (CSM2)	True	
Back Up Programmed ECUs: Cabin Network	True	
Back Up Programmed ECUs: P/T Chassis Network	True	
Secret Key Sent to Body Controller - Most recent attempt	Yes	
Secret Key Sent to Body Controller - Original attempt	Yes	
Base TPM Present	Not Set	
Full Size Matching Spare Tire Present	Set	
ECU Ship Status	Normal Mode	
Tire Pressure System	True	
Selectable Tire Fill Alert	False	
TPM Auto-Locate Enabled	True	

TPMS Configuration	Logic 1 NHTSA Enable Warning

DTCM CONFIGURATION

NAME	VALUE	UNITS
Full-Time T-Case	True	
Front Locker Present	False	
Rear Locker Present	False	
FAD Present	True	
Mode Switch Present	True	
Left/Right Hand Drive	Left Hand Drive	
Axle Ratio	3.730	
T-Case Type	MPT 3025C	
SRT Present	No	

ORC CONFIGURATION

NAME	VALUE	UNITS
Rollover Sensing	Not Configured	
EPPM	Not Configured	
Occupant Classification (OCM)	Configured	
First Row Driver Seatbelt Buckle Switch	Configured	
First Row Passenger Seatbelt Buckle Switch	Configured	
Second Row Left seat belt Switch	Not Configured	
Second Row Center seat belt Switch	Not Configured	
Second Row Right seat belt Switch	Not Configured	
Driver Seat Track Position Sensor	Configured	
Passenger Seat Track Position Sensor	Configured	
Passenger Occupant Detection Sensor	Not Configured	
Passenger Airbag Disable Switch	Not Configured	
Passenger Airbag Disable Indicator	Configured	
Driver Frontal Squib 1	Configured	
Driver Frontal Squib 2	Configured	
Driver Frontal Squib 3	Configured	
Passenger Frontal Squib 1	Configured	
Passenger Frontal Squib 2	Configured	
Passenger Frontal Squib 3	Configured	
Driver Knee Bolster Squib	Not Configured	
Passenger Knee Bolster Squib	Not Configured	
Driver Seatbelt Retractor Pretensioner	Configured	
Passenger Seatbelt Retractor Pretensioner	Configured	
Driver Seatbelt Load Limiter	Configured	
Passenger Seatbelt Load Limiter	Configured	
Driver Seatbelt Anchor Pretensioner	Configured	
Passenger Seatbelt Anchor Pretensioner	Configured	
Driver Seatbelt Buckle Pretensioner	Not Configured	

Passenger Seatbelt Buckle Pretensioner	Not Configured	
Left Curtain Squib 1	Not Configured	
Right Curtain Squib 1	Not Configured	
Left Side Seat Squib 1	Configured	
Right Side Seat Squib 1	Configured	
Second Row Left Seat Side Airbag	Not Configured	
Second Row Right Seat Side Airbag	Not Configured	
Driver Frontal Squib 4	Not Configured	
Passenger Frontal Squib 4	Not Configured	
Left Up-Front Acceleration Sensor	Configured	
Right Up-Front Acceleration Sensor	Configured	
Right B-Pillar Impact Acceleration Sensor	Configured	
Left B-Pillar Impact Acceleration Sensor	Configured	
Left C-Pillar Impact Acceleration Sensor	Not Configured	
Right C-Pillar Impact Acceleration Sensor	Not Configured	
Right D-Pillar Impact Acceleration Sensor	Not Configured	
Left D-Pillar Impact Acceleration Sensor	Not Configured	
Left Side Door Pressure Sensor	Not Configured	
Right Side Door Pressure Sensor	Not Configured	
Configuration Column Identifier	A2	

HVAC CONFIGURATION

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

AMP CONFIGURATION

NAME	VALUE	UNITS
ANC Calibration Date - Year	20	
ANC Calibration Date - Week	6	
ANC Calibration Date - Patch Level	0	
Current ANC Calibration ID - Service	B602	
ANC Status	Off - Door Mute	
Surround Sound Activated	Not Set	
Door Module - Left Front	Not Present	
Door Module - Right Front	Not Present	
Premuim - 1	False	
Premuim - 2	True	
Premuim - 3	False	

Non -ANC	False	
No Rear Doors	True	
No HALF Chimes	True	

IPC CONFIGURATION

NAME	VALUE	UNITS
Main Fuel Tank Gauge - Empty Stop Calibration	0.000	Volts
Main Fuel Tank Gauge -1/4th Datum Calibration	0.000	Volts
Main Fuel Tank Gauge - 1/2 Datum Calibration	0.000	Volts
Main Fuel Tank Gauge - 3/4 Datum Calibration	0.000	Volts
Main Fuel Tank Gauge - Full Stop Calibration	0.000	Volts
Sub Fuel Tank Gauge - Empty Stop Calibration	0.000	Volts
Sub Fuel Tank Gauge - 1/4 Datum Calibration	0.000	Volts
Sub Fuel Tank Gauge - 1/2 Datum Calibration	0.000	Volts
Sub Fuel Tank Gauge - 3/4 Datum Calibration	0.000	Volts
Sub Fuel Tank Gauge - Full Stop Calibration	0.000	Volts

PTS CONFIGURATION

NAME	VALUE	UNITS
Rear System with 6 Front Sensors	False	
Front System with 6 Rear Sensors	False	

SCCM CONFIGURATION

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

BCM CONFIGURATION

NAME	VALUE	UNITS
RBSM	Set	
LBSM	Set	
BCM (Interior Bus)	Set	
HSM	Set	
HVAC	Set	
PTCM	Set	
Radio	Set	
ITM	Not Set	
AMP	Set	
EDM	Not Set	
HVAC_R	Not Set	
TBM	Not Set	
AHLM/AFLS	Not Set	

ASCM	Not Set	
BCM (PT)	Set	
DTCM	Set	
PCM	Set	
EPS	Set	
ESM	Set	
ABS	Not Set	
RFH	Set	
IPC	Set	
ORC	Set	
PTS	Set	
SCCM	Set	
ELSD	Not Set	
TCM	Set	
TPM	Not Set	
AFLS	Not Set	
ITBM	Not Set	
OCM	Set	
DPDM	Set	
SGW	Set	
ASBS	Not Set	
ANC	Not Set	
Number of Reprogramming Attempts - Counter #0	0	
Vehicle Configuration Programmed Status	True	
Last Programmed Status	Manufacturing	
Last Configuration Odometer	0	miles
Vehicle Configuration Auto Write Counter	1	
Vehicle Configuration 1 - Write Counter	2	
Vehicle Configuration 2 - Write Counter	2	
Vehicle Configuration 3 - Write Counter	4	
Vehicle Configuration 4 - Write Counter	2	
Vehicle Configuration 5 - Write Counter	2	
Vehicle Configuration 6 - Write Counter	2	
Programmed ECUs: Cabin Network	2	
Programmed ECUs: P/T Chassis Network	2	
Programmed Network Configuration - Audio / Telematics Network	2	
Programmed ECUs: Hybrid LAN Network	2	
ECU Configuration 1 (CBC Configurable Inputs and Outputs)	2	
ECU Configuration 2 (CBC Features)	2	
ECU Configuration 3	2	
ECU Configuration 4	2	
ECU Configuration 5 (Wireless)	2	
ECU Configuration 5 (Doors)	2	
ECU Configuration 5 (Memory)	2	

ECU Configuration 6 (Brake)	2	
ECU Configuration 6 (Suspension)	2	
ECU Configuration 6 (Powertrain)	2	
ECU Configuration 6 (Safety)	2	
ECU Configuration 7 (CBC Exterior Lighting Calibrations)	2	
ECU Configuration 8 (LIN and Miscellaneous)	2	
ECU Configuration 9A	2	
ECU Configuration 9 (ITM)	2	
ECU Configuration 10	2	
ECU Configuration 11	2	
ECU Configuration 12	2	
ECU Configuration 13	2	
ECU Configuration 14	2	
ECU Configuration 15 (CBC Features)	2	
ECU Configuration 15 (Suspension)	2	
Vehicle Configuration 7 - Write Counter	2	
Vehicle Config CSM1	2	
Vehicle Config CSM2	2	
Model Year	2023	
Vehicle Line	JL	
Country Code	USA	
Left/Right Hand Drive	Left Hand Drive	
Remote Start Present	Set	
Drive Configuration	Selectable 4wd	
Emode Present	Not Set	
Auto Highbeam	Set	
Body Style	4-Door Hatchback	
Maximum Vehicle Speed	99	MPH
Shifter Type	5 Pos Polystable Eshifter / Type PS5	
Performance Pages Present	Not Present	
Special Packages	Default	
PTS Configuration	Rear / REAR	
Hill Descent Feature Present	Not Set	
Select Speed Control Feature Present	Set	
Power Inverter Type	No Power Inverter	
Thatcham Present	Not Set	
Rain Sensor Present	Not Set	
SKIM System Present	Not Set	
Air Conditioning Present	Set	
Cruise Feature is Present	Not Set	
Flipper Glass Present	Not Set	
Full Size Spare	Set	
Off Road Capable	Not Set	
Special Packages	Wrangler Sahara	

Max Load Inflation Pressure Rear Tire	36.0	PSI
Max Load Inflation Pressure Front Tire	36.0	PSI
Light Load Inflation Pressure Rear Tire	0.0	PSI
Police Lighting Feature	Not Set	
Power Lift Gate Present	Not Set	
Power Right Sliding Door Present	Not Set	
Power Left Sliding Door Present	Not Set	
RKE System Present	Set	
Sunshade Present	Not Set	
T-Case Type	Transfer Case 246 / Transfer Case 246	
Wheel Base	Long wheel base (140" & 149" Ram Truck) / LONG	
FOBIK Safe Enable	Set	
ELV Present	Not Set	
Fuel Capacity	17	gallons
Window Express Feature Configuration	Drivers window express only	
Adjustable Pedal Feature Present (non-Memory)	Not Set	
Auto Headlamp Feature Present	Set	
Door Alert Feature Present	Not Set	
Two Fuel Sending Units Present	Not Set	
Vehicle is an SRT	Not Set	
Disable Display of Radio Clock	Not Set	
Chassis Type	Type 88	
Display Outside Temperature Present	Set	
HVAC Configuration	Dual Zone ATC	
Vehicle Brand	Jeep	
Display Compass Heading Present	Set	
Interior EC Mirror Present	Set	
ESCL system present	Not Set	
High Intensity Discharge Head Lamps	Not Set	
Secondary Lock Present	Not Set	
Liftgate/Trunk Type	Manual Liftgate	
Collision Mitigation System present	Set	
Forward Collision Warning present	Set	
Base TPM system present	Not Set	
Premium TPM system present	Set	
Paddle Shift Feature Present	Not Set	
Sport Mode Present	Not Set	
Auto Park Present	Set	
Passive Entry Present	Set	
Keyless Go Present	Set	
Transfer Case High Ratio	1.000	No Unit
Axle Ratio	3.730	
Transfer Case Low Range Reduction Ratio	2.720	
Dynamic Tire Circumference (All or Rear)	97	inch

Dual Rear Wheel (DRW) Vehicle Present	Not Set	
Non-Regulated Tire Pressure Information System (TPIS) Present	Not Set	
Steering Ratio at zero	0.0	No Unit
Steering Ratio at Positive Angle 1	0.0	No Unit
Steering Ratio at Positive Angle 2	0.0	No Unit
Steering Ratio at Positive Angle 3	0.0	No Unit
Steering Ratio at Positive Angle 4	0.0	No Unit
Steering Ratio at Positive Angle 5	0.0	No Unit
Analog Door Sensor Configuration	All Doors have Analog Sensors	
Air Quality System Present	Not Set	
Steering Ratio at Negative Angle 1	0.0	No Unit
Steering Ratio at Negative Angle 2	0.0	No Unit
Steering Ratio at Negative Angle 3	0.0	No Unit
Steering Ratio at Negative Angle 4	0.0	No Unit
Steering Ratio at Negative Angle 5	0.0	No Unit
Ambient Light Dimmer Wheel Input Present Pin G9	Not Set	
Low Beam Output Present - Pin A3, D2	Set	
Rear Wiper Motor Park Present - Pin E29	Set	
Left Rear Door Ajar Input Present - Pin F23	Set	
Front Driver Analog Door Ajar Input Present - Pin F9	Set	
Reserved - Pin G12	Not Set	
Horn Switch Input Present - Pin F29	Set	
Reserved - Pin E15	Not Set	
Hood Ajar Switch Input Present - Pin A11	Set	
Hard Top Sense Present - Pin E14	Set	
Reserved - F21	Not Set	
Reserved - Pin D20	Not Set	
Passenger Door Ajar Signal Present - Pin G18	Set	
Reserved - Pin E47	Not Set	
Reserved - Pin E35	Not Set	
Starter Relay Lowside Coil Drive - Pin D7	Not Set	
Diesel Cabin Heater #2 Output Present - Pin D9	Not Set	
Diesel Cabin Heater #3 Output Present - Pin D10	Not Set	
Diesel Cabin Heater #1 Output Present - Pin D11	Not Set	
Right Dedicated DRL Lamp Output Present - Pin A22	Set	
Left Dedicated DRL Lamps Output Present - Pin D15	Set	
Flipper Glass #2 Output Present	Not Set	
Foot Well Lamps Output Present - Pin G24	Set	
Front Fog Lamps Output Present - Pin A1 & D13	Set	
Inverter Enable Relay Output Present - Pin F35	Set	
Reserved - E20	Not Set	
Gated Park ZFII Output Present - Pin D-24	Set	
Reserved - Pin E21	Not Set	
Rear Fog Lamps Output Present - Pin E39 & F5	Not Set	

Rear Park Lamps Output Present - Pin E4 & F32	Set	
Rear Turn Lamps Output Present - Pin E3 & F42	Not Set	
Run-ACC Y Relay #2 Output Present - Pin E9	Set	
Side Markers Output Present - Pin A10 & D5	Set	
Trailer Backup Lamps Output Present - Pin E23	Set	
Reserved - Pin F4	Not Set	
UGDO Feed Output Present - Pin G15	Set	
VTA Warning LED Output Present - Pin G22	Set	
Park Brake Input Present - Pin E11	Set	
Ambient Temperature Sensor Present - Pin D22	Set	
Tip Start Enabled	Set	
Dual Start Relay System Present	Not Set	
Wiper Service Position Enabled	Not Set	
Trailer Tow Present	Set	
Quad Headlamps Enable	Set	
Horn Chirp Allowed	Set	
Bi Xenon Headlamps Enable	Not Set	
Hazard Lamp Configuration	Latching Switch	
Park Lamp Loadshed Enable	Set	
Front Fog Lamp Dropout Enable	Set	
Combined Rear Lighting Enable	Set	
Side Repeaters Enable	Not Set	
One Touch Lane Change	Set	
Exterior Light Loadshed Enable	Set	
Front Wiper Park Enable	Set	
Rear Wiper Park Enable	Set	
Reversible Washer Pump Enable	Set	
Single Element Tail Lamp	Not Set	
DRL Configuration	Optional DRL	
DRL Lamp Location	Dedicated	
DRL Dropout Enable	Set	
Tunnel Detection	Not Set	
Military Vehicle Present	Not Set	
LED Reverse Lamps Present	Set	
LED Stop Lamps Present	Set	
LED Rear Turn Lamps Present	Set	
LED Tail Lamps Present	Set	
LED Rear Fog Lamps Present	Set	
LED License Lamps Present	Set	
LED Front Turn Lamps Present	Set	
LED Front Fog Lamps Present	Set	
LED Dedicated DRL Present	Set	
LED Low Beam Lamps Present	Set	
LED High Beam Lamps Present	Set	

LED Front Park/Marker Lamps Present	Set	
Door Lock Switch Signal FT LT Usage (F9)	Reserved	
Door Lock Switch Signal FT RT Usage (F23)	Reserved	
Headlamp Wash Interval	wash cycle#11	
Headlamp Wash Shot	Single	
Front Wiper Wipes After Wash	2 Wipes	
Headlamp Washer Low Fluid Shut-Off Enable	Not Set	
Intermittent Wiper States	4 Intermittent Wiper position Switch	
LED CHMSL Lamp Present	Set	
Rear Camera Present	Set	
Power Inverter Present	Set	
Front Park Assist Present	Not Set	
Front Heated Seats Present	Set	
Front Ventilated Seats Present	Not Set	
Destination	United States of America	
Cabin Equilization Curve Number	JL 4 Door Premium Top On (Alpine 12ch)	
Hill Start Assist Customer Setting Option Present	Set	
Radio Apps Present	Not Set	
CTP Easy Entry Enable	Not Set	
CTP Passive Entry Present	Set	
CTP Auto Lock Disable	Not Set	
SDAR Travel Link Present	Set	
DAB Present	Not Set	
Vehicle Theft Alarm Present	Not Set	
Heated Steering Wheel Present	Set	
VIN Check Digit Diable	Not Set	
Surround Sound Feature Present	Not Set	
Power Door Locks Present	Set	
Antenna Type	Passive Primary and no secondary antenna	
CTP Max AC Present	Not Set	
Hybrid Electric Powertrain Present	Not Set	
Disable CD Eject	Not Set	
DTV Front Camera Present	Not Set	
DTV Side Camera Present	Not Set	
Tow Haul Present	Not Set	
Hill Descent Control Present	Not Set	
Audio Steering Wheel Switch Configuration	Core Steering Wheel	
Radio Display On/Off Softkey Present	Not Set	
Microphone Tuning Parameter	Absent	
Microphone Configuration	2 Microphones	
Microphone Type	Peiker 300 mv	
External Port Type	AUX + USB + extra USB	
Splashscreen Type	Vehicle Brand	
ERS Available	not available	

Rear Wheel Dually	not available	
Max Gear	Eighth gear	
Virtual Speedometer Units	not available	
Speedometer Range Max Scale	not available	
IC Config Feature	not available	
PTO Present	not available	
AMB Dimmer	not available	
Heated Seat Present	not available	
Split Shaft Present	not available	
Manual Headlamp Leveling	not available	
Gear Shift Indicator	Not Set	
Service Interval	20000 km and 730 days	
Temperature Celsius for UK	Not Set	
Type of Gallons	U.K. Gallons	
Tip Start Present	Set	
AP5 Trunk Lock	Smart Switch	
Airport Scenario Trunk Set	Not Set	
AP1 Left Front	Smart Switch	
AP2 Right Front	Smart Switch	
AP3 Left Rear	Not Present	
AP4 Right Rear	Not Present	
Global Up	Not Set	
Global Down	Not Set	
Sun Shade	Not Set	
Puddle Lamp Present	Not Set	
Rear Door Pre Short Drop	Not Set	
Passenger Window Lockout	Set	
Auto Power Folding Mirrors Present	Not Set	
Folding mirrors present	Not Set	
Heated Mirrors Present	Set	
Mirror turn signals present	Not Set	
Driver Memory Mirrors Present	Not Set	
Passenger Memory Mirror Present	Not Set	
Electro-chromatic driver mirror present	Not Set	
Electro-chromatic passenger mirror present	Not Set	
Tow Mirror Present	Not Set	
Blindspot Mirror Present	Not Set	
Window Motor Type	Not Set	
Window Hall Sensors Present	Not Set	
Frameless Window Present	Not Set	
Memory Adjustable Pedals Present	Not Set	
Tilt/Telescope Steering Present	Not Set	
Memory Seat Present	Not Set	
Rear Heated Seats Present	Not Present	

Front Vented Seats Present	Not Present	
Heated Steering Wheel Present	Present	
Heated Seat Material Type	Default	
Heated Wheel Material Type	Wood/Leather	
Rear Vented Seats Present	Not Present	
Front Heated Seat Present	Present	
Brake System ECU Configuration A	value 0	
Wheel 18 inch overall ESC Maserati	Not Set	
Brake System ECU Configuration B	Undefined	
ECO Mode Configuration	Remember Previous State with Ignition Key Cycle	
Dual Alternator Present	Not Set	
ODS Present	False	
Driver Kneebag Present	False	
Passenger Kneebag Present	False	
Curtain Airbags Present	False	
Tow Hooks Present	True	
Passive Ped Pro Present	False	
2nd Row Seat Airbags Present	False	
Reserved	Reserved	
Reserved	Reserved	
Integrated EPP Present	False	
BUX vehicle	False	
Signature Light Present	Present	
Dual Filament Headlamp	Not Present	
Front Turn Lamp Diagnostics	Present	
Auto Headlamp On Threshold	3.31409	Volt
Auto Headlamp Off Threshold	2.54930	Volt
Left Low Beam Voltage Regulation	13.6 Volts	
Left High Beam Voltage Regulation	13.6 Volts	
Right Low Beam Voltage Regulation	13.6 Volts	
Right High Beam Voltage Regulation	13.6 Volts	
Left Front Corner Voltage	13.6 Volts	
Right Front Corner Voltage	13.6 Volts	
Left Rear Corner Voltage	12.8 Volts	
Right Rear Corner Voltage	12.8 Volts	
Panic Enable	Set	
Compass Mounting Orientation	Upside Down	
Washer Fluid Level Voltage Threshold	4.46 volts	
IBS Present	Set	
ASBMM Present	Not Set	
Humidity Sensor Present	Not Set	
Manual Trans Present	Not Set	
DC to DC Converter Present	Not Set	
ASBM Present	Set	

Auto Relock Time	60	seconds
VTA System Present	VTA	
DC to DC Converter #2 Present	Not Set	
Illuminated Approach Interior Lighting Target Percentage	100 (50%)	
Illuminated Approach Headlamp Target Percentage	165 (82.50%)	
Illuminated Approach Taillamp Target Percentage	165 (82.50%)	
Illuminated Approach Interior Lighting Ramp Up Time	130(2600ms)	
CRVMM Present	Set	
EVIC Switch Module Present	Set	
Compass Mounting Angle	0	Degree
Backup Reverse Lamp Left Present - Pin F41	Set	
Backup Reverse Lamp Right Present - Pin E1	Set	
Stop/Turn Lamp or Stop Lamp Present Pin E2 & F40	Stop/Turn Lamp	
Left High Beam Present - Pin D1	Set	
Right High Beam Present - Pin A2	Set	
Left Front Lamp Diagnostics Present - Pin F25	Set	
Right Front Lamp Diagnostics Present - Pin F28	Set	
Left Rear Turn Lamp Diagnostics Present - Pin F27	Set	
Right Rear Turn Lamp Diagnostics Present - Pin F31	Set	
Brake Fluid Level Switch Signal Present - Pin D21	Not Set	
Siren	Not Set	
Ultrasonics	Not Set	
Tilt	Not Set	
Swing Gate Lock Present - Pin F30	Set	
Swing Gate Unlock Present - Pin F33	Set	
Front Fog Voltage	13.6	Volts
Rear Fog Voltage	12.0	Volts
CHMSL Lamp Output Disable	Not Set	
Secondary Door Ajar Present - Pin E28	Set	
Manual Door Locks Present	Not Set	
Rain Sensor Module #2 Present	Not Set	
Auto High Beam Module Location	IRCM	
Average Last Longitudinal Acceleration Values	Average 1	
Average Last Lateral Acceleration Values	Average 1	
Excess Longitudinal Acceleration Factor	1.5	
Excess Lateral Acceleration Factor	1.5	
Brake Smoothing Duration	10 periods	
Brake Smoothing Factor	Filter Off	
Steering Smoothing Duration	3 periods	
Steering Smoothing Factor	Filter Off	
Steering Smoothing Threshold	150 Degrees	
Brake Smoothing Threshold	375 Nm	
Maximum Longitudinal Change	2.0 degrees	
Maximum Lateral Change	2.6 degrees	

Acceleration Threshold	1.5 m/s2	
Acceleration Factor	Filter Off	
Nose Dive Threshold	480 degrees	
Nose Dive Factor	Filter Off	
RKE Auto-Relock Feature Enable	Not Set	
PE Auto-Relock Feature Enable	Set	
VTA Hood Ajar Monitoring	Not Set	
Horn Chirp Duration	Short	
Pitch and Roll Present	Set	
Parking Light Enable	Not Set	
ASBM Minimum Voltage Time	10 Seconds	
ASBM Battery Minimum Voltage	11.8 Volts	
Interior Lighting Night Threshold	4.45147	Volt
Interior Lighting Day Threshold	4.27498	Volt
Axle Locker Configuration	No Axle Locker / NONE	
Transmission Equipped	Automatic transmission / AUTOMATIC	
Park Brake Type	Mechanical park brake - hand or foot / MECH	
TPMS Configuration	Logic 1 NHTSA Enable Warning	
Hybrid Type	PHEV	
TSBM Module Present	Not Set	
ADR feature Present	Not Set	
AGS Feature Present	Not Set	
Temperature Display Resolution	Set	
PTC Present	Not Set	
Glovebox Control	Not Set	
Glare Free Present	Not Set	
Brake Type	Reserved	
Suspension Type	Reserved	
Park assist customer settings menu	Feature not present / Absent	
Park assist brake customer settings menu	Not Set	
Park assist front volume customer settings menu	Not Set	
Park assist rear volume customer settings menu	Set	
Electric power steering customer settings menu	Not Set	
Forward collision warning customer settings menu	Feature 2 - 3 Option / Feature 2 - 3 Option	
Auto on driver comfort customer settings menu	Feature 2 - 3 Option / Feature 2 - 3 Option	
Auxiliary switches customer settings menu	Switch 1 - 4 Option / Switch 1 - 4 Option	
Rear view camera gridlines customer settings menu	Static + Dynamic / Static + Dynamic	
Unit set customer settings menu	Set	
Power accessory delay customer settings menu	Set	
Ambient dimmer customer settings menu	Not Set	
Tire jack mode customer settings menu	Not Set	
Air suspension warning customer settings menu	Not Set	
Automatic aero mode customer settings menu	Not Set	
Auto high beam customer settings menu	Set	

Auto park customer settings menu	Not Set	
Blind spot alert customer settings menu	Set	
Clock display customer settings menu	Set	
Compass calibration customer settings menu	Not Set	
Compass variance customer settings menu	Not Set	
Consumption unit customer settings menu	Set	
Distance unit customer settings menu	Set	
Auto door lock customer settings menu	Set	
Easy exit seat customer settings menu	Not Set	
Auto entry exit mode customer settings menu	Not Set	
EPB service mode customer settings menu	Not Set	
Headlamp drop customer settings menu	Not Set	
Headlamp off delay customer settings menu	Set	
Headlamps on with wiper customer settings menu	Set	
Passive entry customer settings menu	Set	
Illuminated approach customer settings menu	Set	
Lane departure torque customer settings menu	Not Set	
Lane departure warning customer settings menu	Not Set	
Rear camera customer settings menu	Not Set	
Rain sensitive wipers customer settings menu	Not Set	
Power take off customer settings menu	Not Set	
Pressure unit customer settings menu	Set	
Power unit customer settings menu	Not Set	
Power liftgate chime customer settings menu	Not Set	
Performance shift enable customer settings menu	Not Set	
Rear view camera delay customer settings menu	Set	
RKE unlock customer settings menu	Set	
Speed unit customer settings menu	Set	
Tilt mirror in reverse customer settings menu	Not Set	
Torque unit customer settings menu	Not Set	
Teen Key Fuel Pop-up Customer Settings Menu	Not Set	
Teen Key Automatic High Beam Customer Settings Menu	Not Set	
Passenger Airbag On/Off Customer Settings Menu	Not Set	
Forward Collision Warning and Brake Customer Settings Menu	Set	
Doors and Engine Off Power Delay Customer Settings Menu	Set	
Radio Speaker Open Circuit Disable (LF)	Not Set	
Radio Speaker Open Circuit Disable (RF)	Not Set	
Radio Speaker Open Circuit Disable (LR)	Not Set	
Radio Speaker Open Circuit Disable (RR)	Not Set	
ANC Calibration Parameter Data Set	46594	ms
Surround View Camera On/Off Softkey Present	Not Set	
Drive Mode Version	Version 1	
Rear Defrost and Heated Mirrors Present	Both	
Show Phone Information in Cluster	Set	

Auto Dimming Mirror Hard Button Present	Not Set	
Clari-Fi Present	Not Set	
Automatic Crash Notification Feature Present	Not Set	
Trailer Hitch Camera Present	Set	
Park Assist Tuning Set	Sahara	
Rear Defrost Presence	Present	
Heated Mirrors Present	Present	
Engine Displacement	Signal Not Available / SNA	
Steering C Factor	Type 3	
Speedometer Tolerance	0 Percent Tolerance	
Increasing speed constant	Increasing 0 KPH	
Tachometer Type	Tachometer Type 1 / Type 1	
DTV Present	Not Set	
Tri-State Comfort Climate Softkey Function Present	Set	

RADIO CONFIGURATION

NAME	VALUE	UNITS
Satellite Subscription ID	RVNB5E0H	
Satellite Subscription Status	Subscribed	
Satellite Subscription Reason Code	00	
Satellite Subscription Suspend Day	01	
Satellite Subscription Suspend Month	01	
Satellite Subscription Suspend Year	46	
911 Button	On	
SDARS	True	
Navigation Active	True	
Cellular	True	
Internal CD Player	False	
Wi-Fi	True	
Bluetooth	True	
Application Framework	True	
FM Diversity	False	
Clock Defeat	Off	
Automated Loudness	On	
Anti-Theft Enable Status	On	
12/24 Time Selection	12 Hour Time	
Front Seat Video Playback	Enabled	
Cabin EQ Curve Number Currently Used by Radio	B6	
Splash Screen	Jeep	
Compass on the bus messaging Authorization	Allowed	
GPS on the Bus messaging Authorization	Allowed	
USB Hubs Detected	1	No Unit
SD Card Readers Detected	0	No Unit
Enumerated USB Devices	0	No Unit

Aux Jack	Not Inserted	
DTV Short Term Configuration	—	

LBSS CONFIGURATION

NAME	VALUE	UNITS
Steering (LHD/RHD)	Left Hand Drive/ LHD	
Teen Key	No	
CFG FEATURE	CFG_NONE	

RBSS CONFIGURATION

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

ABSO CONFIGURATION

NAME	VALUE	UNITS
Vehicle Line Identification	JL	
Displacement	2.0	No Unit
Hybrid Type	PHEV	
Trans Type	ZF_8spd	
Drive Configuration	Selectable 4wd	
Chassis Type	Type 88	
Axle Ratio	3.726	No Unit
Tire Circumference	97	inch

DASM CONFIGURATION

NAME	VALUE	UNITS
ACC Present	False	
ACC STOP Present	True	
ACC GO Present	False	
FCW Present	True	
LDW Plus Present	False	
Auto High Beam Present	True	
NCC Present	False	

VEHICLE SCAN REPORT

Vehicle 2023 JEEP WRANGLER 2.0L I4 DOHC DI TURBO PHEV ENGINE
VIN [redacted]

Odometer 1357.0 miles
Publication Date Mar 27, 2023, 2:28:47 PM

ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	[redacted]	PART #
TCM	Transmission Control Module	CAN-C	68620361AB		68620361AB
PCM	Powertrain Control Module	CAN-C	68614847AC		68614847AC
ICS	Integrated Center Stack	CAN-I	6SX94DX9AE		6SX94DX9AE
RFH	Radio Frequency Hub	CAN-C	56029925AB		56029925AB
ESM	Electronic Shifter	CAN-C	04670716AD		04670716AD
DTCM	Drive Train Control Module	CAN-C	68611937AA		68611937AA
ORC	Occupant Restraint	CAN-C	68526670AB		68526670AB
EPS	Electric Power Steering	CAN-C	68529427AD		68529427AD
HVAC	Heat, Ventilation and A/C	CAN-I	52080486AB		52080486AB
CSWM	Comfort Seat Wheel Module	CAN-I	68530204AB		68530204AB
PTCM	Power Top Control Module	CAN-I	68371772AB		68371772AB
AMP	Amplifier	CAN-I	68549084AC		68549084AC
IPC	Instrument Panel Cluster	CAN-C	68525023AD		68525023AD
PTS	Parktronics	CAN-C	68441031AC		68441031AC
SCCM	Steering Column Control Module	CAN-C	68526258AA		68526258AA
BCM	Body Controller	CAN-C	68525356AC		68525355AC
RADIO	Radio	CAN-I	68615156AB		68615156AB
OCM	Occupant Classification	CAN-C	68582577AB		68582577AB
LBSS	Left Blind Spot Sensor	CAN-I	68454896AA		68454896AA
RBSS	Right Blind Spot Sensor	CAN-I	68454896AA		68454896AA

SessionID # [redacted]

BPCM	Battery Pack Control Module	CAN-C	05193168AJ	[redacted]	05193168AJ
HCP	Hybrid Control Processor	CAN-C	68614244AC		68614244AC
AHCP	Auxiliary Hybrid Control Processor	CAN-C	68614243AC		68614243AC
ABSO	Anti Lock Brakes OBD	CAN-C	68596542AA		68596542AA
SGW	Security Gateway Module	CAN-C	68532299AB		68532299AB
DPDM	Driver Presence Detection Module	CAN-C	68582578AB		68582578AB
DASM	Driver Assistance System Module	CAN-C	04672930AC		04672930AC
IDCM	Integrated Dual Charge Module	CAN-C	05185035AS		05185035AS

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	SERIAL NUMBER	CVNS
TCM	USA / USA	13 05 0E	16 1C 00	4700	T06UM269208211	4AB842E6
PCM	USA	1D 47	21 22 00	4928	T00EP3272L8WPD	0443072B
ICS	USA	10 1E 00	14 33 00	4802	T339210251	
RFH	USA / USA	10 17 00	15 1D 00	4604	T04Z23422R0198	
ESM	USA	15 18 00	12 2A 00	4322	T5N334221549	
DTCM	USA	11 22 00	16 1F 01	4501	TH2YC32722LSRS	
ORC	USA	14 0B 00	14 12 01	4501	T02JF2862G324D	
EPS	USA	10 13 00	16 0B DC	4005	TFD1662C0066	
HVAC	USA	13 20 00	15 01 01	4420	TCB292812B0447	
CSWM	USA	11 2A 00	15 06 00	4202	TJL6B321200273	
PTCM	USA	11 1A 21	12 12 60	4101	T170867XXX12	
AMP	USA	21 01 01	15 29 00	4034	TH1AA3052G8911	
IPC	USA	21 2C 00	16 19 01	4805	JLZ73342402S	
PTS	USA	10 32 01	13 24 03	4401	??????????????	
SCCM	USA	13 28 00	13 29 00	4301	S31620404	
BCM	USA	0D 11 00	15 21 50	4630	T1C331221694	
RADIO	USA	16 22 11	16 22 11	8205	T M9312200204	
OCM	USA	15 17 01	16 13 02	4151	TJLJY29821N1A2	
LBSS	USA	11 23 01	12 25 00	4204	TJL 332240061	
RBSS	USA	11 23 01	12 25 00	4204	TJL 339240231	
BPCM	Rest of world / ROW	13 0C 04	16 0F 43	5701	28722S0342	30E9B2D7
HCP	USA	16 09 06	16 2A 01	5403	TVS9H3062Z0614	665178C3 8D7568A3 4B0D83D8
AHCP	USA	16 09 06	14 33 01	5600		
ABSO	USA	16 16 00	16 0C 01	4300	T5HOL3322L1420	C3CCDF76
SGW		6	1125	4103	TF1163162J11C40	
DPDM	USA	15 18 01	16 13 02	4600	TJLJY31021P0W2	
DASM	USA	11 0E 00	16 04 01	4021	T037M319211043	

IDCM	USA	15 0E 00		4000	TD6OA3282D8524	

DTC SUMMARY

ECU	DTC CODE	DTC DESCRIPTION	STATUS

ENVIRONMENTAL DATA SUMMARY

No Environmental Data available

SNAPSHOT DATA SUMMARY

No Snapshot Data available

VEHICLE SCAN REPORT

Vehicle 2023 JEEP WRANGLER 2.0L I4 DOHC DI TURBO PHEV ENGINE
VIN 1[redacted]

Odometer 907.8 miles
Publication Date Feb 10, 2023, 12:45:52 PM

ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	PART #
TCM	Transmission Control Module	CAN-C	68620361AB	68620361AB
PCM	Powertrain Control Module	CAN-C	68614847AB	68614847AB
ICS	Integrated Center Stack	CAN-I	6SX94DX9AE	6SX94DX9AE
TPM	Tire Pressure Monitor	CAN-C		
RFH	Radio Frequency Hub	CAN-C	56029925AB	56029925AB
ESM	Electronic Shifter	CAN-C	04670716AD	04670716AD
DTCM	Drive Train Control Module	CAN-C	68611937AA	68611937AA
ORC	Occupant Restraint	CAN-C	68526670AB	68526670AB
EPS	Electric Power Steering	CAN-C	68529427AD	68529427AD
HVAC	Heat, Ventilation and A/C	CAN-I	52080486AB	52080486AB
CSWM	Comfort Seat Wheel Module	CAN-I	68530204AB	68530204AB
PTCM	Power Top Control Module	CAN-I	68371772AB	68371772AB
AMP	Amplifier	CAN-I	68549084AC	68549084AC
IPC	Instrument Panel Cluster	CAN-C	68525023AD	68525023AD
PTS	Parktronics	CAN-C	68441031AC	68441031AC
SCCM	Steering Column Control Module	CAN-C	68526258AA	68526258AA
BCM	Body Controller	CAN-C	68525356AC	68525355AC
RADIO	Radio	CAN-I	68615156AB	68615156AB
OCM	Occupant Classification	CAN-C	68582577AB	68582577AB
LBSS	Left Blind Spot Sensor	CAN-I	68454896AA	68454896AA

RBSS	Right Blind Spot Sensor	CAN-I	68454896AA	[redacted]	68454896AA
BPCM	Battery Pack Control Module	CAN-C	05193168AJ		05193168AJ
HCP	Hybrid Control Processor	CAN-C	68614244AB		68614244AB
AHCP	Auxiliary Hybrid Control Processor	CAN-C	68614243AB		68614243AB
ABSO	Anti Lock Brakes OBD	CAN-C	68596542AA		68596542AA
SGW	Security Gateway Module	CAN-C	68532299AB		68532299AB
DPDM	Driver Presence Detection Module	CAN-C	68582578AB		68582578AB
DASM	Driver Assistance System Module	CAN-C	04672930AC		04672930AC
IDCM	Integrated Dual Charge Module	CAN-C	05185035AS		05185035AS

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	SERIAL NUMBER	CVNS
TCM	USA / USA	13 05 0E	16 1C 00	4700	T06UM269208211	4AB842E6
PCM	USA	1D 47	21 22 00	4928	T00EP3272L8WPD	38FBDEAB
ICS	USA	10 1E 00	14 33 00	4802	T339210251	
TPM						
RFH	USA / USA	10 17 00	15 1D 00	4604	T04Z23422R0198	
ESM	USA	15 18 00	12 2A 00	4322	T5N334221549	
DTCM	USA	11 22 00	16 1F 01	4501	TH2YC32722LSRS	
ORC	USA	14 0B 00	14 12 01	4501	T02JF2862G324D	
EPS	USA	10 13 00	16 0B DC	4005	TFD1662C0066	
HVAC	USA	13 20 00	15 01 01	4420	TCB292812B0447	
CSWM	USA	11 2A 00	15 06 00	4202	TJL6B321200273	
PTCM	USA	11 1A 21	12 12 60	4101	T170867XXX12	
AMP	USA	21 01 01	15 29 00	4034	TH1AA3052G8911	
IPC	USA	21 2C 00	16 19 01	4805	JLZ73342402S	
PTS	USA	10 32 01	13 24 03	4401	??????????????	
SCCM	USA	13 28 00	13 29 00	4301	S31620404	
BCM	USA	0D 11 00	15 21 50	4630	T1C331221694	
RADIO	USA	16 22 11	16 22 11	8205	T M9312200204	
OCM	USA	15 17 01	16 13 02	4151	TJLJY29821N1A2	
LBSS	USA	11 23 01	12 25 00	4204	TJL 332240061	
RBSS	USA	11 23 01	12 25 00	4204	TJL 339240231	
BPCM	Rest of world / ROW	13 0C 04	16 0F 43	5701	28722S0342	30E9B2D7
HCP	USA	16 09 06	15 11 63	5403	TVS9H3062Z0614	5228AFD9 592DAD8F 4B0D83D8
AHCP	USA	16 09 06	14 33 01	5600		
ABSO	USA	16 16 00	16 0C 01	4300	T5HOL3322L1420	C3CCDF76

SGW		6	1125	4103	TF1163162J11C40	
DPDM	USA	15 18 01	16 13 02	4600	TJLJY31021P0W2	
DASM	USA	11 0E 00	16 04 01	4021	T037M319211043	
IDCM	USA	15 0E 00		4000	TD6OA3282D8524	

DTC SUMMARY

ECU	DTC CODE	DTC DESCRIPTION	STATUS
TCM	P1B13-00	Park-By-Wire - Unintended Out of Park Position-	Stored
TCM	U0074-00	Dedicated Powertrain (D-PT) CAN Bus Off-	Stored
PCM	U0074	Dedicated Powertrain (D-PT) CAN Bus Off	Stored
PCM	P16FA	Engine Disabled, No Immobilizer Signal from HCP	Stored
PCM	U0402	Implausible Data Received From TCM	Stored
ESM	U0074-00	Dedicated Powertrain (D-PT) CAN Bus Off-	Stored
ORC	U0073-00	Hybrid/EV Bus Off-	Stored
BPCM	U0074-00	Dedicated Powertrain (D-PT) CAN Bus Off-	Stored
BPCM	U0293-00	Lost Communication with Hybrid Control Module "A"-	Stored
BPCM	B273C-00	Digital Crash Input-	Stored
HCP	P0513-00	Invalid SKIM Key-	Stored
HCP	P0AFA-00	Hybrid/EV Battery System Voltage Low-	Pending
HCP	P1AEC-00	MCPA HV Battery Voltage Sensor Circuit Performance-	Pending
HCP	P1AED-00	MCPB High Voltage Battery Voltage Sensor Circuit Performance-	Stored
HCP	U0073-00	Hybrid/EV Bus Off-	Stored
ABSO	U0074-00	Dedicated Powertrain (D-PT) CAN Bus Off-	Stored
ABSO	U0402-00	Implausible Data Received From TCM-	Stored
ABSO	C121C-00	Torque Request Signal Denied-	Stored
DASM	C2225-00	PCM Disabled ECU-	Stored
DASM	C2227-00	ABS Disabled ECU-	Stored
DASM	U0402-00	Implausible Data Received From TCM-	Stored
IDCM	P1ABC-00	APM HV Battery System Voltage Low-	Stored
IDCM	U0074-00	Dedicated Powertrain (D-PT) CAN Bus Off-	Stored

ENVIRONMENTAL DATA SUMMARY

TCM | P1B13-00 | Stored | Park-By-Wire - Unintended Out of Park Position-

NAME	VALUE	UNITS
DTC	1B 13 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	

DTC Extended Data Record Number - All	01	
Occurrence flag	Error	
Original Odometer Value	907	miles
Most Recent Odometer Value	907	miles
Frequency Counter	1	
Ignition Cycle Counter	0	

TCM | U0074-00 | Stored | Dedicated Powertrain (D-PT) CAN Bus Off-

NAME	VALUE	UNITS
DTC	C0 74 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	True	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	True	
DTC Extended Data Record Number - All	01	
Occurrence flag	Error	
Original Odometer Value	907	miles
Most Recent Odometer Value	907	miles
Frequency Counter	1	
Ignition Cycle Counter	0	

PCM | U0074 | Stored | Dedicated Powertrain (D-PT) CAN Bus Off

NAME	VALUE	UNITS
Number of DTC	1	
DTC	C0 74	
DTC Readiness Flag	Not Complete	
DTC Storage State	Stored	
Warning Indicator Request State	On	
Odometer	902.7	miles
Accumulation Timer	44	minutes
Ignition Key Cycles	2	
Starts Since Set Counter	1	
Key Cycles Since DTC Last Set Counter	3	
Warm Up Cycles	0	
Good Trip Counter	0	

PCM | P16FA | Stored | Engine Disabled, No Immobilizer Signal from HCP

NAME	VALUE	UNITS
Number of DTC	1	
DTC	16 FA	

DTC Readiness Flag	Not Complete	
DTC Storage State	Stored	
Warning Indicator Request State	Off	
Odometer	902.7	miles
Accumulation Timer	16	minutes
Ignition Key Cycles	8	
Starts Since Set Counter	1	
Key Cycles Since DTC Last Set Counter	9	
Warm Up Cycles	0	
Good Trip Counter	0	

PCM | U0402 | Stored | Implausible Data Received From TCM

NAME	VALUE	UNITS
Number of DTC	1	
DTC	C4 02	
DTC Readiness Flag	Not Complete	
DTC Storage State	Stored	
Warning Indicator Request State	Off	
Odometer	902.7	miles
Accumulation Timer	2	minutes
Ignition Key Cycles	33	
Starts Since Set Counter	1	
Key Cycles Since DTC Last Set Counter	34	
Warm Up Cycles	0	
Good Trip Counter	0	

ESM | U0074-00 | Stored | Dedicated Powertrain (D-PT) CAN Bus Off-

NAME	VALUE	UNITS
DTC	C0 74 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	
Occurrence flag	Error	
Original Odometer Value	905	miles
Most Recent Odometer Value	905	miles
Frequency Counter	1	
Ignition Cycle Counter	4	

ORC | U0073-00 | Stored | Hybrid/EV Bus Off-

NAME	VALUE	UNITS
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	
Occurrence flag	Error	
Original Odometer Value	0	miles
Most Recent Odometer Value	905	miles
Frequency Counter	2	
Operation Cycle Counter	3	
DTC Extended Data Record Number - All	FF	

BPCM | U0074-00 | Stored | Dedicated Powertrain (D-PT) CAN Bus Off-

NAME	VALUE	UNITS
DTC	C0 74 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	True	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	True	
Occurrence flag	Error	
Original Odometer Value	907.5	miles
Most Recent Odometer Value	SNA/Not Programmed	miles
Frequency Counter	16	
Ignition Cycle Counter	0	
FoM - for this DTC (lifetime fails)	3	events
FoM - for this DTC (lifetime fails counts on pass)	0.0000	seconds
FoM - for this DTC (lifetime longest fail on pass)	0.000	seconds
Battery Total Time Awake	5173154	seconds
Key in Ignition	Key_Def	
EPT -WakeUp	Sourced	
HCP Contactor Command	OPN	
Contactor Status	Open	
Plug in Status	Not plugged in	
Balance Mode	False	
Vehicle Speed	125.0	MPH

System (12) Volts at time of fault	11.978	Volts
Battery Lifetime AmpHrs of Charge	865.5	AHr
Battery Lifetime AmpHrs of DisCharge	843.8	AHr
HVIL Status -Vehicle	PASS	
Cycles left to self heal	40	No Unit
HV Battery Charge Power 2sec	77139	watts
HV Battery Charge Power 10sec	74277	watts
HV Battery Discharge Power 2sec	99441	watts
HV Battery Discharge Power 10sec	96606	watts
Key - DriveRdy (CAN)	False	
Battery Lifetime Number Of Closes	216	
Battery Full AmpHr Capacity	49.5	AmpHrs
Battery Cell Voltage Maximum	3824	mV
Battery Cell Voltage Minimum	3814	mV
Battery Cell Voltage Average	3819	mV
Battery Temperature Maximum Module	63	°F
Battery Temperature Minimum Module	63	°F
Battery Temperature Average Module	63	°F
DTC Extended Data Record Number - All	01	
DTC Extended Data Record Number - 2	02	
HV Battery Charge Power 30sec	56289	watts
HV Battery Discharge Power 30sec	80592	watts
Key Position	Ignition Status: Locked	
SOC	65.9	%
HV Bat SOH-R	100.0	%
HV Bat SOH-C	100.0	%
Cell Impedance Max Discharge	0.968	mOhms
Cell Impedance Min Discharge	0.968	mOhms
HVIL Status - Battery pack	PASS	
HVIL PWM Duty Cycle source - Vehicle	49.0	%
HVIL PWM Duty Cycle Source - Battery	49.0	%
HVIL PWM Duty Cycle Sink - Battery	49.0	%
HVIL PWM Frequency source - Vehicle	88.0	Hz
HVIL PWM Frequency Sink - Vehicle	88.0	Hz
HVIL PWM Frequency Source - Battery	88.0	Hz
HVIL PWM Frequency Sink - Battery	88.0	Hz
HVIL Returned current - Vehicle	25.40	mA
HVIL Returned current - Battery	25.40	mA
Battery Cell Highest Cell number	23	
Battery Cell Lowest Cell number	84	
HV Battery Current Sensor Primary	0.00	Amps
HV Battery Current Sensor Secondary	-0.20	Amps
HV Battery Current HVBatCrnt	0.00	Amps
HV Battery Voltage (cell sum)	366.60	Volts

HV Battery Voltage (Module Sum)	366.60	Volts
Battery Temperature Highest Sensor number	07	
Battery Temperature Lowest Sensor number	03	
HV Cooling Battery coolant inlet temp	63	°F
HV Cooling Battery coolant outlet temp	63	°F
BPCM temperature max	66	°F
BPCM temperature min	66	°F
Vehicle Isolation Impedance (Positive side)	4.194	Mega Ohms
Vehicle Isolation Impedance (Negative side)	4.194	Mega Ohms
Vehicle Isolation Impedance (Equivalent)	4.194	Mega Ohms
Battery Isolation Impedance (Positive side)	4.194	Mega Ohms
Battery Isolation Impedance (Negative side)	4.194	Mega Ohms
Battery Isolation Impedance (Equivalent)	4.194	Mega Ohms
Engine Speed	0	rpm
Accelerator position	0.0	%
GPS_Date - Year	65534	Year
GPS_Date - Month	Undefined	
GPS_Date - Day	31	Days
UTC_Time - Hours	SNA / Not Programmed	Hours
UTC_Time - Minutes	59	
UTC_Time - Seconds	255	seconds
HCP - System Shutdown Command (CAN)	Default	
HCP - ePT LOC Diagnostics Enable (CAN)	Default	
HCP - Propulsion system active (CAN)	False	
Qualified Contactor Command - QCC	Open	
Verified Contactor Command - VCC	CLOSE Unrestricted	
HVIL PWM Duty Cycle sink - Vehicle	49.0	%
HV Sensor- Pack Voltage (U BAT P - U BAT M)	366.40	Volts
HV Sensor - DC Link Voltage (U DC LINK)	0.00	Volts
HV Sensor - main fuse Voltage (U MAIN P - U MAIN M) - U DC LINK	0.0	Volts
OBCM Fuse Voltage (U MAIN P - U AUX FUSE)	0.0	Volts
APM Fuse Voltage (U MAIN P - U AUX REL)	0.0	Volts
HV Sensor - Battery Voltage - Positive contactor (U BAT P)	332.4	Volts
HV Sensor - Battery Voltage - Negative contactor (U BAT M)	-34.0	Volts
HV Sensor - Weld Contactor Voltage - Positive contactor (U MAIN P)	0.6	Volts
HV Sensor - Weld Contactor Voltage - Negative contactor (U MAIN M)	0.4	Volts
HV Sensor - U AUX FUSE	-652.8	Volts
HV Battery Total Amp Hour Capacity (CAN)	49.5	AHr
HV Battery - Pack Isolation state (CAN)	PASS	
HV Battery - Powertrain Isolation state (CAN)	N_S	

HV Sensor - Pack Voltage VALIDITY (CAN)	Valid	
HV Battery Current HVBatCrnt VALIDITY (CAN)	Valid	
HV Battery Total Amp Hour Capacity VALIDITY (CAN)	Valid	
BPCM - MCU Reset Counter	0	
BPCM - RAM Reset Counter	0	
BPCM - ROM Reset Counter	0	
BPCM - Safety Mechnism (TSR) Reset Counter	0	
BPCM - Hall current sensor supply voltage (5VQT1)	4.996	Volts
BPCM - Precharge Penalty Timer (CAN)	600	seconds
BPCM - RTC Circuit Status	10	
BPCM - HVBat Sleep Time	22	seconds
BPCM - System Mode	10	No Unit
BPCM - HV Battery pack contactor request (CAN)	False	
BPCM - HV Battery Pack contactor Open (CAN)	False	
BPCM - HV Battery pack Contactor welded and impeded opening (CAN)	Normal	
BPCM - Crash Indication (CAN)	Actuate	
BPCM - Crash Indication VALIDITY (CAN)	Present	
BPCM - Retention Status	Normal	
BPCM - Active weld check type	No Weld Check	
BPCM - Current Category of Wearout Counter	D Level	
HV Contactor State - Positive Contactor	Open	
HV Contactor State - Negative Contactor	Open	
HV Contactor State - Precharge Contactor	Open	
CSC Fault - Cn Pin Open	PASS	
CSC Fault - Cn Short to SWn	PASS	
CSC Fault - Auxiliary channel 1 Pin Open	PASS	
CSC Fault - Auxiliary channel 2 Pin Open	PASS	
CSC Fault - Measured result difference between Alternative path and Primary path is out of range	PASS	
CSC Fault - Balancing Switch Short	PASS	
CSC Fault - Balancing Switch Open	PASS	
CSC Fault - Alternate reference voltage is out of range	PASS	
CSC Fault - Vaa voltage is out of range	PASS	
CSC Fault - Level-shift amplifier offset voltage is out of range	PASS	
CSC Fault - Stuck ADC output bits verification with zero-scale	PASS	
CSC Fault - Stuck ADC output bits verification with full-scale	PASS	
CSC Fault - Multiplexer Open/Short verification with single HVMUX test current source	PASS	
CSC Fault - Multiplexer Open/Short verification with both HVMUX test current sources	PASS	
CSC Fault - Measured result difference between Module voltage and Cell voltage summation	PASS	
CSC Fault - Vhv < Vhvuv	PASS	
CSC Fault - Vhv - Vdcin > Vhvov	PASS	
CSC Fault - Die Temperature is over the upper limit	PASS	
CSC Fault - Scanning for cell information is not complete	PASS	
CSC Fault - ADC Data Path error	PASS	

CSC Fault - Packet Error Check	PASS	
CSC Fault - Power-on reset event occurred	PASS	
CSC Fault - 32kHz oscillator frequency is not within +/-5% of its expected value	PASS	
CSC Fault - Same as Alrtosc1(redundant alert)	PASS	
CSC Fault - Die Temperature is over the upper limit	PASS	
CSC Fault - Module number addressing is fail	PASS	
CSC Fault - Alive counter is not matched to the exepected value	PASS	
CSC Fault - PEC Bits in Data-check byte error	PASS	
CSC Fault - Vhv - V12 is too low	PASS	
CSC Fault - Transmit data is not equal to read back data	PASS	
CSC Diagnostics - Initialization Status	FF FD F3 E3	
CSC Diagnostics - CSC #01 Status	00 02 0C 1C	
CSC Diagnostics - CSC #02 Status	00 02 0C 1C	
CSC Diagnostics - CSC #03 Status	00 02 0C 1C	
CSC Diagnostics - CSC #04 Status	00 02 0C 1C	
CSC Diagnostics - CSC #05 Status	00 02 0C 1C	
CSC Diagnostics - CSC #06 Status	00 02 0C 1C	
CSC Diagnostics - CSC #07 Status	00 02 0C 1C	
CSC Diagnostics - CSC #08 Status	00 02 0C 1C	
CSC Diagnostics - AFE Internal Operation Mode	0B	

BPCM | U0293-00 | Stored | Lost Communication with Hybrid Control Module "A"-

NAME	VALUE	UNITS
DTC	C2 93 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	True	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	True	
Occurrence flag	Error	
Original Odometer Value	907.5	miles
Most Recent Odometer Value	907.5	miles
Frequency Counter	1	
Ignition Cycle Counter	0	
FoM - for this DTC (lifetime fails)	2	events
FoM - for this DTC (lifetime fails counts on pass)	0.0000	seconds
FoM - for this DTC (lifetime longest fail on pass)	0.000	seconds
Battery Total Time Awake	5111890	seconds
Key in Ignition	Key_Def	
EPT -WakeUp	Sourced	
HCP Contactor Command	CLS	

Contactor Status	Closed	
Plug in Status	Not plugged in	
Balance Mode	False	
Vehicle Speed	41.0	MPH
System (12) Volts at time of fault	14.094	Volts
Battery Lifetime AmpHrs of Charge	865.5	AHr
Battery Lifetime AmpHrs of DisCharge	843.8	AHr
HVIL Status -Vehicle	PASS	
Cycles left to self heal	40	No Unit
HV Battery Charge Power 2sec	75318	watts
HV Battery Charge Power 10sec	75327	watts
HV Battery Discharge Power 2sec	102564	watts
HV Battery Discharge Power 10sec	100953	watts
Key - DriveRdy (CAN)	True	
Battery Lifetime Number Of Closes	216	
Battery Full AmpHr Capacity	49.5	AmpHrs
Battery Cell Voltage Maximum	3815	mV
Battery Cell Voltage Minimum	3806	mV
Battery Cell Voltage Average	3811	mV
Battery Temperature Maximum Module	102	°F
Battery Temperature Minimum Module	99	°F
Battery Temperature Average Module	100	°F
DTC Extended Data Record Number - All	01	
DTC Extended Data Record Number - 2	02	
HV Battery Charge Power 30sec	75333	watts
HV Battery Discharge Power 30sec	98589	watts
Key Position	Ignition Status: Running	
SOC	66.3	%
HV Bat SOH-R	100.0	%
HV Bat SOH-C	100.0	%
Cell Impedance Max Discharge	0.968	mOhms
Cell Impedance Min Discharge	0.968	mOhms
HVIL Status - Battery pack	PASS	
HVIL PWM Duty Cycle source - Vehicle	49.8	%
HVIL PWM Duty Cycle Source - Battery	49.8	%
HVIL PWM Duty Cycle Sink - Battery	49.8	%
HVIL PWM Frequency source - Vehicle	88.0	Hz
HVIL PWM Frequency Sink - Vehicle	88.0	Hz
HVIL PWM Frequency Source - Battery	87.0	Hz
HVIL PWM Frequency Sink - Battery	88.0	Hz
HVIL Returned current - Vehicle	1.50	mA
HVIL Returned current - Battery	1.40	mA
Battery Cell Highest Cell number	47	
Battery Cell Lowest Cell number	45	

HV Battery Current Sensor Primary	3.60	Amps
HV Battery Current Sensor Secondary	3.70	Amps
HV Battery Current HVBatCrnt	3.60	Amps
HV Battery Voltage (cell sum)	365.80	Volts
HV Battery Voltage (Module Sum)	367.90	Volts
Battery Temperature Highest Sensor number	06	
Battery Temperature Lowest Sensor number	03	
HV Cooling Battery coolant inlet temp	82	°F
HV Cooling Battery coolant outlet temp	84	°F
BPCM temperature max	118	°F
BPCM temperature min	118	°F
Vehicle Isolation Impedance (Positive side)	2.551	Mega Ohms
Vehicle Isolation Impedance (Negative side)	2.863	Mega Ohms
Vehicle Isolation Impedance (Equivalent)	1.550	Mega Ohms
Battery Isolation Impedance (Positive side)	4.194	Mega Ohms
Battery Isolation Impedance (Negative side)	4.194	Mega Ohms
Battery Isolation Impedance (Equivalent)	4.194	Mega Ohms
Engine Speed	0	rpm
Accelerator position	23.1	%
GPS_Date - Year	59143	Year
GPS_Date - Month	2	
GPS_Date - Day	9	Days
UTC_Time - Hours	22	Hours
UTC_Time - Minutes	56	
UTC_Time - Seconds	0	seconds
HCP - System Shutdown Command (CAN)	Default	
HCP - ePT LOC Diagnostics Enable (CAN)	ENB_LOC	
HCP - Propulsion system active (CAN)	True	
Qualified Contactor Command - QCC	Close	
Verified Contactor Command - VCC	Close	
HVIL PWM Duty Cycle sink - Vehicle	49.8	%
HV Sensor- Pack Voltage (U BAT P - U BAT M)	364.80	Volts
HV Sensor - DC Link Voltage (U DC LINK)	364.90	Volts
HV Sensor - main fuse Voltage (U MAIN P - U MAIN M) - U DC LINK	-0.2	Volts
OBCM Fuse Voltage (U MAIN P - U AUX FUSE)	0.0	Volts
APM Fuse Voltage (U MAIN P - U AUX REL)	0.0	Volts
HV Sensor - Battery Voltage - Positive contactor (U BAT P)	49.6	Volts
HV Sensor - Battery Voltage - Negative contactor (U BAT M)	-315.2	Volts
HV Sensor - Weld Contactor Voltage - Positive contactor (U MAIN P)	49.4	Volts
HV Sensor - Weld Contactor Voltage - Negative contactor (U MAIN M)	-315.2	Volts

HV Sensor - U AUX FUSE	-555.2	Volts
HV Battery Total Amp Hour Capacity (CAN)	49.5	AHr
HV Battery - Pack Isolation state (CAN)	PASS	
HV Battery - Powertrain Isolation state (CAN)	PASS	
HV Sensor - Pack Voltage VALIDITY (CAN)	Valid	
HV Battery Current HVBatCrnt VALIDITY (CAN)	Valid	
HV Battery Total Amp Hour Capacity VALIDITY (CAN)	Valid	
BPCM - MCU Reset Counter	0	
BPCM - RAM Reset Counter	0	
BPCM - ROM Reset Counter	0	
BPCM - Safety Mechnism (TSR) Reset Counter	0	
BPCM - Hall current sensor supply voltage (5VQT1)	4.996	Volts
BPCM - Precharge Penalty Timer (CAN)	600	seconds
BPCM - RTC Circuit Status	10	
BPCM - HVBat Sleep Time	4	seconds
BPCM - System Mode	50	No Unit
BPCM - HV Battery pack contactor request (CAN)	False	
BPCM - HV Battery Pack contactor Open (CAN)	False	
BPCM - HV Battery pack Contactor welded and impeded opening (CAN)	Normal	
BPCM - Crash Indication (CAN)	Do Not Actuate	
BPCM - Crash Indication VALIDITY (CAN)	Fail Not Present	
BPCM - Retention Status	Normal	
BPCM - Active weld check type	No Weld Check	
BPCM - Current Category of Wearout Counter	D Level	
HV Contactor State - Positive Contactor	Closed	
HV Contactor State - Negative Contactor	Closed	
HV Contactor State - Precharge Contactor	Open	
CSC Fault - Cn Pin Open	PASS	
CSC Fault - Cn Short to SWn	PASS	
CSC Fault - Auxiliary channel 1 Pin Open	PASS	
CSC Fault - Auxiliary channel 2 Pin Open	PASS	
CSC Fault - Measured result difference between Alternative path and Primary path is out of range	PASS	
CSC Fault - Balancing Switch Short	PASS	
CSC Fault - Balancing Switch Open	PASS	
CSC Fault - Alternate reference voltage is out of range	PASS	
CSC Fault - Vaa voltage is out of range	PASS	
CSC Fault - Level-shift amplifier offset voltage is out of range	PASS	
CSC Fault - Stuck ADC output bits verification with zero-scale	PASS	
CSC Fault - Stuck ADC output bits verification with full-scale	PASS	
CSC Fault - Multiplexer Open/Short verification with single HVMUX test current source	PASS	
CSC Fault - Multiplexer Open/Short verification with both HVMUX test current sources	PASS	
CSC Fault - Measured result difference between Module voltage and Cell voltage summation	PASS	
CSC Fault - Vhv < Vhvuv	PASS	

CSC Fault - Vhv - Vdcin > Vhvov	PASS	
CSC Fault - Die Temperature is over the upper limit	PASS	
CSC Fault - Scanning for cell information is not complete	PASS	
CSC Fault - ADC Data Path error	PASS	
CSC Fault - Packet Error Check	PASS	
CSC Fault - Power-on reset event occurred	PASS	
CSC Fault - 32kHz oscillator frequency is not within +/-5% of its expected value	PASS	
CSC Fault - Same as Alrtosc1(redundant alert)	PASS	
CSC Fault - Die Temperature is over the upper limit	PASS	
CSC Fault - Module number addressing is fail	PASS	
CSC Fault - Alive counter is not matched to the exepected value	PASS	
CSC Fault - PEC Bits in Data-check byte error	PASS	
CSC Fault - Vhv - V12 is too low	PASS	
CSC Fault - Transmit data is not equal to read back data	PASS	
CSC Diagnostics - Initialization Status	FF FF FF FF	
CSC Diagnostics - CSC #01 Status	00 00 00 00	
CSC Diagnostics - CSC #02 Status	00 00 00 00	
CSC Diagnostics - CSC #03 Status	00 00 00 00	
CSC Diagnostics - CSC #04 Status	00 00 00 00	
CSC Diagnostics - CSC #05 Status	00 00 00 00	
CSC Diagnostics - CSC #06 Status	00 00 00 00	
CSC Diagnostics - CSC #07 Status	00 00 00 00	
CSC Diagnostics - CSC #08 Status	00 00 00 00	
CSC Diagnostics - AFE Internal Operation Mode	0B	

BPCM | B273C-00 | Stored | Digital Crash Input-

NAME	VALUE	UNITS
DTC	A7 3C 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	True	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	True	
Occurrence flag	Error	
Original Odometer Value	907.5	miles
Most Recent Odometer Value	907.5	miles
Frequency Counter	2	
Ignition Cycle Counter	3	
FoM - for this DTC (lifetime fails)	3	events
FoM - for this DTC (lifetime fails counts on pass)	1.7800	seconds
FoM - for this DTC (lifetime longest fail on pass)	0.760	seconds

Battery Total Time Awake	5112078	seconds
Key in Ignition	Key_Def	
EPT -WakeUp	Sourced	
HCP Contactor Command	CLS	
Contactor Status	Open	
Plug in Status	Not plugged in	
Balance Mode	False	
Vehicle Speed	41.0	MPH
System (12) Volts at time of fault	12.475	Volts
Battery Lifetime AmpHrs of Charge	865.5	AHr
Battery Lifetime AmpHrs of DisCharge	843.8	AHr
HVIL Status -Vehicle	PASS	
Cycles left to self heal	252	No Unit
HV Battery Charge Power 2sec	75690	watts
HV Battery Charge Power 10sec	75699	watts
HV Battery Discharge Power 2sec	102768	watts
HV Battery Discharge Power 10sec	100947	watts
Key - DriveRdy (CAN)	True	
Battery Lifetime Number Of Closes	216	
Battery Full AmpHr Capacity	49.5	AmpHrs
Battery Cell Voltage Maximum	3823	mV
Battery Cell Voltage Minimum	3814	mV
Battery Cell Voltage Average	3818	mV
Battery Temperature Maximum Module	100	°F
Battery Temperature Minimum Module	95	°F
Battery Temperature Average Module	99	°F
DTC Extended Data Record Number - All	01	
DTC Extended Data Record Number - 2	02	
HV Battery Charge Power 30sec	75705	watts
HV Battery Discharge Power 30sec	98307	watts
Key Position	Ignition Status: Running	
SOC	66.3	%
HV Bat SOH-R	100.0	%
HV Bat SOH-C	100.0	%
Cell Impedance Max Discharge	0.968	mOhms
Cell Impedance Min Discharge	0.968	mOhms
HVIL Status - Battery pack	PASS	
HVIL PWM Duty Cycle source - Vehicle	49.8	%
HVIL PWM Duty Cycle Source - Battery	49.8	%
HVIL PWM Duty Cycle Sink - Battery	49.8	%
HVIL PWM Frequency source - Vehicle	88.0	Hz
HVIL PWM Frequency Sink - Vehicle	88.0	Hz
HVIL PWM Frequency Source - Battery	88.0	Hz
HVIL PWM Frequency Sink - Battery	88.0	Hz

HVIL Returned current - Vehicle	1.40	mA
HVIL Returned current - Battery	1.40	mA
Battery Cell Highest Cell number	23	
Battery Cell Lowest Cell number	84	
HV Battery Current Sensor Primary	0.00	Amps
HV Battery Current Sensor Secondary	0.25	Amps
HV Battery Current HVBatCrnt	0.00	Amps
HV Battery Voltage (cell sum)	366.60	Volts
HV Battery Voltage (Module Sum)	366.50	Volts
Battery Temperature Highest Sensor number	06	
Battery Temperature Lowest Sensor number	03	
HV Cooling Battery coolant inlet temp	84	°F
HV Cooling Battery coolant outlet temp	84	°F
BPCM temperature max	118	°F
BPCM temperature min	118	°F
Vehicle Isolation Impedance (Positive side)	2.771	Mega Ohms
Vehicle Isolation Impedance (Negative side)	3.143	Mega Ohms
Vehicle Isolation Impedance (Equivalent)	1.674	Mega Ohms
Battery Isolation Impedance (Positive side)	4.194	Mega Ohms
Battery Isolation Impedance (Negative side)	4.194	Mega Ohms
Battery Isolation Impedance (Equivalent)	4.194	Mega Ohms
Engine Speed	0	rpm
Accelerator position	23.1	%
GPS_Date - Year	59143	Year
GPS_Date - Month	2	
GPS_Date - Day	9	Days
UTC_Time - Hours	22	Hours
UTC_Time - Minutes	56	
UTC_Time - Seconds	0	seconds
HCP - System Shutdown Command (CAN)	Default	
HCP - ePT LOC Diagnostics Enable (CAN)	ENB_LOC	
HCP - Propulsion system active (CAN)	True	
Qualified Contactor Command - QCC	Open	
Verified Contactor Command - VCC	Open	
HVIL PWM Duty Cycle sink - Vehicle	49.8	%
HV Sensor- Pack Voltage (U BAT P - U BAT M)	366.20	Volts
HV Sensor - DC Link Voltage (U DC LINK)	0.50	Volts
HV Sensor - main fuse Voltage (U MAIN P - U MAIN M) - U DC LINK	0.4	Volts
OBCM Fuse Voltage (U MAIN P - U AUX FUSE)	0.0	Volts
APM Fuse Voltage (U MAIN P - U AUX REL)	0.0	Volts

HV Sensor - Battery Voltage - Positive contactor (U BAT P)	185.6	Volts
HV Sensor - Battery Voltage - Negative contactor (U BAT M)	-180.6	Volts
HV Sensor - Weld Contactor Voltage - Positive contactor (U MAIN P)	1.2	Volts
HV Sensor - Weld Contactor Voltage - Negative contactor (U MAIN M)	0.4	Volts
HV Sensor - U AUX FUSE	-651.6	Volts
HV Battery Total Amp Hour Capacity (CAN)	49.5	AHr
HV Battery - Pack Isolation state (CAN)	PASS	
HV Battery - Powertrain Isolation state (CAN)	PASS	
HV Sensor - Pack Voltage VALIDITY (CAN)	Valid	
HV Battery Current HVBatCrnt VALIDITY (CAN)	Valid	
HV Battery Total Amp Hour Capacity VALIDITY (CAN)	Valid	
BPCM - MCU Reset Counter	0	
BPCM - RAM Reset Counter	0	
BPCM - ROM Reset Counter	0	
BPCM - Safety Mechnism (TSR) Reset Counter	0	
BPCM - Hall current sensor supply voltage (5VQT1)	5.001	Volts
BPCM - Precharge Penalty Timer (CAN)	600	seconds
BPCM - RTC Circuit Status	10	
BPCM - HVBat Sleep Time	4	seconds
BPCM - System Mode	80	No Unit
BPCM - HV Battery pack contactor request (CAN)	False	
BPCM - HV Battery Pack contactor Open (CAN)	False	
BPCM - HV Battery pack Contactor welded and impeded opening (CAN)	STUCK_CLOSED	
BPCM - Crash Indication (CAN)	Do Not Actuate	
BPCM - Crash Indication VALIDITY (CAN)	Fail Not Present	
BPCM - Retention Status	Normal	
BPCM - Active weld check type	Current-Based Weld Check	
BPCM - Current Category of Wearout Counter	D Level	
HV Contactor State - Positive Contactor	Open	
HV Contactor State - Negative Contactor	Open	
HV Contactor State - Precharge Contactor	Open	
CSC Fault - Cn Pin Open	PASS	
CSC Fault - Cn Short to SWn	PASS	
CSC Fault - Auxiliary channel 1 Pin Open	PASS	
CSC Fault - Auxiliary channel 2 Pin Open	PASS	
CSC Fault - Measured result difference between Alternative path and Primary path is out of range	PASS	
CSC Fault - Balancing Switch Short	PASS	
CSC Fault - Balancing Switch Open	PASS	
CSC Fault - Alternate reference voltage is out of range	PASS	
CSC Fault - Vaa voltage is out of range	PASS	
CSC Fault - Level-shift amplifier offset voltage is out of range	PASS	
CSC Fault - Stuck ADC output bits verification with zero-scale	PASS	
CSC Fault - Stuck ADC output bits verification with full-scale	PASS	

CSC Fault - Multiplexer Open/Short verification with single HVMUX test current source	PASS	
CSC Fault - Multiplexer Open/Short verification with both HVMUX test current sources	PASS	
CSC Fault - Measured result difference between Module voltage and Cell voltage summation	PASS	
CSC Fault - Vhv < Vhvuv	PASS	
CSC Fault - Vhv - Vdcin > Vhvov	PASS	
CSC Fault - Die Temperature is over the upper limit	PASS	
CSC Fault - Scanning for cell information is not complete	PASS	
CSC Fault - ADC Data Path error	PASS	
CSC Fault - Packet Error Check	PASS	
CSC Fault - Power-on reset event occurred	PASS	
CSC Fault - 32kHz oscillator frequency is not within +/-5% of its expected value	PASS	
CSC Fault - Same as Alrtosc1(redundant alert)	PASS	
CSC Fault - Die Temperature is over the upper limit	PASS	
CSC Fault - Module number addressing is fail	PASS	
CSC Fault - Alive counter is not matched to the exepected value	PASS	
CSC Fault - PEC Bits in Data-check byte error	PASS	
CSC Fault - Vhv - V12 is too low	PASS	
CSC Fault - Transmit data is not equal to read back data	PASS	
CSC Diagnostics - Initialization Status	FF FF FF FF	
CSC Diagnostics - CSC #01 Status	00 00 00 00	
CSC Diagnostics - CSC #02 Status	00 00 00 00	
CSC Diagnostics - CSC #03 Status	00 00 00 00	
CSC Diagnostics - CSC #04 Status	00 00 00 00	
CSC Diagnostics - CSC #05 Status	00 00 00 00	
CSC Diagnostics - CSC #06 Status	00 00 00 00	
CSC Diagnostics - CSC #07 Status	00 00 00 00	
CSC Diagnostics - CSC #08 Status	00 00 00 00	
CSC Diagnostics - AFE Internal Operation Mode	0B	

HCP | P0513-00 | Stored | Invalid SKIM Key-

NAME	VALUE	UNITS
DTC	05 13 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	True	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	
DTC Extended Data Record Number	01	
Occurrence flag	Occurrence	
Original Odometer Value	907.7	miles

Most Recent Odometer Value	907.7	miles
Frequency Counter	1	
Ignition Cycle Counter	0	
Microcontroller reset reason - Core 0	FFFF0003	
Microcontroller reset reason - Core 1	Power Up	
Real time clock	951796224	sec
RAM stamps keyOn	375	sec
RAM Stamps	4276	Min
Accelerator Pedal Position	0	%
Barometric Pressure	15	PSI
Engine Coolant Temperature	176	°F
Engine Speed	0	rpm
Vehicle Speed	0.0000	MPH
HV Battery SOC	66	%
Brake Switch Status	Not Applied	
Battery Feed Voltage 1 Sense	12.312	Volts
Battery Feed Voltage 2 Sense	12.312	Volts
Battery Feed Voltage 3 Sense	12.312	Volts
Internal EPS Voltage Sense A	0.360	Volts
Internal EPS Voltage Sense B	0.360	Volts
Hybrid System State	SNA	
Actual Torque - Motor A	0.000	Ft-Lbs
Actual Torque - Motor B	0.000	Ft-Lbs
Available Motor Torque - Motor A	0.000	Ft-Lbs
Available Motor Torque - Motor B	0.000	Ft-Lbs
Available Regen Torque - Motor A	0.000	Ft-Lbs
Available Regen Torque - Motor B	0.000	Ft-Lbs
Commanded Torque - Motor A	0.000	Ft-Lbs
Commanded Torque - Motor B	0.000	Ft-Lbs
Motor A - Inverter Current - phase A	-4	AMP
Motor A - Inverter Current - phase B	-4	AMP
Motor A - Inverter Current - phase C	0	AMP
Motor B - Inverter Current - phase A	0	AMP
Motor B - Inverter Current - phase B	0	AMP
Motor B - Inverter Current - phase C	-4	AMP
Motor A Resolver Angle	312	Degree
Motor B Resolver Angle	Not Programmed	Degree
Motor A Temp Sensor	100	°F
Motor B Temp Sensor	167	°F
Outside Air Temperature	59.9	°F
Ignition State	Ignition Off/ACC	
HCP ePT Wake-Up Output	Off	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable Limited LOC Diagnostic	

Propulsion System Active	False	
HV Contactor Status	Closed	
HV Battery Voltage from BPCM	180.00	Volts
Electric Motor A Speed	0.0	rpm
Electric Motor B Speed	0.0	rpm
PIM DC Link Voltage - A	1	Volts
PIM DC Link Voltage - B	1	Volts
Inverter A IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase B	73	°F
Inverter A IGBT Temperature for phase C	72	°F
Inverter B IGBT Temperature for phase A	68	°F
Inverter B IGBT Temperature for phase B	73	°F
Inverter B IGBT Temperature for phase C	82	°F
APM Status	Off	
Impact Event	False	
PRND Position Display	P	
HCP System Shutdown Command	Default	
PHEV Charging Status	No Charging	
Distance Travelled with Light ON	0	miles
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
HV Battery Sleep Time	0	Days
SW Build Release Version	PIM_20B_2206A0_P1P2_HCP_	
HCP SW Version	20B	
High Voltage bus voltage fault status	No fault	
HV Battery Voltage	180	Volts
HV Battery Voltage fault status	Fault	
APM HV Voltage	366	Volts
APM HV Voltage fault status	Fault	
ECH HV Voltage	2	Volts
ECH HV Voltage fault status	No fault	
EAC HV Voltage	0	Volts
EAC HV Voltage fault status	No fault	
HV Battery Contactor Status FA	Fault	
DAP Contactor Open	Do Not Open	
Air PTC Heater HV Voltage	0	Volts
Air PTC Heater HV Voltage Fault Status	No fault	
DBK Heater HV Voltage	365	Volts
DBK Heater HV Voltage Fault Status	Fault	
High Voltage Interlock Status	Interlock Passed	
Engine WarmpUp Cycle Complete	Not Completed	
Charging System Status	Not Charging	
Charging Level	Default	
High Voltage Contactor Control	Open	

GPS Date - Year	59143	Year
GPS Date - Month	2	
GPS Date - Day	9	Days
UTC Time - Hours	22	Hours
UTC Time - Minutes	59	
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	575	ms

HCP | P0AFA-00 | Pending | Hybrid/EV Battery System Voltage Low-

NAME	VALUE	UNITS
DTC	0A FA 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	True	
Confirmed DTC	False	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	
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		%
Barometric Pressure		PSI
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		
Actual Torque - Motor A		Ft-Lbs

Actual Torque - Motor B		Ft-Lbs
Available Motor Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Available Regen Torque - Motor A		Ft-Lbs
Available Regen Torque - Motor B		Ft-Lbs
Commanded Torque - Motor A		Ft-Lbs
Commanded Torque - Motor B		Ft-Lbs
Motor A - Inverter Current - phase A		AMP
Motor A - Inverter Current - phase B		AMP
Motor A - Inverter Current - phase C		AMP
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Motor A Resolver Angle		Degree
Motor B Resolver Angle		Degree
Motor A Temp Sensor		°F
Motor B Temp Sensor		°F
Outside Air Temperature		°F
Ignition State		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
Propulsion System Active		
HV Contactor Status		
HV Battery Voltage from BPCM		Volts
Electric Motor A Speed		rpm
Electric Motor B Speed		rpm
PIM DC Link Voltage - A		Volts
PIM DC Link Voltage - B		Volts
Inverter A IGBT Temperature for phase A		°F
Inverter A IGBT Temperature for phase B		°F
Inverter A IGBT Temperature for phase C		°F
Inverter B IGBT Temperature for phase A		°F
Inverter B IGBT Temperature for phase B		°F
Inverter B IGBT Temperature for phase C		°F
APM Status		
Impact Event		
PRND Position Display		
HCP System Shutdown Command		
PHEV Charging Status		
Distance Travelled with Light ON		miles
OBCM Operating Mode		
J1772 Prox Detected State		
HV Battery Sleep Time		Days

SW Build Release Version		
HCP SW Version		
High Voltage bus voltage fault status		
HV Battery Voltage		Volts
HV Battery Voltage fault status		
APM HV Voltage		Volts
APM HV Voltage fault status		
ECH HV Voltage		Volts
ECH HV Voltage fault status		
EAC HV Voltage		Volts
EAC HV Voltage fault status		
HV Battery Contactor Status FA		
DAP Contactor Open		
Air PTC Heater HV Voltage		Volts
Air PTC Heater HV Voltage Fault Status		
DBK Heater HV Voltage		Volts
DBK Heater HV Voltage Fault Status		
High Voltage Interlock Status		
Engine WarmpUp Cycle Complete		
Charging System Status		
Charging Level		
High Voltage Contactor Control		
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 | P1AEC-00 | Pending | MCPA HV Battery Voltage Sensor Circuit Performance-

NAME	VALUE	UNITS
DTC	1A EC 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	True	
Confirmed DTC	False	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	
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 [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		A
eMotor A Current Ia Min		A
eMotor A Current Ib Max		A
eMotor A Current Ib Min		A
eMotor A Current Ic Max		A
eMotor A Current Ic Min		A
eMotor A Current Id Max		A
eMotor A Current Id Min		A
eMotor A Current Iq Max		A

eMotor A Current Iq Min		A
eMotor A Current Sum Max		A
eMotor A Current Sum Min		A
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		A
eMotor B Current Ia Min		A
eMotor B Current Ib Max		A
eMotor B Current Ib Min		A
eMotor B Current Ic Max		A
eMotor B Current Ic Min		A
eMotor B Current Id Max		A
eMotor B Current Id Min		A
eMotor B Current Iq Max		A
eMotor B Current Iq Min		A
eMotor B current Sum Max		A
eMotor B current sum Min		A
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		A
eMotor A Current Ib Offset		A
eMotor A Current Ic Offset		A
eMotor B Current Ia Offset		A
eMotor B Current Ib Offset		A
eMotor B Current Ic Offset		A
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		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		A
eMotor B Lifetime General retry Events		
eMotor B key Cycle max Voltage		Volts
eMotor B key Cycle max Phase Current		A
eMotor B key Cycle General Retry Events		
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 | P1AED-00 | Stored | MCPB High Voltage Battery Voltage Sensor Circuit Performance-

NAME	VALUE	UNITS
DTC	1A ED 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	True	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	True	
DTC Extended Data Record Number	10	
Occurrence flag	Occurrence	
Original Odometer Value	907.7	miles
Most Recent Odometer Value	907.7	miles
Frequency Counter	1	
Ignition Cycle Counter	0	
Microcontroller reset reason - Core 0	FFFF0003	
Microcontroller reset reason - Core 1	Power Up	
Real time clock	951796224	sec
RAM stamps keyOn	375	sec
RAM Stamps	4276	Min
Accelerator Pedal Position	0	%
Engine Coolant Temperature	176	°F
Engine Speed	0	rpm
Vehicle Speed	0.0000	MPH
HV Battery SOC	66	%
Brake Switch Status	Not Applied	
Battery Feed Voltage 1 Sense	12.312	Volts
Battery Feed Voltage 2 Sense	12.312	Volts
Battery Feed Voltage 3 Sense	12.312	Volts
Internal EPS Voltage Sense A	0.360	Volts
Internal EPS Voltage Sense B	0.360	Volts
Hybrid System State	SNA	
Outside Air Temperature	59.9	°F
Ignition State	Ignition Off/ACC	
Propulsion System Active	False	
HV Contactor Status	Closed	
APM Status	Off	
Impact Event	False	
PRND Position Display	P	

Distance Travelled with Light ON	0	miles
HV Battery Sleep Time	0	Days
eMotor A Shutdown History [0]	147-High Voltage Rationality With Battery	
eMotor A Shutdown History [1]	0-NO_FAULT	
eMotor A Shutdown History [2]	0-NO_FAULT	
eMotor A Fault History [0]	147-High Voltage Rationality With Battery	
eMotor A Fault History [1]	42-High Voltage Voltage Rationality	
eMotor A Fault History [2]	0-NO_FAULT	
eMotor A Fault History [3]	0-NO_FAULT	
eMotor A Fault History [4]	0-NO_FAULT	
eMotor A Fault History [5]	0-NO_FAULT	
eMotor B Shutdown History [0]	147-High Voltage Rationality With Battery	
eMotor B Shutdown History [1]	0-NO_FAULT	
eMotor B Shutdown History [2]	0-NO_FAULT	
eMotor B Fault History [0]	147-High Voltage Rationality With Battery	
eMotor B Fault History [1]	42-High Voltage Voltage Rationality	
eMotor B Fault History [2]	0-NO_FAULT	
eMotor B Fault History [3]	0-NO_FAULT	
eMotor B Fault History [4]	0-NO_FAULT	
eMotor B Fault History [5]	0-NO_FAULT	
eMotor A FA Speed or Position Fault Active	False	
eMotor A FA Motor Temperature Fault Active	False	
eMotor A FA inverter Temperature A Fault Active	False	
eMotor A FA inverter Temperature B Fault Active	False	
eMotor A FA inverter Temperature C Fault Active	False	
eMotor A FA DC Current Fault Active	False	
eMotor A FA DC Voltage Fault Active	False	
eMotor A FA Acceleration Fault Active	False	
eMotor A FA Rotor Temperature Fault Active	False	
eMotor A FA Capacitor Temperature Fault active	False	
eMotor A FA Current Sensor A Fault Active	False	
eMotor A FA Current Sensor B Fault Active	False	
eMotor A FA Current Sensor C Fault Active	False	
eMotor A FA Postion Sensor Fault Active	False	
eMotor A FA DC Voltage Out of Range Fault Active	False	
eMotor A FA Reserved	Undefined	
eMotor B FA Speed or Position Fault Active	False	
eMotor B FA Motor Temperature Fault Active	False	
eMotor B FA Inverter Temperature A Fault Active	False	
eMotor B FA Inverter Temperature B Fault Active	False	
eMotor B FA Inverter Temperature C Fault Active	False	
eMotor B FA HV input Current Fault Active	False	
eMotor B FA HV Input Voltage Fault Active	False	
eMotor B FA Acceleration Fault Active	False	

eMotor B FA Rotor Temperature Fault Active	False	
eMotor B FA Capacitor Temperature Fault Active	False	
eMotor B FA Current Sensor A Fault Active	False	
eMotor B FA Current Sensor B Fault Active	False	
eMotor B FA Current Sensor C Fault Active	False	
eMotor B FA Position Sensor Fault Active	False	
eMotor B FA DC Voltage Out of Range Fault Active	False	
eMotor B FA Reserved	Undefined	
eMotor A Current Ia Max	1.20	A
eMotor A Current Ia Min	-0.75	A
eMotor A Current Ib Max	0.65	A
eMotor A Current Ib Min	-0.80	A
eMotor A Current Ic Max	1.00	A
eMotor A Current Ic Min	-0.95	A
eMotor A Current Id Max	0.95	A
eMotor A Current Id Min	-0.85	A
eMotor A Current Iq Max	0.85	A
eMotor A Current Iq Min	-0.85	A
eMotor A Current Sum Max	1.90	A
eMotor A Current Sum Min	-2.00	A
eMotor A HV Input voltage Max	1.70	Volts
eMotor A HV Input voltage Min	1.28	Volts
eMotor A speed max mrads	2.3125	rad/s
eMotor A speed min mrads	-2.3125	rad/s
eMotor B Current Ia Max	1.15	A
eMotor B Current Ia Min	-1.30	A
eMotor B Current Ib Max	1.35	A
eMotor B Current Ib Min	-1.10	A
eMotor B Current Ic Max	1.00	A
eMotor B Current Ic Min	-0.95	A
eMotor B Current Id Max	0.00	A
eMotor B Current Id Min	-0.10	A
eMotor B Current Iq Max	0.00	A
eMotor B Current Iq Min	-0.15	A
eMotor B current Sum Max	2.05	A
eMotor B current sum Min	-1.85	A
eMotor B HV Input Voltage Max	1.64	Volts
eMotor B HV Input Voltage Min	1.18	Volts
eMotor B speed Max mrads	0.0625	rad/s
eMotor B speed Min mrads	-0.0625	rad/s
eMotor A Current Ia Offset	-2.20	A
eMotor A Current Ib Offset	-2.65	A
eMotor A Current Ic Offset	-0.70	A
eMotor B Current Ia Offset	-2.20	A

eMotor B Current Ib Offset	-2.65	A
eMotor B Current Ic Offset	-0.70	A
eMotor A HV Battery Voltages	366.80	Volts
eMotor A HV input Voltages	1.56	Volts
eMotor B HV Battery Voltages	366.80	Volts
eMotor B HV input Voltages	1.36	Volts
eMotor A Motoring Torque Limit	39.09	Ft-Lbs
eMotor A Regenerative Torque Limit	-39.09	Ft-Lbs
eMotor B Motoring Torque Limit	0.00	Ft-Lbs
eMotor B Regenerative Torque Limit	0.00	Ft-Lbs
eMotor A Torque command	0.00	Ft-Lbs
eMotor A Torque achieved	-0.01	Ft-Lbs
eMotor A speed RPM	0	rpm
eMotor B Torque command	0.00	Ft-Lbs
eMotor B Torque achieved	0.00	Ft-Lbs
eMotor B Speed RPM	0	rpm
eMotor A Temperature Stator	95	°F
eMotor A Temperature Inverter Model	32	°F
eMotor A Temperature Inverter 0	75	°F
eMotor A Temperature Inverter 1	73	°F
eMotor A Temperature Inverter 2	72	°F
eMotor A Temperature Coolant Inlet	32	°F
eMotor A Temperature Coolant Outlet	32	°F
eMotor A Temperature PCB	32	°F
eMotor A Temperature Rotor	32	°F
eMotor A OS Runtime Seconds	370	sec
eMotor B OS Runtime Seconds	371	sec
eMotor B Temperature Stator	145	°F
eMotor B Temperature Inverter Model	32	°F
eMotor B Temperature Inverter 0	68	°F
eMotor B Temperature Inverter 1	73	°F
eMotor B Temperature Inverter 2	84	°F
eMotor B Temperature coolant Inlet	32	°F
eMotor B Temperature coolant outlet	32	°F
eMotor B Temperature PCB	32	°F
eMotor B Temperature Rotor	32	°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	402.24	Volts
eMotor A Lifetime Max Phase Current	381.30	A
eMotor A Lifetime General Retry Events	0	
eMotor A Key Cycle Max Voltage	377.72	Volts
eMotor A Key Cycle Max phase Current	26.55	A

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	402.78	Volts
eMotor B Lifetime Max Phase Current	705.45	A
eMotor B Lifetime General retry Events	0	
eMotor B key Cycle max Voltage	377.86	Volts
eMotor B key Cycle max Phase Current	620.45	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	59143	Year
GPS Date - Month	2	
GPS Date - Day	9	Days
UTC Time - Hours	22	Hours
UTC Time - Minutes	59	
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	319	ms

HCP | U0073-00 | Stored | Hybrid/EV Bus Off-

NAME	VALUE	UNITS
DTC	C0 73 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	True	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	True	
DTC Extended Data Record Number	01	
Occurrence flag	Occurrence	
Original Odometer Value	907.5	miles
Most Recent Odometer Value	907.7	miles
Frequency Counter	26	
Ignition Cycle Counter	0	
Microcontroller reset reason - Core 0	FFFF0003	
Microcontroller reset reason - Core 1	Power Up	
Real time clock	951857024	sec
RAM stamps keyOn	15	sec
RAM Stamps	4327	Min
Accelerator Pedal Position	0	%
Barometric Pressure	15	PSI

Engine Coolant Temperature	176	°F
Engine Speed	0	rpm
Vehicle Speed	0.0000	MPH
HV Battery SOC	60	%
Brake Switch Status	Not Applied	
Battery Feed Voltage 1 Sense	11.880	Volts
Battery Feed Voltage 2 Sense	11.880	Volts
Battery Feed Voltage 3 Sense	11.808	Volts
Internal EPS Voltage Sense A	0.000	Volts
Internal EPS Voltage Sense B	0.000	Volts
Hybrid System State	SNA	
Actual Torque - Motor A	-0.092	Ft-Lbs
Actual Torque - Motor B	0.000	Ft-Lbs
Available Motor Torque - Motor A	38.993	Ft-Lbs
Available Motor Torque - Motor B	0.000	Ft-Lbs
Available Regen Torque - Motor A	-38.993	Ft-Lbs
Available Regen Torque - Motor B	0.000	Ft-Lbs
Commanded Torque - Motor A	0.000	Ft-Lbs
Commanded Torque - Motor B	0.000	Ft-Lbs
Motor A - Inverter Current - phase A	-4	AMP
Motor A - Inverter Current - phase B	-4	AMP
Motor A - Inverter Current - phase C	-4	AMP
Motor B - Inverter Current - phase A	-4	AMP
Motor B - Inverter Current - phase B	-4	AMP
Motor B - Inverter Current - phase C	-4	AMP
Motor A Resolver Angle	314	Degree
Motor B Resolver Angle	Not Programmed	Degree
Motor A Temp Sensor	61	°F
Motor B Temp Sensor	212	°F
Outside Air Temperature	167.0	°F
Ignition State	Reserved	
HCP ePT Wake-Up Output	Off	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
Propulsion System Active	False	
HV Contactor Status	Open	
HV Battery Voltage from BPCM	180.00	Volts
Electric Motor A Speed	0.0	rpm
Electric Motor B Speed	0.0	rpm
PIM DC Link Voltage - A	0	Volts
PIM DC Link Voltage - B	0	Volts
Inverter A IGBT Temperature for phase A	57	°F
Inverter A IGBT Temperature for phase B	55	°F
Inverter A IGBT Temperature for phase C	54	°F

Inverter B IGBT Temperature for phase A	50	°F
Inverter B IGBT Temperature for phase B	55	°F
Inverter B IGBT Temperature for phase C	68	°F
APM Status	Idle	
Impact Event	False	
PRND Position Display	P	
HCP System Shutdown Command	Default	
PHEV Charging Status	No Charging	
Distance Travelled with Light ON	0	miles
OBCM Operating Mode	Idle	
J1772 Prox Detected State	Prox Circuit Low	
HV Battery Sleep Time	0	Days
SW Build Release Version	PIM_20B_2206A0_P1P2_HCP_	
HCP SW Version	20B	
High Voltage bus voltage fault status	No fault	
HV Battery Voltage	180	Volts
HV Battery Voltage fault status	No fault	
APM HV Voltage	0	Volts
APM HV Voltage fault status	No fault	
ECH HV Voltage	0	Volts
ECH HV Voltage fault status	No fault	
EAC HV Voltage	0	Volts
EAC HV Voltage fault status	No fault	
HV Battery Contactor Status FA	Fault	
DAP Contactor Open	Do Not Open	
Air PTC Heater HV Voltage	0	Volts
Air PTC Heater HV Voltage Fault Status	No fault	
DBK Heater HV Voltage	0	Volts
DBK Heater HV Voltage Fault Status	No fault	
High Voltage Interlock Status	Interlock Passed	
Engine WarmpUp Cycle Complete	Not Completed	
Charging System Status	Not Charging	
Charging Level	Default	
High Voltage Contactor Control	Open	
GPS Date - Year	59143	Year
GPS Date - Month	2	
GPS Date - Day	10	Days
UTC Time - Hours	15	Hours
UTC Time - Minutes	51	
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	206	ms

ABSO | U0074-00 | Stored | Dedicated Powertrain (D-PT) CAN Bus Off-

NAME	VALUE	UNITS

DTC	C0 74 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	True	
Occurrence flag	Error	
Controller Event	No	
Mirror Memory	No	
Undervoltage Suspected	No	
Original Odometer Value	139	miles
Most Recent Odometer Value	905	miles
Frequency Counter	41	
Ignition Cycle Counter	3	
Fault Time	0.20	S
Current System Mode	Ignition Run	
Previous System Mode	Engine Running	
Wheel Speed Left Front	0.000	MPH
Rotation Direction Left Front	Invalid	
Wheel Speed Right Front	0.000	MPH
Rotation Direction Right Front	Invalid	
Wheel Speed Left Rear	0.000	MPH
Rotation Direction Left Rear	Invalid	
Wheel Speed Right Rear	0.000	MPH
Rotation Direction Right Rear	Invalid	
Steering Wheel Angle	-11.00	°
Longitudinal Acceleration	-0.35	m/s^2
Yaw Rate	0.12	°/s
Supplier Internal Code	6964	

ABSO | U0402-00 | Stored | Implausible Data Received From TCM-

NAME	VALUE	UNITS
DTC	C4 02 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	True	

Occurrence flag	Error	
Controller Event	No	
Mirror Memory	No	
Undervoltage Suspected	No	
Original Odometer Value	139	miles
Most Recent Odometer Value	905	miles
Frequency Counter	6	
Ignition Cycle Counter	18	
Fault Time	249.00	S
Current System Mode	Engine Running	
Previous System Mode	Engine Running	
Wheel Speed Left Front	0.035	MPH
Rotation Direction Left Front	Invalid	
Wheel Speed Right Front	0.035	MPH
Rotation Direction Right Front	Invalid	
Wheel Speed Left Rear	0.035	MPH
Rotation Direction Left Rear	Invalid	
Wheel Speed Right Rear	0.035	MPH
Rotation Direction Right Rear	Invalid	
Steering Wheel Angle	-6.00	°
Longitudinal Acceleration	-0.73	m/s^2
Yaw Rate	0.61	°/s
Supplier Internal Code	13105	

ABSO | C121C-00 | Stored | Torque Request Signal Denied-

NAME	VALUE	UNITS
DTC	52 1C 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	True	
Warning Indicator Requested	False	
Occurrence flag	Error	
Controller Event	No	
Mirror Memory	No	
Undervoltage Suspected	No	
Original Odometer Value	139	miles
Most Recent Odometer Value	905	miles
Frequency Counter	3	
Ignition Cycle Counter	2	
Fault Time	221.40	S

Current System Mode	Engine Running	
Previous System Mode	Engine Running	
Wheel Speed Left Front	10.835	MPH
Rotation Direction Left Front	Invalid	
Wheel Speed Right Front	10.835	MPH
Rotation Direction Right Front	Invalid	
Wheel Speed Left Rear	10.870	MPH
Rotation Direction Left Rear	Invalid	
Wheel Speed Right Rear	10.835	MPH
Rotation Direction Right Rear	Invalid	
Steering Wheel Angle	8.00	°
Longitudinal Acceleration	-0.65	m/s^2
Yaw Rate	0.00	°/s
Supplier Internal Code	13232	

DASM | C2225-00 | Stored | PCM Disabled ECU-

NAME	VALUE	UNITS
DTC	62 25 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	
Occurrence flag	Error	
Original Odometer Value	905	miles
Most Recent Odometer Value	905	miles
Frequency Counter	1	
Operation Cycle Counter	3	
Vehicle Speed	41	MPH
Ignition Voltage	14.3	
System Voltage	14.2	Volts

DASM | C2227-00 | Stored | ABS Disabled ECU-

NAME	VALUE	UNITS
DTC	62 27 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	

Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	
Occurrence flag	Error	
Original Odometer Value	905	miles
Most Recent Odometer Value	905	miles
Frequency Counter	22	
Operation Cycle Counter	3	
Vehicle Speed	41	MPH
Ignition Voltage	14.2	
System Voltage	14.2	Volts

DASM | U0402-00 | Stored | Implausible Data Received From TCM-

NAME	VALUE	UNITS
DTC	C4 02 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	
Occurrence flag	Error	
Original Odometer Value	905	miles
Most Recent Odometer Value	905	miles
Frequency Counter	1	
Operation Cycle Counter	26	
Vehicle Speed	41	MPH
Ignition Voltage	14.2	
System Voltage	14.2	Volts

IDCM | P1ABC-00 | Stored | APM HV Battery System Voltage Low-

NAME	VALUE	UNITS
DTC	1A BC 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	
DTC Extended Data Record Number - All	01	
Occurrence flag	Error	

Original Odometer Value	905	miles
Most Recent Odometer Value	905	miles
Frequency Counter	1	
Ignition Cycle Counter	4	
APM High Voltage DC Current Set Point	7.0000	AMP
APM Low Voltage DC Current Set Point	100.0000	AMP
HCP Commanded APM Operating Mode	Buck CV	
APM High Voltage DC Voltage Set Point	300.0000	Volt
Low voltage battery voltage from HCP	14.3200	Volt
APM Low Voltage DC Voltage Set Point	14.44	Volt
APM Internal Mode	Not in Buck Mode	
APM Wake Up Status	APM Awake	
APM Wake Up Reason	Wake up 1	
HV Contactor Status	Closed	
HV Battery Voltage from BPCM	366.80	Volt
APM Estimated Power	0	Watt
APM HV side Current Feedback	0.1000	AMP
APM LV side Current Feedback	0.1000	AMP
APM Operation Mode Status Reported from APM	Idle	
APM HV Side Voltage Feedback	44.8750	Volt
APM LV Side Voltage Feedback	12.1800	Volt
APM Current Limit Mode	No	
APM Power Limit Mode	No	
APM HV Over V Status	No	
APM LV High I Status	No	
APM LV High V Status	No	
APM LV Low V Status	No	
CurrentFailSts_APM	Yes	
GenericFailSts_APM	Yes	
APM Derating Mode Status	No de-rating	
APM Derating Reason	Default (Normal Operation)	
APM Failure Mode Status	Failure Mode	
APM Failure Reason	Failure because of low voltage at HV / Failure2	
APM Temp One	88	°F
APM Temp Cold Plate	77	°F
APM Temp Two	79	°F
APM Util Pct of DC/DC	0	%
APM Derating Power	0	Watt
APM Batt Feed Volt	12.3594	Volt
APM I DC HV Set P Feedback	7	AMP
APM LV I Set P Feedback	100.0000	AMP
APM HV V Set P Feedback	300.0000	Volt
APM V DC LV Set P Feedback	14.44	Volt
APM Input Power	0.00	Watt

APM Output Power	0.00	Watt
APM_CurrentOperTime	368	sec
APM_TotalOperTime	71	Hours
DTC Extended Data Record Number - Record #2	00	
OBCM Status AC Present	AC Not OK	
AC Line Low	Not Valid	
AC Line High	Not Valid	
AC Side Current	0.00	Amps
AC Side Volt	0.0	Volts
HCP (EVCU) AC Current Max Cal	-32.00	Amps
HCP (EVCU) Voltage Request	9	Volts
HCP (EVCU) Current Request	0.00	AMP
Battery Not Detected	False	
Battery Voltage Under Min	Not Valid	
Battery Voltage Over Max	Not Valid	
Battery Side Current	0.10	Amps
Battery Side Voltage	54.0	Volts
OBCM Charge Current Available	0.00	AMP
BPCM HV Battery Contactor Open	False	
HV OC	False	
HV OV	False	
SBC Bus Off	False	
CANSIP Bus Off	True	
HCP (EVCU) HV Current Max Cal	29.50	Amps
HCP (EVCU) HV Volt Max Cal	408	Volt
HCP (EVCU) HV Volt Min Cal	274	Volt
OBCM Temperature 1	142	°F
OBCM Temperature 2	77	°F
OBCM Temperature 3	-38	°F
OBCM Temperature 4	75	°F
NTC1 OT	False	
NTC2 OT	False	
NTC3 OT	True	
NTC4 OT	False	
External OBCM Inlet Temperature (CAN)	77	°F
J1772 ICA	0	AMP
J1772 S2 Close	Open	
J1772 Stat	State Not Programmed	
J1772 S2 Status	Open	
Control Pilot Amplitude	8.234	Volts
Control Pilot Duty Cycle	0.00	%
Control Pilot Frequency	No Signal	Hz
EVSE Pilot Stat	NO EVSE	
Prox Stat	Prox Out	

Prox Voltage	4.465	Volt
OBC Charge Time	0	sec
OBC Charge Tml	34	hrs
OBC Idle Time	0	sec
OBC Idle Tml	0	hrs
Watt-Hours of AC Power	35905	W-Hrs
Watt Hours of Charge the HV Bus	25196	W-Hrs
OBCM Mode	UTC	
OBCM Charger Ready	Off	
OBCM WU Status	Off	
Charge Enable Status	Chrg Disable	
HCP (EVCU) Shutdown Command	EVCU Operational	
HCP (EVCU) Enable Charge Command	Charge disable	
HCP (EVCU) OBC Mode Request	Idle	
Generic Fail Sts	At Least One DTC set on Sys Mem	
Chrg Fail Sts	Faulted - Charging Inhibited	
OBCM Wake Up Reason	Master Wake Up	
OBC Control Mth	Current	
OBCM Deraing Reason	AC Voltage Limit Derating	
Close Chrgr Cntctr	Open	
Chrgr Cntctr Stat	Closed	
Chrg Mode	Charge Mode	
OBCM Fault Reason	Communications Fault	
EPT LOC Diag Enable	Enable LOC Diagnostic	
HCP Shutdown Command	No Shutdown	
HV Battey Contactor Open	False	
BPCM Request for HV Contactor	False	
HV Contactor Status	Closed	
Ignition on Time for DTC	360	sec
Module A Primary - PFC Temperature	30	°F
Module A Primary - LLC Temperature	106	°F
Module A Secondary - Buck Temperature	-40	°F
Module A Secondary - Ambient Temperature	75	°F
Module A Primary - AC Side Volt	0.0	Volts
Module A Primary - AC Side Current	-50.00	Amps
Module A Secondary - Battery Side Voltage	52.6	Volts
Module A Secondary - Battery Side Current	0.00	Amps
Module A Secondary - Buck Output Voltage	278.4	Volts
Module B Primary - PFC Temperature	-40	°F
Module B Primary - LLC Temperature	-38	°F
Module B Secondary - Buck Temperature	-40	°F
Module B Secondary - Ambient Temperature	-40	°F
Module B Primary - AC Side Volt	1.5	Volts
Module B Primary - AC Side Current	8200	Amps

Module B Secondary - Battery Side Voltage	55.4	Volts
Module B Secondary - Battery Side Current	0.00	Amps
Module B Secondary - Buck Output Voltage	0.0	Volts
OBCM - HV Over Voltage Protect	False	
OBCM - LV Aux Over Voltage Protect	False	
OBCM - LV Aux Under Voltage Protect	False	
OBCM - LLC Over Voltage Protect	False	
OBCM - LLC Under Voltage Protect	False	
OBCM - PFC Over Voltage Protect	False	
OBCM - PFC Under Voltage Protect	False	
OBCM - Battery 12V Under Voltage Protect	False	
OBCM - Battery 12V Over Voltage Protect	False	
OBCM - AC Under Voltage Protect	False	
OBCM - AC Over Voltage Protect	False	
OBCM - AC Over Current Protect	False	
OBCM - HV Voltage Over MaxCal Protect	False	
OBCM - HV Over Current Protect	False	
OBCM - Power Stage Over Voltage Protect	False	
OBCM - Internal Memory Fault	False	
OBCM - Over Temperature Protect	False	
OBCM - HCP Loss of Communication Protect	False	
OBCM - CAN Bus Off	True	
OBCM - Pilot Duty Fault	False	
OBCM - Loss BPCM Communication Protect	False	
OBCM - Prox Range To Low	False	
OBCM - Prox Range To High	False	
OBCM - HV Voltage Under MinCal Protect	False	
OBCM - SPI Communication Fault	False	
OBCM - WakeUp Output Stuck Low	False	
OBCM - Pilot Short To Battery	False	
OBCM - WakeUp Output Stuck High	False	
OBCM - ORC Loss of Communication	False	
OBCM - HV Battery Not Contact	False	
OBCM - Loss Communication Protect	True	
OBCM - Receive HV Battery Contact Open From BPCM	False	
OBCM - Secondary Aux Over Voltage Protect	False	
OBCM - Secondary Aux Under Voltage Protect	False	
OBCM - Primary Aux Over Voltage Protect	False	
OBCM - Primary Aux Under Voltage Protect	False	
OBCM - Stuck Shutdown	False	
OBCM - Cycle Shutdown	False	
OBCM - HV Under Voltage Protect	False	
OBCM - Vehicle Impact	False	
OBCM - ARC/CRC Fault	False	

OBCM - AC Contact Welded Fault	False	
Control Pilot Open fault	False	
Prox open fault	False	
OBCM - Internal S2 Switch Low Fault	False	
OBCM - Internal S2 Switch High Fault	False	
OBCM - Pilot Range Fault	False	
OBCM - Prox Range Fault	False	
force shutdown fault	False	
pilot signal wake up issue becase of EVSE	False	
HCP stuck low fault	False	
HCP stuck High fault	False	
Plant mode flag	False	
Retry fault flag	False	
Loss SBC communcation (SPI)	False	
pilto input short to battery fault in Driver mode detecting	False	
pilot input short to ground fault	False	
pilot short to ground fault in driver mode detecting	False	
Charging ready line open fault	False	
Pilot frequency range fault	False	
OBCM - Internal S2 Switch High Fault in Driver mode detecting	False	
Module A Primary - AC Under Voltage Protect	False	
Module A Primary - PFC Power Limit	False	
Module A Primary - PFC Enable States	False	
Module A Primary - LLC Enable States	False	
Module A Primary - PFC Under Voltage Protect	False	
Module A Primary - PFC Over Voltage Protect	False	
Module A Primary - Over Temperature Protect	False	
Module A Primary - Hot Warning	False	
Module A Primary - AC Present	False	
Module A Primary - PFC Over Temperature Protect	False	
Module A Primary - LLC Over Temperature Protect	False	
Module A Primary - PFC Hot Warning	False	
Module A Primary - LLC Hot Warning	False	
Module A Primary - AC Over Voltage Protect	False	
Module A Primary - Relay Enable States	False	
Module A Primary - Aux Over Voltage Protect	False	
Module A Primary - Aux Under Voltage Protect	False	
Module A Primary - Secondary Micro Enable Command	False	
Module A Primary - AC Vin Lost	False	
Module A Primary - Loss Communication Protect	False	
Module A Primary - Standby Mode	False	
Module A Primary - Operate Mode	False	
Module A Primary - Shutdown Mode	False	
Module A Secondary - Aux Enable States	False	

Module A Secondary - HV Enable States	False	
Module A Secondary - LLC Under Voltage Protect	False	
Module A Secondary - LLC Over Voltage Protect	False	
Module A Secondary - HV Over Voltage Protect	False	
Module A Secondary - HV Over Current Protect	False	
Module A Secondary - Over Temperature Protect	False	
Module A Secondary - Hot Warning	False	
Module A Secondary - HV Over Temperature Protect	False	
Module A Secondary - Ambient Over Temperature Protect	False	
Module A Secondary - HV Hot Warning	False	
Module A Secondary - Ambient Hot Warning	False	
Module A Secondary - Aux Over Voltage Protect	False	
Module A Secondary - Aux Under Voltage Protect	False	
Module A Secondary - Loss Primary Communication Protect	False	
Module A Secondary - LV Micro Enable Command	False	
Module A Secondary - Loss LV Communication Protect	False	
Module A Secondary - Primary Turn On States	False	
Module A Secondary - Primary Shutdown States	False	
Module A Secondary - HV Under Voltage Protect	False	
Module A Secondary - Standby Mode	False	
Module A Secondary - Operate Mode	False	
Module A Secondary - Shutdown Mode	False	
Module A Secondary - LV Micro Disable Command	False	
Module A Secondary - PFC High Temperature Derating	False	
Module A Secondary - PFC Low Temperature Derating	False	
Module A Secondary - LLC High Temperature Derating	False	
Module A Secondary - LLC Low Temperature Derating	False	
Module A Secondary - HV High Temperature Derating	False	
Module A Secondary - HV Low Temperature Derating	False	
Module A Secondary - Ambient High Temperature Derating	False	
Module A Secondary - Ambient Low Temperature Derating	False	
Module A Secondary - AC Input Voltage Derating	False	
Module A Secondary - HV Output Voltage Derating	False	
Module B Primary - AC Under Voltage Protect	False	
Module B Primary - PFC Power Limit	False	
Module B Primary - PFC Enable States	False	
Module B Primary - LLC Enable States	False	
Module B Primary - PFC Under Voltage Protect	False	
Module B Primary - PFC Over Voltage Protect	False	
Module B Primary - Over Temperature Protect	False	
Module B Primary - Hot Warning	False	
Module B Primary - AC Present	False	
Module B Primary - PFC Over Temperature Protect	False	
Module B Primary - LLC Over Temperature Protect	False	

Module B Primary - PFC Hot Warning	False	
Module B Primary - AC Over Voltage Protect	False	
Module B Primary - LLC Hot Warning	False	
Module B Primary - Relay Enable States	False	
Module B Primary - Aux Over Voltage Protect	False	
Module B Primary - Aux Under Voltage Protect	False	
Module B Primary - Secondary Micro Enable Command	False	
Module B Primary - AC Vin Lost	False	
Module B Primary - Loss Communication Protect	False	
Module B Primary - Standby Mode	False	
Module B Primary - Operate Mode	False	
Module B Primary - Shutdown Mode	False	
Module B Secondary - Aux Enable States	False	
Module B Secondary - HV Enable States	False	
Module B Secondary - LLC Under Voltage Protect	False	
Module B Secondary - LLC Over Voltage Protect	False	
Module B Secondary - HV Over Voltage Protect	False	
Module B Secondary - HV Over Current Protect	False	
Module B Secondary - Over Temperature Protect	False	
Module B Secondary - Hot Warning	False	
Module B Secondary - HV Over Temperature Protect	False	
Module B Secondary - Ambient Over Temperature Protect	False	
Module B Secondary - HV Hot Warning	False	
Module B Secondary - Ambient Hot Warning	False	
Module B Secondary - Aux Over Voltage Protect	False	
Module B Secondary - Aux Under Voltage Protect	False	
Module B Secondary - Loss Primary Communication Protect	False	
Module B Secondary - LV Micro Enable Command	False	
Module B Secondary - Loss LV Communication Protect	False	
Module B Secondary - Primary Turn On States	False	
Module B Secondary - Primary Shutdown States	False	
Module B Secondary - HV Under Voltage Protect	False	
Module B Secondary - Standby Mode	False	
Module B Secondary - Operate Mode	False	
Module B Secondary - Shutdown Mode	False	
Module B Secondary - LV Micro Disable Command	False	
Module B Secondary - PFC High Temperature Derating	False	
Module B Secondary - PFC Low Temperature Derating	False	
Module B Secondary - LLC High Temperature Derating	False	
Module B Secondary - LLC Low Temperature Derating	False	
Module B Secondary - HV High Temperature Derating	False	
Module B Secondary - HV Low Temperature Derating	False	
Module B Secondary - Ambient High Temperature Derating	False	
Module B Secondary - Ambient Low Temperature Derating	False	

Module B Secondary - AC Input Voltage Derating	False	
Module B Secondary - HV Output Voltage Derating	False	
SBC State_DF00	02	
SBC State_DF80	84	
SBC State_E100	03	
SBC State_E180	02	
SBC State_E300	11	
SBC State_E500	00	
SBC State_E580	04	
GPS Date - Year	59143	Year
GPS Date - Month	2	
GPS Date - Day	9	Days
UTC Time - Hours	22	Hours
UTC Time - Minutes	56	
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	350	ms

IDCM | U0074-00 | Stored | Dedicated Powertrain (D-PT) CAN Bus Off-

NAME	VALUE	UNITS
DTC	C0 74 00	
Test Failed	False	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	
DTC Extended Data Record Number - All	01	
Occurrence flag	Error	
Original Odometer Value	905	miles
Most Recent Odometer Value	905	miles
Frequency Counter	1	
Ignition Cycle Counter	4	
APM High Voltage DC Current Set Point	7.0000	AMP
APM Low Voltage DC Current Set Point	100.0000	AMP
HCP Commanded APM Operating Mode	Buck CV	
APM High Voltage DC Voltage Set Point	300.0000	Volt
Low voltage battery voltage from HCP	14.3200	Volt
APM Low Voltage DC Voltage Set Point	14.44	Volt
APM Internal Mode	Voltage control mode	
APM Wake Up Status	APM Awake	
APM Wake Up Reason	Wake up 1	
HV Contactor Status	Closed	

HV Battery Voltage from BPCM	366.80	Volt
APM Estimated Power	0	Watt
APM HV side Current Feedback	1.7000	AMP
APM LV side Current Feedback	41.9500	AMP
APM Operation Mode Status Reported from APM	Buck CV	
APM HV Side Voltage Feedback	364.2500	Volt
APM LV Side Voltage Feedback	14.3850	Volt
APM Current Limit Mode	No	
APM Power Limit Mode	No	
APM HV Over V Status	No	
APM LV High I Status	No	
APM LV High V Status	No	
APM LV Low V Status	No	
CurrentFailSts_APM	No	
GenericFailSts_APM	No	
APM Derating Mode Status	No de-rating	
APM Derating Reason	Default (Normal Operation)	
APM Failure Mode Status	Failure Mode	
APM Failure Reason	Failure because of CAN bus off/Failure 28	
APM Temp One	115	°F
APM Temp Cold Plate	77	°F
APM Temp Two	95	°F
APM Util Pct of DC/DC	0	%
APM Derating Power	0	Watt
APM Batt Feed Volt	14.3526	Volt
APM I DC HV Set P Feedback	7	AMP
APM LV I Set P Feedback	100.0000	AMP
APM HV V Set P Feedback	300.0000	Volt
APM V DC LV Set P Feedback	14.44	Volt
APM Input Power	0.00	Watt
APM Output Power	0.00	Watt
APM_CurrentOperTime	220	sec
APM_TotalOperTime	71	Hours
DTC Extended Data Record Number - Record #2	00	
OBCM Status AC Present	AC Not OK	
AC Line Low	Not Valid	
AC Line High	Not Valid	
AC Side Current	0.00	Amps
AC Side Volt	0.0	Volts
HCP (EVCU) AC Current Max Cal	-32.00	Amps
HCP (EVCU) Voltage Request	9	Volts
HCP (EVCU) Current Request	0.00	AMP
Battery Not Detected	False	
Battery Voltage Under Min	Not Valid	

Battery Voltage Over Max	Not Valid	
Battery Side Current	0.10	Amps
Battery Side Voltage	366.0	Volts
OBCM Charge Current Available	0.00	AMP
BPCM HV Battery Contactor Open	False	
HV OC	False	
HV OV	False	
SBC Bus Off	False	
CANSIP Bus Off	True	
HCP (EVCU) HV Current Max Cal	29.50	Amps
HCP (EVCU) HV Volt Max Cal	408	Volt
HCP (EVCU) HV Volt Min Cal	274	Volt
OBCM Temperature 1	158	°F
OBCM Temperature 2	95	°F
OBCM Temperature 3	-38	°F
OBCM Temperature 4	75	°F
NTC1 OT	False	
NTC2 OT	False	
NTC3 OT	True	
NTC4 OT	False	
External OBCM Inlet Temperature (CAN)	77	°F
J1772 ICA	0	AMP
J1772 S2 Close	Open	
J1772 Stat	State Not Programmed	
J1772 S2 Status	Open	
Control Pilot Amplitude	8.257	Volts
Control Pilot Duty Cycle	0.00	%
Control Pilot Frequency	No Signal	Hz
EVSE Pilot Stat	NO EVSE	
Prox Stat	Prox Out	
Prox Voltage	4.480	Volt
OBC Charge Time	0	sec
OBC Charge Tml	34	hrs
OBC Idle Time	0	sec
OBC Idle Tml	0	hrs
Watt-Hours of AC Power	35905	W-Hrs
Watt Hours of Charge the HV Bus	25196	W-Hrs
OBCM Mode	UTC	
OBCM Charger Ready	Off	
OBCM WU Status	Off	
Charge Enable Status	Chrg Disable	
HCP (EVCU) Shutdown Command	EVCU Operational	
HCP (EVCU) Enable Charge Command	Charge disable	
HCP (EVCU) OBC Mode Request	Idle	

Generic Fail Sts	No Functional Fail Present	
Chrg Fail Sts	No Faults detected	
OBCM Wake Up Reason	Master Wake Up	
OBC Control Mth	Current	
OBCM Deraing Reason	AC Voltage Limit Derating	
Close Chrgr Cntctr	Open	
Chrgr Cntctr Stat	Closed	
Chrg Mode	Charge Mode	
OBCM Fault Reason	No Faults detected	
EPT LOC Diag Enable	Enable LOC Diagnostic	
HCP Shutdown Command	No Shutdown	
HV Battey Contactor Open	False	
BPCM Request for HV Contactor	False	
HV Contactor Status	Closed	
Ignition on Time for DTC	210	sec
Module A Primary - PFC Temperature	30	°F
Module A Primary - LLC Temperature	106	°F
Module A Secondary - Buck Temperature	-40	°F
Module A Secondary - Ambient Temperature	75	°F
Module A Primary - AC Side Volt	0.0	Volts
Module A Primary - AC Side Current	-50.00	Amps
Module A Secondary - Battery Side Voltage	366.8	Volts
Module A Secondary - Battery Side Current	0.00	Amps
Module A Secondary - Buck Output Voltage	320.0	Volts
Module B Primary - PFC Temperature	-40	°F
Module B Primary - LLC Temperature	-38	°F
Module B Secondary - Buck Temperature	-40	°F
Module B Secondary - Ambient Temperature	-40	°F
Module B Primary - AC Side Volt	1.5	Volts
Module B Primary - AC Side Current	8200	Amps
Module B Secondary - Battery Side Voltage	365.4	Volts
Module B Secondary - Battery Side Current	0.00	Amps
Module B Secondary - Buck Output Voltage	0.0	Volts
OBCM - HV Over Voltage Protect	False	
OBCM - LV Aux Over Voltage Protect	False	
OBCM - LV Aux Under Voltage Protect	False	
OBCM - LLC Over Voltage Protect	False	
OBCM - LLC Under Voltage Protect	False	
OBCM - PFC Over Voltage Protect	False	
OBCM - PFC Under Voltage Protect	False	
OBCM - Battery 12V Under Voltage Protect	False	
OBCM - Battery 12V Over Voltage Protect	False	
OBCM - AC Under Voltage Protect	False	
OBCM - AC Over Voltage Protect	False	

OBCM - AC Over Current Protect	False	
OBCM - HV Voltage Over MaxCal Protect	False	
OBCM - HV Over Current Protect	False	
OBCM - Power Stage Over Voltage Protect	False	
OBCM - Internal Memory Fault	False	
OBCM - Over Temperature Protect	False	
OBCM - HCP Loss of Communication Protect	False	
OBCM - CAN Bus Off	True	
OBCM - Pilot Duty Fault	False	
OBCM - Loss BPCM Communication Protect	False	
OBCM - Prox Range To Low	False	
OBCM - Prox Range To High	False	
OBCM - HV Voltage Under MinCal Protect	False	
OBCM - SPI Communication Fault	False	
OBCM - WakeUp Output Stuck Low	False	
OBCM - Pilot Short To Battery	False	
OBCM - WakeUp Output Stuck High	False	
OBCM - ORC Loss of Communication	False	
OBCM - HV Battery Not Contact	False	
OBCM - Loss Communication Protect	False	
OBCM - Receive HV Battery Contact Open From BPCM	False	
OBCM - Secondary Aux Over Voltage Protect	False	
OBCM - Secondary Aux Under Voltage Protect	False	
OBCM - Primary Aux Over Voltage Protect	False	
OBCM - Primary Aux Under Voltage Protect	False	
OBCM - Stuck Shutdown	False	
OBCM - Cycle Shutdown	False	
OBCM - HV Under Voltage Protect	False	
OBCM - Vehicle Impact	False	
OBCM - ARC/CRC Fault	False	
OBCM - AC Contact Welded Fault	False	
Control Pilot Open fault	False	
Prox open fault	False	
OBCM - Internal S2 Switch Low Fault	False	
OBCM - Internal S2 Switch High Fault	False	
OBCM - Pilot Range Fault	False	
OBCM - Prox Range Fault	False	
force shutdown fault	False	
pilot signal wake up issue becase of EVSE	False	
HCP stuck low fault	False	
HCP stuck High fault	False	
Plant mode flag	False	
Retry fault flag	False	
Loss SBC communcation (SPI)	False	

pilto input short to battery fault in Driver mode detecting	False	
pilot input short to ground fault	False	
pilot short to ground fault in driver mode detecting	False	
Charging ready line open fault	False	
Pilot frequency range fault	False	
OBCM - Internal S2 Switch High Fault in Driver mode detecting	False	
Module A Primary - AC Under Voltage Protect	False	
Module A Primary - PFC Power Limit	False	
Module A Primary - PFC Enable States	False	
Module A Primary - LLC Enable States	False	
Module A Primary - PFC Under Voltage Protect	False	
Module A Primary - PFC Over Voltage Protect	False	
Module A Primary - Over Temperature Protect	False	
Module A Primary - Hot Warning	False	
Module A Primary - AC Present	False	
Module A Primary - PFC Over Temperature Protect	False	
Module A Primary - LLC Over Temperature Protect	False	
Module A Primary - PFC Hot Warning	False	
Module A Primary - LLC Hot Warning	False	
Module A Primary - AC Over Voltage Protect	False	
Module A Primary - Relay Enable States	False	
Module A Primary - Aux Over Voltage Protect	False	
Module A Primary - Aux Under Voltage Protect	False	
Module A Primary - Secondary Micro Enable Command	False	
Module A Primary - AC Vin Lost	False	
Module A Primary - Loss Communication Protect	False	
Module A Primary - Standby Mode	False	
Module A Primary - Operate Mode	False	
Module A Primary - Shutdown Mode	False	
Module A Secondary - Aux Enable States	False	
Module A Secondary - HV Enable States	False	
Module A Secondary - LLC Under Voltage Protect	False	
Module A Secondary - LLC Over Voltage Protect	False	
Module A Secondary - HV Over Voltage Protect	False	
Module A Secondary - HV Over Current Protect	False	
Module A Secondary - Over Temperature Protect	False	
Module A Secondary - Hot Warning	False	
Module A Secondary - HV Over Temperature Protect	False	
Module A Secondary - Ambient Over Temperature Protect	False	
Module A Secondary - HV Hot Warning	False	
Module A Secondary - Ambient Hot Warning	False	
Module A Secondary - Aux Over Voltage Protect	False	
Module A Secondary - Aux Under Voltage Protect	False	
Module A Secondary - Loss Primary Communication Protect	False	

Module A Secondary - LV Micro Enable Command	False	
Module A Secondary - Loss LV Communication Protect	False	
Module A Secondary - Primary Turn On States	False	
Module A Secondary - Primary Shutdown States	False	
Module A Secondary - HV Under Voltage Protect	False	
Module A Secondary - Standby Mode	False	
Module A Secondary - Operate Mode	False	
Module A Secondary - Shutdown Mode	False	
Module A Secondary - LV Micro Disable Command	False	
Module A Secondary - PFC High Temperature Derating	False	
Module A Secondary - PFC Low Temperature Derating	False	
Module A Secondary - LLC High Temperature Derating	False	
Module A Secondary - LLC Low Temperature Derating	False	
Module A Secondary - HV High Temperature Derating	False	
Module A Secondary - HV Low Temperature Derating	False	
Module A Secondary - Ambient High Temperature Derating	False	
Module A Secondary - Ambient Low Temperature Derating	False	
Module A Secondary - AC Input Voltage Derating	False	
Module A Secondary - HV Output Voltage Derating	False	
Module B Primary - AC Under Voltage Protect	False	
Module B Primary - PFC Power Limit	False	
Module B Primary - PFC Enable States	False	
Module B Primary - LLC Enable States	False	
Module B Primary - PFC Under Voltage Protect	False	
Module B Primary - PFC Over Voltage Protect	False	
Module B Primary - Over Temperature Protect	False	
Module B Primary - Hot Warning	False	
Module B Primary - AC Present	False	
Module B Primary - PFC Over Temperature Protect	False	
Module B Primary - LLC Over Temperature Protect	False	
Module B Primary - PFC Hot Warning	False	
Module B Primary - AC Over Voltage Protect	False	
Module B Primary - LLC Hot Warning	False	
Module B Primary - Relay Enable States	False	
Module B Primary - Aux Over Voltage Protect	False	
Module B Primary - Aux Under Voltage Protect	False	
Module B Primary - Secondary Micro Enable Command	False	
Module B Primary - AC Vin Lost	False	
Module B Primary - Loss Communication Protect	False	
Module B Primary - Standby Mode	False	
Module B Primary - Operate Mode	False	
Module B Primary - Shutdown Mode	False	
Module B Secondary - Aux Enable States	False	
Module B Secondary - HV Enable States	False	

Module B Secondary - LLC Under Voltage Protect	False	
Module B Secondary - LLC Over Voltage Protect	False	
Module B Secondary - HV Over Voltage Protect	False	
Module B Secondary - HV Over Current Protect	False	
Module B Secondary - Over Temperature Protect	False	
Module B Secondary - Hot Warning	False	
Module B Secondary - HV Over Temperature Protect	False	
Module B Secondary - Ambient Over Temperature Protect	False	
Module B Secondary - HV Hot Warning	False	
Module B Secondary - Ambient Hot Warning	False	
Module B Secondary - Aux Over Voltage Protect	False	
Module B Secondary - Aux Under Voltage Protect	False	
Module B Secondary - Loss Primary Communication Protect	False	
Module B Secondary - LV Micro Enable Command	False	
Module B Secondary - Loss LV Communication Protect	False	
Module B Secondary - Primary Turn On States	False	
Module B Secondary - Primary Shutdown States	False	
Module B Secondary - HV Under Voltage Protect	False	
Module B Secondary - Standby Mode	False	
Module B Secondary - Operate Mode	False	
Module B Secondary - Shutdown Mode	False	
Module B Secondary - LV Micro Disable Command	False	
Module B Secondary - PFC High Temperature Derating	False	
Module B Secondary - PFC Low Temperature Derating	False	
Module B Secondary - LLC High Temperature Derating	False	
Module B Secondary - LLC Low Temperature Derating	False	
Module B Secondary - HV High Temperature Derating	False	
Module B Secondary - HV Low Temperature Derating	False	
Module B Secondary - Ambient High Temperature Derating	False	
Module B Secondary - Ambient Low Temperature Derating	False	
Module B Secondary - AC Input Voltage Derating	False	
Module B Secondary - HV Output Voltage Derating	False	
SBC State_DF00	02	
SBC State_DF80	84	
SBC State_E100	03	
SBC State_E180	02	
SBC State_E300	11	
SBC State_E500	00	
SBC State_E580	04	
GPS Date - Year	59143	Year
GPS Date - Month	2	
GPS Date - Day	9	Days
UTC Time - Hours	22	Hours
UTC Time - Minutes	56	

UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	350	ms

SNAPSHOT DATA SUMMARY

No Snapshot Data available for P1B13-00

No Snapshot Data available for U0074-00

No Snapshot Data available for U0074

No Snapshot Data available for P16FA

No Snapshot Data available for U0402

No Snapshot Data available for U0074-00

No Snapshot Data available for U0073-00

No Snapshot Data available for U0074-00

No Snapshot Data available for U0293-00

No Snapshot Data available for B273C-00

No Snapshot Data available for P0513-00

No Snapshot Data available for P0AFA-00

No Snapshot Data available for P1AEC-00

No Snapshot Data available for P1AED-00

No Snapshot Data available for U0073-00

No Snapshot Data available for U0074-00

No Snapshot Data available for U0402-00

No Snapshot Data available for C121C-00

No Snapshot Data available for C2225-00

No Snapshot Data available for C2227-00

No Snapshot Data available for U0402-00

No Snapshot Data available for P1ABC-00

No Snapshot Data available for U0074-00