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CONFIGURATION REPORT

Vehicle 2020 CHRYSLER PACIFICA (PHEV) 3.6L V6 HYBRID ENGINE
VIN [redacted]

Odometer 1776.2 miles
Publication Date Jul 5, 2021, 2:11:01 PM

ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	[redacted]	[redacted]	PART #
PCM	Powertrain Control Module	CAN-C	68444228AE			68444228AE
ICS	Integrated Center Stack	CAN-I	6UX621X8AA			6UX621X8AA
RFH	Radio Frequency Hub	CAN-C	68453559AB			68453559AB
ESM	Electronic Shifter	CAN-C	68240089AM			68240089AM
ORC	Occupant Restraint	CAN-C	68453076AD			68453076AD
EPS	Electric Power Steering	CAN-C	68460392AA			68460392AA
HVAC	Heat, Ventilation and A/C	CAN-I	68447893AC			68447893AC
DDM	Driver Door Module	CAN-I	68424449AC			68424449AC
PDM	Passenger Door Module	CAN-I	68424448AC			68424448AC
DMRL	Door Module Rear Left	CAN-I	68225096AG			68225096AG
DMRR	Door Module Rear Right	CAN-I	68225096AG			68225096AG
PSDML	Power Sliding Doors (Left)	CAN-I	68369596AD			68369596AD
PSDMR	Power Sliding Doors (Right)	CAN-I	68369596AD			68369596AD
MSM	Memory Seat Module	CAN-I	68321862AC			68321862AC
PLGM	Power Liftgate	CAN-I	68316094AF			68316094AF
CSWM	Comfort Seat Wheel Module	CAN-I	68434912AC			68434912AC
AMP	Amplifier	CAN-I	68448067AA			68448067AA
IPC	Instrument Panel Cluster	CAN-C	68434956AC			68434956AC
PTS	Parktronics	CAN-C	68193775AJ			68193775AJ
SCCM	Steering Column Control Module	CAN-C	68360889AD			68360889AD
BCM	Body Controller	CAN-C	68424601AE			68424601AE

ACC	Adaptive Cruise Control	CAN-C	68417813AF				68417813AF
RADIO	Radio	CAN-I	68461768AD				68461768AD
OCM	Occupant Classification	CAN-C	68403127AA				68403127AA
HVACR	Heat, Ventilation and A/C Rear	CAN-I	68373079AB				68373079AB
LBSS	Left Blind Spot Sensor	CAN-I	04672786AB				04672786AB
RBSS	Right Blind Spot Sensor	CAN-I	04672786AB				04672786AB
FFCM	Forward Facing Camera Module	CAN-C	68493395AA				68493395AA
EDM	External Disc Module	CAN-I	68378304AA				68378304AA
APM	Accessory Power Module	CAN-C	05185046AB				05185046AB
BPCM	Battery Pack Control Module	CAN-C	05193166AD				05193166AD
HCP	Hybrid Control Processor	CAN-C	05190265AF				05190265AF
OBCM	On Board Charging Module	CAN-C	05185047AE				05185047AE
MSMP	Memory Seat Module - Passenger	CAN-I	68321862AC				68321862AC
DSM	Display Screen Module	CAN-I	68316174AC				68316174AC
VRM	Video Routing Module	CAN-I	68376134AG				68376134AG
RCCC	Rear Cabin Comfort Controls	CAN-I	6WL30PD2AA				6WL30PD2AA
CVPM	Central vision processing module	CAN-I	68375113AB				68375113AB
EAC	Electric A/C Compressor	CAN-C	68237995AG				68237995AG
AHCP	Auxiliary Hybrid Control Processor	CAN-C	05190266AF				05190266AF
EBBM	Electronic Brake Booster Module	CAN-C	68461813AB				68461813AB
ABSO	Anti Lock Brakes OBD	CAN-C	68471122AD				68471122AD
SGW	Security Gateway Module	CAN-C	68447193AB				68447193AB

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	CVNS
PCM	USA	1B 47	46 03 01	4419	31D751B0
ICS	USA	0F 0C 00	12 25 00	4700	
RFH	USA / USA	10 17 00	13 09 00	4A00	
ESM	USA / USA	0F 24 00	12 28 FF	4402	
ORC	USA / USA	12 1A 00	13 2E 00	4301	
EPS	USA / USA	12 2A 00	12 1E 01	4502	

HVAC	USA	0E 09 00	13 05 01	4401	
DDM	USA	11 07 00	13 0B 00	4202	
PDM	USA	11 07 00	13 0B 00	4202	
DMRL	USA / USA	10 0B 00	12 0C 00	4201	
DMRR	USA / USA	10 0B 00	12 0C 00	4201	
PSDML	USA / USA	10 17 00	14 10 12	4001	
PSDMR	USA / USA	10 17 00	14 10 12	4001	
MSM	USA	0F 2B 00	10 27 03	4101	
PLGM	USA	17 19 00	18 22 00	4202	
CSWM	USA	11 2A 00	13 2C 00	4302	
AMP	USA	0F 06 01	12 2E 01	4021	
IPC	USA / USA	12 06 00	13 27 00	4704	
PTS	USA	0E 32 00	12 1F 00	4311	
SCCM	USA	13 28 00	13 29 00	4301	
BCM	USA	0D 11 00	13 2C 90	4415	
ACC	USA / USA	14 12 01	14 1D 01	4400	
RADIO	USA	13 31 14	13 31 14	8205	
OCM	USA / USA	11 1F 01	0E 2F 02	4030	
HVACR	USA	0E 09 00	10 03 02	4301	
LBSS	USA / USA	11 30 02	12 0D 00	4202	
RBSS	USA / USA	11 30 02	12 0D 00	4202	
FFCM	USA / USA	11 06 00	13 1E 00	4102	
EDM	USA	12 0A 00	11 08 00	4000	
APM	USA / USA	11 32 00	11 32 00	4001	
BPCM	Not programmed / COUNTRY_SNA	0E 03 00	13 18 03	4005	F5BC8401
HCP	USA	11 1F 04	19 48 01	4005	6AE19B37 847169A3 050DC953
OBCM	USA	0F 0D 00	12 02 00	4002	
MSMP	USA	0F 2B 00	10 27 03	4001	
DSM	USA / USA	13 29 00	12 23 00	4000	
VRM	USA / USA	0F 1C 00	13 26 11	4001	
RCCC	USA	0F 1D 00	13 04 00	4000	
CVPM	USA / USA	11 32 01	12 33 00	4003	
EAC	USA	0E 34 00	12 0F 00	4102	
AHCP	USA	11 1F 04	19 48 01	4000	
EBBM	USA	0E 19 02	14 0D 18	4000	E5898FA5
ABSO	USA	0E 15 02	14 1B 26	4201	4F158D1B
SGW		5	779	4103	

CONFIGURATION

PCM CONFIGURATION

NAME	VALUE	UNITS
Secondary Mass Airflow Sensor Equipped	False	
Active Exhaust Pressure Sensor Equipped	False	

Electronic Parking Brake Equipped	True	
Active Exhaust Valve(s) Equipped	False	
High Side Port Tumble Valve Equipped	False	
Aux Coolant Pump Heater Equipped	False	
Heater Temp Control Valve Equipped	False	
Mechanical Coolant Pump Equipped	False	
Wastegate HBridge Equipped	False	
2.0 Liter I4 Direct Injection Engine	False	
Coolant On-Off Pump Equipped	Not Equipped	
1.0 Liter I3 Engine	False	
Primary Lin Alternator Equipped	Not Equipped	
Variable Valve Lift Equipped	Not Equipped	
Remote Start Present	Present	
Dual Fuel Tank Equipped	False	
Auxillary Coolant Pump Equipped	False	
Cooled EGR Equipped	False	
Dual Alternator Gen1 Capable	False	
A/C Relay Powered from Engine Switched Battery	False	
Supercharger Equipped	False	
Low Temp Radiator Coolant Pump Equipped	False	
PTO System Equipped	False	
CNG Large Gas Tank Equipped	False	
HPT 6-Speed Trans Equipped	False	
Hybrid MEC Shifter Equipped	False	
Engine Idle Shutoff Equipped	False	
ZF 9-Speed Trans Equipped	False	
MDS Equipped	False	
Variable Speed Fuel Pump Equipped	True	
ERS Equipped Indicator	False	
O2 Sensor Bank 1 Sensor 1 Equipped	True	
GPEC2 Equipped	False	
ESIM Equipped	False	
Intake Cam 2 Equipped	True	
Engine Stop Start Equipped	False	
Trans Skip Shift Equipped	False	
VFS Actuators Available Indicator	False	
Transmission Oil Heater Equipped	False	
Secondary Air Equipped	False	
3.5 Liter V6 Engine	False	
O2 Sensor Bank 2 Sensor 2 Equipped	True	
PWM Fan Motor System Equipped	True	
1 Speed Fan Mechanical Relay System Equipped	False	
Vehicle Speed Sensor #1 Calculated from CAN	False	
4.0 Liter I6 Engine	False	

6.1 Liter V8 Engine	False	
Active Engine Mount Equipped	False	
Primary Lin Alternator Equipped	False	
Auxiliary Heater Electric Water Pump Equipped	False	
Sensorless FFV Enabled	False	
Throttle Inlet Temp Sensor Equipped	False	
Electronic Automatic Transmission (EATX) Equipped	False	
WI4 Intake Flow Control Valve Equipped	False	
Wide Range O2 Sensor 1/1 Equipped	False	
2.7 Liter V6 Engine	False	
GPEC2A Equipped	True	
Auxiliary Coolant Pump Heater Equipped	Undefined	
Active Grille Shutter Equipped	False	
Cooled EGR Equipped	False	
GPEC4 Equipped	False	
Unleaded diesel fuel	False	
PTO System Equipped	False	
Supercharger Equipped	False	
WI4 Variable Valve Timing Equipped	True	
Oil Pressure Sensor Enabled	True	
Low Temperature Radiator Coolant Pump Equipped	False	
High Side Port Tumble Valve Equipped	Undefined	
Fiat VIN Learning Strategy Equipped	False	
ICC Cruise Equipped	False	
Starter Relay 2 Equipped	False	
ZF 9-Speed Transmission Equipped	False	
Next Gen Bus Equipped	False	
Humidity, Temperature and Pressure Sensor (LIN) Equipped	False	
3.0 Liter V6 Engine	False	
3.6 Liter V6 Engine	True	
Mechanical Coolant Pump Heater Equipped	False	
Active Exhaust Pressure Sensor Equipped	False	
VMM Equipped	False	
Dual Fuel Pressure Sensor Equipped	False	
Air Shutoff Valve Bank 1 Control Solenoid 2 Equipped	False	
Exhaust Cam 1 Equipped	True	
Trans Reverse Lockout Equipped	False	
Fan Wake Up Relay System Equipped	False	
66RFE / 68RFE	False	
Wastegate H-Bridge Equipped	Undefined	
Brake Pedal Sensor Equipped	False	
Viscosity Sensor Equipped	False	
Coolant On-Off Pump Equipped	False	
AC Equipped	False	

6.4 Liter V8 Engine	False	
Secondary Fuel Pump Equipped	False	
3.7 Liter V6 Engine	False	
Linear PWM Fan Relay System Equipped	False	
CMCV H-Bridge Equipped	Undefined	
Operator Idle Speed Request Equipped	False	
Tumble Generator Valve Equipped	False	
Electric Thermostat Heater Equipped	False	
CUSW PROXI Write Programming Support Enabled	False	
Electronic Throttle Control Equipped	True	
VLP Is Learnable Indicator	False	
AC Equipped Over Bus	False	
2.0 Liter WI4 engine	False	
1.0 Liter I3 Engine	False	
Electric Coolant Valve Equipped	False	
Engine Software In Package	True	
Adaptive Cruise Control Hardware Equipped	False	
Duty Cycle Purge Valve Equipped	True	
GPEC3 Equipped	False	
Air Shutoff Valve Bank 1 Control Solenoid 1 Equipped	False	
40TE / 41TE / 41TEA	False	
45RFE / 545RFE / 65RFE	False	
Coolant On-Off Valve Equipped	False	
Turbocharger Equipped	False	
EMAT (Getrag DCT transmission) Equipped	False	
Adaptive Cruise Control Equipped	True	
Dual Stage Oil Pump Equipped	True	
2.4 Liter WI4 engine	False	
Power Steering Switch Equipped	False	
O2 Sensor Bank 2 Sensor 1 Equipped	True	
Police Package Equipped	False	
3 Speed Fan Mechanical Relay System Equipped	False	
Engine Idle Shutoff Equipped	False	
Fixed displacement AC Equipped	True	
Clutch Interlock Switch Equipped	False	
Intake Cam 1 Equipped	True	
3.8 Liter V6 Engine	False	
Electronic Coolant Pump Equipped	False	
TIP Equipped	False	
Aisin 6-Speed RWD Transmission Equipped	False	
4 Speed Automatic Transmission Equipped	False	
Variable Displacement AC Equipped	False	
Active Exhaust Valve Equipped	False	
Exhaust Cam 2 Equipped	True	

Turbine Volute Valve Actuator Equipped	Undefined	
TOOLCONFIG_OIL_PRESS_ABS_EQUIPPED	True	
Buffered Crank Output for PHEV Engine Pulse Calculation Equipped	True	
Constant Heater Temperature Control Valve Equipped	False	
Continuous Variable Transmission Equipped	False	
3.3 Liter V6 Engine	False	
Brushless PWM Fan Equipped	NOT_FAN_PWM_BOSCH_BRUSHLESS_CNFG	
Electric Water Pump Equipped	False	
1.8 Liter WI4 engine	False	
4.7 Liter V8 Engine	False	
Compressed Natural Gas Equipped	False	
3.2 Liter V6 Engine	False	
Vehicle Speed Sensor #1 Calculated by ECU	False	
SRV Equipped	False	
62TE	False	
Battery Temp Sensor Equipped	False	
HPT 6-Speed Transmission Equipped	False	
DUAL_ALTERNATOR_GEN1_LEARNEDCOPY	False	
CUSW (29-Bit) Equipped	False	
Inrush Current Reduction Relay Equipped	False	
Dual Speed Fuel Pump Equipped	False	
CUSW (11-Bit) Equipped	False	
Shift Indicator Lamp Equipped	False	
VLP Equipped Indicator	False	
2 Speed Fan PWM Relay System Equipped	False	
4 Button Integrated Cruise Control	False	
Direct Injection Equipped	False	
Electronic Vacuum Pump Equipped	False	
Air Shutoff Valve Bank 2 Control Solenoid 2 Equipped	False	
Hybrid Electric Vehicle Equipped	True	
6.2 Liter V8 Engine	False	
5.7 Liter V8 Engine	False	
Wide Range O2 Sensor 2/1 Equipped	False	
Cummins Equipped	False	
Fiat 940 Compact Equipped	False	
A/C Equipped	True	
Knock Sensor 1 Equipped	True	
Yaw Rate Sensor ESC Equipped	False	
Unleaded Gasoline Fuel	True	
Port Flap Valve Equipped	False	
Barometric Sensor Equipped	False	
Auxiliary Coolant Pump Equipped	False	
O2 Sensor Bank 1 Sensor 2 Equipped	True	
42RLE	False	

MTV Solenoid Equipped	False	
Rear Heater Equipped	False	
Transmission Software Included	False	
O2 Sensor Bank 1 Sensor 3 Equipped	False	
ETC Cruise equipped	False	
Dual Fuel Tank Equipped	False	
2 Speed Fan 3 Driver 3 Relay System Equipped	False	
MultiAir Equipped	False	
Linear EGR Equipped	False	
Powernet Equipped	True	
Linear Purge Equipped	False	
Buffered Crank Output for ANC (Active Noise Cancellation) Equipped	True	
2 Speed Fan Mechanical Relay System Equipped	False	
Knock Sensor 2 Equipped	True	
Engine Oil Heater Cooler Equipped	True	
Bi-Directional Crank Sensor Equipped	True	
Dual Fuel Pressure Sensor Equipped	False	
CUSW 4-Button Cruise Equipped	False	
Make Up Air Sensor Equipped	False	
Cylinder Pressure Sensor Equipped	False	
Throttle Inlet Temp Sensor Equipped	False	
5 Button Cruise (LIN) Equipped	True	
Brake Pedal Sensor Equipped	False	
Power Steering Angle Sensor Mandatory	False	
INTAKE O2 SENSOR EQUIPPED	False	
LIN Humidity, Temp, and Pressure Sensor Equipped	False	
Operator Idle Speed Request Equipped	False	
SWAP HARDWIRED BRAKE SWITCH INPUTS	False	
Clutch Sensor Equipped	False	
Mass Airflow System Equipped	False	
Engine Oil Pressure Sensor Type	255	None

ICS CONFIGURATION

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

RFH CONFIGURATION

NAME	VALUE	UNITS
Hardware Configuration: Trunk Door Handle H/W	Simple Switch AP	
Hardware Configuration: Remote Start Antenna	Present	
Hardware Configuration: Front Right Door Handle H/W	Serial AP	
Hardware Configuration: Front Left Door Handle H/W	Serial AP	

Hardware Configuration: Rear Right Door Handle H/W	No AP	
Hardware Configuration: Rear Left Door Handle H/W	No AP	
Valid Key In Ignition	Yes	
Fob Location #3 Successfully Programmed	Yes	
Fob Location #5 Key sense status	Fob is NOT Key Sense	
Secret Key Sent to Body Controller - Original attempt	Yes	
Fob Location #7 Key sense status	Fob is NOT Key Sense	
Fob Location #3 Key sense status	Fob is Key Sense	
Fob Location #7 Successfully Programmed	No	
Fob Location #6 Successfully Programmed	No	
Fob Location #5 Successfully Programmed	No	
Fob Location #8 Key sense status	Fob is NOT Key Sense	
PIN Successfully Programmed	Yes	
RFHub Locked	RFHUB Locked after IAC write	
Fob Location #1 Key sense status	Fob is NOT Key Sense	
Fob Location #4 Key sense status	Fob is NOT Key Sense	
Fob Location #6 Key sense status	Fob is NOT Key Sense	
Fob Location #1 Successfully Programmed	Yes	
Secret Key Sent to Body Controller - Most recent attempt	Yes	
Fob Location #2 Successfully Programmed	Yes	
Fob Location #4 Successfully Programmed	No	
Fob Location #2 Key sense status	Fob is NOT Key Sense	
VIN Successfully Programmed	Yes	
Fob Location #8 Successfully Programmed	No	
Base TPM	False	
Auto Park Present	True	
e-shifter present	True	
Secret Codes Programmed	True	
KeySense Configuration	True	
Ignition system type connected	KIN system	
RKE	True	
Remote Start Present	True	
$0214 Programmed by	Programmed by Supplier EOL	
TPM Auto-Locate Enabled	True	
Keyless Go	True	
Passive Entry	True	
Hybrid Type	PHEV	
Module Configuration Status	True	
Premium TPM	True	
Back Up ECU Configuration 16	True	
Back Up ECU Configuration 14	True	
Back Up ECU Configuration 7	True	
Back Up Vehicle Config 1	True	
Back Up ECU Configuration 10	True	

Back Up ECU Configuration 11	True	
Back Up Vehicle Config 4	True	
Back Up Vehicle Config 3	True	
Back Up Customer Settings Menu 1 (CSM1)	True	
Back Up ECU Configuration 2	True	
Back Up ECU Configuration 1	True	
Back Up ECU Configuration 9	True	
Back Up Programmed ECUs: Cabin Network	True	
Back Up Vehicle Config 5	True	
Back Up ECU Configuration 3	True	
Back Up Customer Settings Menu 2 (CSM2)	True	
Back Up Vehicle Config 6	True	
Back Up ECU Configuration 12	True	
Back Up Programmed ECUs: P/T Chassis Network	True	
Back Up ECU Configuration 4	True	
Back Up ECU Configuration 17	True	
Back Up ECU Configuration 8	True	
Back Up ECU Configuration 13	True	
Back Up Vehicle Config 7	True	
Back Up ECU Configuration 5	True	
Back Up Vehicle Config 2	True	
Back Up ECU Configuration 15	True	
Back Up ECU Configuration 6	True	

ORC CONFIGURATION

NAME	VALUE	UNITS
First Row Driver Seatbelt Buckle Switch	Configured	
Driver Seat Track Position Sensor	Configured	
Second Row Left Seat Side Airbag	Not Configured	
Rollover Sensing	Configured	
Passenger Seatbelt Retractor Pretensioner	Configured	
Passenger Seatbelt Anchor Pretensioner	Configured	
Driver Seatbelt Anchor Pretensioner	Configured	
Left Side Seat Squib 1	Configured	
Driver Frontal Squib 3	Configured	
Passenger Seatbelt Load Limiter	Configured	
Passenger Occupant Detection Sensor	Not Configured	
Passenger Seatbelt Buckle Pretensioner	Not Configured	
Second Row Left seat belt Switch	Not Configured	
Left B-Pillar Impact Acceleration Sensor	Configured	
Right Up-Front Acceleration Sensor	Configured	
Configuration Column Identifier	A3	
Passenger Airbag Disable Indicator	Not Configured	
Passenger Frontal Squib 1	Configured	

Driver Frontal Squib 1	Configured	
Passenger Frontal Squib 3	Configured	
Right Side Seat Squib 1	Configured	
Second Row Right seat belt Switch	Not Configured	
Left Up-Front Acceleration Sensor	Configured	
Right Curtain Squib 1	Configured	
Left C-Pillar Impact Acceleration Sensor	Configured	
Passenger Seat Track Position Sensor	Configured	
Driver Knee Bolster Squib	Configured	
Occupant Classification (OCM)	Configured	
Passenger Frontal Squib 2	Configured	
Driver Frontal Squib 4	Not Configured	
Second Row Center seat belt Switch	Not Configured	
Left Curtain Squib 1	Configured	
Right Side Door Pressure Sensor	Configured	
First Row Passenger Seatbelt Buckle Switch	Configured	
Right B-Pillar Impact Acceleration Sensor	Configured	
Left D-Pillar Impact Acceleration Sensor	Configured	
Right D-Pillar Impact Acceleration Sensor	Configured	
Right C-Pillar Impact Acceleration Sensor	Configured	
Driver Seatbelt Load Limiter	Configured	
Driver Seatbelt Retractor Pretensioner	Configured	
Second Row Right Seat Side Airbag	Not Configured	
Passenger Frontal Squib 4	Not Configured	
Passenger Airbag Disable Switch	Not Configured	
Passenger Knee Bolster Squib	Configured	
Driver Frontal Squib 2	Configured	
Left Side Door Pressure Sensor	Configured	
EPPM	Not Configured	
Driver Seatbelt Buckle Pretensioner	Not Configured	

EPS CONFIGURATION

NAME	VALUE	UNITS
Stop/Start Feature Active	False	
Parallel Park Assist Feature Active	True	
Dynamic Steering Torque Feature Active	True	
Lane Feedback Feature Active	True	

HVAC CONFIGURATION

NAME	VALUE	UNITS
HVAC Configuration	Dual Zone ATC + Rear	
Dual Zone MTC Control (BB)	False	
MTC With EBL (3Knob)	False	
MTC heater only (3Knob)	False	

Single Zone MTC Control (BB)	False	
MTC Without EBL (3Knob)	False	
DualZone ATC Control (Factory) (BB)	False	
DualZone ATC Control (BB)	False	

PDM CONFIGURATION

NAME	VALUE	UNITS
Frameless Window	False	

PSDML CONFIGURATION

NAME	VALUE	UNITS
VSIM Status	False	

PSDMR CONFIGURATION

NAME	VALUE	UNITS
UPFM Status (Present = True, Absent = False)	False	

MSM CONFIGURATION

NAME	VALUE	UNITS
Adjustable Pedals	False	
Telescope/Tilt	False	

CSWM CONFIGURATION

NAME	VALUE	UNITS
EC - Seat B	Programmed	
EC - Seat A	Programmed	
Vehicle Line L-Series	False	
Vehicle Line R-Series	True	
Vehicle Line D-Series	False	
Heated Steering Wheel	True	
Vehicle Line J-Series	False	
Vehicle Line U-Series	False	
Vehicle Line W-Series	False	
Vehicle Line M-Series	False	
Vehicle Line P-Series	False	

AMP CONFIGURATION

NAME	VALUE	UNITS
ANC Status	Off - Window Mute	
Left/Right Hand Drive	Left Hand Drive	
Current EQ Checksum	57 F7 4F 32	
Premium - 3	True	
Premuim - 1 (8 channel)	False	

Premuim - 2 (12 Channel)	False	
Non -ANC	False	
Current ANC Calibration ID - Service	RU PHEV 3.6L: Tripane Sunroof & Harman AMP	
Teen Key Present	False	
Sub-EQ Set Selected	Sub-EQ#5 Selected	
Cabin Equalization Curve Number	53	
Surround Sound Activated	Set	
Door Module - Right Rear	Present	
Door Module - Left Front	Present	
Door Module - Left Rear	Present	
Door Module - Right Front	Present	
ANC Calibration Date - Year	18	
ANC Calibration Date - Week	45	
ANC Calibration Date - Patch Level	2	

IPC CONFIGURATION

NAME	VALUE	UNITS
PHEV	True	
Rear Fog Lamp	False	

PTS CONFIGURATION

NAME	VALUE	UNITS
Front License Plate Configuration	Front Plate Config - USA	
Front System with 6 Rear Sensors	True	
Rear System with 6 Front Sensors	True	

SCCM CONFIGURATION

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

BCM CONFIGURATION

NAME	VALUE	UNITS
Number of Reprogramming Attempts - Counter #0	0	
Vehicle Configuration Programmed Status	True	
Last Programmed Status	Manufacturing	
ECU Configuration 10	2	
Vehicle Config CSM1	2	
ECU Configuration 11	2	
ECU Configuration 6 (Brake)	2	
ECU Configuration 5 (Wireless)	2	
Programmed ECUs: P/T Chassis Network	2	

ECU Configuration 15 (Suspension)	2	
Programmed ECUs: Hybrid LAN Network	0	
ECU Configuration 8 (LIN and Miscellaneous)	2	
ECU Configuration 9A	2	
Vehicle Configuration 2 - Write Counter	2	
Vehicle Configuration 7 - Write Counter	2	
ECU Configuration 6 (Safety)	2	
ECU Configuration 2 (CBC Features)	2	
Vehicle Configuration 5 - Write Counter	2	
Programmed ECUs: Cabin Network	2	
Vehicle Configuration Auto Write Counter	1	
ECU Configuration 3	2	
ECU Configuration 7 (CBC Exterior Lighting Calibrations)	2	
ECU Configuration 12	2	
ECU Configuration 9 (ITM)	2	
ECU Configuration 1 (CBC Configurable Inputs and Outputs)	2	
ECU Configuration 14	2	
Vehicle Configuration 6 - Write Counter	2	
ECU Configuration 13	2	
ECU Configuration 5 (Memory)	2	
Vehicle Config CSM2	2	
ECU Configuration 15 (CBC Features)	2	
Programmed Network Configuration - Audio / Telematics Network	0	
Vehicle Configuration 4 - Write Counter	2	
ECU Configuration 6 (Powertrain)	2	
ECU Configuration 6 (Suspension)	2	
ECU Configuration 5 (Doors)	2	
ECU Configuration 4	2	
Vehicle Configuration 3 - Write Counter	2	
Last Configuration Odometer	0	miles
Vehicle Configuration 1 - Write Counter	2	
Emode Present	Not Set	
PTS Configuration	Semi Automatic / Semi Automatic	
Model Year	2020	
Vehicle Line	RU	
Hill Descent Feature Present	Not Set	
Body Style	Station Wagon	
Shifter Type	5 Position Rotary Eshifter PRNDL / Type RS5L	
Auto Highbeam	Set	
Drive Configuration	2WD Front	
Country Code	USA	
Special Packages	74	
Remote Start Present	Set	

Select Speed Control Feature Present	Not Set	
Left/Right Hand Drive	Left Hand Drive	
Performance Pages Present	Not Present	
Maximum Vehicle Speed	0	MPH
Max Load Inflation Pressure Rear Tire	36.0	PSI
Special Packages IC	Pacifica	
Power Inverter Type	No Power Inverter	
Cruise Feature is Present	Not Set	
Max Load Inflation Pressure Front Tire	36.0	PSI
Off Road Capable	Not Set	
Air Conditioning Present	Not Set	
Rain Sensor Present	Set	
Flipper Glass Present	Not Set	
SKIM System Present	Not Set	
Full Size Spare	Not Set	
Thatcham Present	Not Set	
Display Outside Temperature Present	Set	
Keyless Go Present	Set	
Vehicle is an SRT	Not Set	
Two Fuel Sending Units Present	Not Set	
Display Compass Heading Present	Set	
Wheel Base	Wheel base not programmed / WB_NP	
Auto Headlamp Feature Present	Set	
Premium TPM system present	Set	
Police Lighting Feature	Not Set	
Window Express Feature Configuration	All windows express feature	
Vehicle Brand	Chrysler	
Auto Park Present	Set	
T-Case Type	Not Present / Not Present	
Adjustable Pedal Feature Present (non-Memory)	Not Set	
Forward Collision Warning present	Set	
Paddle Shift Feature Present	Not Set	
Power Right Sliding Door Present	Set	
Disable Display of Radio Clock	Not Set	
FOBIK Safe Enable	Set	
Chassis Type	Type 9	
Fuel Capacity	17	gallons
ELV Present	Not Set	
Door Alert Feature Present	Not Set	
Passive Entry Present	Set	
RKE System Present	Set	
Secondary Lock Present	Not Set	
HVAC Configuration	Dual Zone ATC + Rear	
Sport Mode Present	Not Set	

ESCL system present	Not Set	
High Intensity Discharge Head Lamps	Not Set	
Collision Mitigation System present	Set	
Power Left Sliding Door Present	Set	
Liftgate/Trunk Type	Power Liftgate	
Base TPM system present	Not Set	
Transfer Case High Ratio	1.000	No Unit
Transfer Case Low Range Reduction Ratio	0.000	
Dynamic Tire Circumference (All or Rear)	89	inch
Axle Ratio	3.251	
Analog Door Sensor Configuration	Driver Door Only Analog Sensor	
Air Quality System Present	Not Set	
Steering Ratio at Negative Angle 1	0.0	No Unit
Connector E Pin 29: Rear Wiper Motor Park Signal Present	Set	
Connector D Pin 11: Stop/Turn Trailer Tow Left Output Present	Not Set	
Connector E Pin 9: Run-ACC Y Relay #2 Output Present	Set	
Connector G Pin 9: Ambient Light Dimmer Wheel Input Present	Set	
Connector E Pin 5: PHEV Fuel Door Switch Input	Set	
Connector G Pin 24 (Internally tied to Connector F Pin 7): Ambient Lighting Output	Not Set	
Connector F Pin 6: Fuel Door Motor Output Signal Present	Set	
Connector D Pin 15: Left Dedicated DRL Lamps Output Present	Set	
Connector A Pin 11: Hood Ajar Switch Input Present	Set	
Connector E Pin 4/Connector F Pin 32: Rear Park Lamps Output Present	Set	
Connector A Pin 3/Connector D Pin 2: Low Beam Output Present	Set	
Connector E Pin 8: PHEV HCP Hardwire Wakeup	Set	
Connector E Pin 7: Left HID Relay Control Output Present	Not Set	
Connector D Pin 10: Trailer Tow Tail Lamp Output Present	Not Set	
Connector G Pin 15: UGDO Feed Output Present	Set	
Connector F Pin 29: Horn Switch Present	Set	
Connector A Pin 1 and Connector D Pin 13: Front Fog Lamps Output Present	Set	
Connector E Pin 3/Connector F Pin 42: Rear Turn Lamps Output Present	Not Set	
Connector E Pin 48 (Tied internally to Connector A Pin16): Rear Wiper Motor Control Output Present	Set	
Connector G Pin 22: VTA Warning LED Output Present	Set	
Connector F Pin 9: Analog Door Ajar Signal Front Driver Present	Set	
Connector E Pin 11: Vacuum Switch Input	Not Set	
Connector A Pin 10/Connector D Pin 5: Side Markers Output Present	Set	
Connector E Pin 42: Charge Port Lock Output Present	Set	
Connector E Pin 41: Charge Port Unlock Output Present	Set	
Connector A Pin 22: Right Dedicated DRL Lamp Output Present	Set	
Connector F Pin 8 : Liftgate Release Outside Handle Switch Present	Not Set	
Connector E Pin 34: Vacuum Cleaner Relay Output Present	Not Set	
Connector D Pin 12: PHEV ECM Hardwire Wake Up Output Present	Set	
Connector F Pin 23: Door Lock Switch Signal Front Passenger Present	Set	

Connector D Pin 7: Stop/Turn Trailer Tow Right Output Present	Not Set	
Connector D Pin 22/ Connector D Pin 23: Ambient Temperature Signal/Return Present	Set	
Connector D Pin 9: Trailer Tow Backup Output Present	Not Set	
Connector E Pin 39/Connector F Pin 5: Rear Fog Lamps Output Present	Not Set	
Connector F Pin 4: Liftgate Release Present	Not Set	
Connectro E Pin 37: Right HID Control Output Present	Not Set	
Connector F Pin 35: Inverter Enable Relay Output Present	Set	
LED Rear Turn Lamps Present	Not Set	
Front Wiper Wipes After Wash	2 Wipes	
Fuel Door Release Enabled	Not Present	
Quad Headlamps Enable	Set	
Reversible Washer Pump Enable	Set	
DRL Dropout Enable	Set	
Park Lamp Loadshed Enable	Set	
LED Stop Lamps Present	Not Set	
Headlamp Washer Low Fluid Shut-Off Enable	Set	
Hazard Lamp Configuration	Latching Switch	
LED Tail Lamps Present	Set	
Bi Xenon Headlamps Enable	Not Set	
Front Fog Lamp Dropout Enable	Set	
LED Low Beam Lamps Present	Not Set	
Headlamp Wash Interval	wash cycle#11	
LED Dedicated DRL Present	Set	
Wiper Service Position Enabled	Not Set	
Illuminated approach Enabled	Not Set	
Front Wiper Park Enable	Set	
LED License Lamps Present	Set	
Horn Chirp Allowed	Set	
Fuel Door Present	Not Set	
Combined Front Park/Turn Feature Enable	Not Set	
DRL Configuration	No DRL	
DRL Lamp Location	Dedicated	
Rear Wiper Park Enable	Set	
Combined Rear Lighting Enable	Set	
LED Reverse Lamps Present	Not Set	
Intermittent Wiper States	4 Intermittent Wiper position Switch	
Headlamp Wash Shot	double	
LED Rear Fog Lamps Present	Not Set	
Trailer Tow Present	Not Set	
Tip Start Enabled	Set	
LED Front Turn Lamps Present	Not Set	
Side Repeaters Enable	Not Set	
LED Front Park/Marker Lamps Present	Set	
Headlamp Wash Spray Duration (at 100 ms intervals)	1100ms	

One Touch Lane Change	Set	
Tunnel Detection	Not Set	
Dual Start Relay System Present	Not Set	
Exterior Light Loadshed Enable	Set	
LED Front Fog Lamps Present	Not Set	
LED CHMSL Lamp Present	Set	
LED High Beam Lamps Present	Not Set	
Destination	United States of America	
Surround Sound Feature Present	Set	
Power Door Locks Present	Set	
Microphone Type	Peiker 300 mv	
Heated Steering Wheel Present	Set	
Power Inverter Present	Not Set	
Disable CD Eject	Not Set	
Cabin Equilization Curve Number	RU Premium System - Harman 12ch	
Antenna Type	Active Primary and no secondary antenna	
Splashscreen Type	Vehicle Brand	
Microphone Configuration	2 Microphones	
External Port Type	AUX + USB	
Microphone Tuning Parameter	Absent [Not Used]	
Front Park Assist Present	Set	
Front Heated Seats Present	Set	
Rear Camera Present	Not Set	
Fleet Vehicle Content	Not Set	
AP5 Trunk Lock	Simple Switch	
AP2 Right Front	Smart Switch	
Vehicle Variant	Undefined	
Tip Start Present	Set	
AP4 Right Rear	CAN	
Airport Scenario Trunk	Not Set	
AP1 Left Front	Smart Switch	
AP3 Left Rear	CAN	
AP5 Trunk Unlock	CAN	
Heated Mirrors Present	Set	
Blindspot Mirror Present	Set	
Frameless Window Present	Not Set	
Sun Shade	Not Set	
Global Up	Not Set	
Folding mirrors present	Set	
Electro-chromatic passenger mirror present	Not Set	
Window Motor Type	Not Set	
Global Down	Not Set	
Passenger Window Lockout	Not Set	

Tow Mirror Present	Not Set	
Passenger Memory Mirror Present	Set	
Rear Door Pre Short Drop	Not Set	
Electro-chromatic driver mirror present	Set	
Driver Memory Mirrors Present	Set	
Window Hall Sensors Present	Not Set	
Mirror turn signals present	Set	
Puddle Lamp Present	Not Set	
Heated Steering Wheel Present	Present	
Tilt/Telescope Steering Present	Not Set	
Memory Adjustable Pedals Present	Not Set	
Driver Memory Seat Present	Set	
Heated Seat Material Type	Base Leather	
Stow 'n Assist Present - Driver	Set	
Stow 'n Assist Present - Passenger	Set	
Rear Heated Seats Present	Not Present	
Front Vented Seats Present	Present	
Heated Wheel Material Type	Full Leather	
Brake System ECU Configuration A	value 0	
ECO Mode Configuration	Remember Previous State with Ignition Key Cycle	
Dual Alternator Present	Not Set	
Connector F Pin 13: Left Sliding Door Switch Input (B-Pillar)	Left B-Pillar sliding Door Switch	
License Plate Lamp Disable	Not Set	
Connector G Pin 2: Fog Lamp Switch Input	Fog Lamp Switch	
Connector F Pin 34: Spare HSD	Not Present	
Connector F Pin 16: Passenger Door Lock Switch Input	Not Present	
Auto High Beam Module Location	HaLF	
Engine Off Clear Time	180	Time
Connector F Pin 30: Fuel Door Lock (BUX)	Not Present	
Heatsoak Speed	15	Counter
Connector D Pin 8: Digital Spare Input #2	Not Present	
Ambient Stable Counter Limit	40	Counter
Max Engine Off Time	220	Time
Connector F Pin 29: Horn Switch Present	Horn Switch Input	
Connector F Pin 37: Vacuum Cleaner Power Saver Indicator	Not Present	
Connector E Pin 48 (Tied internally to Connector A Pin16): Rear Wiper Motor Control Output Present	Rear Wiper (0)	
Humidy Sensor Long Present	Set	
Connector E Pin 3: Left Rear Turn Signal	Left Rear Turn Signal	
Connector F Pin 14: Right Sliding Door Switch Input (B-Pillar)	Right B-Pillar Sliding Door Switch	
Connector G Pin11/Connector G Pin 12: Not Used	ERS	
Connector E Pin 28: Secondary Door Ajar Switch Present - PIN E-28	Set	
Manual Door Locks Present	Not Set	
Heatsoak Flush Time	105	Time

Rain Sensor Module #2 Present	Set	
CHMSL Lamp Output Disable	Not Set	
Conncetor F Pin 33: Fuel Door Unlock (BUX)	Not Present	
Connector E Pin 39: Right Rear Turn Signal	Right Rear Turn Signal	
Connector F Pin 15: Driver Door Lock Switch Input	Not Present	
Connector D Pin 4: Digital Spare Input #1	Not Present	
Heatsoak Set Time	15	Time
Steering Smoothing Factor	Filter Off	
Nose Dive Threshold	Filter Off	
Brake Smoothing Factor	Filter Off	
Average Last Longitudinal Acceleration Values	No Averaging	
Excess Lateral Acceleration Factor	Filter Off	
Brake Smoothing Duration	Filter Off	
Steering Smoothing Duration	Filter Off	
Maximum Lateral Change	Filter Off	
Acceleration Threshold	Filter Off	
Nose Dive Factor	Filter Off	
Excess Longitudinal Acceleration Factor	Filter Off	
Brake Smoothing Threshold	Filter Off	
Acceleration Factor	Filter Off	
Average Last Lateral Acceleration Values	No Averaging	
Steering Smoothing Threshold	Filter Off	
Maximum Longitudinal Change	Filter Off	
VTA Hood Ajar Monitoring	Not Set	
RKE Auto-Relock Feature Enable	Not Set	
PE Auto-Relock Feature Enable	Set	
Auto High Beam ON Threshold	25 km/hr	
Auto High Beam OFF Threshold	20 km/hr	
Interior Lighting Night Threshold	4.45147	Volt
Interior Lighting Day Threshold	4.27498	Volt
Headlamp Soak Delay	1.0 sec	
Horn Chirp Duration	Short	
Parking Light Enable	Not Set	
Smart Alternator Present	Not Set	
Temperature Display Resolution	HaLF	
TPMS Configuration	Logic 1 NHTSA Enable Warning	
Sunroof Present	Set	
ANC Calibration Parameter Data Set	Harman Amplified 3.6L PHEV Sunroof	
Radio Speaker Open Circuit Disable (RF)	Not Set	
Drive Mode Version	Version 1	
Auto Dimming Mirror Hard Button Present	Set	
Radio Speaker Open Circuit Disable (LF)	Not Set	
Radio Speaker Open Circuit Disable (LR)	Not Set	
Radio Speaker Open Circuit Disable (RR)	Not Set	

Automatic Crash Notification Feature Present	Undefined	
Show Phone Information in Cluster	01	
Surround View Camera On/Off Softkey Present	Set	
Park Assist Tuning Set	BUX Front and Rear Only	
3rd Row Lock CSO	Not Set	
Siren	Not Set	
Ultrasonics	Not Set	
Tilt	Not Set	
ESC	Set	
HCP	Set	
AHCP	Set	
ESM	Set	
ORC	Set	
APM	Set	
ECM	Set	
BPCM	Set	
OBCM	Set	
EAC	Set	
EBCM	Set	
CVPM	Set	
VRM	Set	
MSMP	Set	
AMP	Set	
HVAC	Set	
PDM	Set	
VTM	Not Set	
DDM	Set	
EOMR	Set	
EDM	Set	
ITM	Not Set	
DMRR	Set	
MSM	Set	
HVACR	Set	
EAM	Not Set	
ICS	Set	
DSM	Set	
PSDML	Set	
ANC	Not Set	
BCM (Interior Bus)	Set	
DTV	Not Set	
FSM	Not Set	
DMRL	Set	
PLGM	Set	
HSM	Set	

PSDMR	Set	
Radio	Set	
Compass Mounting Angle	0	Degree
IBS Present	Set	
Auto Relock Time	60	seconds
Fobik Safe Alerts Per Ignition Cycle	2	
Illuminated Approach Headlamp Target Percentage	125 (62.5%)	
Humidity Sensor Present	Set	
Illuminated Approach Taillamp Target Percentage	125 (62.5%)	
Illuminated Approach Interior Lighting Ramp Up Time	130(2600ms)	
Alert no Reply	Set	
Alert On Search Timeout	Set	
Alert On System Fault	Set	
Illuminated Approach Interior Lighting Target Percentage	100(50%)	
OHC Module Present	Set	
Washer Fluid Level Voltage Threshold	4.46 volts	
EVIC SWS Module Present	Set	
CRVMM Present	Set	
HFRM Present	Set	
VTA System Present	VTA	
Panic Enable	Set	
Compass Mounting Orientation	Rightside up	
Connector F Pin 41: Backup-Reverse lamp Left	Set	
Connector E Pin 7: Left HID Relay Control	Left HID Lamp Relay	
Connector D Pin 12: PHEV ECM Hardwire Wake Up	Engine Control Module Wake up (PHEV only)	
Connector D Pin 11: Stop/Turn Trailer Tow Left Output Present	Reserved	
Connector A Pin 11: Hood Ajar Switch Signal	500 ohm series and 500 ohm parallel resistors	
Connector D Pin 21: Brake Fluid Level Switch	no parallel resistor	
Connector E Pin 1: Backup-Reverse lamp Right	Set	
Connector E Pin 37: Right HID Relay Control	Right HID Lamp Relay	
Connector F Pin 5: Left Rear Fog Lamp	Output Disable	
Connector E Pin 3: Left Rear Turn Signal	Left Rear Turn Signal	
Connector F Pin 31: Right Sliding Door Ajar	Right Sliding Door Ajar	
Connector F Pin 28: Right Rear Turn Lamp Fault Sense	Disable	
Connector F Pin 4: Liftgate Release	Trunk/Liftgate Release	
Connector F Pin 42: Right Rear Turn Signal	Right Rear Turn Signal	
Connector F Pin 25: Left Rear Turn Lamp Fault Sense	Disable	
Stop/Start Enable Switch Present	Not Set	
Connector A Pin 2: Right High Beam Feed	Right High Beam (0)	
Connector D Pin 1: Left High Beam Feed	Left High Beam (0)	
Connector F Pin 27: Left Sliding Door Ajar	Left Sliding Door Ajar	
Connector E Pin 5: E-5 PHEV Fuel Door Switch Input	PHEV Fuel Door Switch	
Connector E Pin 39: Right Rear Fog Lamp	Output Disable	

Connector E Pin 29: Rear Wiper Motor Park Signal	Reserved	
Connector F Pin 29: Horn Switch Input	Horn Switch Input	
Passive Ped Pro Present	False	
Tow Hooks Present	False	
1st Row Seat Side Airbags Present	True	
Passenger Kneebag Present	True	
BUX Market	False	
ODS Present	False	
Curtain Airbags Present	True	
Driver Kneebag Present	True	
Integrated EPP Present	False	
IPC	Set	
ESM	Set	
ORC	Set	
BCM (PT)	Set	
SCCM	Set	
ACC	Set	
PCM	Set	
PTS	Set	
EPS	Set	
RFH	Set	
AHLM	Not Set	
ESL	Not Set	
FFCM	Set	
ABSO	Set	
OCM	Set	
ABS	Not Set	
TCM	Not Set	
HCP	Set	
Accessory Delay Time	45	seconds
Sliding Door Chime Enable	Set	
Sliding Door Alert	Set	
Auto Unlock	Set	
Headlamps on with Wipers	Set	
Flash Lamps on Lock	Set	
Daytime Running Lamps	Set	
Auto Wipers	Set	
Sound Horn On Lock Status	Chirp on 1st press/FIRST	
Hands Free Sliding Door Enable	Set	
Sound Horn on Remote Start	Set	
Auto Lock	Set	
Unlock all doors on 1st press	Set	
Sound Horn on Lock	Set	
Illuminated Approach Time	30	seconds

Headlamp Delay Time	30	seconds
Auto Highbeam	Set	
IBS Quiescence Current Limit	-250	mA
IBS Minimal Charge Limit	10	AmpHrs
IBS Minimum Voltage Limit	5.0	Volts
Battery Type II	255	
Battery Types	SNA	
IBS Activate MWU	Not Set	
IBS Minimum Charge Limit	600	mA
Front Park/Turn Voltage	Park to Turn ratio 55 Percent	
Left Front Corner Voltage	13.2 Volts	
Left Low Beam Voltage Regulation	13.6 Volts	
Right High Beam Voltage Regulation	13.8 Volts	
Left Rear Corner Voltage	14 Volts	
Left High Beam Voltage Regulation	13.6 Volts	
Right Rear Corner Voltage	14 Volts	
Right Low Beam Voltage Regulation	14 Volts	
Auto Headlamp On Threshold	3.31409	Volt
Auto Headlamp Off Threshold	2.54930	Volt
Right Front Corner Voltage	13.4 Volts	
Rear View Camera Static Grid Lines Enabled	Not Set	
Rear View Camera Dynamic Grid Lines Enabled	Not Set	

RADIO CONFIGURATION

NAME	VALUE	UNITS
Compass on the bus messaging Authorization	Allowed	
GPS on the Bus messaging Authorization	Allowed	
Satellite Subscription Suspend Day	01	
Satellite Subscription Reason Code	00	
Satellite Subscription Suspend Year	46	
Satellite Subscription Suspend Month	01	
Satellite Subscription Status	Subscribed	
Satellite Subscription ID	XKBHKDC1	
Aux Jack	Not Inserted	
USB Hubs Detected	1	No Unit
SD Card Readers Detected	0	No Unit
Enumerated USB Devices	0	No Unit
DTV Short Term Configuration	—	
911 Button	On	
SDARS	True	
Internal CD Player	False	
Application Framework	True	
Bluetooth	True	
Navigation Active	True	

FM Diversity	False	
Cellular	True	
Wi-Fi	True	
Splash Screen	Chrysler	
Anti-Theft Enable Status	On	
Automated Loudness	On	
Front Seat Video Playback	Enabled	
Clock Defeat	Off	
Cabin EQ Curve Number Currently Used by Radio	35	
12/24 Time Selection	12 Hour Time	

HVACR CONFIGURATION

NAME	VALUE	UNITS
Dual Zone MTC Control (BB)	False	
MTC heater only (3Knob)	False	
DualZone ATC Control (BB)	False	
MTC w EBL (3Knob)	False	
MTC wo EBL (3Knob)	False	
Single Zone MTC Control (BB)	False	
DualZone ATC Control (Factory) (BB)	False	

FFCM CONFIGURATION

NAME	VALUE	UNITS
Traceability info	02202120257209	
Traceability info	11202153660704	
XCP Enabled	False	
HIL mode Enabled	False	

EDM CONFIGURATION

NAME	VALUE	UNITS
Intrusion module	Not Present	
Blind-Spot Module	Not Present	
Video Ent. System Screen 1 Module	Not Present	
Heating Ventilation Air Conditioning	Not Present	
Integrated Center Stack Module	Not Present	
Passenger Door Control Module	Not Present	
Vehicle System Interface Module	Not Present	
Rear Body Controller Module	Not Present	
Convergence Telematics Module	Not Present	
Driver Door Control Module	Not Present	
CAN I in-dash disc player module	Present	
Right Rear Door Control Module	Not Present	
Left Power Sliding Door Module	Not Present	
Common Body Controller Int Bus	Not Present	

Left Rear Door Control Module	Not Present	
Memory Seat Module	Not Present	
Amplifier Module	Not Present	
Comfot Seats and Wheel Module	Not Present	
Power Liftgate Module	Not Present	
Power Top Control Module	Not Present	
Right Power Sliding Door Module	Not Present	
Folding Seat Module	Not Present	
Video Ent. System Screen 2 Module	Not Present	
Radio	Present	
VES	False	
VRM	False	
E-Mode Feature Present	False	
Remote Start Present	False	
Vehicle Line	RU	
Body Style	Station Wagon	
Left/Right Hand Drive	Not Programmed	
Vehicle Brand Type	Chrysler	

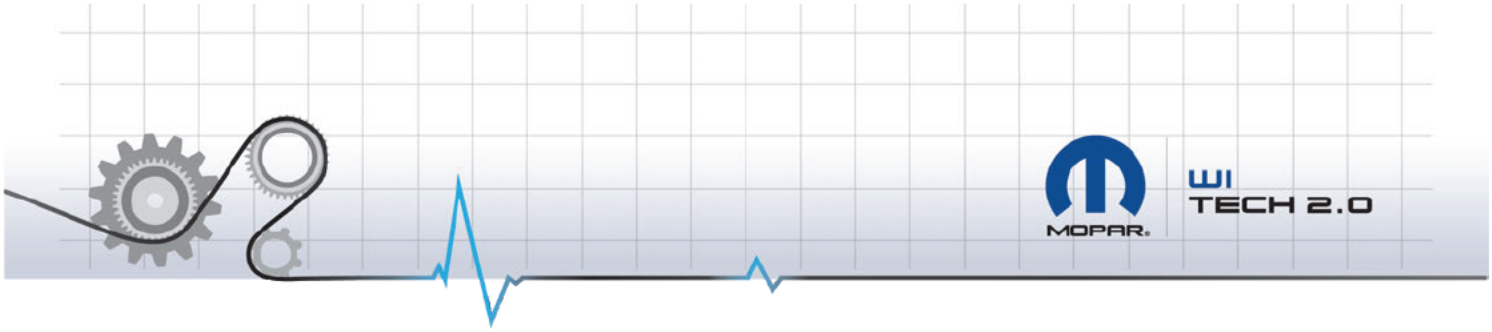
RCCC CONFIGURATION

NAME	VALUE	UNITS
MTC with EBL	False	
DualZone ATC Control	True	
MTC Heater Only	False	
Single Zone MTC Control	False	
Dual Zone MTC Control	False	
DualZone ATC Control	False	
MTC without EBL	False	

ABSO CONFIGURATION

NAME	VALUE	UNITS
Engine Displacement	3.6	No Unit
ESC BLA Enabled	False	
PN ESC Byte2	0	
PN ESC Byte1	0	
Drive Configuration	2WD Front	
Dynamic Tire Circumference	89	inch
VC Chassis Type	Type 9	
Axle Ratio	3.251	No Unit
Hardwired VSO	True	
ACC	True	
Multiple Pressure Sensors	True	
Rear Directional Sensors	True	
Feature PIN	False	

Front Directional Sensors	False	
EPB	True	



VEHICLE SCAN REPORT

Vehicle 2020 CHRYSLER PACIFICA (PHEV) 3.6L V6 HYBRID ENGINE
VIN [redacted]

Odometer 1776.2 miles
Publication Date Jul 5, 2021, 2:10:30 PM

ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	[redacted]	[redacted]	PART #
PCM	Powertrain Control Module	CAN-C	68444228AE			68444228AE
ICS	Integrated Center Stack	CAN-I	6UX621X8AA			6UX621X8AA
RFH	Radio Frequency Hub	CAN-C	68453559AB			68453559AB
ESM	Electronic Shifter	CAN-C	68240089AM			68240089AM
ORC	Occupant Restraint	CAN-C	68453076AD			68453076AD
EPS	Electric Power Steering	CAN-C	68460392AA			68460392AA
HVAC	Heat, Ventilation and A/C	CAN-I	68447893AC			68447893AC
DDM	Driver Door Module	CAN-I	68424449AC			68424449AC
PDM	Passenger Door Module	CAN-I	68424448AC			68424448AC
DMRL	Door Module Rear Left	CAN-I	68225096AG			68225096AG
DMRR	Door Module Rear Right	CAN-I	68225096AG			68225096AG
PSDML	Power Sliding Doors (Left)	CAN-I	68369596AD			68369596AD
PSDMR	Power Sliding Doors (Right)	CAN-I	68369596AD			68369596AD
MSM	Memory Seat Module	CAN-I	68321862AC			68321862AC
PLGM	Power Liftgate	CAN-I	68316094AF			68316094AF
CSWM	Comfort Seat Wheel Module	CAN-I	68434912AC			68434912AC
AMP	Amplifier	CAN-I	68448067AA			68448067AA
IPC	Instrument Panel Cluster	CAN-C	68434956AC			68434956AC
PTS	Parktronics	CAN-C	68193775AJ			68193775AJ
SCCM	Steering Column Control Module	CAN-C	68360889AD			68360889AD
BCM	Body Controller	CAN-C	68424601AE			68424601AE

ACC	Adaptive Cruise Control	CAN-C	68417813AF				68417813AF
RADIO	Radio	CAN-I	68461768AD				68461768AD
OCM	Occupant Classification	CAN-C	68403127AA				68403127AA
HVACR	Heat, Ventilation and A/C Rear	CAN-I	68373079AB				68373079AB
LBSS	Left Blind Spot Sensor	CAN-I	04672786AB				04672786AB
RBSS	Right Blind Spot Sensor	CAN-I	04672786AB				04672786AB
FFCM	Forward Facing Camera Module	CAN-C	68493395AA				68493395AA
EDM	External Disc Module	CAN-I	68378304AA				68378304AA
APM	Accessory Power Module	CAN-C	05185046AB				05185046AB
BPCM	Battery Pack Control Module	CAN-C	05193166AD				05193166AD
HCP	Hybrid Control Processor	CAN-C	05190265AF				05190265AF
OBCM	On Board Charging Module	CAN-C	05185047AE				05185047AE
MSMP	Memory Seat Module - Passenger	CAN-I	68321862AC				68321862AC
DSM	Display Screen Module	CAN-I	68316174AC				68316174AC
VRM	Video Routing Module	CAN-I	68376134AG				68376134AG
RCCC	Rear Cabin Comfort Controls	CAN-I	6WL30PD2AA				6WL30PD2AA
CVPM	Central vision processing module	CAN-I	68375113AB				68375113AB
EAC	Electric A/C Compressor	CAN-C	68237995AG				68237995AG
AHCP	Auxiliary Hybrid Control Processor	CAN-C	05190266AF				05190266AF
EBBM	Electronic Brake Booster Module	CAN-C	68461813AB				68461813AB
ABSO	Anti Lock Brakes OBD	CAN-C	68471122AD				68471122AD
SGW	Security Gateway Module	CAN-C	68447193AB				68447193AB

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	CVNS
PCM	USA	1B 47	46 03 01	4419	31D751B0
ICS	USA	0F 0C 00	12 25 00	4700	
RFH	USA / USA	10 17 00	13 09 00	4A00	
ESM	USA / USA	0F 24 00	12 28 FF	4402	
ORC	USA / USA	12 1A 00	13 2E 00	4301	
EPS	USA / USA	12 2A 00	12 1E 01	4502	

HVAC	USA	0E 09 00	13 05 01	4401	
DDM	USA	11 07 00	13 0B 00	4202	
PDM	USA	11 07 00	13 0B 00	4202	
DMRL	USA / USA	10 0B 00	12 0C 00	4201	
DMRR	USA / USA	10 0B 00	12 0C 00	4201	
PSDML	USA / USA	10 17 00	14 10 12	4001	
PSDMR	USA / USA	10 17 00	14 10 12	4001	
MSM	USA	0F 2B 00	10 27 03	4101	
PLGM	USA	17 19 00	18 22 00	4202	
CSWM	USA	11 2A 00	13 2C 00	4302	
AMP	USA	0F 06 01	12 2E 01	4021	
IPC	USA / USA	12 06 00	13 27 00	4704	
PTS	USA	0E 32 00	12 1F 00	4311	
SCCM	USA	13 28 00	13 29 00	4301	
BCM	USA	0D 11 00	13 2C 90	4415	
ACC	USA / USA	14 12 01	14 1D 01	4400	
RADIO	USA	13 31 14	13 31 14	8205	
OCM	USA / USA	11 1F 01	0E 2F 02	4030	
HVACR	USA	0E 09 00	10 03 02	4301	
LBSS	USA / USA	11 30 02	12 0D 00	4202	
RBSS	USA / USA	11 30 02	12 0D 00	4202	
FFCM	USA / USA	11 06 00	13 1E 00	4102	
EDM	USA	12 0A 00	11 08 00	4000	
APM	USA / USA	11 32 00	11 32 00	4001	
BPCM	Not programmed / COUNTRY_SNA	0E 03 00	13 18 03	4005	F5BC8401
HCP	USA	11 1F 04	19 48 01	4005	6AE19B37 847169A3 050DC953
OBCM	USA	0F 0D 00	12 02 00	4002	
MSMP	USA	0F 2B 00	10 27 03	4001	
DSM	USA / USA	13 29 00	12 23 00	4000	
VRM	USA / USA	0F 1C 00	13 26 11	4001	
RCCC	USA	0F 1D 00	13 04 00	4000	
CVPM	USA / USA	11 32 01	12 33 00	4003	
EAC	USA	0E 34 00	12 0F 00	4102	
AHCP	USA	11 1F 04	19 48 01	4000	
EBBM	USA	0E 19 02	14 0D 18	4000	E5898FA5
ABSO	USA	0E 15 02	14 1B 26	4201	4F158D1B
SGW		5	779	4103	

DTC SUMMARY

ECU	DTC CODE	DTC DESCRIPTION	STATUS
HVAC	B10EB-00	Blower Power Module-	Stored
IPC	U1216-00	Lost Communication with Driver Assistance System Module-	Stored
BCM	U1216-00	Lost Communication with Driver Assistance System Module-	Stored

ACC	C2225-00	PCM Disabled ECU-	Active
BPCM	P0A95-00	High Voltage Fuse "A"-	Active
HCP	P062C-00	Internal Control Module Vehicle Speed Performance-	Stored
HCP	P0642-00	Sensor Reference Voltage 1 Circuit Low-	Active
HCP	P0652-00	Sensor Reference Voltage 2 Circuit Low-	Active
HCP	P06B1-00	Sensor Power Supply 1 Circuit Low-	Active
HCP	P06B4-00	Sensor Power Supply 2 Circuit Low-	Active
HCP	P0A3C-00	Drive Motor A Inverter Over Temperature-	Stored
HCP	P0A3D-00	Drive Motor B Inverter Over Temperature-	Stored
HCP	P0A3F-00	Drive Motor A Position Sensor 1 Circuit-	Active
HCP	P0A40-00	Drive Motor A Position Sensor 1 Circuit Range/Performance-	Active
HCP	P0A46-00	Drive Motor B Position Sensor 1 Circuit Range/Performance-	Active
HCP	P0A79-00	Drive Motor B Inverter Performance-	Active
HCP	P0AFA-00	Hybrid/EV Battery System Voltage Low-	Active
HCP	P0BF2-00	Drive Motor B Inverter Phase U Current Sensor Circuit Range/Performance-	Stored
HCP	P0BF6-00	Drive Motor B Inverter Phase V Current Sensor Circuit Range/Performance-	Stored
HCP	P0BFA-00	Drive Motor "B" Phase W Current Sensor Circuit Range/Performance-	Stored
HCP	P0C0B-00	Drive Motor A Inverter Power Supply Circuit/Open-	Active
HCP	P0C0E-00	Drive Motor B Inverter Power Supply Circuit/Open-	Stored
HCP	P0C11-00	Drive Motor A Inverter Phase U Over Temperature-	Stored
HCP	P0C14-00	Drive Motor B Inverter Phase U Over Temperature-	Stored
HCP	P0C19-00	Drive Motor A Torque Delivered Performance-	Active
HCP	P0C1A-00	Drive Motor B Torque Delivered Performance-	Stored
HCP	P0E15-00	Hybrid/EV Battery Pack Coolant Heater "A" Control Performance-	Active
HCP	P1AEC-00	MCPA HV Battery Voltage Sensor Circuit Performance-	Active
HCP	P1AED-00	MCPB High Voltage Battery Voltage Sensor Circuit Performance-	Active
HCP	P1AEE-00	MCPA HV Battery System Voltage High-	Active
HCP	P1AEF-00	MCPB High Voltage Battery System Voltage High-	Active
HCP	P1AFC-00	MCPA Lost Communication With HCP-	Active
HCP	P1AFD-00	MCPA Lost Communication With MCPB-	Active
HCP	P1B07-00	MCPA High Voltage Battery System Voltage Low-	Active
HCP	P215B-00	Vehicle Speed - Output Shaft Speed Correlation-	Stored
HCP	P26C3-00	Internal Control Module Electronic Shifter Performance-	Stored
HCP	U0623-00	Lost Communication with Coolant Pump "A"-	Stored
ABSO	U0104-00	Lost Communication With Cruise Control Module-	Stored

ENVIRONMENTAL DATA SUMMARY

HVAC | B10EB-00 | Stored | Blower Power Module-

NAME	VALUE	UNITS
Test Failed	False	
Test Failed This Operation Cycle	False	
Test Failed Since Last Clear	True	
Pending DTC	False	
Confirmed DTC	True	

Warning Indicator Requested	False	
Occurrence flag	ERROR	
Test Not Completed This Operation Cycle	False	
Test Not Completed Since Last Clear	False	
Most Recent Odometer Value	1770	miles
Original Odometer Value	1770	miles
Ignition Cycle Counter	5	
Frequency Counter	2	

IPC | U1216-00 | Stored | Lost Communication with Driver Assistance System Module-

NAME	VALUE	UNITS
Test Failed	False	
Test Failed Since Last Clear	True	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Confirmed DTC	True	
Test Not Completed This Operation Cycle	False	
Test Not Completed Since Last Clear	False	
Warning Indicator Requested	False	
Occurrence flag	ERROR	
DTC Extended Data Record Number - All	FF	
Original Odometer Value	1521	miles
Ignition Cycle Counter	50	
Most Recent Odometer Value	1521	miles
Frequency Counter	1	

BCM | U1216-00 | Stored | Lost Communication with Driver Assistance System Module-

NAME	VALUE	UNITS
Test Failed	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Occurrence flag	ERROR	
Warning Indicator Requested	False	
DTC Extended Data Record Number - All	01	
Most Recent Odometer Value	1521	miles
Ignition Cycle Counter	44	
Original Odometer Value	1521	miles
Frequency Counter	1	

ACC | C2225-00 | Active | PCM Disabled ECU-

NAME	VALUE	UNITS
Test Failed	True	
Test Failed This Operation Cycle	True	
Pending DTC	False	
Test Not Completed Since Last Clear	False	
Confirmed DTC	False	
Test Failed Since Last Clear	True	
Warning Indicator Requested	True	
Test Not Completed This Operation Cycle	False	
Occurrence flag		
PRNDL Status		
Most Recent Odometer Value		miles
Original Odometer Value		miles
Engine RPM		rpm
Vehicle Speed		MPH
Frequency Counter		
Operation Cycle Counter		
ACC Set Speed		MPH
Object of Interest Distance		FEET
Ignition Voltage		
System Voltage		Volts
Engine Torque Request		Ft-Lbs

BPCM | P0A95-00 | Active | High Voltage Fuse "A"-

NAME	VALUE	UNITS
Key in Ignition	Key_Def	
HCP Contactor Command	Open	
Key Position	Ign_ Run	
Qualified Contactor Command - QCC	Open	
Verified Contactor Command - VCC	Open	
EPT -WakeUp	Sourced	
Plug in Status	Not plugged in	
Contactor Status	Open	
ChargingLevel	Plug in, but no charge	
Balance Mode	False	
Battery in Periodic wake up (Just battery) at time of Fault	False	
Battery in Periodic wake up (Wake up vehicle) at time of Fault	False	
HVIL Status -Vehicle	PASS	
HVIL Status - Battery pack	PASS	
Pump - Wire Open\Short to Gnd	PASS	
Pump - Dry Run Detection	PASS	
Pump - Overcurrent	PASS	
Pump - Overtemperature	PASS	
Pump - Switch Power Shorted	PASS	

Fault trigger level 2	False	
Fault trigger level 3	False	
Fault Path	01	
Fault trigger level 1	False	
Key - DriveRdy (CAN)	True	
Battery Cell Highest Cell number	60	
Battery Cell Lowest Cell number	11	
Battery Temperature Lowest Sensor number	01	
Battery Temperature Highest Sensor number	03	
HV Cooling Pump Relay Drive	Not Sourced	
Isolation Battery Diagnostic Status	Run and Passed	
Isolation Vehicle Diagnostic Status	Run and Passed	
Battery Temperature Number of Failing Sensors	00	
Pump - Battery Coolant Level Low	False	
BPCM Sec Asic Reset Req	Not active	
BPCM L2 CC Path Test Req	Undetermined	
BPCM L2 General Monitoring Flt Rsn	L2L1_CELL_MAX_V_CMP_FLT	
BPCM Sec CC Path Test Active	Not active	
BPCM Sec Asic Fault Input	Not active	
BPCM Sec Contactor State	Open	
BPCM Sec HW Timer Status	Not active	
BPCM L2 ASIC Diagnostic Flt Rsn	ADCTest	
BPCM Main HW Timer Status	Not active	
BPCM L2 Contactor Dslb Req	Undetermined	
BPCM Sec Asic Fault State	NOTASSERTED	
DTC	0A 95 00	
Real Time Clock Validity	True	
Test Failed	True	
Test Not Completed Since Last Clear	False	
Test Failed This Operation Cycle	True	
Pending DTC	True	
Confirmed DTC	True	
Test Not Completed This Operation Cycle	False	
Occurrence flag	ERROR	
DTC Extended Data Record Number - 2	08	
Warning Indicator Requested	False	
DTC Extended Data Record Number - All	01	
Test Failed Since Last Clear	True	
Frequency Counter	1	
FoM - for this DTC (lifetime fails counts on pass)	0.3200	seconds
Ignition Cycle Counter	0	
FoM - for this DTC (lifetime longest fail on pass)	0.240	seconds
FoM - for this DTC (lifetime fails)	1	events
Battery Total Time Awake	22679932	seconds

Vehicle mileage at time of fault (ODO signal in $3D2)	1776.19	miles
Battery Lifetime Miles	5B4BB8	miles
Vehicle Speed	22.0	MPH
Battery Lifetime AmpHrs of Charge	1455.0	AHr
HVIL PWM Duty Cycle - Vehicle	50.2	%
System (12) Volts at time of fault	12.683	Volts
Battery Lifetime AmpHrs of DisCharge	1454.5	AHr
HVIL Returned current - Battery	30.60	mA
Power Up SOC at time of Fault	25.5	%
SOC at time of Fault	25.9	%
HVIL Source Voltage- Battery	1.392	Volts
HVIL PWM Frequency - Vehicle	87.9	Hz
HVIL PWM peak voltage Sourced - Vehicle	11.403	Volts
HVIL PWM peak voltage Sensed - Vehicle	11.396	Volts
HV Battery Current Sensor 2 Hall Low	0.00	Amps
HV Battery Current Sensor 1 Hall High	-0.85	Amps
BPCM temperature max	79	°F
Charge indicator Temp	90	°F
BPCM temperature min	77	°F
HV Battery Current HVBatCrnt	0.00	Amps
HV Cooling Speed Pump 1 Target	0	rpm
HV Cooling Speed pump 1 Speed	0	rpm
Cycles left to self heal	40	No Unit
WC and Circuitry Vcc Voltage	5.009	Volts
Isolation Circuitry Va	2.498	Volts
Isolation Circuitry Vd	0.000	Volts
Isolation Circuitry Vb	2.501	Volts
WC and Circuitry 2.5V Reference Voltage	2.501	Volts
HV Battery Charge Power 2sec	92124	watts
WC and CircuitryISO 8V Reference Voltage	7.929	Volts
WC and Circuitry Weld Contactor Sensor G (Pack Negative) Voltage	-92.4	Volts
HV Battery Charge Power 10sec	90546	watts
HV Battery Power	007530	watts
HV Battery Discharge Power 2sec	91407	watts
HV Battery Discharge Power 10sec	88494	watts
Battery Full AmpHr Capacity	50	AmpHrs
Cell Impedance Max Discharge	0	mOhms
Battery Lifetime Number Of Closes	514	
Battery Cell Voltage Average	3579	mV
Cell Impedance Mim Discharge	0	mOhms
Battery Cell Voltage Maximum	3581	mV
HV Sensor C OBCM (HVOBC Fuse) Voltage	32.70	Volts
HV Battery Voltage (cell sum)	343.60	Volts
Battery Cell Voltage Minimum	3572	mV

HV Sensor B Bus\Link (Pre-Fuse) Voltage	32.60	Volts
HV Battery Voltage (Module Sum)	343.70	Volts
HV Sensor A Pack Voltage	22.00	Volts
Battery Temperature Maximum Module	79	°F
Battery Temperature Average Module	79	°F
HV Sensor D Heater (HVHTR Fuse) Voltage	32.60	Volts
HV Sensor G Weld Contactor(Pack Negative) Voltage	-92.4	Volts
Battery Temperature Minimum Module	77	°F
HV Cooling Battery coolant outlet temp	79	°F
Isolation Vehicle Impedance	7.5602	Mega Ohms
HV Cooling OBCM temp inlet Temp	86	°F
HV Cooling Battery coolant inlet temp	77	°F
Isolation Battery Impedance	0.8480	Mega Ohms
HV Bat SOH-C	96.1	%
HV Bat SOH-R	98.8	%
BPCM Sec QA Error Counter	0	cnts
BPCM Sec MM Hw Reset Error Counter	0	cnts
BPCM L2 SM Hw Reset Error Counter	0	No Unit
Engine Speed	0	rpm
Accelerator position	65.9	%
Real time clock-OS Task Delay Timer	0	
Real time clock	429496.7295	seconds
Original Odometer Value	1770	miles
Most Recent Odometer Value	1770	miles

HCP | P062C-00 | Stored | Internal Control Module Vehicle Speed Performance-

NAME	VALUE	UNITS
DTC	06 2C 00	
Test Failed	False	
Pending DTC	True	
Test Failed This Operation Cycle	True	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Not Completed This Operation Cycle	False	
Test Failed Since Last Clear	True	
Occurrence flag		
Warning Indicator Requested	True	
Brake Switch Status		
Ignition State		
Propulsion System Active		
PRND Position Display		
HCP ePT Wake-Up Output		
HCP System Shutdown Command		
CBC Wake-Up Input		

HCP SW Version		
SW Build Release Version		
EPT LOC Diag Enable		
APM Status		
HV Contactor Status		
Impact Event		
OBCM Operating Mode		
J1772 Prox Detected State		
Hybrid System State		
PHEV Charging Status		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Ignition Cycle Counter		
Frequency Counter		
Real time clock		sec
RAM Stamps		Min
RAM stamps keyOn		sec
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Motor B Temp Sensor		°F
Motor A Temp Sensor		°F
Vehicle Speed		MPH
Barometric Pressure		PSI
Internal EPS Voltage Sense A		Volts
Engine Coolant Temperature		°F
Internal EPS Voltage Sense B		Volts
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
Actual Torque - Motor A		Ft-Lbs
Actual Torque - Motor B		Ft-Lbs
Available Regen Torque - Motor B		Ft-Lbs
Available Regen Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Available Motor Torque - Motor A		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 C		AMP
Motor B - Inverter Current - phase B		AMP
Motor B Resolver Angle		Degree

Motor A Resolver Angle		Degree
Electric Motor A Speed		rpm
Electric Motor B Speed		rpm
PIM DC Link Voltage - B		Volts
PIM DC Link Voltage - A		Volts
HV Battery Voltage from BPCM		Volts
Outside Air Temperature		°F
HV Battery Sleep Time		Days
Battery Feed Voltage 3 Sense		Volts
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 2 Sense		Volts
Inverter A IGBT Temperature for phase B		°F
Inverter A IGBT Temperature for phase A		°F
Inverter B IGBT Temperature for phase A		°F
Inverter B IGBT Temperature for phase C		°F
Inverter A IGBT Temperature for phase C		°F
Inverter B IGBT Temperature for phase B		°F
GPS Date - Month		
Distance Travelled with Light ON		miles
GPS Date - Day		Days
UTC Time - Hours		Hours
GPS Date - Year		Year
UTC Time - Minutes		
UTC Time - Seconds		seconds
ECU Time - Milliseconds		ms

HCP | P0642-00 | Active | Sensor Reference Voltage 1 Circuit Low-

NAME	VALUE	UNITS
Test Failed	True	
DTC	06 42 00	
Test Failed This Operation Cycle	True	
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	Occurrence	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
PRND Position Display	P	
Propulsion System Active	False	
Motor A Phase U Short Fault - High-Side	False	

Motor A Phase U Cross Conduction Fault - High-Side	False	
Motor A Phase U Over Current Fault - High-Side	False	
Motor A Phase U Thermal Warning Fault - High-Side	False	
Motor A Phase U Thermal Shutdown Fault - High-Side	False	
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side	True	
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor A Phase U SPI Error Fault - High-Side	True	
Motor A Phase U Hardware Error Fault - High-Side	False	
Motor A Phase U Short Fault - Low-Side	False	
Motor A Phase U Cross Conduction Fault - Low-Side	False	
Motor A Phase U Over Current Fault - Low-Side	False	
Motor A Phase U Thermal Warning Fault - Low-Side	False	
Motor A Phase U Thermal Shutdown Fault - Low-Side	False	
Motor A Phase U SPI Error Fault - Low-Side	True	
Motor A Phase U Hardware Error Fault - Low-Side	False	
Motor A Phase V Short Fault - High-Side	False	
Motor A Phase V Cross Conduction Fault - High-Side	False	
Motor A Phase V Over Current Fault - High-Side	False	
Motor A Phase V Thermal Warning Fault - High-Side	False	
Motor A Phase V Thermal Shutdown Fault - High-Side	False	
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side	True	
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor A Phase V SPI Error Fault - High-Side	True	
Motor A Phase V Hardware Error Fault - High-Side	False	
Motor A Phase V Short Fault - Low-Side	False	
Motor A Phase V Cross Conduction Fault - Low-Side	False	
Motor A Phase V Over Current Fault - Low-Side	False	
Motor A Phase V Thermal Warning Fault - Low-Side	False	
Motor A Phase V Thermal Shutdown Fault - Low-Side	False	
Motor A Phase V SPI Error Fault - Low-Side	True	
Motor A Phase V Hardware Error Fault - Low-Side	False	
Motor A Phase W Short Fault - High-Side	False	
Motor A Phase W Over Current Fault - High-Side	False	
Motor A Phase W Thermal Warning Fault - High-Side	False	
Motor A Phase W Thermal Shutdown Fault - High-Side	False	
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor A Phase W SPI Error Fault - High-Side	True	
Motor A Phase W Hardware Error Fault - High-Side	False	
Motor A Phase W Short Fault - Low-Side	False	
Motor A Phase W Cross Conduction Fault - Low-Side	False	
Motor A Phase W Over Current Fault - Low-Side	False	
Motor A Phase W Thermal Warning Fault - Low-Side	False	
Motor A Phase W Thermal Shutdown Fault - Low-Side	False	
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side	True	

Motor A Phase W SPI Error Fault - Low-Side	True	
Motor A Phase W Hardware Error Fault - Low-Side	False	
Hybrid System State	SNA	
HV Contactor Status	Open	
Inverter B Status Feedback	Inverter Faulted	
HCP ePT Wake-Up Output	On	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
APM Status	Off	
Impact Event	False	
HCP System Shutdown Command	Default	
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
Commanded Inverter A State	Inverter Disabled	
Inverter Status Feedback	Inverter Faulted	
Motor A Phase U Over Voltage Fault VH - High-Side	False	
Motor A Phase U Under Voltage Fault VH - High-Side	True	
Motor A Phase U Over Voltage Fault VL - High-Side	False	
Motor A Phase U Under Voltage Fault VL - High-Side	False	
Motor A Phase U Over Voltage Fault VDD - High-Side	False	
Motor A Phase U Under Voltage Fault VDD - High-Side	False	
Motor A Phase U Over Voltage Fault VH - Low-Side	False	
Motor A Phase U Under Voltage Fault VH - Low-Side	True	
Motor A Phase U Over Voltage Fault VL - Low-Side	False	
Motor A Phase U Under Voltage Fault VL - Low-Side	False	
Motor A Phase U Over Voltage Fault VDD - Low-Side	False	
Motor A Phase U Under Voltage Fault VDD - Low-Side	False	
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor A Phase V Over Voltage Fault VH - High-Side	False	
Motor A Phase V Under Voltage Fault VH - High-Side	True	
Motor A Phase V Over Voltage Fault VL - High-Side	False	
Motor A Phase V Under Voltage Fault VL - High-Side	False	
Motor A Phase V Over Voltage Fault VDD - High-SideSide	False	
Motor A Phase V Under Voltage Fault VDD - High-Side	False	
Motor A Phase V Over Voltage Fault VH - Low-Side	False	
Motor A Phase V Under Voltage Fault VH - Low-Side	True	
Motor A Phase V Over Voltage Fault VL - Low-Side	False	
Motor A Phase V Under Voltage Fault VL - Low-Side	False	
Motor A Phase V Over Voltage Fault VDD - Low-Side	False	
Motor A Phase V Under Voltage Fault VDD - Low-Side	False	
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor A Phase W Cross Conduction Fault - High-Side	False	

Motor A Phase W Over Voltage Fault VH - High-Side	False	
Motor A Phase W Under Voltage Fault VH - High-Side	True	
Motor A Phase W Over Voltage Fault VL - High-Side	False	
Motor A Phase W Under Voltage Fault VL - High-Side	False	
Motor A Phase W Over Voltage Fault VDD - High-Side	False	
Motor A Phase W Under Voltage Fault VDD - High-Side	False	
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side	True	
Motor A Phase W Over Voltage Fault VH - Low-Side	False	
Motor A Phase W Under Voltage Fault VH - Low-Side	True	
Motor A Phase W Over Voltage Fault VL - Low-Side	False	
Motor A Phase W Under Voltage Fault VL - Low-Side	False	
Motor A Phase W Over Voltage Fault VDD - Low-Side	False	
Motor A Phase W Under Voltage Fault VDD - Low-Side	False	
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side	True	
Inverter A Status Feedback	Inverter Faulted	
Original Odometer Value	1776.2	miles
Most Recent Odometer Value	1776.2	miles
Frequency Counter	9	
Real time clock	22680014	sec
Ignition Cycle Counter	0	
RAM stamps keyOn	570	sec
RAM Stamps	12993	Min
Accelerator Pedal Position	0	%
Engine Speed	0	rpm
HV Battery SOC	26	%
Vehicle Speed	0.0000	MPH
Barometric Pressure	15	PSI
Engine Coolant Temperature	196	°F
Actual Torque - Motor A	0.000	Ft-Lbs
Available Motor Torque - Motor A	0.000	Ft-Lbs
Inverter A Input DC Current	0.0	AMP
Electric Motor A Speed	0.0	rpm
Motor A - Inverter Current - phase A	0	AMP
Motor A - Inverter Current - phase B	-4	AMP
Motor A - Inverter Current - phase C	-4	AMP
Motor A Resolver Supply Voltage Value	03FD	Volts
Battery Feed Voltage 3 Sense	11.592	Volts
Battery Feed Voltage 2 Sense	11.808	Volts
Internal EPS Voltage Sense A	0.144	Volts
Internal EPS Voltage Sense B	0.144	Volts
PIM DC Link Voltage - A	24	Volts
PIM DC Link Voltage - B	7	Volts
Passive Pump Coolant Temp In Sensor	81	°F
Low Temp Active Pump Speed	0	rpm

High Temp Aux Pump - Actual Speed	0	rpm
Outside Air Temperature	62.6	°F
Actual Torque - Motor B	-22.032	Ft-Lbs
Battery Feed Voltage 1 Sense	11.808	Volts
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 B - Inverter Current - phase A	0	AMP
Motor B - Inverter Current - phase B	-4	AMP
Motor B - Inverter Current - phase C	0	AMP
Motor B Resolver Angle	146	Degree
Motor B Temp Sensor	124	°F
HV Battery Voltage from BPCM	180.00	Volts
Electric Motor B Speed	0.0	rpm
Inverter A IGBT Temperature for phase A	297	°F
Inverter A IGBT Temperature for phase B	320	°F
Inverter A IGBT Temperature for phase C	300	°F
Inverter B IGBT Temperature for phase A	315	°F
Inverter B IGBT Temperature for phase B	315	°F
Inverter B IGBT Temperature for phase C	277	°F
Distance Travelled with Light ON	0	miles
Motor B Torque	-22.032	Ft-Lbs
Motor A Torque	0.000	Ft-Lbs
HV Battery Sleep Time	0	Days
GPS Date - Year	0	Year
GPS Date - Month	1	
GPS Date - Day	1	Days
UTC Time - Hours	0	Hours
UTC Time - Minutes	0	
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms

HCP | P0652-00 | Active | Sensor Reference Voltage 2 Circuit Low-

NAME	VALUE	UNITS
DTC	06 52 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	Occurrence	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
PRND Position Display	N	
Propulsion System Active	False	
Commanded Inverter B State	Inverter Disabled	
Inverter B Status Feedback	Inverter Faulted	
Motor B Phase U Short Fault - High-Side	False	
Motor B Phase U Cross Conduction Fault - High-Side	False	
Motor B Phase U Thermal Warning Fault - High-Side	False	
Motor B Phase U Thermal Shutdown Fault - High-Side	False	
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase U SPI Error Fault - High-Side	False	
Motor B Phase U Hardware Error Fault - High-Side	False	
Motor B Phase U Short Fault - Low-Side	False	
Motor B Phase U Cross Conduction Fault - Low-Side	False	
Motor B Phase U Over Current Fault - Low-Side	True	
Motor B Phase U Thermal Warning Fault - Low-Side	True	
Motor B Phase U Thermal Shutdown Fault - Low-Side	True	
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor B Phase U SPI Error Fault - Low-Side	False	
Motor B Phase U Hardware Error Fault - Low-Side	False	
Motor B Phase V Short Fault - High-Side	False	
Motor B Phase V Cross Conduction Fault - High-Side	False	
Motor B Phase V Over Current Fault - High-Side	True	
Motor B Phase V Thermal Warning Fault - High-Side	False	
Motor B Phase V Thermal Shutdown Fault - High-Side	False	
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor B Phase V SPI Error Fault - High-Side	False	
Motor B Phase V Hardware Error Fault - High-Side	False	
Motor B Phase V Short Fault - Low-Side	False	
Motor B Phase V Cross Conduction Fault - Low-Side	False	
Motor B Phase V Over Current Fault - Low-Side	True	
Motor B Phase V Thermal Warning Fault - Low-Side	False	
Motor B Phase V Thermal Shutdown Fault - Low-Side	True	
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor B Phase V SPI Error Fault - Low-Side	False	
Motor B Phase V Hardware Error Fault - Low-Side	False	
Motor B Phase W Short Fault - High-Side	False	

Motor B Phase W Cross Conduction Fault - High-Side	False	
Motor B Phase W Over Current Fault - High-Side	True	
Motor B Phase W Thermal Warning Fault - High-Side	False	
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor B Phase W SPI Error Fault - High-Side	False	
Motor B Phase W Hardware Error Fault - High-Side	False	
Motor B Phase W Short Fault - Low-Side	False	
Motor B Phase W Cross Conduction Fault - Low-Side	False	
Motor B Phase W Over Current Fault - Low-Side	True	
Motor B Phase W Thermal Warning Fault - Low-Side	True	
Motor B Phase W Thermal Shutdown Fault - Low-Side	True	
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor B Phase W SPI Error Fault - Low-Side	False	
Motor B Phase W Hardware Error Fault - Low-Side	False	
Hybrid System State	SNA	
HCP ePT Wake-Up Output	On	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
HV Contactor Status	Open	
APM Status	Idle	
Impact Event	False	
HCP System Shutdown Command	Default	
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
Motor B Phase U Over Current Fault - High-Side	True	
Motor B Phase U Over Voltage Fault VH - High-Side	False	
Motor B Phase U Under Voltage Fault VH - High-Side	False	
Motor B Phase U Over Voltage Fault VL - High-Side	False	
Motor B Phase U Under Voltage Fault VL - High-Side	False	
Motor B Phase U Over Voltage Fault VDD - High-Side	False	
Motor B Phase U Under Voltage Fault VDD - High-Side	False	
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor B Phase U Over Voltage Fault VH - Low-Side	True	
Motor B Phase U Under Voltage Fault VH - Low-Side	True	
Motor B Phase U Over Voltage Fault VL - Low-Side	False	
Motor B Phase U Under Voltage Fault VL - Low-Side	False	
Motor B Phase U Over Voltage Fault VDD - Low-Side	False	
Motor B Phase U Under Voltage Fault VDD - Low-Side	False	
Motor B Phase V Over Voltage Fault VH - High-Side	False	
Motor B Phase V Under Voltage Fault VH - High-Side	False	
Motor B Phase V Over Voltage Fault VL - High-Side	False	
Motor B Phase V Under Voltage Fault VL - High-Side	False	

Motor B Phase V Over Voltage Fault VDD - High-Side	False	
Motor B Phase V Under Voltage Fault VDD - High-Side	False	
Motor B Phase V Over Voltage Fault VH - Low-Side	True	
Motor B Phase V Under Voltage Fault VH - Low-Side	False	
Motor B Phase V Over Voltage Fault VL - Low-Side	False	
Motor B Phase V Under Voltage Fault VL - Low-Side	True	
Motor B Phase V Over Voltage Fault VDD - Low-Side	False	
Motor B Phase V Under Voltage Fault VDD - Low-Side	False	
Motor B Phase W Over Voltage Fault VH - High-Side	False	
Motor B Phase W Under Voltage Fault VH - High-Side	False	
Motor B Phase W Over Voltage Fault VL - High-Side	False	
Motor B Phase W Under Voltage Fault VL - High-Side	False	
Motor B Phase W Over Voltage Fault VDD - High-Side	False	
Motor B Phase W Under Voltage Fault VDD - High-Side	False	
Motor B Phase W Thermal Shutdown Fault - High-Side	False	
Motor B Phase W Over Voltage Fault VH - Low-Side	False	
Motor B Phase W Under Voltage Fault VH - Low-Side	True	
Motor B Phase W Over Voltage Fault VL - Low-Side	False	
Motor B Phase W Under Voltage Fault VL - Low-Side	False	
Motor B Phase W Over Voltage Fault VDD - Low-Side	False	
Motor B Phase W Under Voltage Fault VDD - Low-Side	False	
Original Odometer Value	1776.2	miles
Most Recent Odometer Value	1776.2	miles
Frequency Counter	1	
Ignition Cycle Counter	0	
Real time clock	22679928	sec
RAM stamps keyOn	480	sec
RAM Stamps	12992	Min
Accelerator Pedal Position	0	%
Engine Speed	0	rpm
HV Battery SOC	26	%
Vehicle Speed	27.0345	MPH
Barometric Pressure	15	PSI
Engine Coolant Temperature	192	°F
Actual Torque - Motor B	-6.729	Ft-Lbs
Available Motor Torque - Motor B	0.000	Ft-Lbs
Inverter B Input DC Current	0.0	AMP
Electric Motor B Speed	0.0	rpm
Motor B - Inverter Current - phase A	-72	AMP
Motor B - Inverter Current - phase B	176	AMP
Motor B - Inverter Current - phase C	-112	AMP
Motor B Resolver Supply Voltage Value	15.75	Volts
Battery Feed Voltage 2 Sense	12.312	Volts
Internal EPS Voltage Sense A	8.136	Volts

Internal EPS Voltage Sense B	1.368	Volts
Battery Feed Voltage 1 Sense	12.312	Volts
Battery Feed Voltage 3 Sense	12.600	Volts
Actual Torque - Motor A	0.184	Ft-Lbs
Available Motor Torque - Motor A	21.386	Ft-Lbs
Available Regen Torque - Motor A	-21.386	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	0	AMP
Motor A - Inverter Current - phase B	0	AMP
Motor A - Inverter Current - phase C	0	AMP
Motor A Resolver Angle	42	Degree
Motor A Temp Sensor	129	°F
Outside Air Temperature	62.6	°F
HV Battery Voltage from BPCM	180.00	Volts
Electric Motor A Speed	-3684.0	rpm
PIM DC Link Voltage - A	75	Volts
PIM DC Link Voltage - B	279	Volts
Inverter A IGBT Temperature for phase A	347	°F
Inverter A IGBT Temperature for phase B	347	°F
Inverter A IGBT Temperature for phase C	347	°F
Inverter B IGBT Temperature for phase A	347	°F
Inverter B IGBT Temperature for phase B	347	°F
Inverter B IGBT Temperature for phase C	334	°F
Distance Travelled with Light ON	0	miles
Motor A Torque	0.184	Ft-Lbs
Motor B Torque	-6.729	Ft-Lbs
HV Battery Sleep Time	0	Days
GPS Date - Year	0	Year
GPS Date - Month	1	
GPS Date - Day	1	Days
UTC Time - Hours	0	Hours
UTC Time - Minutes	0	
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms

HCP | P06B1-00 | Active | Sensor Power Supply 1 Circuit Low-

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

Test Not Completed Since Last Clear	—	
Test Failed Since Last Clear	—	
Test Not Completed This Operation Cycle	—	
Warning Indicator Requested	—	
Occurrence flag	—	
Brake Switch Status	—	
PHEV Charging Status	—	
Ignition State	—	
PRND Position Display	—	
Propulsion System Active	—	
Motor A Resolver Offset Learn Erase	—	
Motor A Resolver Offset Learning Status Flag	—	
Motor B Resolver Offset Learning Status Flag	—	
Motor A Resolver to Digital Low Level Driver Faults	—	
Motor B Resolver to Digital Low Level Driver Faults	—	
Hybrid System State	—	
HCP ePT Wake-Up Output	—	
CBC Wake-Up Input	—	
EPT LOC Diag Enable	—	
HV Contactor Status	—	
APM Status	—	
Impact Event	—	
HCP System Shutdown Command	—	
OBCM Operating Mode	—	
J1772 Prox Detected State	—	
Motor B Resolver Offset Learn Erase	—	
Original Odometer Value	—	miles
Most Recent Odometer Value	—	miles
Frequency Counter	—	
Ignition Cycle Counter	—	
Real time clock	—	sec
RAM stamps keyOn	—	sec
RAM Stamps	—	Min
Accelerator Pedal Position	—	%
Engine Speed	—	rpm
HV Battery SOC	—	%
Motor A Temp Sensor	—	°F
Vehicle Speed	—	MPH
Motor B Temp Sensor	—	°F
Barometric Pressure	—	PSI
Engine Coolant Temperature	—	°F
Motor A Resolver Angle Offset	—	Degree
Motor B Resolver Angle Offset	—	Degree
Motor A Resolver Supply Voltage Value	—	Volts

Motor B Resolver Supply Voltage Value	—	Volts
Battery Feed Voltage 2 Sense	—	Volts
Internal EPS Voltage Sense A	—	Volts
Internal EPS Voltage Sense B	—	Volts
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
Electric Motor A Speed	—	rpm
Electric Motor B Speed	—	rpm
Battery Feed Voltage 1 Sense	—	Volts
Battery Feed Voltage 3 Sense	—	Volts
Motor A - Inverter Current - phase B	—	AMP
Motor A - Inverter Current - phase A	—	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
Outside Air Temperature	—	°F
HV Battery Voltage from BPCM	—	Volts
PIM DC Link Voltage - A	—	Volts
PIM DC Link Voltage - B	—	Volts
Inverter A IGBT Temperature for phase B	—	°F
Inverter A IGBT Temperature for phase A	—	°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
Distance Travelled with Light ON	—	miles
Motor A Torque	—	Ft-Lbs
Motor B Torque	—	Ft-Lbs
HV Battery Sleep Time	—	Days
GPS Date - Year	—	Year
GPS Date - Month	—	
GPS Date - Day	—	Days
UTC Time - Hours	—	Hours
UTC Time - Seconds	—	seconds
UTC Time - Minutes	—	
ECU Time - Milliseconds	—	ms

HCP | P06B4-00 | Active | Sensor Power Supply 2 Circuit Low-

NAME	VALUE	UNITS
DTC	06 B4 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Motor A Resolver Offset Learn Erase		
Motor A Resolver Offset Learning Status Flag		
Motor B Resolver Offset Learning Status Flag		
Motor A Resolver to Digital Low Level Driver Faults		
Motor B Resolver to Digital Low Level Driver Faults		
Hybrid System State		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Motor B Resolver Offset Learn Erase		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
RAM stamps keyOn		sec
Real time clock		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH

Motor A Temp Sensor		°F
Motor B Temp Sensor		°F
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Motor A Resolver Angle Offset		Degree
Motor B Resolver Angle Offset		Degree
Motor A Resolver Supply Voltage Value		Volts
Motor B Resolver Supply Voltage Value		Volts
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
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
Electric Motor B Speed		rpm
Electric Motor A Speed		rpm
Battery Feed Voltage 1 Sense		Volts
Motor A - Inverter Current - phase A		AMP
Battery Feed Voltage 3 Sense		Volts
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
Outside Air Temperature		°F
HV Battery Voltage from BPCM		Volts
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
Distance Travelled with Light ON		miles
Inverter B IGBT Temperature for phase C		°F
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
GPS Date - Year		Year

GPS Date - Month		
GPS Date - Day		Days
UTC Time - Hours		Hours
UTC Time - Seconds		seconds
UTC Time - Minutes		
ECU Time - Milliseconds		ms

HCP | P0A3C-00 | Stored | Drive Motor A Inverter Over Temperature-

NAME	VALUE	UNITS
DTC	0A 3C 00	
Test Failed	False	
Test Failed This Operation Cycle	True	
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	
Occurrence flag		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Motor A Phase U Short Fault - High-Side		
Motor A Phase U Cross Conduction Fault - High-Side		
Motor A Phase U Over Current Fault - High-Side		
Motor A Phase U Thermal Warning Fault - High-Side		
Motor A Phase U Thermal Shutdown Fault - High-Side		
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase U SPI Error Fault - High-Side		
Motor A Phase U Hardware Error Fault - High-Side		
Motor A Phase U Short Fault - Low-Side		
Motor A Phase U Cross Conduction Fault - Low-Side		
Motor A Phase U Over Current Fault - Low-Side		
Motor A Phase U Thermal Warning Fault - Low-Side		
Motor A Phase U Thermal Shutdown Fault - Low-Side		
Motor A Phase U SPI Error Fault - Low-Side		
Motor A Phase U Hardware Error Fault - Low-Side		
Motor A Phase V Short Fault - High-Side		
Motor A Phase V Cross Conduction Fault - High-Side		
Motor A Phase V Over Current Fault - High-Side		
Motor A Phase V Thermal Warning Fault - High-Side		

Motor A Phase V Thermal Shutdown Fault - High-Side		
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase V SPI Error Fault - High-Side		
Motor A Phase V Hardware Error Fault - High-Side		
Motor A Phase V Short Fault - Low-Side		
Motor A Phase V Cross Conduction Fault - Low-Side		
Motor A Phase V Over Current Fault - Low-Side		
Motor A Phase V Thermal Warning Fault - Low-Side		
Motor A Phase V Thermal Shutdown Fault - Low-Side		
Motor A Phase V SPI Error Fault - Low-Side		
Motor A Phase V Hardware Error Fault - Low-Side		
Motor A Phase W Short Fault - High-Side		
Motor A Phase W Over Current Fault - High-Side		
Motor A Phase W Thermal Warning Fault - High-Side		
Motor A Phase W Thermal Shutdown Fault - High-Side		
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase W SPI Error Fault - High-Side		
Motor A Phase W Hardware Error Fault - High-Side		
Motor A Phase W Short Fault - Low-Side		
Motor A Phase W Cross Conduction Fault - Low-Side		
Motor A Phase W Over Current Fault - Low-Side		
Motor A Phase W Thermal Warning Fault - Low-Side		
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase W Thermal Shutdown Fault - Low-Side		
Motor A Phase W SPI Error Fault - Low-Side		
Motor A Phase W Hardware Error Fault - Low-Side		
Hybrid System State		
HV Contactor Status		
Inverter B Status Feedback		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Commanded Inverter A State		
Inverter Status Feedback		
Motor A Phase U Over Voltage Fault VH - High-Side		
Motor A Phase U Under Voltage Fault VH - High-Side		
Motor A Phase U Over Voltage Fault VL - High-Side		
Motor A Phase U Under Voltage Fault VL - High-Side		

Motor A Phase U Over Voltage Fault VDD - High-Side		
Motor A Phase U Under Voltage Fault VDD - High-Side		
Motor A Phase U Over Voltage Fault VH - Low-Side		
Motor A Phase U Under Voltage Fault VH - Low-Side		
Motor A Phase U Over Voltage Fault VL - Low-Side		
Motor A Phase U Under Voltage Fault VL - Low-Side		
Motor A Phase U Over Voltage Fault VDD - Low-Side		
Motor A Phase U Under Voltage Fault VDD - Low-Side		
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase V Over Voltage Fault VH - High-Side		
Motor A Phase V Under Voltage Fault VH - High-Side		
Motor A Phase V Over Voltage Fault VL - High-Side		
Motor A Phase V Under Voltage Fault VL - High-Side		
Motor A Phase V Over Voltage Fault VDD - High-SideSide		
Motor A Phase V Under Voltage Fault VDD - High-Side		
Motor A Phase V Over Voltage Fault VH - Low-Side		
Motor A Phase V Under Voltage Fault VH - Low-Side		
Motor A Phase V Over Voltage Fault VL - Low-Side		
Motor A Phase V Under Voltage Fault VL - Low-Side		
Motor A Phase V Over Voltage Fault VDD - Low-Side		
Motor A Phase V Under Voltage Fault VDD - Low-Side		
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase W Cross Conduction Fault - High-Side		
Motor A Phase W Over Voltage Fault VH - High-Side		
Motor A Phase W Under Voltage Fault VH - High-Side		
Motor A Phase W Over Voltage Fault VL - High-Side		
Motor A Phase W Under Voltage Fault VL - High-Side		
Motor A Phase W Over Voltage Fault VDD - High-Side		
Motor A Phase W Under Voltage Fault VDD - High-Side		
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase W Over Voltage Fault VH - Low-Side		
Motor A Phase W Under Voltage Fault VH - Low-Side		
Motor A Phase W Over Voltage Fault VL - Low-Side		
Motor A Phase W Under Voltage Fault VL - Low-Side		
Motor A Phase W Over Voltage Fault VDD - Low-Side		
Motor A Phase W Under Voltage Fault VDD - Low-Side		
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Inverter A Status Feedback		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Real time clock		sec

Ignition Cycle Counter		
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		Ft-Lbs
Inverter A Input DC Current		AMP
Electric Motor A Speed		rpm
Motor A - Inverter Current - phase A		AMP
Motor A - Inverter Current - phase B		AMP
Motor A - Inverter Current - phase C		AMP
Battery Feed Voltage 2 Sense		Volts
Motor A Resolver Supply Voltage Value		Volts
Battery Feed Voltage 3 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
PIM DC Link Voltage - A		Volts
PIM DC Link Voltage - B		Volts
Passive Pump Coolant Temp In Sensor		°F
Low Temp Active Pump Speed		rpm
High Temp Aux Pump - Actual Speed		rpm
Outside Air Temperature		°F
Battery Feed Voltage 1 Sense		Volts
Actual Torque - Motor B		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 B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Motor B Resolver Angle		Degree
Motor B Temp Sensor		°F
HV Battery Voltage from BPCM		Volts
Electric Motor B Speed		rpm
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
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
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 | P0A3D-00 | Stored | Drive Motor B Inverter Over Temperature-

NAME	VALUE	UNITS
DTC	0A 3D 00	
Test Failed	False	
Test Failed This Operation Cycle	True	
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	
Occurrence flag		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Commanded Inverter B State		
Inverter B Status Feedback		
Motor B Phase U Short Fault - High-Side		
Motor B Phase U Cross Conduction Fault - High-Side		
Motor B Phase U Thermal Warning Fault - High-Side		
Motor B Phase U Thermal Shutdown Fault - High-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase U SPI Error Fault - High-Side		
Motor B Phase U Hardware Error Fault - High-Side		
Motor B Phase U Short Fault - Low-Side		
Motor B Phase U Cross Conduction Fault - Low-Side		
Motor B Phase U Over Current Fault - Low-Side		

Motor B Phase U Thermal Warning Fault - Low-Side		
Motor B Phase U Thermal Shutdown Fault - Low-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase U SPI Error Fault - Low-Side		
Motor B Phase U Hardware Error Fault - Low-Side		
Motor B Phase V Short Fault - High-Side		
Motor B Phase V Cross Conduction Fault - High-Side		
Motor B Phase V Over Current Fault - High-Side		
Motor B Phase V Thermal Warning Fault - High-Side		
Motor B Phase V Thermal Shutdown Fault - High-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase V SPI Error Fault - High-Side		
Motor B Phase V Hardware Error Fault - High-Side		
Motor B Phase V Short Fault - Low-Side		
Motor B Phase V Cross Conduction Fault - Low-Side		
Motor B Phase V Over Current Fault - Low-Side		
Motor B Phase V Thermal Warning Fault - Low-Side		
Motor B Phase V Thermal Shutdown Fault - Low-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase V SPI Error Fault - Low-Side		
Motor B Phase V Hardware Error Fault - Low-Side		
Motor B Phase W Short Fault - High-Side		
Motor B Phase W Cross Conduction Fault - High-Side		
Motor B Phase W Over Current Fault - High-Side		
Motor B Phase W Thermal Warning Fault - High-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase W SPI Error Fault - High-Side		
Motor B Phase W Hardware Error Fault - High-Side		
Motor B Phase W Short Fault - Low-Side		
Motor B Phase W Cross Conduction Fault - Low-Side		
Motor B Phase W Over Current Fault - Low-Side		
Motor B Phase W Thermal Warning Fault - Low-Side		
Motor B Phase W Thermal Shutdown Fault - Low-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase W SPI Error Fault - Low-Side		
Motor B Phase W Hardware Error Fault - Low-Side		
Hybrid System State		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		

EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Motor B Phase U Over Current Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - High-Side		
Motor B Phase U Under Voltage Fault VH - High-Side		
Motor B Phase U Over Voltage Fault VL - High-Side		
Motor B Phase U Under Voltage Fault VL - High-Side		
Motor B Phase U Under Voltage Fault VDD - High-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase U Over Voltage Fault VDD - High-Side		
Motor B Phase U Over Voltage Fault VH - Low-Side		
Motor B Phase U Under Voltage Fault VH - Low-Side		
Motor B Phase U Over Voltage Fault VL - Low-Side		
Motor B Phase U Under Voltage Fault VL - Low-Side		
Motor B Phase U Over Voltage Fault VDD - Low-Side		
Motor B Phase U Under Voltage Fault VDD - Low-Side		
Motor B Phase V Over Voltage Fault VH - High-Side		
Motor B Phase V Under Voltage Fault VH - High-Side		
Motor B Phase V Over Voltage Fault VL - High-Side		
Motor B Phase V Under Voltage Fault VL - High-Side		
Motor B Phase V Over Voltage Fault VDD - High-Side		
Motor B Phase V Under Voltage Fault VDD - High-Side		
Motor B Phase V Over Voltage Fault VH - Low-Side		
Motor B Phase V Under Voltage Fault VH - Low-Side		
Motor B Phase V Over Voltage Fault VL - Low-Side		
Motor B Phase V Under Voltage Fault VL - Low-Side		
Motor B Phase V Over Voltage Fault VDD - Low-Side		
Motor B Phase V Under Voltage Fault VDD - Low-Side		
Motor B Phase W Over Voltage Fault VH - High-Side		
Motor B Phase W Under Voltage Fault VH - High-Side		
Motor B Phase W Over Voltage Fault VL - High-Side		
Motor B Phase W Under Voltage Fault VL - High-Side		
Motor B Phase W Over Voltage Fault VDD - High-Side		
Motor B Phase W Under Voltage Fault VDD - High-Side		
Motor B Phase W Thermal Shutdown Fault - High-Side		
Motor B Phase W Over Voltage Fault VH - Low-Side		
Motor B Phase W Under Voltage Fault VH - Low-Side		
Motor B Phase W Over Voltage Fault VL - Low-Side		
Motor B Phase W Under Voltage Fault VL - Low-Side		

Motor B Phase W Over Voltage Fault VDD - Low-Side		
Motor B Phase W Under Voltage Fault VDD - Low-Side		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Actual Torque - Motor B		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Inverter B Input DC Current		AMP
Electric Motor B Speed		rpm
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Motor B Resolver Supply Voltage Value		Volts
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		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 A Resolver Angle		Degree
Motor A Temp Sensor		°F
Outside Air Temperature		°F
HV Battery Voltage from BPCM		Volts
Electric Motor A 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
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
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 | P0A3F-00 | Active | Drive Motor A Position Sensor 1 Circuit-

NAME	VALUE	UNITS
DTC	—	
Test Failed	—	
Test Failed This Operation Cycle	—	
Pending DTC	—	
Confirmed DTC	—	
Test Not Completed Since Last Clear	—	
Test Failed Since Last Clear	—	
Test Not Completed This Operation Cycle	—	
Warning Indicator Requested	—	
Occurrence flag	—	
Brake Switch Status	—	
PHEV Charging Status	—	
Ignition State	—	
PRND Position Display	—	
Propulsion System Active	—	
Motor A Resolver Offset Learn Erase	—	
Motor A Resolver Offset Learning Status Flag	—	
Motor B Resolver Offset Learning Status Flag	—	
Motor A Resolver to Digital Low Level Driver Faults	—	
Motor B Resolver to Digital Low Level Driver Faults	—	
Hybrid System State	—	
HCP ePT Wake-Up Output	—	
CBC Wake-Up Input	—	
EPT LOC Diag Enable	—	

HV Contactor Status	—	
APM Status	—	
Impact Event	—	
HCP System Shutdown Command	—	
OBCM Operating Mode	—	
J1772 Prox Detected State	—	
Motor B Resolver Offset Learn Erase	—	
Original Odometer Value	—	miles
Most Recent Odometer Value	—	miles
Frequency Counter	—	
Ignition Cycle Counter	—	
Real time clock	—	sec
RAM stamps keyOn	—	sec
RAM Stamps	—	Min
Accelerator Pedal Position	—	%
Engine Speed	—	rpm
HV Battery SOC	—	%
Vehicle Speed	—	MPH
Motor A Temp Sensor	—	°F
Motor B Temp Sensor	—	°F
Barometric Pressure	—	PSI
Engine Coolant Temperature	—	°F
Motor A Resolver Angle Offset	—	Degree
Motor B Resolver Angle Offset	—	Degree
Motor A Resolver Supply Voltage Value	—	Volts
Motor B Resolver Supply Voltage Value	—	Volts
Battery Feed Voltage 2 Sense	—	Volts
Internal EPS Voltage Sense A	—	Volts
Internal EPS Voltage Sense B	—	Volts
Actual Torque - Motor A	—	Ft-Lbs
Available Motor Torque - Motor A	—	Ft-Lbs
Actual Torque - Motor B	—	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
Electric Motor A Speed	—	rpm
Electric Motor B Speed	—	rpm
Battery Feed Voltage 3 Sense	—	Volts
Battery Feed Voltage 1 Sense	—	Volts
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 C	—	AMP
Motor B - Inverter Current - phase B	—	AMP
Outside Air Temperature	—	°F
HV Battery Voltage from BPCM	—	Volts
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 C	—	°F
Inverter A IGBT Temperature for phase B	—	°F
Inverter B IGBT Temperature for phase B	—	°F
Inverter B IGBT Temperature for phase A	—	°F
Inverter B IGBT Temperature for phase C	—	°F
Distance Travelled with Light ON	—	miles
Motor A Torque	—	Ft-Lbs
Motor B Torque	—	Ft-Lbs
HV Battery Sleep Time	—	Days
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 | P0A40-00 | Active | Drive Motor A Position Sensor 1 Circuit Range/Performance-

NAME	VALUE	UNITS
DTC	0A 40 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	
Occurrence flag		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Motor A Resolver Offset Learn Erase		
Motor A Resolver Offset Learning Status Flag		

Motor B Resolver Offset Learning Status Flag		
Motor A Resolver to Digital Low Level Driver Faults		
Motor B Resolver to Digital Low Level Driver Faults		
Hybrid System State		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Motor B Resolver Offset Learn Erase		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
RAM stamps keyOn		sec
RAM Stamps		Min
Real time clock		sec
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH
Motor A Temp Sensor		°F
Motor B Temp Sensor		°F
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Motor A Resolver Angle Offset		Degree
Motor B Resolver Angle Offset		Degree
Motor A Resolver Supply Voltage Value		Volts
Motor B Resolver Supply Voltage Value		Volts
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense B		Volts
Internal EPS Voltage Sense A		Volts
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

Electric Motor A Speed		rpm
Electric Motor B Speed		rpm
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
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
Outside Air Temperature		°F
HV Battery Voltage from BPCM		Volts
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 B		°F
Inverter B IGBT Temperature for phase A		°F
Inverter B IGBT Temperature for phase C		°F
Motor A Torque		Ft-Lbs
Distance Travelled with Light ON		miles
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
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 | P0A46-00 | Active | Drive Motor B Position Sensor 1 Circuit Range/Performance-

NAME	VALUE	UNITS
DTC	0A 46 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	
Occurrence flag		

Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Motor A Resolver Offset Learn Erase		
Motor A Resolver Offset Learning Status Flag		
Motor B Resolver Offset Learning Status Flag		
Motor A Resolver to Digital Low Level Driver Faults		
Motor B Resolver to Digital Low Level Driver Faults		
Hybrid System State		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Motor B Resolver Offset Learn Erase		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Motor A Temp Sensor		°F
Vehicle Speed		MPH
Motor B Temp Sensor		°F
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Motor A Resolver Angle Offset		Degree
Motor B Resolver Angle Offset		Degree
Motor A Resolver Supply Voltage Value		Volts
Motor B Resolver Supply Voltage Value		Volts
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
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
Commanded Torque - Motor A		Ft-Lbs
Available Regen Torque - Motor B		Ft-Lbs
Commanded Torque - Motor B		Ft-Lbs
Electric Motor A Speed		rpm
Electric Motor B Speed		rpm
Battery Feed Voltage 3 Sense		Volts
Battery Feed Voltage 1 Sense		Volts
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
Outside Air Temperature		°F
HV Battery Voltage from BPCM		Volts
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 C		°F
Inverter B IGBT Temperature for phase B		°F
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
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 | P0A79-00 | Active | Drive Motor B Inverter Performance-

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

Pending DTC	—	
Confirmed DTC	—	
Test Not Completed Since Last Clear	—	
Test Failed Since Last Clear	—	
Test Not Completed This Operation Cycle	—	
Warning Indicator Requested	—	
Occurrence flag	—	
Brake Switch Status	—	
PHEV Charging Status	—	
Ignition State	—	
PRND Position Display	—	
Propulsion System Active	—	
Commanded Inverter B State	—	
Inverter B Status Feedback	—	
Motor B Phase U Short Fault - High-Side	—	
Motor B Phase U Cross Conduction Fault - High-Side	—	
Motor B Phase U Thermal Warning Fault - High-Side	—	
Motor B Phase U Thermal Shutdown Fault - High-Side	—	
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side	—	
Motor B Phase U SPI Error Fault - High-Side	—	
Motor B Phase U Hardware Error Fault - High-Side	—	
Motor B Phase U Short Fault - Low-Side	—	
Motor B Phase U Cross Conduction Fault - Low-Side	—	
Motor B Phase U Over Current Fault - Low-Side	—	
Motor B Phase U Thermal Warning Fault - Low-Side	—	
Motor B Phase U Thermal Shutdown Fault - Low-Side	—	
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side	—	
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side	—	
Motor B Phase U SPI Error Fault - Low-Side	—	
Motor B Phase U Hardware Error Fault - Low-Side	—	
Motor B Phase V Short Fault - High-Side	—	
Motor B Phase V Cross Conduction Fault - High-Side	—	
Motor B Phase V Over Current Fault - High-Side	—	
Motor B Phase V Thermal Warning Fault - High-Side	—	
Motor B Phase V Thermal Shutdown Fault - High-Side	—	
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side	—	
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side	—	
Motor B Phase V SPI Error Fault - High-Side	—	
Motor B Phase V Hardware Error Fault - High-Side	—	
Motor B Phase V Short Fault - Low-Side	—	
Motor B Phase V Cross Conduction Fault - Low-Side	—	
Motor B Phase V Over Current Fault - Low-Side	—	
Motor B Phase V Thermal Warning Fault - Low-Side	—	
Motor B Phase V Thermal Shutdown Fault - Low-Side	—	

Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side	—	
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side	—	
Motor B Phase V SPI Error Fault - Low-Side	—	
Motor B Phase V Hardware Error Fault - Low-Side	—	
Motor B Phase W Short Fault - High-Side	—	
Motor B Phase W Cross Conduction Fault - High-Side	—	
Motor B Phase W Over Current Fault - High-Side	—	
Motor B Phase W Thermal Warning Fault - High-Side	—	
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side	—	
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side	—	
Motor B Phase W SPI Error Fault - High-Side	—	
Motor B Phase W Hardware Error Fault - High-Side	—	
Motor B Phase W Short Fault - Low-Side	—	
Motor B Phase W Cross Conduction Fault - Low-Side	—	
Motor B Phase W Over Current Fault - Low-Side	—	
Motor B Phase W Thermal Warning Fault - Low-Side	—	
Motor B Phase W Thermal Shutdown Fault - Low-Side	—	
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side	—	
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side	—	
Motor B Phase W SPI Error Fault - Low-Side	—	
Motor B Phase W Hardware Error Fault - Low-Side	—	
Hybrid System State	—	
HCP ePT Wake-Up Output	—	
CBC Wake-Up Input	—	
EPT LOC Diag Enable	—	
HV Contactor Status	—	
APM Status	—	
Impact Event	—	
HCP System Shutdown Command	—	
OBCM Operating Mode	—	
J1772 Prox Detected State	—	
Motor B Phase U Over Current Fault - High-Side	—	
Motor B Phase U Over Voltage Fault VH - High-Side	—	
Motor B Phase U Under Voltage Fault VH - High-Side	—	
Motor B Phase U Over Voltage Fault VL - High-Side	—	
Motor B Phase U Under Voltage Fault VL - High-Side	—	
Motor B Phase U Over Voltage Fault VDD - High-Side	—	
Motor B Phase U Under Voltage Fault VDD - High-Side	—	
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side	—	
Motor B Phase U Over Voltage Fault VH - Low-Side	—	
Motor B Phase U Under Voltage Fault VH - Low-Side	—	
Motor B Phase U Over Voltage Fault VL - Low-Side	—	
Motor B Phase U Under Voltage Fault VL - Low-Side	—	
Motor B Phase U Over Voltage Fault VDD - Low-Side	—	

Motor B Phase U Under Voltage Fault VDD - Low-Side	—	
Motor B Phase V Over Voltage Fault VH - High-Side	—	
Motor B Phase V Under Voltage Fault VH - High-Side	—	
Motor B Phase V Over Voltage Fault VL - High-Side	—	
Motor B Phase V Under Voltage Fault VL - High-Side	—	
Motor B Phase V Over Voltage Fault VDD - High-Side	—	
Motor B Phase V Under Voltage Fault VDD - High-Side	—	
Motor B Phase V Over Voltage Fault VH - Low-Side	—	
Motor B Phase V Under Voltage Fault VH - Low-Side	—	
Motor B Phase V Over Voltage Fault VL - Low-Side	—	
Motor B Phase V Under Voltage Fault VL - Low-Side	—	
Motor B Phase V Over Voltage Fault VDD - Low-Side	—	
Motor B Phase V Under Voltage Fault VDD - Low-Side	—	
Motor B Phase W Over Voltage Fault VH - High-Side	—	
Motor B Phase W Under Voltage Fault VH - High-Side	—	
Motor B Phase W Over Voltage Fault VL - High-Side	—	
Motor B Phase W Under Voltage Fault VL - High-Side	—	
Motor B Phase W Over Voltage Fault VDD - High-Side	—	
Motor B Phase W Under Voltage Fault VDD - High-Side	—	
Motor B Phase W Thermal Shutdown Fault - High-Side	—	
Motor B Phase W Over Voltage Fault VH - Low-Side	—	
Motor B Phase W Under Voltage Fault VH - Low-Side	—	
Motor B Phase W Over Voltage Fault VL - Low-Side	—	
Motor B Phase W Under Voltage Fault VL - Low-Side	—	
Motor B Phase W Over Voltage Fault VDD - Low-Side	—	
Motor B Phase W Under Voltage Fault VDD - Low-Side	—	
Original Odometer Value	—	miles
Most Recent Odometer Value	—	miles
Frequency Counter	—	
Ignition Cycle Counter	—	
Real time clock	—	sec
RAM stamps keyOn	—	sec
RAM Stamps	—	Min
Accelerator Pedal Position	—	%
Engine Speed	—	rpm
HV Battery SOC	—	%
Vehicle Speed	—	MPH
Barometric Pressure	—	PSI
Engine Coolant Temperature	—	°F
Actual Torque - Motor B	—	Ft-Lbs
Available Motor Torque - Motor B	—	Ft-Lbs
Inverter B Input DC Current	—	AMP
Electric Motor B Speed	—	rpm
Motor B - Inverter Current - phase A	—	AMP

Motor B - Inverter Current - phase B	—	AMP
Motor B - Inverter Current - phase C	—	AMP
Motor B Resolver Supply Voltage Value	—	Volts
Battery Feed Voltage 2 Sense	—	Volts
Internal EPS Voltage Sense A	—	Volts
Internal EPS Voltage Sense B	—	Volts
Battery Feed Voltage 1 Sense	—	Volts
Battery Feed Voltage 3 Sense	—	Volts
Actual Torque - Motor A	—	Ft-Lbs
Available Motor Torque - Motor A	—	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 A Resolver Angle	—	Degree
Motor A Temp Sensor	—	°F
Outside Air Temperature	—	°F
HV Battery Voltage from BPCM	—	Volts
Electric Motor A 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
Distance Travelled with Light ON	—	miles
Motor A Torque	—	Ft-Lbs
Motor B Torque	—	Ft-Lbs
HV Battery Sleep Time	—	Days
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 | P0AFA-00 | Active | Hybrid/EV Battery System Voltage Low-

NAME	VALUE	UNITS

DTC	0A FA 00	
Test Failed	True	
Pending DTC	True	
Test Failed This Operation Cycle	True	
Confirmed DTC	False	
Test Failed Since Last Clear	True	
Test Not Completed Since Last Clear	False	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	
Occurrence flag		
Brake Switch Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
CBC Wake-Up Input		
HCP ePT Wake-Up Output		
HCP System Shutdown Command		
SW Build Release Version		
HCP SW Version		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
OBCM Operating Mode		
J1772 Prox Detected State		
Hybrid System State		
PHEV Charging Status		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
Accelerator Pedal Position		%
RAM Stamps		Min
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH
Motor A Temp Sensor		°F
Barometric Pressure		PSI
Motor B Temp Sensor		°F
Internal EPS Voltage Sense A		Volts
Engine Coolant Temperature		°F
Internal EPS Voltage Sense B		Volts

Motor B Torque		Ft-Lbs
Motor A Torque		Ft-Lbs
Actual Torque - Motor A		Ft-Lbs
Actual Torque - Motor B		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Available Motor Torque - Motor A		Ft-Lbs
Available Regen Torque - Motor A		Ft-Lbs
Available Regen Torque - Motor B		Ft-Lbs
Motor A - Inverter Current - phase A		AMP
Commanded Torque - Motor A		Ft-Lbs
Commanded Torque - Motor B		Ft-Lbs
Motor A - Inverter Current - phase C		AMP
Motor A - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase C		AMP
Motor B - Inverter Current - phase B		AMP
Motor B Resolver Angle		Degree
Electric Motor A Speed		rpm
Motor A Resolver Angle		Degree
Electric Motor B Speed		rpm
PIM DC Link Voltage - A		Volts
PIM DC Link Voltage - B		Volts
HV Battery Voltage from BPCM		Volts
Outside Air Temperature		°F
HV Battery Sleep Time		Days
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Battery Feed Voltage 2 Sense		Volts
Inverter A IGBT Temperature for phase A		°F
Inverter A IGBT Temperature for phase B		°F
Inverter B IGBT Temperature for phase A		°F
Inverter B IGBT Temperature for phase C		°F
Inverter A IGBT Temperature for phase C		°F
Inverter B IGBT Temperature for phase B		°F
GPS Date - Year		Year
Distance Travelled with Light ON		miles
GPS Date - Month		
GPS Date - Day		Days
UTC Time - Minutes		
UTC Time - Hours		Hours
UTC Time - Seconds		seconds
ECU Time - Milliseconds		ms

HCP | P0BF2-00 | Stored | Drive Motor B Inverter Phase U Current Sensor Circuit Range/Performance-

NAME	VALUE	UNITS
DTC	0B F2 00	
Test Failed	False	
Test Failed This Operation Cycle	True	
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		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Commanded Inverter B State		
Inverter B Status Feedback		
Motor B Phase U Short Fault - High-Side		
Motor B Phase U Cross Conduction Fault - High-Side		
Motor B Phase U Thermal Warning Fault - High-Side		
Motor B Phase U Thermal Shutdown Fault - High-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase U SPI Error Fault - High-Side		
Motor B Phase U Hardware Error Fault - High-Side		
Motor B Phase U Short Fault - Low-Side		
Motor B Phase U Cross Conduction Fault - Low-Side		
Motor B Phase U Over Current Fault - Low-Side		
Motor B Phase U Thermal Warning Fault - Low-Side		
Motor B Phase U Thermal Shutdown Fault - Low-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase U SPI Error Fault - Low-Side		
Motor B Phase U Hardware Error Fault - Low-Side		
Motor B Phase V Short Fault - High-Side		
Motor B Phase V Cross Conduction Fault - High-Side		
Motor B Phase V Over Current Fault - High-Side		
Motor B Phase V Thermal Warning Fault - High-Side		
Motor B Phase V Thermal Shutdown Fault - High-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase V SPI Error Fault - High-Side		
Motor B Phase V Hardware Error Fault - High-Side		
Motor B Phase V Short Fault - Low-Side		

Motor B Phase V Cross Conduction Fault - Low-Side		
Motor B Phase V Over Current Fault - Low-Side		
Motor B Phase V Thermal Warning Fault - Low-Side		
Motor B Phase V Thermal Shutdown Fault - Low-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase V SPI Error Fault - Low-Side		
Motor B Phase V Hardware Error Fault - Low-Side		
Motor B Phase W Short Fault - High-Side		
Motor B Phase W Cross Conduction Fault - High-Side		
Motor B Phase W Over Current Fault - High-Side		
Motor B Phase W Thermal Warning Fault - High-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase W SPI Error Fault - High-Side		
Motor B Phase W Hardware Error Fault - High-Side		
Motor B Phase W Short Fault - Low-Side		
Motor B Phase W Cross Conduction Fault - Low-Side		
Motor B Phase W Over Current Fault - Low-Side		
Motor B Phase W Thermal Warning Fault - Low-Side		
Motor B Phase W Thermal Shutdown Fault - Low-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase W SPI Error Fault - Low-Side		
Motor B Phase W Hardware Error Fault - Low-Side		
Hybrid System State		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Motor B Phase U Over Current Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - High-Side		
Motor B Phase U Under Voltage Fault VH - High-Side		
Motor B Phase U Over Voltage Fault VL - High-Side		
Motor B Phase U Under Voltage Fault VL - High-Side		
Motor B Phase U Over Voltage Fault VDD - High-Side		
Motor B Phase U Under Voltage Fault VDD - High-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - Low-Side		

Motor B Phase U Under Voltage Fault VH - Low-Side		
Motor B Phase U Over Voltage Fault VL - Low-Side		
Motor B Phase U Under Voltage Fault VL - Low-Side		
Motor B Phase U Over Voltage Fault VDD - Low-Side		
Motor B Phase U Under Voltage Fault VDD - Low-Side		
Motor B Phase V Over Voltage Fault VH - High-Side		
Motor B Phase V Under Voltage Fault VH - High-Side		
Motor B Phase V Over Voltage Fault VL - High-Side		
Motor B Phase V Under Voltage Fault VL - High-Side		
Motor B Phase V Over Voltage Fault VDD - High-Side		
Motor B Phase V Under Voltage Fault VDD - High-Side		
Motor B Phase V Over Voltage Fault VH - Low-Side		
Motor B Phase V Under Voltage Fault VH - Low-Side		
Motor B Phase V Over Voltage Fault VL - Low-Side		
Motor B Phase V Under Voltage Fault VL - Low-Side		
Motor B Phase V Over Voltage Fault VDD - Low-Side		
Motor B Phase V Under Voltage Fault VDD - Low-Side		
Motor B Phase W Over Voltage Fault VH - High-Side		
Motor B Phase W Under Voltage Fault VH - High-Side		
Motor B Phase W Over Voltage Fault VL - High-Side		
Motor B Phase W Under Voltage Fault VL - High-Side		
Motor B Phase W Over Voltage Fault VDD - High-Side		
Motor B Phase W Under Voltage Fault VDD - High-Side		
Motor B Phase W Thermal Shutdown Fault - High-Side		
Motor B Phase W Over Voltage Fault VH - Low-Side		
Motor B Phase W Under Voltage Fault VH - Low-Side		
Motor B Phase W Over Voltage Fault VL - Low-Side		
Motor B Phase W Under Voltage Fault VL - Low-Side		
Motor B Phase W Over Voltage Fault VDD - Low-Side		
Motor B Phase W Under Voltage Fault VDD - Low-Side		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Actual Torque - Motor B		Ft-Lbs

Available Motor Torque - Motor B		Ft-Lbs
Inverter B Input DC Current		AMP
Electric Motor B Speed		rpm
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Motor B Resolver Supply Voltage Value		Volts
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		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 A Resolver Angle		Degree
Motor A Temp Sensor		°F
Outside Air Temperature		°F
HV Battery Voltage from BPCM		Volts
Electric Motor A 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
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
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 | P0BF6-00 | Stored | Drive Motor B Inverter Phase V Current Sensor Circuit Range/Performance-

NAME	VALUE	UNITS
DTC	0B F6 00	
Test Failed	False	
Test Failed This Operation Cycle	True	
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		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Commanded Inverter B State		
Inverter B Status Feedback		
Motor B Phase U Short Fault - High-Side		
Motor B Phase U Cross Conduction Fault - High-Side		
Motor B Phase U Thermal Warning Fault - High-Side		
Motor B Phase U Thermal Shutdown Fault - High-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase U SPI Error Fault - High-Side		
Motor B Phase U Hardware Error Fault - High-Side		
Motor B Phase U Short Fault - Low-Side		
Motor B Phase U Cross Conduction Fault - Low-Side		
Motor B Phase U Over Current Fault - Low-Side		
Motor B Phase U Thermal Warning Fault - Low-Side		
Motor B Phase U Thermal Shutdown Fault - Low-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase U SPI Error Fault - Low-Side		
Motor B Phase U Hardware Error Fault - Low-Side		
Motor B Phase V Short Fault - High-Side		
Motor B Phase V Cross Conduction Fault - High-Side		
Motor B Phase V Over Current Fault - High-Side		
Motor B Phase V Thermal Warning Fault - High-Side		
Motor B Phase V Thermal Shutdown Fault - High-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side		

Motor B Phase V SPI Error Fault - High-Side		
Motor B Phase V Hardware Error Fault - High-Side		
Motor B Phase V Short Fault - Low-Side		
Motor B Phase V Cross Conduction Fault - Low-Side		
Motor B Phase V Over Current Fault - Low-Side		
Motor B Phase V Thermal Warning Fault - Low-Side		
Motor B Phase V Thermal Shutdown Fault - Low-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase V SPI Error Fault - Low-Side		
Motor B Phase V Hardware Error Fault - Low-Side		
Motor B Phase W Short Fault - High-Side		
Motor B Phase W Cross Conduction Fault - High-Side		
Motor B Phase W Over Current Fault - High-Side		
Motor B Phase W Thermal Warning Fault - High-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase W SPI Error Fault - High-Side		
Motor B Phase W Hardware Error Fault - High-Side		
Motor B Phase W Short Fault - Low-Side		
Motor B Phase W Cross Conduction Fault - Low-Side		
Motor B Phase W Over Current Fault - Low-Side		
Motor B Phase W Thermal Warning Fault - Low-Side		
Motor B Phase W Thermal Shutdown Fault - Low-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase W SPI Error Fault - Low-Side		
Motor B Phase W Hardware Error Fault - Low-Side		
Hybrid System State		
HCP ePT Wake-Up Output		
EPT LOC Diag Enable		
CBC Wake-Up Input		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Motor B Phase U Over Current Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - High-Side		
Motor B Phase U Under Voltage Fault VH - High-Side		
Motor B Phase U Under Voltage Fault VL - High-Side		
Motor B Phase U Over Voltage Fault VL - High-Side		
Motor B Phase U Over Voltage Fault VDD - High-Side		

Motor B Phase U Under Voltage Fault VDD - High-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - Low-Side		
Motor B Phase U Under Voltage Fault VH - Low-Side		
Motor B Phase U Over Voltage Fault VL - Low-Side		
Motor B Phase U Under Voltage Fault VL - Low-Side		
Motor B Phase U Over Voltage Fault VDD - Low-Side		
Motor B Phase U Under Voltage Fault VDD - Low-Side		
Motor B Phase V Over Voltage Fault VH - High-Side		
Motor B Phase V Under Voltage Fault VH - High-Side		
Motor B Phase V Over Voltage Fault VL - High-Side		
Motor B Phase V Under Voltage Fault VL - High-Side		
Motor B Phase V Over Voltage Fault VDD - High-Side		
Motor B Phase V Under Voltage Fault VDD - High-Side		
Motor B Phase V Over Voltage Fault VH - Low-Side		
Motor B Phase V Under Voltage Fault VH - Low-Side		
Motor B Phase V Over Voltage Fault VL - Low-Side		
Motor B Phase V Under Voltage Fault VL - Low-Side		
Motor B Phase V Over Voltage Fault VDD - Low-Side		
Motor B Phase V Under Voltage Fault VDD - Low-Side		
Motor B Phase W Over Voltage Fault VH - High-Side		
Motor B Phase W Under Voltage Fault VH - High-Side		
Motor B Phase W Over Voltage Fault VL - High-Side		
Motor B Phase W Under Voltage Fault VL - High-Side		
Motor B Phase W Over Voltage Fault VDD - High-Side		
Motor B Phase W Under Voltage Fault VDD - High-Side		
Motor B Phase W Thermal Shutdown Fault - High-Side		
Motor B Phase W Over Voltage Fault VH - Low-Side		
Motor B Phase W Under Voltage Fault VH - Low-Side		
Motor B Phase W Over Voltage Fault VL - Low-Side		
Motor B Phase W Under Voltage Fault VL - Low-Side		
Motor B Phase W Over Voltage Fault VDD - Low-Side		
Motor B Phase W Under Voltage Fault VDD - Low-Side		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH

Barometric Pressure		PSI
Engine Coolant Temperature		°F
Actual Torque - Motor B		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Inverter B Input DC Current		AMP
Electric Motor B Speed		rpm
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Battery Feed Voltage 2 Sense		Volts
Motor B Resolver Supply Voltage Value		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		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 A Resolver Angle		Degree
Motor A Temp Sensor		°F
Outside Air Temperature		°F
HV Battery Voltage from BPCM		Volts
Electric Motor A 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
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
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 | P0BFA-00 | Stored | Drive Motor "B" Phase W Current Sensor Circuit Range/Performance-

NAME	VALUE	UNITS
DTC	0B FA 00	
Test Failed	False	
Test Failed This Operation Cycle	True	
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		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Commanded Inverter B State		
Inverter B Status Feedback		
Motor B Phase U Short Fault - High-Side		
Motor B Phase U Cross Conduction Fault - High-Side		
Motor B Phase U Thermal Warning Fault - High-Side		
Motor B Phase U Thermal Shutdown Fault - High-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase U SPI Error Fault - High-Side		
Motor B Phase U Hardware Error Fault - High-Side		
Motor B Phase U Short Fault - Low-Side		
Motor B Phase U Cross Conduction Fault - Low-Side		
Motor B Phase U Over Current Fault - Low-Side		
Motor B Phase U Thermal Warning Fault - Low-Side		
Motor B Phase U Thermal Shutdown Fault - Low-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase U SPI Error Fault - Low-Side		
Motor B Phase U Hardware Error Fault - Low-Side		
Motor B Phase V Short Fault - High-Side		
Motor B Phase V Cross Conduction Fault - High-Side		
Motor B Phase V Over Current Fault - High-Side		
Motor B Phase V Thermal Warning Fault - High-Side		

Motor B Phase V Thermal Shutdown Fault - High-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase V SPI Error Fault - High-Side		
Motor B Phase V Hardware Error Fault - High-Side		
Motor B Phase V Short Fault - Low-Side		
Motor B Phase V Cross Conduction Fault - Low-Side		
Motor B Phase V Over Current Fault - Low-Side		
Motor B Phase V Thermal Warning Fault - Low-Side		
Motor B Phase V Thermal Shutdown Fault - Low-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase V SPI Error Fault - Low-Side		
Motor B Phase V Hardware Error Fault - Low-Side		
Motor B Phase W Short Fault - High-Side		
Motor B Phase W Cross Conduction Fault - High-Side		
Motor B Phase W Over Current Fault - High-Side		
Motor B Phase W Thermal Warning Fault - High-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase W SPI Error Fault - High-Side		
Motor B Phase W Hardware Error Fault - High-Side		
Motor B Phase W Short Fault - Low-Side		
Motor B Phase W Cross Conduction Fault - Low-Side		
Motor B Phase W Over Current Fault - Low-Side		
Motor B Phase W Thermal Warning Fault - Low-Side		
Motor B Phase W Thermal Shutdown Fault - Low-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase W SPI Error Fault - Low-Side		
Motor B Phase W Hardware Error Fault - Low-Side		
Hybrid System State		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Motor B Phase U Over Current Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - High-Side		
Motor B Phase U Under Voltage Fault VH - High-Side		

Motor B Phase U Over Voltage Fault VL - High-Side		
Motor B Phase U Under Voltage Fault VL - High-Side		
Motor B Phase U Over Voltage Fault VDD - High-Side		
Motor B Phase U Under Voltage Fault VDD - High-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - Low-Side		
Motor B Phase U Under Voltage Fault VH - Low-Side		
Motor B Phase U Over Voltage Fault VL - Low-Side		
Motor B Phase U Under Voltage Fault VL - Low-Side		
Motor B Phase U Over Voltage Fault VDD - Low-Side		
Motor B Phase U Under Voltage Fault VDD - Low-Side		
Motor B Phase V Over Voltage Fault VH - High-Side		
Motor B Phase V Under Voltage Fault VH - High-Side		
Motor B Phase V Over Voltage Fault VL - High-Side		
Motor B Phase V Under Voltage Fault VL - High-Side		
Motor B Phase V Over Voltage Fault VDD - High-Side		
Motor B Phase V Under Voltage Fault VDD - High-Side		
Motor B Phase V Over Voltage Fault VH - Low-Side		
Motor B Phase V Under Voltage Fault VH - Low-Side		
Motor B Phase V Over Voltage Fault VL - Low-Side		
Motor B Phase V Under Voltage Fault VL - Low-Side		
Motor B Phase V Over Voltage Fault VDD - Low-Side		
Motor B Phase V Under Voltage Fault VDD - Low-Side		
Motor B Phase W Over Voltage Fault VH - High-Side		
Motor B Phase W Under Voltage Fault VH - High-Side		
Motor B Phase W Over Voltage Fault VL - High-Side		
Motor B Phase W Under Voltage Fault VL - High-Side		
Motor B Phase W Over Voltage Fault VDD - High-Side		
Motor B Phase W Under Voltage Fault VDD - High-Side		
Motor B Phase W Thermal Shutdown Fault - High-Side		
Motor B Phase W Over Voltage Fault VH - Low-Side		
Motor B Phase W Under Voltage Fault VH - Low-Side		
Motor B Phase W Over Voltage Fault VL - Low-Side		
Motor B Phase W Under Voltage Fault VL - Low-Side		
Motor B Phase W Over Voltage Fault VDD - Low-Side		
Motor B Phase W Under Voltage Fault VDD - Low-Side		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%

Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Actual Torque - Motor B		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Inverter B Input DC Current		AMP
Electric Motor B Speed		rpm
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Motor B Resolver Supply Voltage Value		Volts
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		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 A Resolver Angle		Degree
Motor A Temp Sensor		°F
Outside Air Temperature		°F
HV Battery Voltage from BPCM		Volts
Electric Motor A 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
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days

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 | P0C0B-00 | Active | Drive Motor A Inverter Power Supply Circuit/Open-

NAME	VALUE	UNITS
DTC	—	
Test Failed	—	
Test Failed This Operation Cycle	—	
Pending DTC	—	
Confirmed DTC	—	
Test Not Completed Since Last Clear	—	
Test Failed Since Last Clear	—	
Test Not Completed This Operation Cycle	—	
Warning Indicator Requested	—	
Occurrence flag	—	
Brake Switch Status	—	
PHEV Charging Status	—	
Ignition State	—	
PRND Position Display	—	
Propulsion System Active	—	
Motor A Phase U Short Fault - High-Side	—	
Motor A Phase U Cross Conduction Fault - High-Side	—	
Motor A Phase U Over Current Fault - High-Side	—	
Motor A Phase U Thermal Warning Fault - High-Side	—	
Motor A Phase U Thermal Shutdown Fault - High-Side	—	
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side	—	
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side	—	
Motor A Phase U SPI Error Fault - High-Side	—	
Motor A Phase U Hardware Error Fault - High-Side	—	
Motor A Phase U Short Fault - Low-Side	—	
Motor A Phase U Cross Conduction Fault - Low-Side	—	
Motor A Phase U Over Current Fault - Low-Side	—	
Motor A Phase U Thermal Warning Fault - Low-Side	—	
Motor A Phase U Thermal Shutdown Fault - Low-Side	—	
Motor A Phase U SPI Error Fault - Low-Side	—	
Motor A Phase U Hardware Error Fault - Low-Side	—	
Motor A Phase V Short Fault - High-Side	—	
Motor A Phase V Cross Conduction Fault - High-Side	—	
Motor A Phase V Over Current Fault - High-Side	—	

Motor A Phase V Thermal Warning Fault - High-Side	—	
Motor A Phase V Thermal Shutdown Fault - High-Side	—	
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side	—	
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side	—	
Motor A Phase V SPI Error Fault - High-Side	—	
Motor A Phase V Hardware Error Fault - High-Side	—	
Motor A Phase V Short Fault - Low-Side	—	
Motor A Phase V Cross Conduction Fault - Low-Side	—	
Motor A Phase V Over Current Fault - Low-Side	—	
Motor A Phase V Thermal Warning Fault - Low-Side	—	
Motor A Phase V Thermal Shutdown Fault - Low-Side	—	
Motor A Phase V SPI Error Fault - Low-Side	—	
Motor A Phase V Hardware Error Fault - Low-Side	—	
Motor A Phase W Short Fault - High-Side	—	
Motor A Phase W Over Current Fault - High-Side	—	
Motor A Phase W Thermal Warning Fault - High-Side	—	
Motor A Phase W Thermal Shutdown Fault - High-Side	—	
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side	—	
Motor A Phase W SPI Error Fault - High-Side	—	
Motor A Phase W Hardware Error Fault - High-Side	—	
Motor A Phase W Short Fault - Low-Side	—	
Motor A Phase W Cross Conduction Fault - Low-Side	—	
Motor A Phase W Over Current Fault - Low-Side	—	
Motor A Phase W Thermal Warning Fault - Low-Side	—	
Motor A Phase W Thermal Shutdown Fault - Low-Side	—	
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side	—	
Motor A Phase W SPI Error Fault - Low-Side	—	
Motor A Phase W Hardware Error Fault - Low-Side	—	
Hybrid System State	—	
HV Contactor Status	—	
Inverter B Status Feedback	—	
HCP ePT Wake-Up Output	—	
CBC Wake-Up Input	—	
EPT LOC Diag Enable	—	
APM Status	—	
Impact Event	—	
HCP System Shutdown Command	—	
OBCM Operating Mode	—	
J1772 Prox Detected State	—	
Commanded Inverter A State	—	
Inverter Status Feedback	—	
Motor A Phase U Over Voltage Fault VH - High-Side	—	
Motor A Phase U Under Voltage Fault VH - High-Side	—	
Motor A Phase U Over Voltage Fault VL - High-Side	—	

Motor A Phase U Under Voltage Fault VL - High-Side	—	
Motor A Phase U Over Voltage Fault VDD - High-Side	—	
Motor A Phase U Under Voltage Fault VDD - High-Side	—	
Motor A Phase U Over Voltage Fault VH - Low-Side	—	
Motor A Phase U Under Voltage Fault VH - Low-Side	—	
Motor A Phase U Over Voltage Fault VL - Low-Side	—	
Motor A Phase U Under Voltage Fault VL - Low-Side	—	
Motor A Phase U Over Voltage Fault VDD - Low-Side	—	
Motor A Phase U Under Voltage Fault VDD - Low-Side	—	
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side	—	
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side	—	
Motor A Phase V Over Voltage Fault VH - High-Side	—	
Motor A Phase V Under Voltage Fault VH - High-Side	—	
Motor A Phase V Over Voltage Fault VL - High-Side	—	
Motor A Phase V Under Voltage Fault VL - High-Side	—	
Motor A Phase V Over Voltage Fault VDD - High-SideSide	—	
Motor A Phase V Under Voltage Fault VDD - High-Side	—	
Motor A Phase V Over Voltage Fault VH - Low-Side	—	
Motor A Phase V Under Voltage Fault VH - Low-Side	—	
Motor A Phase V Over Voltage Fault VL - Low-Side	—	
Motor A Phase V Under Voltage Fault VL - Low-Side	—	
Motor A Phase V Over Voltage Fault VDD - Low-Side	—	
Motor A Phase V Under Voltage Fault VDD - Low-Side	—	
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side	—	
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side	—	
Motor A Phase W Cross Conduction Fault - High-Side	—	
Motor A Phase W Over Voltage Fault VH - High-Side	—	
Motor A Phase W Under Voltage Fault VH - High-Side	—	
Motor A Phase W Over Voltage Fault VL - High-Side	—	
Motor A Phase W Under Voltage Fault VL - High-Side	—	
Motor A Phase W Over Voltage Fault VDD - High-Side	—	
Motor A Phase W Under Voltage Fault VDD - High-Side	—	
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side	—	
Motor A Phase W Over Voltage Fault VH - Low-Side	—	
Motor A Phase W Under Voltage Fault VH - Low-Side	—	
Motor A Phase W Over Voltage Fault VL - Low-Side	—	
Motor A Phase W Under Voltage Fault VL - Low-Side	—	
Motor A Phase W Over Voltage Fault VDD - Low-Side	—	
Motor A Phase W Under Voltage Fault VDD - Low-Side	—	
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side	—	
Inverter A Status Feedback	—	
Original Odometer Value	—	miles
Most Recent Odometer Value	—	miles
Frequency Counter	—	

Ignition Cycle Counter	—	
RAM stamps keyOn	—	sec
Real time clock	—	sec
RAM Stamps	—	Min
Accelerator Pedal Position	—	%
Engine Speed	—	rpm
HV Battery SOC	—	%
Vehicle Speed	—	MPH
Barometric Pressure	—	PSI
Engine Coolant Temperature	—	°F
Actual Torque - Motor A	—	Ft-Lbs
Available Motor Torque - Motor A	—	Ft-Lbs
Electric Motor A Speed	—	rpm
Inverter A Input DC Current	—	AMP
Motor A - Inverter Current - phase A	—	AMP
Motor A - Inverter Current - phase B	—	AMP
Motor A - Inverter Current - phase C	—	AMP
Battery Feed Voltage 2 Sense	—	Volts
Motor A Resolver Supply Voltage Value	—	Volts
Battery Feed Voltage 3 Sense	—	Volts
Internal EPS Voltage Sense B	—	Volts
Internal EPS Voltage Sense A	—	Volts
PIM DC Link Voltage - A	—	Volts
PIM DC Link Voltage - B	—	Volts
Passive Pump Coolant Temp In Sensor	—	°F
Low Temp Active Pump Speed	—	rpm
High Temp Aux Pump - Actual Speed	—	rpm
Outside Air Temperature	—	°F
Battery Feed Voltage 1 Sense	—	Volts
Actual Torque - Motor B	—	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 B - Inverter Current - phase A	—	AMP
Motor B - Inverter Current - phase B	—	AMP
Motor B - Inverter Current - phase C	—	AMP
Motor B Resolver Angle	—	Degree
Motor B Temp Sensor	—	°F
HV Battery Voltage from BPCM	—	Volts
Electric Motor B Speed	—	rpm
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
Distance Travelled with Light ON	—	miles
Motor A Torque	—	Ft-Lbs
Motor B Torque	—	Ft-Lbs
HV Battery Sleep Time	—	Days
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 | P0C0E-00 | Stored | Drive Motor B Inverter Power Supply Circuit/Open-

NAME	VALUE	UNITS
DTC	0C 0E 00	
Test Failed	False	
Test Failed This Operation Cycle	True	
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		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Commanded Inverter B State		
Inverter B Status Feedback		
Motor B Phase U Short Fault - High-Side		
Motor B Phase U Cross Conduction Fault - High-Side		
Motor B Phase U Thermal Warning Fault - High-Side		
Motor B Phase U Thermal Shutdown Fault - High-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase U SPI Error Fault - High-Side		
Motor B Phase U Hardware Error Fault - High-Side		
Motor B Phase U Short Fault - Low-Side		
Motor B Phase U Cross Conduction Fault - Low-Side		

Motor B Phase U Over Current Fault - Low-Side		
Motor B Phase U Thermal Warning Fault - Low-Side		
Motor B Phase U Thermal Shutdown Fault - Low-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase U SPI Error Fault - Low-Side		
Motor B Phase U Hardware Error Fault - Low-Side		
Motor B Phase V Short Fault - High-Side		
Motor B Phase V Cross Conduction Fault - High-Side		
Motor B Phase V Over Current Fault - High-Side		
Motor B Phase V Thermal Warning Fault - High-Side		
Motor B Phase V Thermal Shutdown Fault - High-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase V SPI Error Fault - High-Side		
Motor B Phase V Hardware Error Fault - High-Side		
Motor B Phase V Short Fault - Low-Side		
Motor B Phase V Cross Conduction Fault - Low-Side		
Motor B Phase V Over Current Fault - Low-Side		
Motor B Phase V Thermal Warning Fault - Low-Side		
Motor B Phase V Thermal Shutdown Fault - Low-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase V SPI Error Fault - Low-Side		
Motor B Phase V Hardware Error Fault - Low-Side		
Motor B Phase W Short Fault - High-Side		
Motor B Phase W Cross Conduction Fault - High-Side		
Motor B Phase W Over Current Fault - High-Side		
Motor B Phase W Thermal Warning Fault - High-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase W SPI Error Fault - High-Side		
Motor B Phase W Hardware Error Fault - High-Side		
Motor B Phase W Short Fault - Low-Side		
Motor B Phase W Cross Conduction Fault - Low-Side		
Motor B Phase W Over Current Fault - Low-Side		
Motor B Phase W Thermal Warning Fault - Low-Side		
Motor B Phase W Thermal Shutdown Fault - Low-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase W SPI Error Fault - Low-Side		
Motor B Phase W Hardware Error Fault - Low-Side		
Hybrid System State		
HCP ePT Wake-Up Output		

CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Motor B Phase U Over Current Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - High-Side		
Motor B Phase U Over Voltage Fault VL - High-Side		
Motor B Phase U Under Voltage Fault VH - High-Side		
Motor B Phase U Under Voltage Fault VL - High-Side		
Motor B Phase U Over Voltage Fault VDD - High-Side		
Motor B Phase U Under Voltage Fault VDD - High-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - Low-Side		
Motor B Phase U Under Voltage Fault VH - Low-Side		
Motor B Phase U Over Voltage Fault VL - Low-Side		
Motor B Phase U Under Voltage Fault VL - Low-Side		
Motor B Phase U Over Voltage Fault VDD - Low-Side		
Motor B Phase U Under Voltage Fault VDD - Low-Side		
Motor B Phase V Over Voltage Fault VH - High-Side		
Motor B Phase V Under Voltage Fault VH - High-Side		
Motor B Phase V Over Voltage Fault VL - High-Side		
Motor B Phase V Under Voltage Fault VL - High-Side		
Motor B Phase V Over Voltage Fault VDD - High-Side		
Motor B Phase V Under Voltage Fault VDD - High-Side		
Motor B Phase V Over Voltage Fault VH - Low-Side		
Motor B Phase V Under Voltage Fault VH - Low-Side		
Motor B Phase V Over Voltage Fault VL - Low-Side		
Motor B Phase V Under Voltage Fault VL - Low-Side		
Motor B Phase V Over Voltage Fault VDD - Low-Side		
Motor B Phase V Under Voltage Fault VDD - Low-Side		
Motor B Phase W Over Voltage Fault VH - High-Side		
Motor B Phase W Under Voltage Fault VH - High-Side		
Motor B Phase W Over Voltage Fault VL - High-Side		
Motor B Phase W Under Voltage Fault VL - High-Side		
Motor B Phase W Over Voltage Fault VDD - High-Side		
Motor B Phase W Under Voltage Fault VDD - High-Side		
Motor B Phase W Thermal Shutdown Fault - High-Side		
Motor B Phase W Over Voltage Fault VH - Low-Side		
Motor B Phase W Under Voltage Fault VH - Low-Side		
Motor B Phase W Over Voltage Fault VL - Low-Side		

Motor B Phase W Under Voltage Fault VL - Low-Side		
Motor B Phase W Over Voltage Fault VDD - Low-Side		
Motor B Phase W Under Voltage Fault VDD - Low-Side		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Actual Torque - Motor B		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Inverter B Input DC Current		AMP
Electric Motor B Speed		rpm
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Motor B Resolver Supply Voltage Value		Volts
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		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 A Resolver Angle		Degree
Motor A Temp Sensor		°F
Outside Air Temperature		°F
HV Battery Voltage from BPCM		Volts
Electric Motor A 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
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
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 | P0C11-00 | Stored | Drive Motor A Inverter Phase U Over Temperature-

NAME	VALUE	UNITS
DTC	0C 11 00	
Test Failed	False	
Test Failed This Operation Cycle	True	
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	
Occurrence flag		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Motor A Phase U Short Fault - High-Side		
Motor A Phase U Cross Conduction Fault - High-Side		
Motor A Phase U Over Current Fault - High-Side		
Motor A Phase U Thermal Warning Fault - High-Side		
Motor A Phase U Thermal Shutdown Fault - High-Side		
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase U SPI Error Fault - High-Side		

Motor A Phase U Hardware Error Fault - High-Side		
Motor A Phase U Short Fault - Low-Side		
Motor A Phase U Cross Conduction Fault - Low-Side		
Motor A Phase U Over Current Fault - Low-Side		
Motor A Phase U Thermal Warning Fault - Low-Side		
Motor A Phase U Thermal Shutdown Fault - Low-Side		
Motor A Phase U SPI Error Fault - Low-Side		
Motor A Phase U Hardware Error Fault - Low-Side		
Motor A Phase V Short Fault - High-Side		
Motor A Phase V Cross Conduction Fault - High-Side		
Motor A Phase V Over Current Fault - High-Side		
Motor A Phase V Thermal Warning Fault - High-Side		
Motor A Phase V Thermal Shutdown Fault - High-Side		
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase V SPI Error Fault - High-Side		
Motor A Phase V Hardware Error Fault - High-Side		
Motor A Phase V Short Fault - Low-Side		
Motor A Phase V Cross Conduction Fault - Low-Side		
Motor A Phase V Over Current Fault - Low-Side		
Motor A Phase V Thermal Warning Fault - Low-Side		
Motor A Phase V SPI Error Fault - Low-Side		
Motor A Phase V Hardware Error Fault - Low-Side		
Motor A Phase W Short Fault - High-Side		
Motor A Phase V Thermal Shutdown Fault - Low-Side		
Motor A Phase W Over Current Fault - High-Side		
Motor A Phase W Thermal Warning Fault - High-Side		
Motor A Phase W Thermal Shutdown Fault - High-Side		
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase W SPI Error Fault - High-Side		
Motor A Phase W Hardware Error Fault - High-Side		
Motor A Phase W Short Fault - Low-Side		
Motor A Phase W Cross Conduction Fault - Low-Side		
Motor A Phase W Over Current Fault - Low-Side		
Motor A Phase W Thermal Warning Fault - Low-Side		
Motor A Phase W Thermal Shutdown Fault - Low-Side		
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase W SPI Error Fault - Low-Side		
Motor A Phase W Hardware Error Fault - Low-Side		
Hybrid System State		
HV Contactor Status		
Inverter B Status Feedback		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		

EPT LOC Diag Enable		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Commanded Inverter A State		
Inverter Status Feedback		
Motor A Phase U Over Voltage Fault VH - High-Side		
Motor A Phase U Under Voltage Fault VH - High-Side		
Motor A Phase U Over Voltage Fault VL - High-Side		
Motor A Phase U Under Voltage Fault VL - High-Side		
Motor A Phase U Over Voltage Fault VDD - High-Side		
Motor A Phase U Under Voltage Fault VDD - High-Side		
Motor A Phase U Over Voltage Fault VH - Low-Side		
Motor A Phase U Under Voltage Fault VH - Low-Side		
Motor A Phase U Over Voltage Fault VL - Low-Side		
Motor A Phase U Under Voltage Fault VL - Low-Side		
Motor A Phase U Over Voltage Fault VDD - Low-Side		
Motor A Phase U Under Voltage Fault VDD - Low-Side		
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase V Over Voltage Fault VH - High-Side		
Motor A Phase V Under Voltage Fault VH - High-Side		
Motor A Phase V Over Voltage Fault VL - High-Side		
Motor A Phase V Under Voltage Fault VL - High-Side		
Motor A Phase V Over Voltage Fault VDD - High-SideSide		
Motor A Phase V Under Voltage Fault VDD - High-Side		
Motor A Phase V Over Voltage Fault VH - Low-Side		
Motor A Phase V Under Voltage Fault VH - Low-Side		
Motor A Phase V Over Voltage Fault VL - Low-Side		
Motor A Phase V Under Voltage Fault VL - Low-Side		
Motor A Phase V Over Voltage Fault VDD - Low-Side		
Motor A Phase V Under Voltage Fault VDD - Low-Side		
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase W Cross Conduction Fault - High-Side		
Motor A Phase W Over Voltage Fault VH - High-Side		
Motor A Phase W Under Voltage Fault VH - High-Side		
Motor A Phase W Over Voltage Fault VL - High-Side		
Motor A Phase W Under Voltage Fault VL - High-Side		
Motor A Phase W Over Voltage Fault VDD - High-Side		
Motor A Phase W Under Voltage Fault VDD - High-Side		
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side		

Motor A Phase W Over Voltage Fault VH - Low-Side		
Motor A Phase W Under Voltage Fault VH - Low-Side		
Motor A Phase W Over Voltage Fault VL - Low-Side		
Motor A Phase W Under Voltage Fault VL - Low-Side		
Motor A Phase W Over Voltage Fault VDD - Low-Side		
Motor A Phase W Under Voltage Fault VDD - Low-Side		
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Inverter A Status Feedback		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Ignition Cycle Counter		
Frequency Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		Ft-Lbs
Inverter A Input DC Current		AMP
Motor A - Inverter Current - phase A		AMP
Electric Motor A Speed		rpm
Motor A - Inverter Current - phase B		AMP
Motor A - Inverter Current - phase C		AMP
Motor A Resolver Supply Voltage Value		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
PIM DC Link Voltage - A		Volts
PIM DC Link Voltage - B		Volts
Passive Pump Coolant Temp In Sensor		°F
Low Temp Active Pump Speed		rpm
High Temp Aux Pump - Actual Speed		rpm
Outside Air Temperature		°F
Battery Feed Voltage 1 Sense		Volts
Actual Torque - Motor B		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 B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Motor B Resolver Angle		Degree
Motor B Temp Sensor		°F
HV Battery Voltage from BPCM		Volts
Electric Motor B Speed		rpm
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
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
GPS Date - Year		Year
HV Battery Sleep Time		Days
GPS Date - Month		
GPS Date - Day		Days
UTC Time - Hours		Hours
UTC Time - Minutes		
UTC Time - Seconds		seconds
ECU Time - Milliseconds		ms

HCP | P0C14-00 | Stored | Drive Motor B Inverter Phase U Over Temperature-

NAME	VALUE	UNITS
DTC	0C 14 00	
Test Failed	False	
Test Failed This Operation Cycle	True	
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	
Occurrence flag		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		

Commanded Inverter B State		
Inverter B Status Feedback		
Motor B Phase U Short Fault - High-Side		
Motor B Phase U Cross Conduction Fault - High-Side		
Motor B Phase U Thermal Warning Fault - High-Side		
Motor B Phase U Thermal Shutdown Fault - High-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase U SPI Error Fault - High-Side		
Motor B Phase U Hardware Error Fault - High-Side		
Motor B Phase U Short Fault - Low-Side		
Motor B Phase U Cross Conduction Fault - Low-Side		
Motor B Phase U Over Current Fault - Low-Side		
Motor B Phase U Thermal Warning Fault - Low-Side		
Motor B Phase U Thermal Shutdown Fault - Low-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase U SPI Error Fault - Low-Side		
Motor B Phase U Hardware Error Fault - Low-Side		
Motor B Phase V Short Fault - High-Side		
Motor B Phase V Cross Conduction Fault - High-Side		
Motor B Phase V Over Current Fault - High-Side		
Motor B Phase V Thermal Warning Fault - High-Side		
Motor B Phase V Thermal Shutdown Fault - High-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase V SPI Error Fault - High-Side		
Motor B Phase V Hardware Error Fault - High-Side		
Motor B Phase V Short Fault - Low-Side		
Motor B Phase V Cross Conduction Fault - Low-Side		
Motor B Phase V Over Current Fault - Low-Side		
Motor B Phase V Thermal Warning Fault - Low-Side		
Motor B Phase V Thermal Shutdown Fault - Low-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase V SPI Error Fault - Low-Side		
Motor B Phase V Hardware Error Fault - Low-Side		
Motor B Phase W Short Fault - High-Side		
Motor B Phase W Cross Conduction Fault - High-Side		
Motor B Phase W Over Current Fault - High-Side		
Motor B Phase W Thermal Warning Fault - High-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase W SPI Error Fault - High-Side		
Motor B Phase W Hardware Error Fault - High-Side		

Motor B Phase W Short Fault - Low-Side		
Motor B Phase W Cross Conduction Fault - Low-Side		
Motor B Phase W Over Current Fault - Low-Side		
Motor B Phase W Thermal Warning Fault - Low-Side		
Motor B Phase W Thermal Shutdown Fault - Low-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase W SPI Error Fault - Low-Side		
Motor B Phase W Hardware Error Fault - Low-Side		
Hybrid System State		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Motor B Phase U Over Current Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - High-Side		
Motor B Phase U Under Voltage Fault VH - High-Side		
Motor B Phase U Over Voltage Fault VL - High-Side		
Motor B Phase U Under Voltage Fault VL - High-Side		
Motor B Phase U Under Voltage Fault VDD - High-Side		
Motor B Phase U Over Voltage Fault VDD - High-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - Low-Side		
Motor B Phase U Under Voltage Fault VH - Low-Side		
Motor B Phase U Over Voltage Fault VL - Low-Side		
Motor B Phase U Under Voltage Fault VL - Low-Side		
Motor B Phase U Over Voltage Fault VDD - Low-Side		
Motor B Phase U Under Voltage Fault VDD - Low-Side		
Motor B Phase V Over Voltage Fault VH - High-Side		
Motor B Phase V Under Voltage Fault VH - High-Side		
Motor B Phase V Over Voltage Fault VL - High-Side		
Motor B Phase V Under Voltage Fault VL - High-Side		
Motor B Phase V Over Voltage Fault VDD - High-Side		
Motor B Phase V Under Voltage Fault VDD - High-Side		
Motor B Phase V Over Voltage Fault VH - Low-Side		
Motor B Phase V Under Voltage Fault VH - Low-Side		
Motor B Phase V Over Voltage Fault VL - Low-Side		
Motor B Phase V Under Voltage Fault VL - Low-Side		
Motor B Phase V Over Voltage Fault VDD - Low-Side		

Motor B Phase V Under Voltage Fault VDD - Low-Side		
Motor B Phase W Over Voltage Fault VH - High-Side		
Motor B Phase W Under Voltage Fault VH - High-Side		
Motor B Phase W Over Voltage Fault VL - High-Side		
Motor B Phase W Under Voltage Fault VL - High-Side		
Motor B Phase W Over Voltage Fault VDD - High-Side		
Motor B Phase W Under Voltage Fault VDD - High-Side		
Motor B Phase W Thermal Shutdown Fault - High-Side		
Motor B Phase W Over Voltage Fault VH - Low-Side		
Motor B Phase W Under Voltage Fault VH - Low-Side		
Motor B Phase W Over Voltage Fault VL - Low-Side		
Motor B Phase W Under Voltage Fault VL - Low-Side		
Motor B Phase W Over Voltage Fault VDD - Low-Side		
Motor B Phase W Under Voltage Fault VDD - Low-Side		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Actual Torque - Motor B		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Inverter B Input DC Current		AMP
Electric Motor B Speed		rpm
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Motor B Resolver Supply Voltage Value		Volts
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		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 A Resolver Angle		Degree
Motor A Temp Sensor		°F
Outside Air Temperature		°F
HV Battery Voltage from BPCM		Volts
Electric Motor A 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
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
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 | P0C19-00 | Active | Drive Motor A Torque Delivered Performance-

NAME	VALUE	UNITS
DTC	—	
Test Failed	—	
Test Failed This Operation Cycle	—	
Pending DTC	—	
Confirmed DTC	—	
Test Not Completed Since Last Clear	—	
Test Failed Since Last Clear	—	
Test Not Completed This Operation Cycle	—	
Warning Indicator Requested	—	
Occurrence flag	—	
Brake Switch Status	—	
PHEV Charging Status	—	

Ignition State	—	
PRND Position Display	—	
Propulsion System Active	—	
Motor A Phase U Short Fault - High-Side	—	
Motor A Phase U Cross Conduction Fault - High-Side	—	
Motor A Phase U Over Current Fault - High-Side	—	
Motor A Phase U Thermal Warning Fault - High-Side	—	
Motor A Phase U Thermal Shutdown Fault - High-Side	—	
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side	—	
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side	—	
Motor A Phase U SPI Error Fault - High-Side	—	
Motor A Phase U Hardware Error Fault - High-Side	—	
Motor A Phase U Short Fault - Low-Side	—	
Motor A Phase U Cross Conduction Fault - Low-Side	—	
Motor A Phase U Over Current Fault - Low-Side	—	
Motor A Phase U Thermal Warning Fault - Low-Side	—	
Motor A Phase U Thermal Shutdown Fault - Low-Side	—	
Motor A Phase U SPI Error Fault - Low-Side	—	
Motor A Phase U Hardware Error Fault - Low-Side	—	
Motor A Phase V Short Fault - High-Side	—	
Motor A Phase V Cross Conduction Fault - High-Side	—	
Motor A Phase V Over Current Fault - High-Side	—	
Motor A Phase V Thermal Warning Fault - High-Side	—	
Motor A Phase V Thermal Shutdown Fault - High-Side	—	
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side	—	
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side	—	
Motor A Phase V SPI Error Fault - High-Side	—	
Motor A Phase V Hardware Error Fault - High-Side	—	
Motor A Phase V Short Fault - Low-Side	—	
Motor A Phase V Cross Conduction Fault - Low-Side	—	
Motor A Phase V Over Current Fault - Low-Side	—	
Motor A Phase V Thermal Warning Fault - Low-Side	—	
Motor A Phase V Thermal Shutdown Fault - Low-Side	—	
Motor A Phase V SPI Error Fault - Low-Side	—	
Motor A Phase V Hardware Error Fault - Low-Side	—	
Motor A Phase W Short Fault - High-Side	—	
Motor A Phase W Over Current Fault - High-Side	—	
Motor A Phase W Thermal Warning Fault - High-Side	—	
Motor A Phase W Thermal Shutdown Fault - High-Side	—	
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side	—	
Motor A Phase W SPI Error Fault - High-Side	—	
Motor A Phase W Hardware Error Fault - High-Side	—	
Motor A Phase W Short Fault - Low-Side	—	
Motor A Phase W Cross Conduction Fault - Low-Side	—	

Motor A Phase W Over Current Fault - Low-Side	—	
Motor A Phase W Thermal Warning Fault - Low-Side	—	
Motor A Phase W Thermal Shutdown Fault - Low-Side	—	
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side	—	
Motor A Phase W SPI Error Fault - Low-Side	—	
Motor A Phase W Hardware Error Fault - Low-Side	—	
Hybrid System State	—	
HV Contactor Status	—	
Inverter B Status Feedback	—	
HCP ePT Wake-Up Output	—	
CBC Wake-Up Input	—	
EPT LOC Diag Enable	—	
APM Status	—	
Impact Event	—	
HCP System Shutdown Command	—	
OBCM Operating Mode	—	
J1772 Prox Detected State	—	
Commanded Inverter A State	—	
Inverter Status Feedback	—	
Motor A Phase U Over Voltage Fault VH - High-Side	—	
Motor A Phase U Under Voltage Fault VH - High-Side	—	
Motor A Phase U Over Voltage Fault VL - High-Side	—	
Motor A Phase U Under Voltage Fault VL - High-Side	—	
Motor A Phase U Over Voltage Fault VDD - High-Side	—	
Motor A Phase U Under Voltage Fault VDD - High-Side	—	
Motor A Phase U Over Voltage Fault VH - Low-Side	—	
Motor A Phase U Under Voltage Fault VH - Low-Side	—	
Motor A Phase U Over Voltage Fault VL - Low-Side	—	
Motor A Phase U Under Voltage Fault VL - Low-Side	—	
Motor A Phase U Over Voltage Fault VDD - Low-Side	—	
Motor A Phase U Under Voltage Fault VDD - Low-Side	—	
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side	—	
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side	—	
Motor A Phase V Over Voltage Fault VH - High-Side	—	
Motor A Phase V Under Voltage Fault VH - High-Side	—	
Motor A Phase V Over Voltage Fault VL - High-Side	—	
Motor A Phase V Under Voltage Fault VL - High-Side	—	
Motor A Phase V Over Voltage Fault VDD - High-SideSide	—	
Motor A Phase V Under Voltage Fault VDD - High-Side	—	
Motor A Phase V Over Voltage Fault VH - Low-Side	—	
Motor A Phase V Under Voltage Fault VH - Low-Side	—	
Motor A Phase V Over Voltage Fault VL - Low-Side	—	
Motor A Phase V Under Voltage Fault VL - Low-Side	—	
Motor A Phase V Over Voltage Fault VDD - Low-Side	—	

Motor A Phase V Under Voltage Fault VDD - Low-Side	—	
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side	—	
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side	—	
Motor A Phase W Cross Conduction Fault - High-Side	—	
Motor A Phase W Over Voltage Fault VH - High-Side	—	
Motor A Phase W Under Voltage Fault VH - High-Side	—	
Motor A Phase W Over Voltage Fault VL - High-Side	—	
Motor A Phase W Under Voltage Fault VL - High-Side	—	
Motor A Phase W Over Voltage Fault VDD - High-Side	—	
Motor A Phase W Under Voltage Fault VDD - High-Side	—	
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side	—	
Motor A Phase W Over Voltage Fault VH - Low-Side	—	
Motor A Phase W Under Voltage Fault VH - Low-Side	—	
Motor A Phase W Over Voltage Fault VL - Low-Side	—	
Motor A Phase W Under Voltage Fault VL - Low-Side	—	
Motor A Phase W Over Voltage Fault VDD - Low-Side	—	
Motor A Phase W Under Voltage Fault VDD - Low-Side	—	
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side	—	
Inverter A Status Feedback	—	
Original Odometer Value	—	miles
Most Recent Odometer Value	—	miles
Frequency Counter	—	
Real time clock	—	sec
Ignition Cycle Counter	—	
RAM stamps keyOn	—	sec
RAM Stamps	—	Min
Accelerator Pedal Position	—	%
Engine Speed	—	rpm
HV Battery SOC	—	%
Vehicle Speed	—	MPH
Barometric Pressure	—	PSI
Engine Coolant Temperature	—	°F
Actual Torque - Motor A	—	Ft-Lbs
Available Motor Torque - Motor A	—	Ft-Lbs
Electric Motor A Speed	—	rpm
Inverter A Input DC Current	—	AMP
Motor A - Inverter Current - phase A	—	AMP
Motor A - Inverter Current - phase B	—	AMP
Motor A - Inverter Current - phase C	—	AMP
Motor A Resolver Supply Voltage Value	—	Volts
Battery Feed Voltage 3 Sense	—	Volts
Battery Feed Voltage 2 Sense	—	Volts
Internal EPS Voltage Sense A	—	Volts
Internal EPS Voltage Sense B	—	Volts

PIM DC Link Voltage - A	—	Volts
PIM DC Link Voltage - B	—	Volts
Passive Pump Coolant Temp In Sensor	—	°F
Low Temp Active Pump Speed	—	rpm
High Temp Aux Pump - Actual Speed	—	rpm
Outside Air Temperature	—	°F
Battery Feed Voltage 1 Sense	—	Volts
Actual Torque - Motor B	—	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 B - Inverter Current - phase A	—	AMP
Motor B - Inverter Current - phase B	—	AMP
Motor B - Inverter Current - phase C	—	AMP
Motor B Temp Sensor	—	°F
Motor B Resolver Angle	—	Degree
HV Battery Voltage from BPCM	—	Volts
Electric Motor B Speed	—	rpm
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
Distance Travelled with Light ON	—	miles
Motor A Torque	—	Ft-Lbs
Motor B Torque	—	Ft-Lbs
HV Battery Sleep Time	—	Days
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 | P0C1A-00 | Stored | Drive Motor B Torque Delivered Performance-

NAME	VALUE	UNITS
DTC	0C 1A 00	
Test Failed	False	
Test Failed This Operation Cycle	True	
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		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Commanded Inverter B State		
Inverter B Status Feedback		
Motor B Phase U Short Fault - High-Side		
Motor B Phase U Cross Conduction Fault - High-Side		
Motor B Phase U Thermal Warning Fault High Side		
Motor B Phase U Thermal Shutdown Fault - High-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase U SPI Error Fault - High-Side		
Motor B Phase U Hardware Error Fault - High-Side		
Motor B Phase U Short Fault - Low-Side		
Motor B Phase U Cross Conduction Fault - Low-Side		
Motor B Phase U Over Current Fault - Low-Side		
Motor B Phase U Thermal Warning Fault - Low-Side		
Motor B Phase U Thermal Shutdown Fault - Low-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase U SPI Error Fault - Low-Side		
Motor B Phase U Hardware Error Fault - Low-Side		
Motor B Phase V Short Fault - High-Side		
Motor B Phase V Cross Conduction Fault - High-Side		
Motor B Phase V Over Current Fault - High-Side		
Motor B Phase V Thermal Warning Fault - High-Side		
Motor B Phase V Thermal Shutdown Fault - High-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase V SPI Error Fault - High-Side		
Motor B Phase V Hardware Error Fault - High-Side		
Motor B Phase V Short Fault - Low-Side		
Motor B Phase V Cross Conduction Fault - Low-Side		
Motor B Phase V Over Current Fault - Low-Side		
Motor B Phase V Thermal Warning Fault - Low-Side		
Motor B Phase V Thermal Shutdown Fault - Low-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side		

Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase V SPI Error Fault - Low-Side		
Motor B Phase V Hardware Error Fault - Low-Side		
Motor B Phase W Short Fault - High-Side		
Motor B Phase W Cross Conduction Fault - High-Side		
Motor B Phase W Over Current Fault - High-Side		
Motor B Phase W Thermal Warning Fault - High-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase W SPI Error Fault - High-Side		
Motor B Phase W Hardware Error Fault - High-Side		
Motor B Phase W Short Fault - Low-Side		
Motor B Phase W Cross Conduction Fault - Low-Side		
Motor B Phase W Over Current Fault - Low-Side		
Motor B Phase W Thermal Warning Fault - Low-Side		
Motor B Phase W Thermal Shutdown Fault - Low-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase W SPI Error Fault - Low-Side		
Motor B Phase W Hardware Error Fault - Low-Side		
Hybrid System State		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Motor B Phase U Over Current Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - High-Side		
Motor B Phase U Under Voltage Fault VH - High-Side		
Motor B Phase U Over Voltage Fault VL - High-Side		
Motor B Phase U Under Voltage Fault VL - High-Side		
Motor B Phase U Over Voltage Fault VDD - High-Side		
Motor B Phase U Under Voltage Fault VDD - High-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - Low-Side		
Motor B Phase U Under Voltage Fault VH - Low-Side		
Motor B Phase U Over Voltage Fault VL - Low-Side		
Motor B Phase U Under Voltage Fault VL - Low-Side		
Motor B Phase U Over Voltage Fault VDD - Low-Side		
Motor B Phase U Under Voltage Fault VDD - Low-Side		

Motor B Phase V Over Voltage Fault VH - High-Side		
Motor B Phase V Under Voltage Fault VH - High-Side		
Motor B Phase V Over Voltage Fault VL - High-Side		
Motor B Phase V Under Voltage Fault VL - High-Side		
Motor B Phase V Over Voltage Fault VDD - High-Side		
Motor B Phase V Under Voltage Fault VDD - High-Side		
Motor B Phase V Over Voltage Fault VH - Low-Side		
Motor B Phase V Under Voltage Fault VH - Low-Side		
Motor B Phase V Over Voltage Fault VL - Low-Side		
Motor B Phase V Under Voltage Fault VL - Low-Side		
Motor B Phase V Over Voltage Fault VDD - Low-Side		
Motor B Phase V Under Voltage Fault VDD - Low-Side		
Motor B Phase W Over Voltage Fault VH - High-Side		
Motor B Phase W Under Voltage Fault VH - High-Side		
Motor B Phase W Over Voltage Fault VL - High-Side		
Motor B Phase W Under Voltage Fault VL - High-Side		
Motor B Phase W Over Voltage Fault VDD - High-Side		
Motor B Phase W Under Voltage Fault VDD - High-Side		
Motor B Phase W Thermal Shutdown Fault - High-Side		
Motor B Phase W Over Voltage Fault VH - Low-Side		
Motor B Phase W Under Voltage Fault VH - Low-Side		
Motor B Phase W Over Voltage Fault VL - Low-Side		
Motor B Phase W Under Voltage Fault VL - Low-Side		
Motor B Phase W Over Voltage Fault VDD - Low-Side		
Motor B Phase W Under Voltage Fault VDD - Low-Side		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Actual Torque - Motor B		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Inverter B Input DC Current		AMP
Electric Motor B Speed		rpm
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP

Motor B - Inverter Current - phase C		AMP
Motor B Resolver Supply Voltage Value		Volts
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		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 A Resolver Angle		Degree
Motor A Temp Sensor		°F
Outside Air Temperature		°F
HV Battery Voltage from BPCM		Volts
Electric Motor A 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
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
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 | P0E15-00 | Active | Hybrid/EV Battery Pack Coolant Heater "A" Control Performance-

NAME	VALUE	UNITS
DTC	0E 15 00	

Test Failed This Operation Cycle	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Pending DTC	True	
Confirmed DTC	False	
Test Not Completed This Operation Cycle	False	
Test Failed	True	
Occurrence flag		
Warning Indicator Requested	False	
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
HV Coolant Heater - Below 60V		
HV Coolant Heater - Response Error		
HV Coolant Heater - Communication Error (SPI Interface Issue)		
HV Coolant Heater - High Voltage Out of Range		
HV Coolant Heater - Low Voltage Out of Range		
HV Coolant Heater - Coolant Temp Out of Range		
HV Coolant Heater - Heater Core Temp Sensor Defect		
HV Coolant Heater - Coolant Inlet Temp Sensor Defect		
HV Coolant Heater - Overheat Protection		
HV Coolant Heater - HV Protection		
HV Coolant Heater - Coolant Outet Temp Sensor Defect		
HV Coolant Heater - Memory Error		
HV Coolant Heater - Short or Open Circuit at IGBTs		
HV Coolant Heater - Current Consumption at High Voltage Out of Range		
HV Coolant Heater - DC/DC Voltage Out of Range		
Hybrid System State		
CBC Wake-Up Input		
HCP ePT Wake-Up Output		
EPT LOC Diag Enable		
HV Contactor Status		
Impact Event		
APM Status		
HCP System Shutdown Command		
J1772 Prox Detected State		
OBCM Operating Mode		
Original Odometer Value		miles
Real time clock		sec
Ignition Cycle Counter		
Frequency Counter		
Accelerator Pedal Position		%

RAM Stamps		Min
Engine Speed		rpm
RAM stamps keyOn		sec
Most Recent Odometer Value		miles
Vehicle Speed		MPH
Barometric Pressure		PSI
HV Battery SOC		%
Engine Coolant Temperature		°F
HV Coolant Heater - Actual Calculated Power Consumption		W
HV Coolant Heater - Measured Coolant Inlet Temp		°F
HV Coolant Heater - Measured Coolant Outlet Temp		°F
HV Coolant Heater - Measured High Voltage		Volts
Battery Feed Voltage 3 Sense		Volts
Internal EPS Voltage Sense A		Volts
HV Coolant Heater - Desired Power Consumption		W
HV Coolant Heater - Actual Current Consumption		AMP
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense B		Volts
Motor A - Inverter Current - phase A		AMP
Battery Feed Voltage 1 Sense		Volts
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		Ft-Lbs
Actual Torque - Motor B		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Commanded Torque - Motor A		Ft-Lbs
Available Regen Torque - Motor B		Ft-Lbs
Commanded Torque - Motor B		Ft-Lbs
Motor A - Inverter Current - phase C		AMP
Available Regen Torque - Motor A		Ft-Lbs
Motor A - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase C		AMP
Motor B - Inverter Current - phase B		AMP
Motor A Resolver Angle		Degree
Motor A Temp Sensor		°F
Motor B Resolver Angle		Degree
Motor B Temp Sensor		°F
Outside Air Temperature		°F
HV Battery Voltage from BPCM		Volts
Electric Motor A Speed		rpm
Electric Motor B Speed		rpm
PIM DC Link Voltage - B		Volts
PIM DC Link Voltage - A		Volts
Inverter A IGBT Temperature for phase A		°F

Inverter A IGBT Temperature for phase B		°F
Inverter B IGBT Temperature for phase B		°F
Inverter A IGBT Temperature for phase C		°F
Inverter B IGBT Temperature for phase C		°F
Inverter B IGBT Temperature for phase A		°F
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
GPS Date - Month		
GPS Date - Year		Year
UTC Time - Hours		Hours
GPS Date - Day		Days
ECU Time - Milliseconds		ms
UTC Time - Seconds		seconds
UTC Time - Minutes		

HCP | P1AEC-00 | Active | MCPA HV Battery Voltage Sensor Circuit Performance-

NAME	VALUE	UNITS
DTC	1A EC 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	
Occurrence flag		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Motor A Phase U Short Fault - High-Side		
Motor A Phase U Cross Conduction Fault - High-Side		
Motor A Phase U Over Current Fault - High-Side		
Motor A Phase U Thermal Warning Fault - High-Side		
Motor A Phase U Thermal Shutdown Fault - High-Side		
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase U SPI Error Fault - High-Side		
Motor A Phase U Hardware Error Fault - High-Side		
Motor A Phase U Short Fault - Low-Side		

Motor A Phase U Cross Conduction Fault - Low-Side		
Motor A Phase U Over Current Fault - Low-Side		
Motor A Phase U Thermal Warning Fault - Low-Side		
Motor A Phase U Thermal Shutdown Fault - Low-Side		
Motor A Phase U SPI Error Fault - Low-Side		
Motor A Phase U Hardware Error Fault - Low-Side		
Motor A Phase V Short Fault - High-Side		
Motor A Phase V Cross Conduction Fault - High-Side		
Motor A Phase V Over Current Fault - High-Side		
Motor A Phase V Thermal Warning Fault - High-Side		
Motor A Phase V Thermal Shutdown Fault - High-Side		
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase V SPI Error Fault - High-Side		
Motor A Phase V Hardware Error Fault - High-Side		
Motor A Phase V Short Fault - Low-Side		
Motor A Phase V Cross Conduction Fault - Low-Side		
Motor A Phase V Over Current Fault - Low-Side		
Motor A Phase V Thermal Warning Fault - Low-Side		
Motor A Phase V Thermal Shutdown Fault - Low-Side		
Motor A Phase V Hardware Error Fault - Low-Side		
Motor A Phase W Short Fault - High-Side		
Motor A Phase W Over Current Fault - High-Side		
Motor A Phase V SPI Error Fault - Low-Side		
Motor A Phase W Thermal Warning Fault - High-Side		
Motor A Phase W Thermal Shutdown Fault - High-Side		
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase W SPI Error Fault - High-Side		
Motor A Phase W Hardware Error Fault - High-Side		
Motor A Phase W Short Fault - Low-Side		
Motor A Phase W Cross Conduction Fault - Low-Side		
Motor A Phase W Over Current Fault - Low-Side		
Motor A Phase W Thermal Warning Fault - Low-Side		
Motor A Phase W Thermal Shutdown Fault - Low-Side		
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase W SPI Error Fault - Low-Side		
Motor A Phase W Hardware Error Fault - Low-Side		
Hybrid System State		
HV Contactor Status		
Inverter B Status Feedback		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
APM Status		

Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Commanded Inverter A State		
Inverter Status Feedback		
Motor A Phase U Over Voltage Fault VH - High-Side		
Motor A Phase U Under Voltage Fault VH - High-Side		
Motor A Phase U Over Voltage Fault VL - High-Side		
Motor A Phase U Under Voltage Fault VL - High-Side		
Motor A Phase U Over Voltage Fault VDD - High-Side		
Motor A Phase U Under Voltage Fault VDD - High-Side		
Motor A Phase U Over Voltage Fault VH - Low-Side		
Motor A Phase U Under Voltage Fault VH - Low-Side		
Motor A Phase U Over Voltage Fault VL - Low-Side		
Motor A Phase U Under Voltage Fault VL - Low-Side		
Motor A Phase U Over Voltage Fault VDD - Low-Side		
Motor A Phase U Under Voltage Fault VDD - Low-Side		
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase V Over Voltage Fault VH - High-Side		
Motor A Phase V Under Voltage Fault VH - High-Side		
Motor A Phase V Over Voltage Fault VL - High-Side		
Motor A Phase V Under Voltage Fault VL - High-Side		
Motor A Phase V Over Voltage Fault VDD - High-SideSide		
Motor A Phase V Under Voltage Fault VDD - High-Side		
Motor A Phase V Over Voltage Fault VH - Low-Side		
Motor A Phase V Under Voltage Fault VH - Low-Side		
Motor A Phase V Over Voltage Fault VL - Low-Side		
Motor A Phase V Under Voltage Fault VL - Low-Side		
Motor A Phase V Over Voltage Fault VDD - Low-Side		
Motor A Phase V Under Voltage Fault VDD - Low-Side		
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase W Cross Conduction Fault - High-Side		
Motor A Phase W Over Voltage Fault VH - High-Side		
Motor A Phase W Under Voltage Fault VH - High-Side		
Motor A Phase W Over Voltage Fault VL - High-Side		
Motor A Phase W Under Voltage Fault VL - High-Side		
Motor A Phase W Over Voltage Fault VDD - High-Side		
Motor A Phase W Under Voltage Fault VDD - High-Side		
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase W Over Voltage Fault VH - Low-Side		
Motor A Phase W Under Voltage Fault VH - Low-Side		

Motor A Phase W Over Voltage Fault VL - Low-Side		
Motor A Phase W Under Voltage Fault VL - Low-Side		
Motor A Phase W Over Voltage Fault VDD - Low-Side		
Motor A Phase W Under Voltage Fault VDD - Low-Side		
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Inverter A Status Feedback		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		Ft-Lbs
Inverter A Input DC Current		AMP
Electric Motor A Speed		rpm
Motor A - Inverter Current - phase A		AMP
Motor A - Inverter Current - phase B		AMP
Motor A - Inverter Current - phase C		AMP
Motor A Resolver Supply Voltage Value		Volts
Battery Feed Voltage 3 Sense		Volts
Internal EPS Voltage Sense A		Volts
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense B		Volts
PIM DC Link Voltage - A		Volts
PIM DC Link Voltage - B		Volts
Passive Pump Coolant Temp In Sensor		°F
Low Temp Active Pump Speed		rpm
High Temp Aux Pump - Actual Speed		rpm
Outside Air Temperature		°F
Battery Feed Voltage 1 Sense		Volts
Actual Torque - Motor B		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 B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase A		AMP
Motor B Resolver Angle		Degree
Motor B - Inverter Current - phase C		AMP
Motor B Temp Sensor		°F
HV Battery Voltage from BPCM		Volts
Electric Motor B Speed		rpm
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
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
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 | Active | MCPB High Voltage Battery Voltage Sensor Circuit Performance-

NAME	VALUE	UNITS
DTC	1A ED 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	
Occurrence flag		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Commanded Inverter B State		
Inverter B Status Feedback		

Motor B Phase U Short Fault - High-Side		
Motor B Phase U Cross Conduction Fault - High-Side		
Motor B Phase U Thermal Warning Fault - High-Side		
Motor B Phase U Thermal Shutdown Fault - High-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase U SPI Error Fault - High-Side		
Motor B Phase U Hardware Error Fault - High-Side		
Motor B Phase U Short Fault - Low-Side		
Motor B Phase U Cross Conduction Fault - Low-Side		
Motor B Phase U Over Current Fault - Low-Side		
Motor B Phase U Thermal Warning Fault - Low-Side		
Motor B Phase U Thermal Shutdown Fault - Low-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase U SPI Error Fault - Low-Side		
Motor B Phase U Hardware Error Fault - Low-Side		
Motor B Phase V Short Fault - High-Side		
Motor B Phase V Cross Conduction Fault - High-Side		
Motor B Phase V Over Current Fault - High-Side		
Motor B Phase V Thermal Warning Fault - High-Side		
Motor B Phase V Thermal Shutdown Fault - High-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase V SPI Error Fault - High-Side		
Motor B Phase V Hardware Error Fault - High-Side		
Motor B Phase V Short Fault - Low-Side		
Motor B Phase V Cross Conduction Fault - Low-Side		
Motor B Phase V Over Current Fault - Low-Side		
Motor B Phase V Thermal Warning Fault - Low-Side		
Motor B Phase V Thermal Shutdown Fault - Low-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase V SPI Error Fault - Low-Side		
Motor B Phase V Hardware Error Fault - Low-Side		
Motor B Phase W Short Fault - High-Side		
Motor B Phase W Cross Conduction Fault - High-Side		
Motor B Phase W Over Current Fault - High-Side		
Motor B Phase W Thermal Warning Fault - High-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase W SPI Error Fault - High-Side		
Motor B Phase W Hardware Error Fault - High-Side		
Motor B Phase W Short Fault - Low-Side		
Motor B Phase W Cross Conduction Fault - Low-Side		

Motor B Phase W Over Current Fault - Low-Side		
Motor B Phase W Thermal Warning Fault - Low-Side		
Motor B Phase W Thermal Shutdown Fault - Low-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase W SPI Error Fault - Low-Side		
Motor B Phase W Hardware Error Fault - Low-Side		
Hybrid System State		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Motor B Phase U Over Current Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - High-Side		
Motor B Phase U Under Voltage Fault VH - High-Side		
Motor B Phase U Over Voltage Fault VL - High-Side		
Motor B Phase U Under Voltage Fault VL - High-Side		
Motor B Phase U Under Voltage Fault VDD - High-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase U Over Voltage Fault VDD - High-Side		
Motor B Phase U Over Voltage Fault VH - Low-Side		
Motor B Phase U Under Voltage Fault VH - Low-Side		
Motor B Phase U Over Voltage Fault VL - Low-Side		
Motor B Phase U Under Voltage Fault VL - Low-Side		
Motor B Phase U Over Voltage Fault VDD - Low-Side		
Motor B Phase U Under Voltage Fault VDD - Low-Side		
Motor B Phase V Over Voltage Fault VH - High-Side		
Motor B Phase V Under Voltage Fault VH - High-Side		
Motor B Phase V Over Voltage Fault VL - High-Side		
Motor B Phase V Under Voltage Fault VL - High-Side		
Motor B Phase V Over Voltage Fault VDD - High-Side		
Motor B Phase V Under Voltage Fault VDD - High-Side		
Motor B Phase V Over Voltage Fault VH - Low-Side		
Motor B Phase V Under Voltage Fault VH - Low-Side		
Motor B Phase V Over Voltage Fault VL - Low-Side		
Motor B Phase V Under Voltage Fault VL - Low-Side		
Motor B Phase V Over Voltage Fault VDD - Low-Side		
Motor B Phase V Under Voltage Fault VDD - Low-Side		
Motor B Phase W Over Voltage Fault VH - High-Side		

Motor B Phase W Under Voltage Fault VH - High-Side		
Motor B Phase W Over Voltage Fault VL - High-Side		
Motor B Phase W Under Voltage Fault VL - High-Side		
Motor B Phase W Over Voltage Fault VDD - High-Side		
Motor B Phase W Under Voltage Fault VDD - High-Side		
Motor B Phase W Thermal Shutdown Fault - High-Side		
Motor B Phase W Over Voltage Fault VH - Low-Side		
Motor B Phase W Under Voltage Fault VH - Low-Side		
Motor B Phase W Over Voltage Fault VL - Low-Side		
Motor B Phase W Under Voltage Fault VL - Low-Side		
Motor B Phase W Over Voltage Fault VDD - Low-Side		
Motor B Phase W Under Voltage Fault VDD - Low-Side		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Actual Torque - Motor B		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Inverter B Input DC Current		AMP
Electric Motor B Speed		rpm
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Motor B Resolver Supply Voltage Value		Volts
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		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 A Resolver Angle		Degree
Motor A Temp Sensor		°F
Outside Air Temperature		°F
HV Battery Voltage from BPCM		Volts
Electric Motor A 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
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
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 | P1AEE-00 | Active | MCPA HV Battery System Voltage High-

NAME	VALUE	UNITS
DTC	—	
Test Failed	—	
Test Failed This Operation Cycle	—	
Pending DTC	—	
Confirmed DTC	—	
Test Not Completed Since Last Clear	—	
Test Failed Since Last Clear	—	
Test Not Completed This Operation Cycle	—	
Warning Indicator Requested	—	
Occurrence flag	—	
Brake Switch Status	—	
PHEV Charging Status	—	
Ignition State	—	
PRND Position Display	—	

Propulsion System Active	—	
Motor A Phase U Short Fault - High-Side	—	
Motor A Phase U Cross Conduction Fault - High-Side	—	
Motor A Phase U Over Current Fault - High-Side	—	
Motor A Phase U Thermal Warning Fault - High-Side	—	
Motor A Phase U Thermal Shutdown Fault - High-Side	—	
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side	—	
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side	—	
Motor A Phase U SPI Error Fault - High-Side	—	
Motor A Phase U Hardware Error Fault - High-Side	—	
Motor A Phase U Short Fault - Low-Side	—	
Motor A Phase U Cross Conduction Fault - Low-Side	—	
Motor A Phase U Over Current Fault - Low-Side	—	
Motor A Phase U Thermal Warning Fault - Low-Side	—	
Motor A Phase U Thermal Shutdown Fault - Low-Side	—	
Motor A Phase U SPI Error Fault - Low-Side	—	
Motor A Phase U Hardware Error Fault - Low-Side	—	
Motor A Phase V Short Fault - High-Side	—	
Motor A Phase V Cross Conduction Fault - High-Side	—	
Motor A Phase V Over Current Fault - High-Side	—	
Motor A Phase V Thermal Warning Fault - High-Side	—	
Motor A Phase V Thermal Shutdown Fault - High-Side	—	
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side	—	
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side	—	
Motor A Phase V SPI Error Fault - High-Side	—	
Motor A Phase V Hardware Error Fault - High-Side	—	
Motor A Phase V Short Fault - Low-Side	—	
Motor A Phase V Cross Conduction Fault - Low-Side	—	
Motor A Phase V Over Current Fault - Low-Side	—	
Motor A Phase V Thermal Warning Fault - Low-Side	—	
Motor A Phase V Thermal Shutdown Fault - Low-Side	—	
Motor A Phase V SPI Error Fault - Low-Side	—	
Motor A Phase V Hardware Error Fault - Low-Side	—	
Motor A Phase W Short Fault - High-Side	—	
Motor A Phase W Over Current Fault - High-Side	—	
Motor A Phase W Thermal Warning Fault - High-Side	—	
Motor A Phase W Thermal Shutdown Fault - High-Side	—	
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side	—	
Motor A Phase W SPI Error Fault - High-Side	—	
Motor A Phase W Hardware Error Fault - High-Side	—	
Motor A Phase W Short Fault - Low-Side	—	
Motor A Phase W Cross Conduction Fault - Low-Side	—	
Motor A Phase W Over Current Fault - Low-Side	—	
Motor A Phase W Thermal Warning Fault - Low-Side	—	

Motor A Phase W Thermal Shutdown Fault - Low-Side	—	
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side	—	
Motor A Phase W SPI Error Fault - Low-Side	—	
Motor A Phase W Hardware Error Fault - Low-Side	—	
Hybrid System State	—	
HV Contactor Status	—	
Inverter B Status Feedback	—	
HCP ePT Wake-Up Output	—	
CBC Wake-Up Input	—	
EPT LOC Diag Enable	—	
APM Status	—	
Impact Event	—	
HCP System Shutdown Command	—	
OBCM Operating Mode	—	
J1772 Prox Detected State	—	
Commanded Inverter A State	—	
Inverter Status Feedback	—	
Motor A Phase U Over Voltage Fault VH - High-Side	—	
Motor A Phase U Under Voltage Fault VH - High-Side	—	
Motor A Phase U Over Voltage Fault VL - High-Side	—	
Motor A Phase U Under Voltage Fault VL - High-Side	—	
Motor A Phase U Over Voltage Fault VDD - High-Side	—	
Motor A Phase U Under Voltage Fault VDD - High-Side	—	
Motor A Phase U Over Voltage Fault VH - Low-Side	—	
Motor A Phase U Under Voltage Fault VH - Low-Side	—	
Motor A Phase U Over Voltage Fault VL - Low-Side	—	
Motor A Phase U Under Voltage Fault VL - Low-Side	—	
Motor A Phase U Over Voltage Fault VDD - Low-Side	—	
Motor A Phase U Under Voltage Fault VDD - Low-Side	—	
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side	—	
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side	—	
Motor A Phase V Over Voltage Fault VH - High-Side	—	
Motor A Phase V Under Voltage Fault VH - High-Side	—	
Motor A Phase V Over Voltage Fault VL - High-Side	—	
Motor A Phase V Under Voltage Fault VL - High-Side	—	
Motor A Phase V Over Voltage Fault VDD - High-SideSide	—	
Motor A Phase V Under Voltage Fault VDD - High-Side	—	
Motor A Phase V Over Voltage Fault VH - Low-Side	—	
Motor A Phase V Under Voltage Fault VH - Low-Side	—	
Motor A Phase V Over Voltage Fault VL - Low-Side	—	
Motor A Phase V Under Voltage Fault VL - Low-Side	—	
Motor A Phase V Over Voltage Fault VDD - Low-Side	—	
Motor A Phase V Under Voltage Fault VDD - Low-Side	—	
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side	—	

Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side	—	
Motor A Phase W Cross Conduction Fault - High-Side	—	
Motor A Phase W Over Voltage Fault VH - High-Side	—	
Motor A Phase W Under Voltage Fault VH - High-Side	—	
Motor A Phase W Under Voltage Fault VL - High-Side	—	
Motor A Phase W Over Voltage Fault VL - High-Side	—	
Motor A Phase W Over Voltage Fault VDD - High-Side	—	
Motor A Phase W Under Voltage Fault VDD - High-Side	—	
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side	—	
Motor A Phase W Over Voltage Fault VH - Low-Side	—	
Motor A Phase W Under Voltage Fault VH - Low-Side	—	
Motor A Phase W Over Voltage Fault VL - Low-Side	—	
Motor A Phase W Under Voltage Fault VL - Low-Side	—	
Motor A Phase W Over Voltage Fault VDD - Low-Side	—	
Motor A Phase W Under Voltage Fault VDD - Low-Side	—	
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side	—	
Inverter A Status Feedback	—	
Original Odometer Value	—	miles
Most Recent Odometer Value	—	miles
Frequency Counter	—	
Ignition Cycle Counter	—	
Real time clock	—	sec
RAM stamps keyOn	—	sec
RAM Stamps	—	Min
Accelerator Pedal Position	—	%
HV Battery SOC	—	%
Engine Speed	—	rpm
Vehicle Speed	—	MPH
Barometric Pressure	—	PSI
Engine Coolant Temperature	—	°F
Actual Torque - Motor A	—	Ft-Lbs
Available Motor Torque - Motor A	—	Ft-Lbs
Inverter A Input DC Current	—	AMP
Electric Motor A Speed	—	rpm
Motor A - Inverter Current - phase A	—	AMP
Motor A - Inverter Current - phase B	—	AMP
Motor A - Inverter Current - phase C	—	AMP
Motor A Resolver Supply Voltage Value	—	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
PIM DC Link Voltage - A	—	Volts
PIM DC Link Voltage - B	—	Volts

Passive Pump Coolant Temp In Sensor	—	°F
High Temp Aux Pump - Actual Speed	—	rpm
Low Temp Active Pump Speed	—	rpm
Outside Air Temperature	—	°F
Battery Feed Voltage 1 Sense	—	Volts
Actual Torque - Motor B	—	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 B - Inverter Current - phase A	—	AMP
Motor B - Inverter Current - phase B	—	AMP
Motor B - Inverter Current - phase C	—	AMP
Motor B Resolver Angle	—	Degree
Motor B Temp Sensor	—	°F
HV Battery Voltage from BPCM	—	Volts
Inverter A IGBT Temperature for phase A	—	°F
Electric Motor B Speed	—	rpm
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
Distance Travelled with Light ON	—	miles
Motor A Torque	—	Ft-Lbs
Motor B Torque	—	Ft-Lbs
HV Battery Sleep Time	—	Days
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 | P1AEF-00 | Active | MCPB High Voltage Battery System Voltage High-

NAME	VALUE	UNITS
DTC	1A EF 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	Occurrence	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
PRND Position Display	N	
Propulsion System Active	False	
Commanded Inverter B State	Torque Control	
Inverter B Status Feedback	Inverter Faulted	
Motor B Phase U Short Fault - High-Side	False	
Motor B Phase U Cross Conduction Fault - High-Side	False	
Motor B Phase U Thermal Warning Fault - High-Side	False	
Motor B Phase U Thermal Shutdown Fault - High-Side	False	
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase U SPI Error Fault - High-Side	False	
Motor B Phase U Hardware Error Fault - High-Side	False	
Motor B Phase U Short Fault - Low-Side	False	
Motor B Phase U Cross Conduction Fault - Low-Side	False	
Motor B Phase U Over Current Fault - Low-Side	True	
Motor B Phase U Thermal Warning Fault - Low-Side	True	
Motor B Phase U Thermal Shutdown Fault - Low-Side	True	
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor B Phase U SPI Error Fault - Low-Side	False	
Motor B Phase U Hardware Error Fault - Low-Side	False	
Motor B Phase V Short Fault - High-Side	False	
Motor B Phase V Cross Conduction Fault - High-Side	False	
Motor B Phase V Over Current Fault - High-Side	True	
Motor B Phase V Thermal Warning Fault - High-Side	False	
Motor B Phase V Thermal Shutdown Fault - High-Side	False	
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor B Phase V SPI Error Fault - High-Side	False	
Motor B Phase V Hardware Error Fault - High-Side	False	
Motor B Phase V Short Fault - Low-Side	False	
Motor B Phase V Cross Conduction Fault - Low-Side	False	
Motor B Phase V Over Current Fault - Low-Side	True	
Motor B Phase V Thermal Warning Fault - Low-Side	False	
Motor B Phase V Thermal Shutdown Fault - Low-Side	True	
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor B Phase V SPI Error Fault - Low-Side	False	

Motor B Phase V Hardware Error Fault - Low-Side	False	
Motor B Phase W Short Fault - High-Side	False	
Motor B Phase W Cross Conduction Fault - High-Side	False	
Motor B Phase W Over Current Fault - High-Side	True	
Motor B Phase W Thermal Warning Fault - High-Side	False	
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor B Phase W SPI Error Fault - High-Side	False	
Motor B Phase W Hardware Error Fault - High-Side	False	
Motor B Phase W Short Fault - Low-Side	False	
Motor B Phase W Cross Conduction Fault - Low-Side	False	
Motor B Phase W Over Current Fault - Low-Side	True	
Motor B Phase W Thermal Warning Fault - Low-Side	True	
Motor B Phase W Thermal Shutdown Fault - Low-Side	True	
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor B Phase W SPI Error Fault - Low-Side	False	
Motor B Phase W Hardware Error Fault - Low-Side	False	
Hybrid System State	Reserved	
HCP ePT Wake-Up Output	On	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
HV Contactor Status	Closed	
APM Status	Off	
Impact Event	False	
HCP System Shutdown Command	Default	
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
Motor B Phase U Over Current Fault - High-Side	True	
Motor B Phase U Over Voltage Fault VH - High-Side	False	
Motor B Phase U Under Voltage Fault VH - High-Side	False	
Motor B Phase U Over Voltage Fault VL - High-Side	False	
Motor B Phase U Under Voltage Fault VL - High-Side	False	
Motor B Phase U Over Voltage Fault VDD - High-Side	False	
Motor B Phase U Under Voltage Fault VDD - High-Side	False	
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor B Phase U Over Voltage Fault VH - Low-Side	True	
Motor B Phase U Under Voltage Fault VH - Low-Side	True	
Motor B Phase U Over Voltage Fault VL - Low-Side	False	
Motor B Phase U Under Voltage Fault VL - Low-Side	False	
Motor B Phase U Over Voltage Fault VDD - Low-Side	False	
Motor B Phase U Under Voltage Fault VDD - Low-Side	False	
Motor B Phase V Over Voltage Fault VH - High-Side	False	
Motor B Phase V Under Voltage Fault VH - High-Side	False	

Motor B Phase V Over Voltage Fault VL - High-Side	False	
Motor B Phase V Under Voltage Fault VL - High-Side	False	
Motor B Phase V Over Voltage Fault VDD - High-Side	False	
Motor B Phase V Under Voltage Fault VDD - High-Side	False	
Motor B Phase V Over Voltage Fault VH - Low-Side	True	
Motor B Phase V Under Voltage Fault VH - Low-Side	False	
Motor B Phase V Over Voltage Fault VL - Low-Side	False	
Motor B Phase V Under Voltage Fault VL - Low-Side	True	
Motor B Phase V Over Voltage Fault VDD - Low-Side	False	
Motor B Phase V Under Voltage Fault VDD - Low-Side	False	
Motor B Phase W Over Voltage Fault VH - High-Side	False	
Motor B Phase W Under Voltage Fault VH - High-Side	False	
Motor B Phase W Over Voltage Fault VL - High-Side	False	
Motor B Phase W Under Voltage Fault VL - High-Side	False	
Motor B Phase W Over Voltage Fault VDD - High-Side	False	
Motor B Phase W Under Voltage Fault VDD - High-Side	False	
Motor B Phase W Thermal Shutdown Fault - High-Side	False	
Motor B Phase W Over Voltage Fault VH - Low-Side	False	
Motor B Phase W Under Voltage Fault VH - Low-Side	True	
Motor B Phase W Over Voltage Fault VL - Low-Side	False	
Motor B Phase W Under Voltage Fault VL - Low-Side	False	
Motor B Phase W Over Voltage Fault VDD - Low-Side	False	
Motor B Phase W Under Voltage Fault VDD - Low-Side	False	
Original Odometer Value	1776.2	miles
Most Recent Odometer Value	1776.2	miles
Frequency Counter	1	
Ignition Cycle Counter	0	
Real time clock	22679924	sec
RAM stamps keyOn	480	sec
RAM Stamps	12991	Min
Accelerator Pedal Position	0	%
Engine Speed	2722	rpm
HV Battery SOC	26	%
Vehicle Speed	29.5054	MPH
Barometric Pressure	15	PSI
Engine Coolant Temperature	192	°F
Actual Torque - Motor B	-2.028	Ft-Lbs
Available Motor Torque - Motor B	5.347	Ft-Lbs
Inverter B Input DC Current	0.0	AMP
Electric Motor B Speed	1970.0	rpm
Motor B - Inverter Current - phase A	16	AMP
Motor B - Inverter Current - phase B	-24	AMP
Motor B - Inverter Current - phase C	4	AMP
Motor B Resolver Supply Voltage Value	15.75	Volts

Battery Feed Voltage 2 Sense	12.888	Volts
Internal EPS Voltage Sense A	8.136	Volts
Internal EPS Voltage Sense B	6.984	Volts
Battery Feed Voltage 1 Sense	12.816	Volts
Battery Feed Voltage 3 Sense	13.176	Volts
Actual Torque - Motor A	-13.274	Ft-Lbs
Available Motor Torque - Motor A	15.487	Ft-Lbs
Available Regen Torque - Motor A	-15.487	Ft-Lbs
Available Regen Torque - Motor B	0.000	Ft-Lbs
Commanded Torque - Motor A	-15.395	Ft-Lbs
Commanded Torque - Motor B	0.000	Ft-Lbs
Motor A - Inverter Current - phase A	-52	AMP
Motor A - Inverter Current - phase B	24	AMP
Motor A - Inverter Current - phase C	24	AMP
Motor A Resolver Angle	212	Degree
Motor A Temp Sensor	129	°F
Outside Air Temperature	62.6	°F
HV Battery Voltage from BPCM	180.00	Volts
Electric Motor A Speed	7388.5	rpm
PIM DC Link Voltage - A	223	Volts
PIM DC Link Voltage - B	1	Volts
Inverter A IGBT Temperature for phase A	347	°F
Inverter A IGBT Temperature for phase B	347	°F
Inverter A IGBT Temperature for phase C	347	°F
Inverter B IGBT Temperature for phase A	347	°F
Inverter B IGBT Temperature for phase B	347	°F
Inverter B IGBT Temperature for phase C	329	°F
Distance Travelled with Light ON	0	miles
Motor A Torque	-13.274	Ft-Lbs
Motor B Torque	-2.028	Ft-Lbs
HV Battery Sleep Time	0	Days
GPS Date - Year	0	Year
GPS Date - Month	1	
GPS Date - Day	1	Days
UTC Time - Hours	0	Hours
UTC Time - Minutes	0	
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms

HCP | P1AFC-00 | Active | MCPA Lost Communication With HCP-

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

Confirmed DTC	—	
Pending DTC	—	
Test Failed Since Last Clear	—	
Test Not Completed Since Last Clear	—	
Test Not Completed This Operation Cycle	—	
Warning Indicator Requested	—	
Occurrence flag	—	
DTC Extended Data Record Number	—	
Brake Switch Status	—	
PHEV Charging Status	—	
Ignition State	—	
PRND Position Display	—	
Propulsion System Active	—	
Main Processor Reset Source - Core 0	—	
Main Processor Reset Source - Core 1	—	
Static NVM CRC Status	—	
Cumulative NVM CRC Status	—	
Preserved NVM CRC Status	—	
Adaptable NVM CRC Status	—	
Expendable NVM CRC Status	—	
MCPUninit EEPROM CRC Status	—	
MCPInit EEPROM CRC Status	—	
Non Volatile RAM CRC Status	—	
BSW EEPROM CRC Status	—	
HCP - MCPA SPI CRC Error Count	—	
HCP - MCPA SPI ARC Error Count	—	
MCPB - MCPA SPI CRC Error Count	—	
MCPB - MCPA SPI ARC Error Count	—	
MemShare CRC Error Count- Core 0	—	
MemShare ARC Error Count- Core 0	—	
MemShare CRC Error Count- Core 1	—	
MemShare ARC Error Count- Core 1	—	
Main Stack Fault	—	
Main Analog-to-Digital Converter Fault	—	
External Watchdog Fault	—	
MainTPU_Flt	—	
Main Clock Fault	—	
MAIN ALU Fault	—	
MAIN Detected SPI Fault	—	
Main Detected Seed Received In Wrong Order	—	
Hybrid System State	—	
CBC Wake-Up Input	—	
EPT LOC Diag Enable	—	
HCP ePT Wake-Up Output	—	

HV Contactor Status	—	
HCP System Shutdown Command	—	
APM Status	—	
Impact Event	—	
OBCM Operating Mode	—	
J1772 Prox Detected State	—	
Frequency Counter	—	
Original Odometer Value	—	miles
Most Recent Odometer Value	—	miles
Ignition Cycle Counter	—	
Real time clock	—	sec
Accelerator Pedal Position	—	%
RAM stamps keyOn	—	sec
RAM Stamps	—	Min
Barometric Pressure	—	PSI
Engine Speed	—	rpm
Battery Feed Voltage 2 Sense	—	Volts
HV Battery SOC	—	%
Vehicle Speed	—	MPH
Engine Coolant Temperature	—	°F
Internal EPS Voltage Sense B	—	Volts
Internal EPS Voltage Sense A	—	Volts
Actual Torque - Motor A	—	Ft-Lbs
Battery Feed Voltage 3 Sense	—	Volts
Battery Feed Voltage 1 Sense	—	Volts
Available Motor Torque - Motor A	—	Ft-Lbs
Actual Torque - Motor B	—	Ft-Lbs
Available Motor Torque - Motor B	—	Ft-Lbs
Available Regen Torque - Motor B	—	Ft-Lbs
Commanded Torque - Motor B	—	Ft-Lbs
Motor A - Inverter Current - phase A	—	AMP
Motor A - Inverter Current - phase C	—	AMP
Commanded Torque - Motor A	—	Ft-Lbs
Motor A - Inverter Current - phase B	—	AMP
Available Regen Torque - Motor A	—	Ft-Lbs
Motor B - Inverter Current - phase A	—	AMP
Motor A Resolver Angle	—	Degree
Motor B - Inverter Current - phase B	—	AMP
Motor B Temp Sensor	—	°F
Motor B - Inverter Current - phase C	—	AMP
Motor B Resolver Angle	—	Degree
Motor A Temp Sensor	—	°F
HV Battery Voltage from BPCM	—	Volts
Outside Air Temperature	—	°F

PIM DC Link Voltage - A	—	Volts
Electric Motor A Speed	—	rpm
Electric Motor B Speed	—	rpm
Inverter A IGBT Temperature for phase C	—	°F
PIM DC Link Voltage - B	—	Volts
Inverter A IGBT Temperature for phase A	—	°F
Inverter B IGBT Temperature for phase B	—	°F
Inverter B IGBT Temperature for phase A	—	°F
Inverter B IGBT Temperature for phase C	—	°F
Inverter A IGBT Temperature for phase B	—	°F
Motor A Torque	—	Ft-Lbs
Distance Travelled with Light ON	—	miles
Motor B Torque	—	Ft-Lbs
HV Battery Sleep Time	—	Days
GPS Date - Day	—	Days
GPS Date - Year	—	Year
GPS Date - Month	—	
UTC Time - Hours	—	Hours
UTC Time - Minutes	—	
UTC Time - Seconds	—	seconds
ECU Time - Milliseconds	—	ms

HCP | P1AFD-00 | Active | MCPA Lost Communication With MCPB-

NAME	VALUE	UNITS
DTC	1A FD 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
Confirmed DTC	True	
Pending DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
DTC Extended Data Record Number		
Warning Indicator Requested	True	
Occurrence flag		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
Propulsion System Active		
PRND Position Display		
Main Processor Reset Source - Core 0		
Main Processor Reset Source - Core 1		
Static NVM CRC Status		
Cumulative NVM CRC Status		

Adaptable NVM CRC Status		
Preserved NVM CRC Status		
Expendable NVM CRC Status		
MCPUninit EEPROM CRC Status		
MCPInit EEPROM CRC Status		
Non Volatile RAM CRC Status		
BSW EEPROM CRC Status		
HCP - MCPA SPI CRC Error Count		
HCP - MCPA SPI ARC Error Count		
MCPB - MCPA SPI CRC Error Count		
MCPB - MCPA SPI ARC Error Count		
MemShare CRC Error Count- Core 0		
MemShare ARC Error Count- Core 0		
MemShare CRC Error Count- Core 1		
MemShare ARC Error Count- Core 1		
Main Stack Fault		
Main Analog-to-Digital Converter Fault		
External Watchdog Fault		
MainTPU_Flt		
Main Clock Fault		
MAIN ALU Fault		
MAIN Detected SPI Fault		
Main Detected Seed Received In Wrong Order		
Hybrid System State		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
Impact Event		
APM Status		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Original Odometer Value		miles
Frequency Counter		
Most Recent Odometer Value		miles
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Speed		rpm
Vehicle Speed		MPH
HV Battery SOC		%

Battery Feed Voltage 2 Sense		Volts
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
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
Commanded Torque - Motor B		Ft-Lbs
Available Regen Torque - Motor B		Ft-Lbs
Motor A - Inverter Current - phase A		AMP
Commanded Torque - Motor A		Ft-Lbs
Motor A - Inverter Current - phase C		AMP
Motor A - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Motor A Resolver Angle		Degree
Motor B - Inverter Current - phase A		AMP
Motor B Resolver Angle		Degree
Motor B - Inverter Current - phase B		AMP
Motor B Temp Sensor		°F
HV Battery Voltage from BPCM		Volts
Outside Air Temperature		°F
Motor A Temp Sensor		°F
Electric Motor A Speed		rpm
Inverter A IGBT Temperature for phase A		°F
PIM DC Link Voltage - A		Volts
Electric Motor B Speed		rpm
PIM DC Link Voltage - B		Volts
Inverter B 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 C		°F
Inverter B IGBT Temperature for phase B		°F
Motor B Torque		Ft-Lbs
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
HV Battery Sleep Time		Days
GPS Date - Year		Year
UTC Time - Minutes		
UTC Time - Hours		Hours

GPS Date - Month		
GPS Date - Day		Days
UTC Time - Seconds		seconds
ECU Time - Milliseconds		ms

HCP | P1B07-00 | Active | MCPA High Voltage Battery System Voltage Low-

NAME	VALUE	UNITS
DTC	1B 07 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	
Occurrence flag		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Motor A Phase U Short Fault - High-Side		
Motor A Phase U Cross Conduction Fault - High-Side		
Motor A Phase U Over Current Fault - High-Side		
Motor A Phase U Thermal Warning Fault - High-Side		
Motor A Phase U Thermal Shutdown Fault - High-Side		
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase U SPI Error Fault - High-Side		
Motor A Phase U Hardware Error Fault - High-Side		
Motor A Phase U Short Fault - Low-Side		
Motor A Phase U Cross Conduction Fault - Low-Side		
Motor A Phase U Over Current Fault - Low-Side		
Motor A Phase U Thermal Warning Fault - Low-Side		
Motor A Phase U Thermal Shutdown Fault - Low-Side		
Motor A Phase U SPI Error Fault - Low-Side		
Motor A Phase U Hardware Error Fault - Low-Side		
Motor A Phase V Short Fault - High-Side		
Motor A Phase V Cross Conduction Fault - High-Side		
Motor A Phase V Over Current Fault - High-Side		
Motor A Phase V Thermal Warning Fault - High-Side		
Motor A Phase V Thermal Shutdown Fault - High-Side		
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side		

Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase V SPI Error Fault - High-Side		
Motor A Phase V Hardware Error Fault - High-Side		
Motor A Phase V Short Fault - Low-Side		
Motor A Phase V Cross Conduction Fault - Low-Side		
Motor A Phase V Over Current Fault - Low-Side		
Motor A Phase V Thermal Warning Fault - Low-Side		
Motor A Phase V Thermal Shutdown Fault - Low-Side		
Motor A Phase V SPI Error Fault - Low-Side		
Motor A Phase V Hardware Error Fault - Low-Side		
Motor A Phase W Short Fault - High-Side		
Motor A Phase W Over Current Fault - High-Side		
Motor A Phase W Thermal Warning Fault - High-Side		
Motor A Phase W Thermal Shutdown Fault - High-Side		
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase W SPI Error Fault - High-Side		
Motor A Phase W Hardware Error Fault - High-Side		
Motor A Phase W Short Fault - Low-Side		
Motor A Phase W Cross Conduction Fault - Low-Side		
Motor A Phase W Over Current Fault - Low-Side		
Motor A Phase W Thermal Warning Fault - Low-Side		
Motor A Phase W Thermal Shutdown Fault - Low-Side		
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase W Hardware Error Fault - Low-Side		
Motor A Phase W SPI Error Fault - Low-Side		
Hybrid System State		
HV Contactor Status		
Inverter B Status Feedback		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Commanded Inverter A State		
Inverter Status Feedback		
Motor A Phase U Over Voltage Fault VH - High-Side		
Motor A Phase U Under Voltage Fault VH - High-Side		
Motor A Phase U Over Voltage Fault VL - High-Side		
Motor A Phase U Under Voltage Fault VL - High-Side		
Motor A Phase U Over Voltage Fault VDD - High-Side		
Motor A Phase U Under Voltage Fault VDD - High-Side		

Motor A Phase U Over Voltage Fault VH - Low-Side		
Motor A Phase U Under Voltage Fault VH - Low-Side		
Motor A Phase U Over Voltage Fault VL - Low-Side		
Motor A Phase U Under Voltage Fault VL - Low-Side		
Motor A Phase U Over Voltage Fault VDD - Low-Side		
Motor A Phase U Under Voltage Fault VDD - Low-Side		
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase V Over Voltage Fault VH - High-Side		
Motor A Phase V Under Voltage Fault VH - High-Side		
Motor A Phase V Over Voltage Fault VL - High-Side		
Motor A Phase V Under Voltage Fault VL - High-Side		
Motor A Phase V Over Voltage Fault VDD - High-SideSide		
Motor A Phase V Under Voltage Fault VDD - High-Side		
Motor A Phase V Over Voltage Fault VH - Low-Side		
Motor A Phase V Under Voltage Fault VH - Low-Side		
Motor A Phase V Over Voltage Fault VL - Low-Side		
Motor A Phase V Under Voltage Fault VL - Low-Side		
Motor A Phase V Over Voltage Fault VDD - Low-Side		
Motor A Phase V Under Voltage Fault VDD - Low-Side		
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase W Cross Conduction Fault - High-Side		
Motor A Phase W Over Voltage Fault VH - High-Side		
Motor A Phase W Under Voltage Fault VH - High-Side		
Motor A Phase W Over Voltage Fault VL - High-Side		
Motor A Phase W Under Voltage Fault VL - High-Side		
Motor A Phase W Over Voltage Fault VDD - High-Side		
Motor A Phase W Under Voltage Fault VDD - High-Side		
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase W Over Voltage Fault VH - Low-Side		
Motor A Phase W Under Voltage Fault VH - Low-Side		
Motor A Phase W Over Voltage Fault VL - Low-Side		
Motor A Phase W Under Voltage Fault VL - Low-Side		
Motor A Phase W Over Voltage Fault VDD - Low-Side		
Motor A Phase W Under Voltage Fault VDD - Low-Side		
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Inverter A Status Feedback		
Original Odometer Value		miles
Frequency Counter		
Most Recent Odometer Value		miles
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec

RAM Stamps		Min
Accelerator Pedal Position		%
HV Battery SOC		%
Engine Speed		rpm
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Available Motor Torque - Motor A		Ft-Lbs
Actual Torque - Motor A		Ft-Lbs
Inverter A Input DC Current		AMP
Electric Motor A Speed		rpm
Motor A - Inverter Current - phase A		AMP
Motor A - Inverter Current - phase B		AMP
Motor A - Inverter Current - phase C		AMP
Motor A Resolver Supply Voltage Value		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
PIM DC Link Voltage - A		Volts
PIM DC Link Voltage - B		Volts
Low Temp Active Pump Speed		rpm
Passive Pump Coolant Temp In Sensor		°F
High Temp Aux Pump - Actual Speed		rpm
Outside Air Temperature		°F
Battery Feed Voltage 1 Sense		Volts
Actual Torque - Motor B		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 B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Motor B Resolver Angle		Degree
HV Battery Voltage from BPCM		Volts
Motor B Temp Sensor		°F
Electric Motor B Speed		rpm
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
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
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 | P215B-00 | Stored | Vehicle Speed - Output Shaft Speed Correlation-

NAME	VALUE	UNITS
DTC	21 5B 00	
Test Failed This Operation Cycle	True	
Confirmed DTC	True	
Pending DTC	True	
Test Failed	False	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Warning Indicator Requested	True	
Test Not Completed This Operation Cycle	False	
Occurrence flag		
Brake Switch Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
CBC Wake-Up Input		
HCP ePT Wake-Up Output		
HCP System Shutdown Command		
HCP SW Version		
SW Build Release Version		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
OBCM Operating Mode		
J1772 Prox Detected State		
Hybrid System State		
PHEV Charging Status		
Original Odometer Value		miles
Most Recent Odometer Value		miles

Frequency Counter		
Real time clock		sec
Ignition Cycle Counter		
RAM stamps keyOn		sec
Accelerator Pedal Position		%
RAM Stamps		Min
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH
Motor B Temp Sensor		°F
Barometric Pressure		PSI
Motor A Temp Sensor		°F
Engine Coolant Temperature		°F
Internal EPS Voltage Sense A		Volts
Motor A Torque		Ft-Lbs
Internal EPS Voltage Sense B		Volts
Motor B Torque		Ft-Lbs
Actual Torque - Motor B		Ft-Lbs
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Commanded Torque - Motor A		Ft-Lbs
Available Regen Torque - Motor A		Ft-Lbs
Available Regen Torque - Motor B		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 Resolver Angle		Degree
Motor B - Inverter Current - phase C		AMP
Electric Motor A Speed		rpm
Motor A Resolver Angle		Degree
Electric Motor B Speed		rpm
PIM DC Link Voltage - A		Volts
PIM DC Link Voltage - B		Volts
HV Battery Voltage from BPCM		Volts
Outside Air Temperature		°F
HV Battery Sleep Time		Days
Battery Feed Voltage 2 Sense		Volts
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Inverter A IGBT Temperature for phase A		°F

Inverter A IGBT Temperature for phase C		°F
Inverter A IGBT Temperature for phase B		°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
GPS Date - Month		
GPS Date - Year		Year
Distance Travelled with Light ON		miles
GPS Date - Day		Days
UTC Time - Hours		Hours
UTC Time - Seconds		seconds
UTC Time - Minutes		
ECU Time - Milliseconds		ms

HCP | P26C3-00 | Stored | Internal Control Module Electronic Shifter Performance-

NAME	VALUE	UNITS
DTC	26 C3 00	
Test Failed Since Last Clear	True	
Pending DTC	True	
Test Failed	False	
Test Failed This Operation Cycle	True	
Warning Indicator Requested	True	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Occurrence flag		
Test Not Completed This Operation Cycle	False	
Brake Switch Status		
PHEV Charging Status		
Propulsion System Active		
PRND Position Display		
Ignition State		
Shift Lock Status		
PRND Blink		
Auto Correction Request		
Park Pawl Motor Enable Feedback		
Park Pawl Motor Direction		
Reverse Shift Lock Status		
Park Pawl Status Feedback		
Park Gated Switch		
Failure Reasons for Level 2 eShift		
Hybrid System State		
CBC Wake-Up Input		
EPT LOC Diag Enable		
HCP ePT Wake-Up Output		

HV Contactor Status		
Impact Event		
APM Status		
OBCM Operating Mode		
J1772 Prox Detected State		
HCP System Shutdown Command		
RAM stamps keyOn		sec
RAM Stamps		Min
Ignition Cycle Counter		
Real time clock		sec
Engine Speed		rpm
Accelerator Pedal Position		%
Most Recent Odometer Value		miles
Frequency Counter		
Original Odometer Value		miles
HV Battery SOC		%
Engine Coolant Temperature		°F
Vehicle Speed		MPH
Park Pawl Motor PWM1		%
Barometric Pressure		PSI
PP Actuator Position Sensor Voltage		Volts
Park Pawl Motor Counts		Counts
Battery Feed Voltage 2 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Park Pawl Motor Current		AMP
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
Actual Torque - Motor B		Ft-Lbs
Battery Feed Voltage 1 Sense		Volts
Available Motor Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Actual 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
Available Regen Torque - Motor A		Ft-Lbs
Available Regen Torque - Motor B		Ft-Lbs
Commanded Torque - Motor A		Ft-Lbs
Motor A - Inverter Current - phase C		AMP
Motor B - Inverter Current - phase A		AMP
Motor A Resolver Angle		Degree
Motor B Temp Sensor		°F
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP

Motor A Temp Sensor		°F
Outside Air Temperature		°F
HV Battery Voltage from BPCM		Volts
Motor B Resolver Angle		Degree
Inverter A IGBT Temperature for phase C		°F
Inverter A IGBT Temperature for phase A		°F
Electric Motor A Speed		rpm
Inverter B IGBT Temperature for phase C		°F
Inverter B IGBT Temperature for phase A		°F
Electric Motor B Speed		rpm
PIM DC Link Voltage - A		Volts
PIM DC Link Voltage - B		Volts
Inverter A IGBT Temperature for phase B		°F
Motor B Torque		Ft-Lbs
Inverter B IGBT Temperature for phase B		°F
Motor A Torque		Ft-Lbs
GPS Date - Month		
Distance Travelled with Light ON		miles
HV Battery Sleep Time		Days
GPS Date - Year		Year
UTC Time - Hours		Hours
UTC Time - Minutes		
ECU Time - Milliseconds		ms
GPS Date - Day		Days
UTC Time - Seconds		seconds

HCP | U0623-00 | Stored | Lost Communication with Coolant Pump "A"-

NAME	VALUE	UNITS
DTC	C6 23 00	
Test Failed This Operation Cycle	True	
Pending DTC	True	
Confirmed DTC	True	
Test Failed	False	
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		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
Propulsion System Active		
PRND Position Display		
Thermal System Enable State		

High Temperature Shut-Off Valve Status		
Front Refrigerant Shut-Off Valve Status		
Chiller Shut-Off Valve Status		
Hybrid System State		
CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
RAM Stamps		Min
Real time clock		sec
Engine Speed		rpm
HV Battery SOC		%
RAM stamps keyOn		sec
Accelerator Pedal Position		%
Engine Coolant Temperature		°F
Vehicle Speed		MPH
Barometric Pressure		PSI
Heater Core Coolant Temp Sensor		°F
Electric Coolant Heater Temp Sensor		°F
A/C Refrigerant Pressure		PSI
Passive Pump Coolant Temp In Sensor		°F
Radiator Fan Duty Cycle		%
EAC Compressor Speed		rpm
High Temp Cabin Valve Feedback		degrees
Motor A Temp Sensor		°F
Motor B Temp Sensor		°F
Outside Air Temperature		°F
HV Coolant Heater - Measured Coolant Outlet Temp		°F
Low Temp Active Pump - Temperature		°F
HV Coolant Heater - Measured Coolant Inlet Temp		°F
Battery Feed Voltage 2 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
Low Temp Passive Pump - Temperature		°F
Battery Feed Voltage 1 Sense		Volts

Available Motor Torque - Motor A		Ft-Lbs
Available Regen Torque - Motor A		Ft-Lbs
Commanded Torque - Motor A		Ft-Lbs
Actual Torque - Motor B		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Motor A - Inverter Current - phase A		AMP
Available Regen Torque - Motor B		Ft-Lbs
Commanded Torque - Motor B		Ft-Lbs
Motor A - Inverter Current - phase B		AMP
Motor A - Inverter Current - phase C		AMP
Motor B - Inverter Current - phase A		AMP
Motor A Resolver Angle		Degree
Motor B - Inverter Current - phase B		AMP
Motor B Resolver Angle		Degree
Motor B - Inverter Current - phase C		AMP
HV Battery Voltage from BPCM		Volts
Electric Motor A Speed		rpm
Electric Motor B Speed		rpm
PIM DC Link Voltage - B		Volts
Inverter A IGBT Temperature for phase B		°F
PIM DC Link Voltage - A		Volts
Inverter A IGBT Temperature for phase A		°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
Distance Travelled with Light ON		miles
GPS Date - Month		
Motor B Torque		Ft-Lbs
Motor A Torque		Ft-Lbs
HV Battery Sleep Time		Days
GPS Date - Year		Year
ECU Time - Milliseconds		ms
GPS Date - Day		Days
UTC Time - Hours		Hours
UTC Time - Seconds		seconds
UTC Time - Minutes		

ABSO | U0104-00 | Stored | Lost Communication With Cruise Control Module-

NAME	VALUE	UNITS
Test Failed	False	
DTC	C1 04 00	
Pending DTC	False	
Confirmed DTC	True	

Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	False	
Controller Event	No	
Test Failed This Operation Cycle	False	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	
Occurrence flag	ERROR	
Undervoltage Suspected	No	
Mirror Memory	No	
Current System Mode	Ignition Run	
Previous System Mode	Ignition Run	
System Condition	OK	
Brake Pedal Status	Released	
Rotation Direction Right Front	Forward	
Rotation Direction Left Front	Forward	
Rotation Direction Left Rear	Forward	
Rotation Direction Right Rear	Forward	
ABS control	Not active	
MSR control	Not active	
EBV control	Not active	
ESP Control	Not active	
ASR control	Not active	
Braking assistance system	No Assistance System Is Braking	
HBA control	Not active	
Hold	No	
HSA control	Not active	
BLS Low	Yes	
Plant Mode	No	
BLS High	No	
EPB Mode Status	Static	
Park Brake	Not Activated	
Clutch	Not Activated	
ESP-OFF mode	No	
Status Parking Brake Left	Brake is Released	
Status Parking Brake Right	Brake is Released	
Stop Coordinator Active	No	
Actual Gear	1	
EPB Switch Status	Idle	
Transmission selector lever setting	D	
Original Odometer Value	1521	miles
Ignition Cycle Counter	8	
Fault Time	653.80	S
Most Recent Odometer Value	1521	miles
Frequency Counter	1	

Supply Voltage Valves	14.6	V
Brake Pedal Travel Sensor Position	0	%
Supply voltage Pump	14.6	V
Wheel Speed Right Front	53.686	MPH
Wheel Speed Left Rear	53.686	MPH
Ignition Unfiltered	14.6	V
Wheel Speed Left Front	53.686	MPH
Wheel Speed Right Rear	53.686	MPH
Lateral Acceleration	0.00	m/s^2
Yaw Rate	0.000	°/s
Steering Wheel Angle	0.00	°
Primary Circuit Pressure	0.00	PSI
Engine Speed	0.0	rpm
Longitudinal Acceleration	0.22	m/s^2
Accelerator Pedal Position	22.0	%
Supplier Internal Code	254	

SNAPSHOT DATA SUMMARY

No Snapshot Data available for B10EB-00

No Snapshot Data available for U1216-00

No Snapshot Data available for U1216-00

No Snapshot Data available for C2225-00

No Snapshot Data available for P0A95-00

No Snapshot Data available for P062C-00

No Snapshot Data available for P0642-00

No Snapshot Data available for P0652-00

No Snapshot Data available for P06B1-00

No Snapshot Data available for P06B4-00

No Snapshot Data available for P0A3C-00

No Snapshot Data available for P0A3D-00

No Snapshot Data available for P0A3F-00

No Snapshot Data available for P0A40-00

No Snapshot Data available for P0A46-00

No Snapshot Data available for P0A79-00

No Snapshot Data available for P0AFA-00

No Snapshot Data available for P0BF2-00

No Snapshot Data available for P0BF6-00

No Snapshot Data available for P0BFA-00

No Snapshot Data available for P0C0B-00

No Snapshot Data available for P0C0E-00

No Snapshot Data available for P0C11-00

No Snapshot Data available for P0C14-00

No Snapshot Data available for P0C19-00

No Snapshot Data available for P0C1A-00

No Snapshot Data available for P0E15-00

No Snapshot Data available for P1AEC-00

No Snapshot Data available for P1AED-00

No Snapshot Data available for P1AEE-00

No Snapshot Data available for P1AEF-00

No Snapshot Data available for P1AFC-00

No Snapshot Data available for P1AFD-00

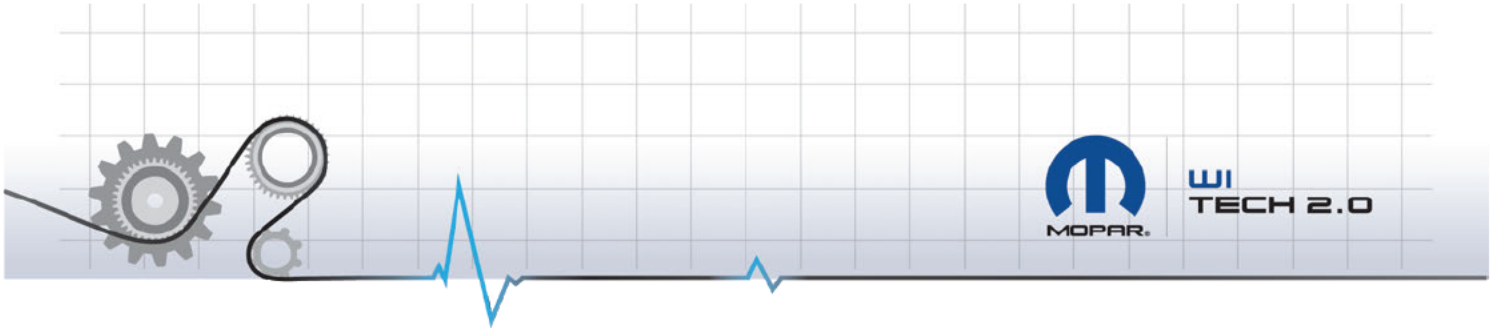
No Snapshot Data available for P1B07-00

No Snapshot Data available for P215B-00

No Snapshot Data available for P26C3-00

No Snapshot Data available for U0623-00

No Snapshot Data available for U0104-00



VEHICLE SCAN REPORT

Vehicle 2020 CHRYSLER PACIFICA (PHEV) 3.6L V6 HYBRID ENGINE
VIN [redacted]

Odometer 1776.2 miles
Publication Date Jul 12, 2021, 10:58:26 AM

ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	[redacted]	[redacted]	PART #
PCM	Powertrain Control Module	CAN-C	68444228AE			68444228AE
ICS	Integrated Center Stack	CAN-I	6UX621X8AA			6UX621X8AA
RFH	Radio Frequency Hub	CAN-C	68453559AB			68453559AB
ESM	Electronic Shifter	CAN-C	68240089AM			68240089AM
ORC	Occupant Restraint	CAN-C	68453076AD			68453076AD
EPS	Electric Power Steering	CAN-C	68460392AA			68460392AA
HVAC	Heat, Ventilation and A/C	CAN-I	68447893AC			68447893AC
DDM	Driver Door Module	CAN-I	68424449AC			68424449AC
PDM	Passenger Door Module	CAN-I	68424448AC			68424448AC
DMRL	Door Module Rear Left	CAN-I	68225096AG			68225096AG
DMRR	Door Module Rear Right	CAN-I	68225096AG			68225096AG
PSDML	Power Sliding Doors (Left)	CAN-I	68369596AD			68369596AD
PSDMR	Power Sliding Doors (Right)	CAN-I	68369596AD			68369596AD
MSM	Memory Seat Module	CAN-I	68321862AC			68321862AC
PLGM	Power Liftgate	CAN-I	68316094AF			68316094AF
CSWM	Comfort Seat Wheel Module	CAN-I	68434912AC			68434912AC
AMP	Amplifier	CAN-I	68448067AA			68448067AA
IPC	Instrument Panel Cluster	CAN-C	68434956AC			68434956AC
PTS	Parktronics	CAN-C	68193775AJ			68193775AJ
SCCM	Steering Column Control Module	CAN-C	68360889AD			68360889AD
BCM	Body Controller	CAN-C	68424601AE			68424601AE

ACC	Adaptive Cruise Control	CAN-C	68417813AF				68417813AF
RADIO	Radio	CAN-I	68461768AD				68461768AD
OCM	Occupant Classification	CAN-C	68403127AA				68403127AA
HVACR	Heat, Ventilation and A/C Rear	CAN-I	68373079AB				68373079AB
LBSS	Left Blind Spot Sensor	CAN-I	04672786AB				04672786AB
RBSS	Right Blind Spot Sensor	CAN-I	04672786AB				04672786AB
FFCM	Forward Facing Camera Module	CAN-C	68493395AA				68493395AA
EDM	External Disc Module	CAN-I	68378304AA				68378304AA
APM	Accessory Power Module	CAN-C	05185046AB				05185046AB
BPCM	Battery Pack Control Module	CAN-C	05193166AD				05193166AD
HCP	Hybrid Control Processor	CAN-C	05190265AF				05190265AF
OBCM	On Board Charging Module	CAN-C	05185047AE				05185047AE
MSMP	Memory Seat Module - Passenger	CAN-I	68321862AC				68321862AC
DSM	Display Screen Module	CAN-I	68316174AC				68316174AC
VRM	Video Routing Module	CAN-I	68376134AG				68376134AG
RCCC	Rear Cabin Comfort Controls	CAN-I	6WL30PD2AA				6WL30PD2AA
CVPM	Central vision processing module	CAN-I	68375113AB				68375113AB
EAC	Electric A/C Compressor	CAN-C	68237995AG				68237995AG
AHCP	Auxiliary Hybrid Control Processor	CAN-C	05190266AF				05190266AF
EBBM	Electronic Brake Booster Module	CAN-C	68461813AB				68461813AB
ABSO	Anti Lock Brakes OBD	CAN-C	68471122AD				68471122AD
SGW	Security Gateway Module	CAN-C	68447193AB				68447193AB

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	CVNS
PCM	USA	1B 47	46 03 01	4419	31D751B0
ICS	USA	0F 0C 00	12 25 00	4700	
RFH	USA / USA	10 17 00	13 09 00	4A00	
ESM	USA / USA	0F 24 00	12 28 FF	4402	
ORC	USA / USA	12 1A 00	13 2E 00	4301	
EPS	USA / USA	12 2A 00	12 1E 01	4502	

HVAC	USA	0E 09 00	13 05 01	4401	
DDM	USA	11 07 00	13 0B 00	4202	
PDM	USA	11 07 00	13 0B 00	4202	
DMRL	USA / USA	10 0B 00	12 0C 00	4201	
DMRR	USA / USA	10 0B 00	12 0C 00	4201	
PSDML	USA / USA	10 17 00	14 10 12	4001	
PSDMR	USA / USA	10 17 00	14 10 12	4001	
MSM	USA	0F 2B 00	10 27 03	4101	
PLGM	USA	17 19 00	18 22 00	4202	
CSWM	USA	11 2A 00	13 2C 00	4302	
AMP	USA	0F 06 01	12 2E 01	4021	
IPC	USA / USA	12 06 00	13 27 00	4704	
PTS	USA	0E 32 00	12 1F 00	4311	
SCCM	USA	13 28 00	13 29 00	4301	
BCM	USA	0D 11 00	13 2C 90	4415	
ACC	USA / USA	14 12 01	14 1D 01	4400	
RADIO	USA	13 31 14	13 31 14	8205	
OCM	USA / USA	11 1F 01	0E 2F 02	4030	
HVACR	USA	0E 09 00	10 03 02	4301	
LBSS	USA / USA	11 30 02	12 0D 00	4202	
RBSS	USA / USA	11 30 02	12 0D 00	4202	
FFCM	USA / USA	11 06 00	13 1E 00	4102	
EDM	USA	12 0A 00	11 08 00	4000	
APM	USA / USA	11 32 00	11 32 00	4001	
BPCM	Not programmed / COUNTRY_SNA	0E 03 00	13 18 03	4005	F5BC8401
HCP	USA	11 1F 04	19 48 01	4005	6AE19B37 847169A3 050DC953
OBCM	USA	0F 0D 00	12 02 00	4002	
MSMP	USA	0F 2B 00	10 27 03	4001	
DSM	USA / USA	13 29 00	12 23 00	4000	
VRM	USA / USA	0F 1C 00	13 26 11	4001	
RCCC	USA	0F 1D 00	13 04 00	4000	
CVPM	USA / USA	11 32 01	12 33 00	4003	
EAC	USA	0E 34 00	12 0F 00	4102	
AHCP	USA	11 1F 04	19 48 01	4000	
EBBM	USA	0E 19 02	14 0D 18	4000	E5898FA5
ABSO	USA	0E 15 02	14 1B 26	4201	4F158D1B
SGW		5	779	4103	

DTC SUMMARY

ECU	DTC CODE	DTC DESCRIPTION	STATUS
ACC	C2225-00	PCM Disabled ECU-	Active
RADIO	U0002-00	CAN C Bus Off Performance-	Active
BPCM	P0AA4-00	Hybrid/EV Battery Negative Contactor "A" Stuck Closed-	Active

HCP	P0642-00	Sensor Reference Voltage 1 Circuit Low-	Active
HCP	P0652-00	Sensor Reference Voltage 2 Circuit Low-	Active
HCP	P06B1-00	Sensor Power Supply 1 Circuit Low-	Active
HCP	P06B4-00	Sensor Power Supply 2 Circuit Low-	Active
HCP	P0A78-00	Drive Motor A Inverter Performance-	Active
HCP	P0A79-00	Drive Motor B Inverter Performance-	Active
HCP	P1AEC-00	MCPA HV Battery Voltage Sensor Circuit Performance-	Active
HCP	P1AED-00	MCPB High Voltage Battery Voltage Sensor Circuit Performance-	Active
HCP	P1AEE-00	MCPA HV Battery System Voltage High-	Active
HCP	P1AEF-00	MCPB High Voltage Battery System Voltage High-	Active
HCP	U0623-00	Lost Communication with Coolant Pump "A"-	Active
ABSO	C2222-00	Improper Powerdown-	Active

ENVIRONMENTAL DATA SUMMARY

ACC | C2225-00 | Active | PCM Disabled ECU-

NAME	VALUE	UNITS
Pending DTC	False	
Confirmed DTC	False	
Test Not Completed Since Last Clear	False	
Test Failed	True	
Test Failed This Operation Cycle	True	
Test Failed Since Last Clear	True	
Warning Indicator Requested	True	
Test Not Completed This Operation Cycle	False	
Occurrence flag		
PRNDL Status		
Frequency Counter		
Engine RPM		rpm
Engine Torque Request		Ft-Lbs
Object of Interest Distance		FEET
System Voltage		Volts
Original Odometer Value		miles
Operation Cycle Counter		
Most Recent Odometer Value		miles
Ignition Voltage		
Vehicle Speed		MPH
ACC Set Speed		MPH

RADIO | U0002-00 | Active | CAN C Bus Off Performance-

NAME	VALUE	UNITS
DTCTable	C0 02 00	
Pending DTC	True	
TestFailed	True	

Warning Indicator Requested	False	
Test Not Completed This Monitoring Cycle	False	
DTCExtendedDataRecordNumber	FF	
TestFailedThisMonitoringCycle	True	
Occurance Flag	Occurrence	
Confirmed DTC	True	
Reserved	Reserved	
RDI $6080	60 80	
Event Counter	64	
Most Recent Odometer Value	1770	miles
Ignition Counter	0	
Frequency Counter	1	
Original Odometer Value	1770	miles

BPCM | P0AA4-00 | Active | Hybrid/EV Battery Negative Contactor "A" Stuck Closed-

NAME	VALUE	UNITS
EPT -WakeUp	Sourced	
Key in Ignition	Key_Def	
Qualified Contactor Command - QCC	Open	
Verified Contactor Command - VCC	Open	
Contactor Status	Open	
Plug in Status	Not plugged in	
ChargingLevel	Plug in, but no charge	
Balance Mode	True	
Key Position	Ign_ Run	
HCP Contactor Command	Open	
Battery in Periodic wake up (Wake up vehicle) at time of Fault	False	
Battery in Periodic wake up (Just battery) at time of Fault	False	
HVIL Status -Vehicle	Not Sourced	
HVIL Status - Battery pack	PASS	
Pump - Dry Run Detection	PASS	
Pump - Wire Open\Short to Gnd	PASS	
Pump - Switch Power Shorted	PASS	
Pump - Overtemperature	PASS	
Pump - Overcurrent	PASS	
Fault trigger level 3	False	
Fault Path	01	
Fault trigger level 1	False	
Fault trigger level 2	False	
Key - DriveRdy (CAN)	True	
Battery Cell Highest Cell number	45	
Battery Cell Lowest Cell number	12	
Battery Temperature Highest Sensor number	03	
Battery Temperature Number of Failing Sensors	00	

HV Cooling Pump Relay Drive	Not Sourced	
Battery Temperature Lowest Sensor number	01	
Isolation Vehicle Diagnostic Status	Run and Passed	
BPCM Sec Asic Reset Req	Not active	
Isolation Battery Diagnostic Status	Run and Passed	
Pump - Battery Coolant Level Low	False	
BPCM Sec CC Path Test Active	Not active	
BPCM Sec Asic Fault Input	Not active	
BPCM L2 General Monitoring Flt Rsn	L2L1_CELL_MAX_V_CMP_FLT	
BPCM L2 CC Path Test Req	Undetermined	
BPCM L2 Contactor Dslb Req	Undetermined	
BPCM L2 ASIC Diagnostic Flt Rsn	ADCTest	
BPCM Sec Asic Fault State	NOTASSERTED	
BPCM Sec Contactor State	Open	
BPCM Main HW Timer Status	Not active	
BPCM Sec HW Timer Status	Not active	
DTC	0A A4 00	
Real Time Clock Validity	True	
Test Failed	True	
Test Failed This Operation Cycle	True	
Test Not Completed Since Last Clear	False	
Pending DTC	True	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Confirmed DTC	True	
Warning Indicator Requested	False	
DTC Extended Data Record Number - All	01	
Occurrence flag	ERROR	
DTC Extended Data Record Number - 2	0E	
FoM - for this DTC (lifetime fails)	4	events
Frequency Counter	1	
FoM - for this DTC (lifetime fails counts on pass)	0.0000	seconds
Battery Total Time Awake	22750158	seconds
FoM - for this DTC (lifetime longest fail on pass)	0.000	seconds
Battery Lifetime Miles	5A1312	miles
System (12) Volts at time of fault	12.608	Volts
Vehicle Speed	0.0	MPH
SOC at time of Fault	25.9	%
Battery Lifetime AmpHrs of Charge	1455.0	AHr
Battery Lifetime AmpHrs of DisCharge	1454.5	AHr
Ignition Cycle Counter	0	
Power Up SOC at time of Fault	25.9	%
HVIL PWM Duty Cycle - Vehicle	0.0	%
HVIL PWM Frequency - Vehicle	0.0	Hz

HV Battery Current Sensor 1 Hall High	-2.75	Amps
HV Battery Current Sensor 2 Hall Low	0.05	Amps
HVIL Source Voltage- Battery	1.385	Volts
HVIL PWM peak voltage Sensed - Vehicle	0.349	Volts
HVIL Returned current - Battery	30.40	mA
HVIL PWM peak voltage Sourced - Vehicle	0.379	Volts
Vehicle mileage at time of fault (ODO signal in $3D2)	1776.19	miles
HV Cooling Speed pump 1 Speed	0	rpm
Charge indicator Temp	73	°F
HV Cooling Speed Pump 1 Target	0	rpm
BPCM temperature max	77	°F
BPCM temperature min	75	°F
HV Battery Current HVBatCrnt	0.00	Amps
WC and CircuitryISO 8V Reference Voltage	7.929	Volts
Isolation Circuitry Vb	2.501	Volts
WC and Circuitry 2.5V Reference Voltage	2.501	Volts
Isolation Circuitry Vd	0.000	Volts
WC and Circuitry Vcc Voltage	5.009	Volts
Isolation Circuitry Va	2.498	Volts
Cycles left to self heal	40	No Unit
WC and Circuitry Weld Contactor Sensor G (Pack Negative) Voltage	0.2	Volts
HV Battery Charge Power 2sec	91998	watts
Battery Lifetime Number Of Closes	514	
HV Battery Discharge Power 10sec	88221	watts
Cell Impedance Max Discharge	0	mOhms
Battery Cell Voltage Maximum	3575	mV
HV Battery Voltage (cell sum)	343.00	Volts
Battery Cell Voltage Minimum	3565	mV
HV Battery Discharge Power 2sec	91227	watts
Battery Full AmpHr Capacity	50	AmpHrs
HV Battery Charge Power 10sec	90408	watts
Battery Cell Voltage Average	3573	mV
Cell Impedance Mim Discharge	0	mOhms
HV Sensor D Heater (HVHTR Fuse) Voltage	0.70	Volts
HV Sensor C OBCM (HVOBC Fuse) Voltage	0.70	Volts
Battery Temperature Average Module	75	°F
HV Sensor B Bus\Link (Pre-Fuse) Voltage	1.20	Volts
HV Battery Voltage (Module Sum)	343.10	Volts
Battery Temperature Minimum Module	75	°F
HV Cooling OBCM temp inlet Temp	72	°F
HV Bat SOH-C	96.1	%
HV Bat SOH-R	98.8	%
BPCM Sec QA Error Counter	0	cnts
HV Cooling Battery coolant inlet temp	73	°F

HV Sensor G Weld Contactor(Pack Negative) Voltage	0.2	Volts
Isolation Vehicle Impedance	7.5602	Mega Ohms
HV Battery Power	007530	watts
HV Sensor A Pack Voltage	343.20	Volts
BPCM Sec MM Hw Reset Error Counter	0	cnts
Battery Temperature Maximum Module	77	°F
BPCM L2 SM Hw Reset Error Counter	0	No Unit
Accelerator position	7.8	%
Real time clock-OS Task Delay Timer	1	
Isolation Battery Impedance	0.8480	Mega Ohms
Most Recent Odometer Value	1770	miles
Engine Speed	0	rpm
HV Cooling Battery coolant outlet temp	73	°F
Real time clock	429496.7295	seconds
Original Odometer Value	1770	miles

HCP | P0642-00 | Active | Sensor Reference Voltage 1 Circuit Low-

NAME	VALUE	UNITS
DTC	06 42 00	
Test Failed	True	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed This Operation Cycle	True	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Pending DTC	True	
Warning Indicator Requested	True	
Occurrence flag	Occurrence	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
PRND Position Display	P	
Propulsion System Active	False	
Motor A Phase U Short Fault - High-Side	False	
Motor A Phase U Cross Conduction Fault - High-Side	False	
Motor A Phase U Over Current Fault - High-Side	False	
Motor A Phase U Thermal Warning Fault - High-Side	False	
Motor A Phase U Thermal Shutdown Fault - High-Side	False	
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase U SPI Error Fault - High-Side	True	
Motor A Phase U Hardware Error Fault - High-Side	True	
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase U Short Fault - Low-Side	False	
Motor A Phase U Cross Conduction Fault - Low-Side	False	

Motor A Phase U Thermal Warning Fault - Low-Side	False	
Motor A Phase U Over Current Fault - Low-Side	False	
Motor A Phase U Thermal Shutdown Fault - Low-Side	False	
Motor A Phase U SPI Error Fault - Low-Side	True	
Motor A Phase V Short Fault - High-Side	False	
Motor A Phase V Cross Conduction Fault - High-Side	False	
Motor A Phase V Over Current Fault - High-Side	False	
Motor A Phase U Hardware Error Fault - Low-Side	True	
Motor A Phase V Thermal Warning Fault - High-Side	False	
Motor A Phase V Thermal Shutdown Fault - High-Side	False	
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase V SPI Error Fault - High-Side	True	
Motor A Phase V Hardware Error Fault - High-Side	True	
Motor A Phase V Short Fault - Low-Side	False	
Motor A Phase V Cross Conduction Fault - Low-Side	False	
Motor A Phase V Over Current Fault - Low-Side	False	
Motor A Phase V Thermal Warning Fault - Low-Side	False	
Motor A Phase V Thermal Shutdown Fault - Low-Side	False	
Motor A Phase V SPI Error Fault - Low-Side	True	
Motor A Phase V Hardware Error Fault - Low-Side	True	
Motor A Phase W Over Current Fault - High-Side	False	
Motor A Phase W Thermal Warning Fault - High-Side	False	
Motor A Phase W Thermal Shutdown Fault - High-Side	False	
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase W Short Fault - High-Side	False	
Motor A Phase W SPI Error Fault - High-Side	True	
Motor A Phase W Short Fault - Low-Side	False	
Motor A Phase W Cross Conduction Fault - Low-Side	False	
Motor A Phase W Over Current Fault - Low-Side	False	
Motor A Phase W Hardware Error Fault - High-Side	True	
Motor A Phase W Thermal Shutdown Fault - Low-Side	False	
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase W SPI Error Fault - Low-Side	True	
Motor A Phase W Thermal Warning Fault - Low-Side	False	
Motor A Phase W Hardware Error Fault - Low-Side	True	
Hybrid System State	SNA	
HV Contactor Status	Open	
Inverter B Status Feedback	Inverter Faulted	
HCP ePT Wake-Up Output	On	
EPT LOC Diag Enable	Enable LOC Diagnostic	
CBC Wake-Up Input	Off	
APM Status	Idle	
Impact Event	False	

HCP System Shutdown Command	Default	
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
Commanded Inverter A State	Inverter Disabled	
Inverter Status Feedback	Inverter Faulted	
Motor A Phase U Over Voltage Fault VH - High-Side	False	
Motor A Phase U Under Voltage Fault VH - High-Side	False	
Motor A Phase U Over Voltage Fault VL - High-Side	False	
Motor A Phase U Under Voltage Fault VL - High-Side	False	
Motor A Phase U Over Voltage Fault VDD - High-Side	False	
Motor A Phase U Under Voltage Fault VDD - High-Side	False	
Motor A Phase U Over Voltage Fault VH - Low-Side	False	
Motor A Phase U Under Voltage Fault VH - Low-Side	False	
Motor A Phase U Over Voltage Fault VL - Low-Side	False	
Motor A Phase U Under Voltage Fault VL - Low-Side	False	
Motor A Phase U Over Voltage Fault VDD - Low-Side	False	
Motor A Phase U Under Voltage Fault VDD - Low-Side	False	
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side	False	
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase V Under Voltage Fault VH - High-Side	False	
Motor A Phase V Over Voltage Fault VL - High-Side	False	
Motor A Phase V Over Voltage Fault VH - High-Side	False	
Motor A Phase V Over Voltage Fault VDD - High-SideSide	False	
Motor A Phase V Under Voltage Fault VL - High-Side	False	
Motor A Phase V Under Voltage Fault VDD - High-Side	False	
Motor A Phase V Over Voltage Fault VH - Low-Side	False	
Motor A Phase V Under Voltage Fault VH - Low-Side	False	
Motor A Phase V Over Voltage Fault VL - Low-Side	False	
Motor A Phase V Under Voltage Fault VL - Low-Side	False	
Motor A Phase V Over Voltage Fault VDD - Low-Side	False	
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side	False	
Motor A Phase V Under Voltage Fault VDD - Low-Side	False	
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase W Over Voltage Fault VH - High-Side	False	
Motor A Phase W Cross Conduction Fault - High-Side	False	
Motor A Phase W Over Voltage Fault VL - High-Side	False	
Motor A Phase W Under Voltage Fault VH - High-Side	False	
Motor A Phase W Under Voltage Fault VL - High-Side	False	
Motor A Phase W Over Voltage Fault VDD - High-Side	False	
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase W Under Voltage Fault VDD - High-Side	False	
Motor A Phase W Over Voltage Fault VH - Low-Side	False	
Motor A Phase W Under Voltage Fault VH - Low-Side	False	
Motor A Phase W Under Voltage Fault VL - Low-Side	False	

Motor A Phase W Over Voltage Fault VL - Low-Side	False	
Motor A Phase W Over Voltage Fault VDD - Low-Side	False	
Motor A Phase W Under Voltage Fault VDD - Low-Side	False	
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side	False	
Inverter A Status Feedback	Inverter Faulted	
Original Odometer Value	1776.2	miles
Ignition Cycle Counter	0	
Most Recent Odometer Value	1776.2	miles
RAM stamps keyOn	150	sec
Frequency Counter	1	
Real time clock	22750158	sec
RAM Stamps	13096	Min
Accelerator Pedal Position	0	%
Engine Speed	0	rpm
HV Battery SOC	26	%
Vehicle Speed	0.0000	MPH
Barometric Pressure	15	PSI
Actual Torque - Motor A	0.000	Ft-Lbs
Inverter A Input DC Current	0.0	AMP
Available Motor Torque - Motor A	7.006	Ft-Lbs
Engine Coolant Temperature	72	°F
Electric Motor A Speed	0.0	rpm
Motor A - Inverter Current - phase A	0	AMP
Motor A - Inverter Current - phase B	0	AMP
Motor A - Inverter Current - phase C	-4	AMP
Battery Feed Voltage 2 Sense	12.528	Volts
Motor A Resolver Supply Voltage Value	03FD	Volts
Battery Feed Voltage 3 Sense	12.312	Volts
Internal EPS Voltage Sense A	0.216	Volts
Internal EPS Voltage Sense B	0.216	Volts
PIM DC Link Voltage - A	38	Volts
Passive Pump Coolant Temp In Sensor	72	°F
PIM DC Link Voltage - B	66	Volts
Low Temp Active Pump Speed	0	rpm
High Temp Aux Pump - Actual Speed	0	rpm
Outside Air Temperature	75.2	°F
Actual Torque - Motor B	0.000	Ft-Lbs
Battery Feed Voltage 1 Sense	12.456	Volts
Available Regen Torque - Motor A	-7.006	Ft-Lbs
Available Motor Torque - Motor B	7.006	Ft-Lbs
Available Regen Torque - Motor B	-7.006	Ft-Lbs
Commanded Torque - Motor A	0.000	Ft-Lbs
Commanded Torque - Motor B	0.000	Ft-Lbs
Motor B - Inverter Current - phase A	0	AMP

Motor B - Inverter Current - phase B	0	AMP
Motor B Temp Sensor	75	°F
Motor B Resolver Angle	146	Degree
HV Battery Voltage from BPCM	180.00	Volts
Motor B - Inverter Current - phase C	0	AMP
Electric Motor B Speed	0.0	rpm
Inverter A IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase B	75	°F
Inverter B IGBT Temperature for phase A	73	°F
Inverter A IGBT Temperature for phase C	75	°F
Inverter B IGBT Temperature for phase B	73	°F
Inverter B IGBT Temperature for phase C	73	°F
HV Battery Sleep Time	0	Days
Distance Travelled with Light ON	0	miles
Motor B Torque	0.000	Ft-Lbs
Motor A Torque	0.000	Ft-Lbs
GPS Date - Year	0	Year
GPS Date - Day	1	Days
GPS Date - Month	1	
UTC Time - Hours	0	Hours
UTC Time - Minutes	0	
ECU Time - Milliseconds	0	ms
UTC Time - Seconds	0	seconds

HCP | P0652-00 | Active | Sensor Reference Voltage 2 Circuit Low-

NAME	VALUE	UNITS
DTC	06 52 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	Occurrence	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
PRND Position Display	P	
Propulsion System Active	False	
Commanded Inverter B State	Inverter Disabled	
Inverter B Status Feedback	Inverter Faulted	
Motor B Phase U Short Fault - High-Side	False	

Motor B Phase U Cross Conduction Fault - High-Side	False	
Motor B Phase U Thermal Warning Fault - High-Side	False	
Motor B Phase U Thermal Shutdown Fault - High-Side	False	
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase U SPI Error Fault - High-Side	False	
Motor B Phase U Hardware Error Fault - High-Side	False	
Motor B Phase U Short Fault - Low-Side	False	
Motor B Phase U Cross Conduction Fault - Low-Side	False	
Motor B Phase U Over Current Fault - Low-Side	False	
Motor B Phase U Thermal Warning Fault - Low-Side	False	
Motor B Phase U Thermal Shutdown Fault - Low-Side	False	
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase V Short Fault - High-Side	False	
Motor B Phase U SPI Error Fault - Low-Side	False	
Motor B Phase U Hardware Error Fault - Low-Side	False	
Motor B Phase V Cross Conduction Fault - High-Side	False	
Motor B Phase V Over Current Fault - High-Side	False	
Motor B Phase V Thermal Warning Fault - High-Side	False	
Motor B Phase V Thermal Shutdown Fault - High-Side	False	
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase V SPI Error Fault - High-Side	False	
Motor B Phase V Hardware Error Fault - High-Side	False	
Motor B Phase V Short Fault - Low-Side	False	
Motor B Phase V Over Current Fault - Low-Side	False	
Motor B Phase V Cross Conduction Fault - Low-Side	False	
Motor B Phase V Thermal Warning Fault - Low-Side	False	
Motor B Phase V Thermal Shutdown Fault - Low-Side	False	
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase V SPI Error Fault - Low-Side	False	
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase V Hardware Error Fault - Low-Side	False	
Motor B Phase W Short Fault - High-Side	False	
Motor B Phase W Over Current Fault - High-Side	False	
Motor B Phase W Cross Conduction Fault - High-Side	False	
Motor B Phase W Thermal Warning Fault - High-Side	False	
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase W SPI Error Fault - High-Side	False	
Motor B Phase W Hardware Error Fault - High-Side	False	
Motor B Phase W Short Fault - Low-Side	False	
Motor B Phase W Cross Conduction Fault - Low-Side	False	
Motor B Phase W Over Current Fault - Low-Side	False	

Motor B Phase W Thermal Shutdown Fault - Low-Side	False	
Motor B Phase W Thermal Warning Fault - Low-Side	False	
Motor B Phase W SPI Error Fault - Low-Side	False	
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase W Hardware Error Fault - Low-Side	False	
Hybrid System State	SNA	
HCP ePT Wake-Up Output	On	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
HV Contactor Status	Open	
APM Status	Idle	
Impact Event	False	
HCP System Shutdown Command	Default	
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
Motor B Phase U Over Voltage Fault VH - High-Side	False	
Motor B Phase U Over Current Fault - High-Side	False	
Motor B Phase U Under Voltage Fault VH - High-Side	False	
Motor B Phase U Over Voltage Fault VL - High-Side	False	
Motor B Phase U Under Voltage Fault VL - High-Side	False	
Motor B Phase U Under Voltage Fault VDD - High-Side	False	
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase U Over Voltage Fault VDD - High-Side	False	
Motor B Phase U Under Voltage Fault VH - Low-Side	False	
Motor B Phase U Over Voltage Fault VL - Low-Side	False	
Motor B Phase U Under Voltage Fault VL - Low-Side	False	
Motor B Phase U Over Voltage Fault VH - Low-Side	False	
Motor B Phase U Under Voltage Fault VDD - Low-Side	False	
Motor B Phase V Over Voltage Fault VH - High-Side	False	
Motor B Phase V Under Voltage Fault VH - High-Side	False	
Motor B Phase V Over Voltage Fault VL - High-Side	False	
Motor B Phase V Under Voltage Fault VL - High-Side	False	
Motor B Phase U Over Voltage Fault VDD - Low-Side	False	
Motor B Phase V Over Voltage Fault VDD - High-Side	False	
Motor B Phase V Under Voltage Fault VDD - High-Side	False	
Motor B Phase V Over Voltage Fault VH - Low-Side	False	
Motor B Phase V Under Voltage Fault VH - Low-Side	False	
Motor B Phase V Over Voltage Fault VL - Low-Side	False	
Motor B Phase V Under Voltage Fault VL - Low-Side	False	
Motor B Phase V Over Voltage Fault VDD - Low-Side	False	
Motor B Phase V Under Voltage Fault VDD - Low-Side	False	
Motor B Phase W Over Voltage Fault VL - High-Side	False	
Motor B Phase W Under Voltage Fault VH - High-Side	False	

Motor B Phase W Over Voltage Fault VH - High-Side	False	
Motor B Phase W Over Voltage Fault VDD - High-Side	False	
Motor B Phase W Under Voltage Fault VL - High-Side	False	
Motor B Phase W Under Voltage Fault VDD - High-Side	False	
Motor B Phase W Thermal Shutdown Fault - High-Side	False	
Motor B Phase W Under Voltage Fault VH - Low-Side	False	
Motor B Phase W Over Voltage Fault VH - Low-Side	False	
Motor B Phase W Under Voltage Fault VL - Low-Side	False	
Motor B Phase W Over Voltage Fault VDD - Low-Side	False	
Motor B Phase W Over Voltage Fault VL - Low-Side	False	
Motor B Phase W Under Voltage Fault VDD - Low-Side	False	
Original Odometer Value	1776.2	miles
Most Recent Odometer Value	1776.2	miles
Frequency Counter	1	
Ignition Cycle Counter	0	
Real time clock	22750158	sec
RAM stamps keyOn	150	sec
RAM Stamps	13096	Min
Accelerator Pedal Position	0	%
Engine Speed	0	rpm
HV Battery SOC	26	%
Vehicle Speed	0.0000	MPH
Barometric Pressure	15	PSI
Engine Coolant Temperature	72	°F
Actual Torque - Motor B	0.000	Ft-Lbs
Available Motor Torque - Motor B	7.467	Ft-Lbs
Electric Motor B Speed	0.0	rpm
Motor B - Inverter Current - phase A	-4	AMP
Inverter B Input DC Current	0.0	AMP
Motor B - Inverter Current - phase B	-4	AMP
Motor B - Inverter Current - phase C	-4	AMP
Motor B Resolver Supply Voltage Value	03FD	Volts
Internal EPS Voltage Sense B	0.216	Volts
Battery Feed Voltage 2 Sense	12.528	Volts
Internal EPS Voltage Sense A	0.216	Volts
Battery Feed Voltage 1 Sense	12.456	Volts
Actual Torque - Motor A	0.000	Ft-Lbs
Battery Feed Voltage 3 Sense	12.312	Volts
Available Motor Torque - Motor A	7.467	Ft-Lbs
Available Regen Torque - Motor A	-7.467	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	0	AMP

Motor A - Inverter Current - phase C	-4	AMP
Available Regen Torque - Motor B	-7.467	Ft-Lbs
Motor A Temp Sensor	79	°F
Motor A Resolver Angle	196	Degree
HV Battery Voltage from BPCM	180.00	Volts
Outside Air Temperature	75.2	°F
PIM DC Link Voltage - B	66	Volts
PIM DC Link Voltage - A	38	Volts
Electric Motor A Speed	0.0	rpm
Inverter A IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase B	75	°F
Inverter A IGBT Temperature for phase C	75	°F
Inverter B IGBT Temperature for phase A	73	°F
Inverter B IGBT Temperature for phase B	73	°F
Distance Travelled with Light ON	0	miles
Inverter B IGBT Temperature for phase C	73	°F
Motor A Torque	0.000	Ft-Lbs
Motor B Torque	0.000	Ft-Lbs
HV Battery Sleep Time	0	Days
GPS Date - Month	1	
UTC Time - Seconds	0	seconds
UTC Time - Hours	0	Hours
GPS Date - Day	1	Days
UTC Time - Minutes	0	
ECU Time - Milliseconds	0	ms
GPS Date - Year	0	Year

HCP | P06B1-00 | Active | Sensor Power Supply 1 Circuit Low-

NAME	VALUE	UNITS
DTC	06 B1 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
Pending DTC	True	
Test Not Completed Since Last Clear	False	
Test Not Completed This Operation Cycle	False	
Confirmed DTC	True	
Test Failed Since Last Clear	True	
Occurrence flag	Occurrence	
Warning Indicator Requested	True	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
PRND Position Display	P	
Ignition State	Reserved	
Propulsion System Active	False	

Motor A Resolver Offset Learn Erase	not requested	
Motor A Resolver Offset Learning Status Flag	Applied	
Motor B Resolver Offset Learning Status Flag	Applied	
Motor A Resolver to Digital Low Level Driver Faults	No fault	
Motor B Resolver to Digital Low Level Driver Faults	No fault	
Hybrid System State	SNA	
HCP ePT Wake-Up Output	On	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
HV Contactor Status	Open	
APM Status	Idle	
Impact Event	False	
HCP System Shutdown Command	Default	
J1772 Prox Detected State	Prox Out	
OBCM Operating Mode	UTC	
Motor B Resolver Offset Learn Erase	not requested	
Most Recent Odometer Value	1776.2	miles
Original Odometer Value	1776.2	miles
Ignition Cycle Counter	0	
Real time clock	22750158	sec
Frequency Counter	1	
RAM Stamps	13096	Min
RAM stamps keyOn	150	sec
HV Battery SOC	26	%
Engine Speed	0	rpm
Accelerator Pedal Position	0	%
Motor A Temp Sensor	79	°F
Vehicle Speed	0.0000	MPH
Barometric Pressure	15	PSI
Motor B Temp Sensor	75	°F
Engine Coolant Temperature	72	°F
Motor A Resolver Angle Offset	1.60	Degree
Motor B Resolver Angle Offset	2.80	Degree
Motor A Resolver Supply Voltage Value	03FD	Volts
Motor B Resolver Supply Voltage Value	03FD	Volts
Internal EPS Voltage Sense A	0.216	Volts
Battery Feed Voltage 2 Sense	12.528	Volts
Internal EPS Voltage Sense B	0.216	Volts
Available Motor Torque - Motor B	0.000	Ft-Lbs
Available Regen Torque - Motor B	0.000	Ft-Lbs
Available Motor Torque - Motor A	0.000	Ft-Lbs
Available Regen Torque - Motor A	0.000	Ft-Lbs
Commanded Torque - Motor A	0.000	Ft-Lbs
Actual Torque - Motor A	0.000	Ft-Lbs

Electric Motor A Speed	0.0	rpm
Commanded Torque - Motor B	0.000	Ft-Lbs
Actual Torque - Motor B	0.000	Ft-Lbs
Electric Motor B Speed	0.0	rpm
Battery Feed Voltage 1 Sense	12.456	Volts
Motor A - Inverter Current - phase A	-4	AMP
Motor A - Inverter Current - phase B	-4	AMP
Battery Feed Voltage 3 Sense	12.312	Volts
Motor A - Inverter Current - phase C	-4	AMP
Motor B - Inverter Current - phase B	0	AMP
Motor B - Inverter Current - phase A	-4	AMP
Motor B - Inverter Current - phase C	-4	AMP
Outside Air Temperature	75.2	°F
PIM DC Link Voltage - A	38	Volts
HV Battery Voltage from BPCM	180.00	Volts
PIM DC Link Voltage - B	66	Volts
Inverter B IGBT Temperature for phase A	73	°F
Inverter A IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase C	75	°F
Inverter A IGBT Temperature for phase B	75	°F
Inverter B IGBT Temperature for phase B	73	°F
Inverter B IGBT Temperature for phase C	73	°F
Distance Travelled with Light ON	0	miles
Motor A Torque	0.000	Ft-Lbs
Motor B Torque	0.000	Ft-Lbs
HV Battery Sleep Time	0	Days
GPS Date - Year	0	Year
GPS Date - Month	1	
UTC Time - Minutes	0	
UTC Time - Hours	0	Hours
UTC Time - Seconds	0	seconds
GPS Date - Day	1	Days
ECU Time - Milliseconds	0	ms

HCP | P06B4-00 | Active | Sensor Power Supply 2 Circuit Low-

NAME	VALUE	UNITS
DTC	06 B4 00	
Test Failed This Operation Cycle	True	
Pending DTC	True	
Test Failed	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	Occurrence	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
PRND Position Display	P	
Propulsion System Active	False	
Motor A Resolver Offset Learn Erase	not requested	
Motor A Resolver Offset Learning Status Flag	Applied	
Motor B Resolver Offset Learning Status Flag	Applied	
Motor A Resolver to Digital Low Level Driver Faults	No fault	
Motor B Resolver to Digital Low Level Driver Faults	No fault	
Hybrid System State	SNA	
HCP ePT Wake-Up Output	On	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
HV Contactor Status	Open	
APM Status	Idle	
Impact Event	False	
HCP System Shutdown Command	Default	
OBCM Operating Mode	UTC	
Motor B Resolver Offset Learn Erase	not requested	
J1772 Prox Detected State	Prox Out	
Original Odometer Value	1776.2	miles
Ignition Cycle Counter	0	
Frequency Counter	1	
Most Recent Odometer Value	1776.2	miles
Real time clock	22750158	sec
RAM stamps keyOn	150	sec
RAM Stamps	13096	Min
Accelerator Pedal Position	0	%
Engine Speed	0	rpm
Vehicle Speed	0.0000	MPH
Motor B Temp Sensor	75	°F
HV Battery SOC	26	%
Motor A Temp Sensor	79	°F
Engine Coolant Temperature	72	°F
Motor A Resolver Angle Offset	1.60	Degree
Motor B Resolver Angle Offset	2.80	Degree
Motor A Resolver Supply Voltage Value	03FD	Volts
Motor B Resolver Supply Voltage Value	03FD	Volts
Barometric Pressure	15	PSI
Internal EPS Voltage Sense A	0.216	Volts
Battery Feed Voltage 2 Sense	12.528	Volts

Actual Torque - Motor A	0.000	Ft-Lbs
Internal EPS Voltage Sense B	0.216	Volts
Available Motor Torque - Motor A	0.000	Ft-Lbs
Actual Torque - Motor B	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
Electric Motor A Speed	0.0	rpm
Electric Motor B Speed	0.0	rpm
Commanded Torque - Motor B	0.000	Ft-Lbs
Motor A - Inverter Current - phase A	0	AMP
Battery Feed Voltage 3 Sense	12.312	Volts
Battery Feed Voltage 1 Sense	12.456	Volts
Motor A - Inverter Current - phase B	0	AMP
Motor A - Inverter Current - phase C	-4	AMP
Motor B - Inverter Current - phase A	0	AMP
Motor B - Inverter Current - phase B	-4	AMP
Motor B - Inverter Current - phase C	-4	AMP
Outside Air Temperature	75.2	°F
PIM DC Link Voltage - A	38	Volts
HV Battery Voltage from BPCM	180.00	Volts
PIM DC Link Voltage - B	66	Volts
Inverter A IGBT Temperature for phase C	75	°F
Inverter A IGBT Temperature for phase B	75	°F
Inverter B IGBT Temperature for phase B	73	°F
Inverter B IGBT Temperature for phase C	73	°F
Inverter B IGBT Temperature for phase A	73	°F
Motor A Torque	0.000	Ft-Lbs
Distance Travelled with Light ON	0	miles
Inverter A IGBT Temperature for phase A	75	°F
Motor B Torque	0.000	Ft-Lbs
HV Battery Sleep Time	0	Days
GPS Date - Day	1	Days
UTC Time - Minutes	0	
UTC Time - Hours	0	Hours
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms
GPS Date - Year	0	Year
GPS Date - Month	1	

HCP | P0A78-00 | Active | Drive Motor A Inverter Performance-

NAME	VALUE	UNITS
DTC	0A 78 00	

Test Failed	True	
Test Failed This Operation Cycle	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	
Confirmed DTC	True	
Occurrence flag	Occurrence	
Pending DTC	True	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
PRND Position Display	P	
Propulsion System Active	False	
Motor A Phase U Cross Conduction Fault - High-Side	False	
Motor A Phase U Short Fault - High-Side	False	
Motor A Phase U Over Current Fault - High-Side	False	
Motor A Phase U Thermal Warning Fault - High-Side	False	
Motor A Phase U Thermal Shutdown Fault - High-Side	False	
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase U Hardware Error Fault - High-Side	True	
Motor A Phase U SPI Error Fault - High-Side	True	
Motor A Phase U Short Fault - Low-Side	False	
Motor A Phase U Cross Conduction Fault - Low-Side	False	
Motor A Phase U Over Current Fault - Low-Side	False	
Motor A Phase U Thermal Warning Fault - Low-Side	False	
Motor A Phase U Thermal Shutdown Fault - Low-Side	False	
Motor A Phase U Hardware Error Fault - Low-Side	True	
Motor A Phase U SPI Error Fault - Low-Side	True	
Motor A Phase V Short Fault - High-Side	False	
Motor A Phase V Cross Conduction Fault - High-Side	False	
Motor A Phase V Over Current Fault - High-Side	False	
Motor A Phase V Thermal Shutdown Fault - High-Side	False	
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase V Thermal Warning Fault - High-Side	False	
Motor A Phase V SPI Error Fault - High-Side	True	
Motor A Phase V Hardware Error Fault - High-Side	True	
Motor A Phase V Short Fault - Low-Side	False	
Motor A Phase V Cross Conduction Fault - Low-Side	False	
Motor A Phase V Over Current Fault - Low-Side	False	
Motor A Phase V Thermal Warning Fault - Low-Side	False	
Motor A Phase V SPI Error Fault - Low-Side	True	

Motor A Phase V Thermal Shutdown Fault - Low-Side	False	
Motor A Phase V Hardware Error Fault - Low-Side	True	
Motor A Phase W Over Current Fault - High-Side	False	
Motor A Phase W Short Fault - High-Side	False	
Motor A Phase W Thermal Shutdown Fault - High-Side	False	
Motor A Phase W Thermal Warning Fault - High-Side	False	
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase W SPI Error Fault - High-Side	True	
Motor A Phase W Short Fault - Low-Side	False	
Motor A Phase W Hardware Error Fault - High-Side	True	
Motor A Phase W Over Current Fault - Low-Side	False	
Motor A Phase W Thermal Warning Fault - Low-Side	False	
Motor A Phase W Thermal Shutdown Fault - Low-Side	False	
Motor A Phase W Cross Conduction Fault - Low-Side	False	
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase W SPI Error Fault - Low-Side	True	
Motor A Phase W Hardware Error Fault - Low-Side	True	
Hybrid System State	SNA	
HV Contactor Status	Open	
Inverter B Status Feedback	Inverter Faulted	
HCP ePT Wake-Up Output	On	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
APM Status	Idle	
HCP System Shutdown Command	Default	
Impact Event	False	
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
Commanded Inverter A State	Inverter Disabled	
Inverter Status Feedback	Inverter Faulted	
Motor A Phase U Over Voltage Fault VH - High-Side	False	
Motor A Phase U Under Voltage Fault VH - High-Side	False	
Motor A Phase U Over Voltage Fault VL - High-Side	False	
Motor A Phase U Under Voltage Fault VL - High-Side	False	
Motor A Phase U Over Voltage Fault VDD - High-Side	False	
Motor A Phase U Under Voltage Fault VDD - High-Side	False	
Motor A Phase U Over Voltage Fault VH - Low-Side	False	
Motor A Phase U Under Voltage Fault VH - Low-Side	False	
Motor A Phase U Over Voltage Fault VL - Low-Side	False	
Motor A Phase U Under Voltage Fault VL - Low-Side	False	
Motor A Phase U Over Voltage Fault VDD - Low-Side	False	
Motor A Phase U Under Voltage Fault VDD - Low-Side	False	
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side	False	
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side	False	

Motor A Phase V Over Voltage Fault VH - High-Side	False	
Motor A Phase V Over Voltage Fault VL - High-Side	False	
Motor A Phase V Under Voltage Fault VH - High-Side	False	
Motor A Phase V Under Voltage Fault VL - High-Side	False	
Motor A Phase V Over Voltage Fault VDD - High-SideSide	False	
Motor A Phase V Under Voltage Fault VDD - High-Side	False	
Motor A Phase V Over Voltage Fault VH - Low-Side	False	
Motor A Phase V Over Voltage Fault VL - Low-Side	False	
Motor A Phase V Under Voltage Fault VL - Low-Side	False	
Motor A Phase V Under Voltage Fault VH - Low-Side	False	
Motor A Phase V Over Voltage Fault VDD - Low-Side	False	
Motor A Phase V Under Voltage Fault VDD - Low-Side	False	
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side	False	
Motor A Phase W Cross Conduction Fault - High-Side	False	
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase W Over Voltage Fault VH - High-Side	False	
Motor A Phase W Over Voltage Fault VL - High-Side	False	
Motor A Phase W Under Voltage Fault VH - High-Side	False	
Motor A Phase W Under Voltage Fault VL - High-Side	False	
Motor A Phase W Over Voltage Fault VDD - High-Side	False	
Motor A Phase W Under Voltage Fault VDD - High-Side	False	
Motor A Phase W Over Voltage Fault VH - Low-Side	False	
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase W Under Voltage Fault VH - Low-Side	False	
Motor A Phase W Over Voltage Fault VL - Low-Side	False	
Motor A Phase W Under Voltage Fault VL - Low-Side	False	
Motor A Phase W Under Voltage Fault VDD - Low-Side	False	
Motor A Phase W Over Voltage Fault VDD - Low-Side	False	
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side	False	
Inverter A Status Feedback	Inverter Faulted	
Original Odometer Value	1776.2	miles
Most Recent Odometer Value	1776.2	miles
Real time clock	22750158	sec
Frequency Counter	1	
RAM stamps keyOn	150	sec
Ignition Cycle Counter	0	
RAM Stamps	13096	Min
Accelerator Pedal Position	0	%
HV Battery SOC	26	%
Engine Speed	0	rpm
Vehicle Speed	0.0000	MPH
Engine Coolant Temperature	72	°F
Barometric Pressure	15	PSI
Available Motor Torque - Motor A	0.000	Ft-Lbs

Actual Torque - Motor A	0.000	Ft-Lbs
Inverter A Input DC Current	0.0	AMP
Motor A - Inverter Current - phase B	0	AMP
Motor A - Inverter Current - phase A	-4	AMP
Electric Motor A Speed	0.0	rpm
Motor A - Inverter Current - phase C	0	AMP
Battery Feed Voltage 3 Sense	12.312	Volts
Motor A Resolver Supply Voltage Value	03FD	Volts
Battery Feed Voltage 2 Sense	12.528	Volts
Internal EPS Voltage Sense B	0.216	Volts
Internal EPS Voltage Sense A	0.216	Volts
PIM DC Link Voltage - A	38	Volts
PIM DC Link Voltage - B	66	Volts
Passive Pump Coolant Temp In Sensor	72	°F
Low Temp Active Pump Speed	0	rpm
High Temp Aux Pump - Actual Speed	0	rpm
Outside Air Temperature	75.2	°F
Actual Torque - Motor B	0.000	Ft-Lbs
Battery Feed Voltage 1 Sense	12.456	Volts
Available Regen Torque - Motor A	0.000	Ft-Lbs
Available Motor Torque - Motor B	0.000	Ft-Lbs
Available Regen Torque - Motor B	0.000	Ft-Lbs
Commanded Torque - Motor A	0.000	Ft-Lbs
Motor B - Inverter Current - phase A	0	AMP
Commanded Torque - Motor B	0.000	Ft-Lbs
Motor B - Inverter Current - phase B	0	AMP
Motor B - Inverter Current - phase C	-4	AMP
Motor B Temp Sensor	75	°F
Motor B Resolver Angle	146	Degree
Electric Motor B Speed	0.0	rpm
HV Battery Voltage from BPCM	180.00	Volts
Inverter A IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase B	75	°F
Inverter B IGBT Temperature for phase A	73	°F
Inverter A IGBT Temperature for phase C	75	°F
Inverter B IGBT Temperature for phase B	73	°F
Motor A Torque	0.000	Ft-Lbs
Inverter B IGBT Temperature for phase C	73	°F
Distance Travelled with Light ON	0	miles
Motor B Torque	0.000	Ft-Lbs
HV Battery Sleep Time	0	Days
GPS Date - Month	1	
GPS Date - Year	0	Year
GPS Date - Day	1	Days

UTC Time - Hours	0	Hours
UTC Time - Minutes	0	
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms

HCP | P0A79-00 | Active | Drive Motor B Inverter Performance-

NAME	VALUE	UNITS
DTC	0A 79 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	Occurrence	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
PRND Position Display	P	
Propulsion System Active	False	
Commanded Inverter B State	Inverter Disabled	
Inverter B Status Feedback	Inverter Faulted	
Motor B Phase U Short Fault - High-Side	False	
Motor B Phase U Cross Conduction Fault - High-Side	False	
Motor B Phase U Thermal Warning Fault - High-Side	False	
Motor B Phase U Thermal Shutdown Fault - High-Side	False	
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase U SPI Error Fault - High-Side	False	
Motor B Phase U Hardware Error Fault - High-Side	False	
Motor B Phase U Short Fault - Low-Side	False	
Motor B Phase U Cross Conduction Fault - Low-Side	False	
Motor B Phase U Over Current Fault - Low-Side	False	
Motor B Phase U Thermal Warning Fault - Low-Side	False	
Motor B Phase U Thermal Shutdown Fault - Low-Side	False	
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase U SPI Error Fault - Low-Side	False	
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase U Hardware Error Fault - Low-Side	False	
Motor B Phase V Cross Conduction Fault - High-Side	False	
Motor B Phase V Short Fault - High-Side	False	
Motor B Phase V Over Current Fault - High-Side	False	
Motor B Phase V Thermal Warning Fault - High-Side	False	

Motor B Phase V Thermal Shutdown Fault - High-Side	False	
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase V SPI Error Fault - High-Side	False	
Motor B Phase V Hardware Error Fault - High-Side	False	
Motor B Phase V Cross Conduction Fault - Low-Side	False	
Motor B Phase V Short Fault - Low-Side	False	
Motor B Phase V Thermal Warning Fault - Low-Side	False	
Motor B Phase V Thermal Shutdown Fault - Low-Side	False	
Motor B Phase V Over Current Fault - Low-Side	False	
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase V Hardware Error Fault - Low-Side	False	
Motor B Phase W Short Fault - High-Side	False	
Motor B Phase V SPI Error Fault - Low-Side	False	
Motor B Phase W Cross Conduction Fault - High-Side	False	
Motor B Phase W Over Current Fault - High-Side	False	
Motor B Phase W Thermal Warning Fault - High-Side	False	
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase W SPI Error Fault - High-Side	False	
Motor B Phase W Hardware Error Fault - High-Side	False	
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase W Short Fault - Low-Side	False	
Motor B Phase W Cross Conduction Fault - Low-Side	False	
Motor B Phase W Over Current Fault - Low-Side	False	
Motor B Phase W Thermal Warning Fault - Low-Side	False	
Motor B Phase W Thermal Shutdown Fault - Low-Side	False	
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase W SPI Error Fault - Low-Side	False	
Motor B Phase W Hardware Error Fault - Low-Side	False	
Hybrid System State	SNA	
HCP ePT Wake-Up Output	On	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
HV Contactor Status	Open	
APM Status	Idle	
Impact Event	False	
HCP System Shutdown Command	Default	
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
Motor B Phase U Over Current Fault - High-Side	False	
Motor B Phase U Over Voltage Fault VH - High-Side	False	
Motor B Phase U Under Voltage Fault VH - High-Side	False	

Motor B Phase U Over Voltage Fault VL - High-Side	False	
Motor B Phase U Over Voltage Fault VDD - High-Side	False	
Motor B Phase U Under Voltage Fault VL - High-Side	False	
Motor B Phase U Under Voltage Fault VDD - High-Side	False	
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase U Over Voltage Fault VH - Low-Side	False	
Motor B Phase U Under Voltage Fault VH - Low-Side	False	
Motor B Phase U Over Voltage Fault VL - Low-Side	False	
Motor B Phase U Under Voltage Fault VL - Low-Side	False	
Motor B Phase U Over Voltage Fault VDD - Low-Side	False	
Motor B Phase U Under Voltage Fault VDD - Low-Side	False	
Motor B Phase V Over Voltage Fault VH - High-Side	False	
Motor B Phase V Over Voltage Fault VL - High-Side	False	
Motor B Phase V Under Voltage Fault VL - High-Side	False	
Motor B Phase V Over Voltage Fault VDD - High-Side	False	
Motor B Phase V Under Voltage Fault VDD - High-Side	False	
Motor B Phase V Over Voltage Fault VH - Low-Side	False	
Motor B Phase V Under Voltage Fault VH - High-Side	False	
Motor B Phase V Under Voltage Fault VH - Low-Side	False	
Motor B Phase V Over Voltage Fault VL - Low-Side	False	
Motor B Phase V Under Voltage Fault VL - Low-Side	False	
Motor B Phase V Over Voltage Fault VDD - Low-Side	False	
Motor B Phase W Over Voltage Fault VH - High-Side	False	
Motor B Phase V Under Voltage Fault VDD - Low-Side	False	
Motor B Phase W Under Voltage Fault VH - High-Side	False	
Motor B Phase W Over Voltage Fault VDD - High-Side	False	
Motor B Phase W Under Voltage Fault VL - High-Side	False	
Motor B Phase W Over Voltage Fault VL - High-Side	False	
Motor B Phase W Under Voltage Fault VDD - High-Side	False	
Motor B Phase W Thermal Shutdown Fault - High-Side	False	
Motor B Phase W Over Voltage Fault VH - Low-Side	False	
Motor B Phase W Under Voltage Fault VH - Low-Side	False	
Motor B Phase W Over Voltage Fault VL - Low-Side	False	
Motor B Phase W Under Voltage Fault VL - Low-Side	False	
Motor B Phase W Over Voltage Fault VDD - Low-Side	False	
Motor B Phase W Under Voltage Fault VDD - Low-Side	False	
Most Recent Odometer Value	1776.2	miles
Original Odometer Value	1776.2	miles
Frequency Counter	1	
Ignition Cycle Counter	0	
Real time clock	22750158	sec
RAM stamps keyOn	150	sec
RAM Stamps	13096	Min
Accelerator Pedal Position	0	%

Engine Speed	0	rpm
HV Battery SOC	26	%
Vehicle Speed	0.0000	MPH
Barometric Pressure	15	PSI
Actual Torque - Motor B	0.000	Ft-Lbs
Available Motor Torque - Motor B	0.000	Ft-Lbs
Inverter B Input DC Current	0.0	AMP
Electric Motor B Speed	0.0	rpm
Motor B - Inverter Current - phase A	-4	AMP
Engine Coolant Temperature	72	°F
Motor B - Inverter Current - phase B	-4	AMP
Battery Feed Voltage 2 Sense	12.528	Volts
Motor B - Inverter Current - phase C	-4	AMP
Internal EPS Voltage Sense A	0.216	Volts
Internal EPS Voltage Sense B	0.216	Volts
Motor B Resolver Supply Voltage Value	03FD	Volts
Battery Feed Voltage 1 Sense	12.456	Volts
Actual Torque - Motor A	0.000	Ft-Lbs
Battery Feed Voltage 3 Sense	12.312	Volts
Available Motor Torque - Motor A	0.000	Ft-Lbs
Available Regen Torque - Motor A	0.000	Ft-Lbs
Commanded Torque - Motor A	0.000	Ft-Lbs
Available Regen Torque - Motor B	0.000	Ft-Lbs
Commanded Torque - Motor B	0.000	Ft-Lbs
Motor A - Inverter Current - phase B	-4	AMP
Motor A - Inverter Current - phase C	0	AMP
Motor A Resolver Angle	196	Degree
Motor A Temp Sensor	79	°F
Motor A - Inverter Current - phase A	-4	AMP
HV Battery Voltage from BPCM	180.00	Volts
Outside Air Temperature	75.2	°F
Electric Motor A Speed	0.0	rpm
PIM DC Link Voltage - A	38	Volts
Inverter A IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase B	75	°F
Inverter A IGBT Temperature for phase C	75	°F
PIM DC Link Voltage - B	66	Volts
Inverter B IGBT Temperature for phase B	73	°F
Inverter B IGBT Temperature for phase A	73	°F
Inverter B IGBT Temperature for phase C	73	°F
Distance Travelled with Light ON	0	miles
Motor A Torque	0.000	Ft-Lbs
Motor B Torque	0.000	Ft-Lbs
HV Battery Sleep Time	0	Days

GPS Date - Month	1	
UTC Time - Hours	0	Hours
GPS Date - Year	0	Year
GPS Date - Day	1	Days
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms
UTC Time - Minutes	0	

HCP | P1AEC-00 | Active | MCPA HV Battery Voltage Sensor Circuit Performance-

NAME	VALUE	UNITS
DTC	1A EC 00	
Test Failed	True	
Pending DTC	True	
Test Failed This Operation Cycle	True	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Test Not Completed Since Last Clear	False	
Warning Indicator Requested	False	
Occurrence flag		
Confirmed DTC	False	
Brake Switch Status		
PHEV Charging Status		
Ignition State		
Propulsion System Active		
PRND Position Display		
Motor A Phase U Short Fault - High-Side		
Motor A Phase U Cross Conduction Fault - High-Side		
Motor A Phase U Over Current Fault - High-Side		
Motor A Phase U Thermal Warning Fault - High-Side		
Motor A Phase U Thermal Shutdown Fault - High-Side		
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase U SPI Error Fault - High-Side		
Motor A Phase U Hardware Error Fault - High-Side		
Motor A Phase U Short Fault - Low-Side		
Motor A Phase U Cross Conduction Fault - Low-Side		
Motor A Phase U Thermal Warning Fault - Low-Side		
Motor A Phase U Over Current Fault - Low-Side		
Motor A Phase U Thermal Shutdown Fault - Low-Side		
Motor A Phase U SPI Error Fault - Low-Side		
Motor A Phase U Hardware Error Fault - Low-Side		
Motor A Phase V Short Fault - High-Side		
Motor A Phase V Cross Conduction Fault - High-Side		
Motor A Phase V Over Current Fault - High-Side		

Motor A Phase V Thermal Warning Fault - High-Side		
Motor A Phase V Thermal Shutdown Fault - High-Side		
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase V SPI Error Fault - High-Side		
Motor A Phase V Hardware Error Fault - High-Side		
Motor A Phase V Short Fault - Low-Side		
Motor A Phase V Cross Conduction Fault - Low-Side		
Motor A Phase V Over Current Fault - Low-Side		
Motor A Phase V Thermal Warning Fault - Low-Side		
Motor A Phase V SPI Error Fault - Low-Side		
Motor A Phase V Hardware Error Fault - Low-Side		
Motor A Phase V Thermal Shutdown Fault - Low-Side		
Motor A Phase W Short Fault - High-Side		
Motor A Phase W Over Current Fault - High-Side		
Motor A Phase W Thermal Warning Fault - High-Side		
Motor A Phase W Thermal Shutdown Fault - High-Side		
Motor A Phase W SPI Error Fault - High-Side		
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase W Cross Conduction Fault - Low-Side		
Motor A Phase W Hardware Error Fault - High-Side		
Motor A Phase W Short Fault - Low-Side		
Motor A Phase W Over Current Fault - Low-Side		
Motor A Phase W Thermal Shutdown Fault - Low-Side		
Motor A Phase W SPI Error Fault - Low-Side		
Motor A Phase W Hardware Error Fault - Low-Side		
Motor A Phase W Thermal Warning Fault - Low-Side		
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Hybrid System State		
HV Contactor Status		
Inverter B Status Feedback		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
Impact Event		
APM Status		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Commanded Inverter A State		
Inverter Status Feedback		
Motor A Phase U Over Voltage Fault VH - High-Side		
Motor A Phase U Under Voltage Fault VH - High-Side		
Motor A Phase U Over Voltage Fault VL - High-Side		

Motor A Phase U Under Voltage Fault VL - High-Side		
Motor A Phase U Over Voltage Fault VDD - High-Side		
Motor A Phase U Under Voltage Fault VDD - High-Side		
Motor A Phase U Over Voltage Fault VH - Low-Side		
Motor A Phase U Under Voltage Fault VH - Low-Side		
Motor A Phase U Over Voltage Fault VL - Low-Side		
Motor A Phase U Under Voltage Fault VL - Low-Side		
Motor A Phase U Over Voltage Fault VDD - Low-Side		
Motor A Phase U Under Voltage Fault VDD - Low-Side		
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase V Under Voltage Fault VH - High-Side		
Motor A Phase V Over Voltage Fault VH - High-Side		
Motor A Phase V Under Voltage Fault VL - High-Side		
Motor A Phase V Over Voltage Fault VDD - High-SideSide		
Motor A Phase V Under Voltage Fault VDD - High-Side		
Motor A Phase V Over Voltage Fault VL - High-Side		
Motor A Phase V Under Voltage Fault VH - Low-Side		
Motor A Phase V Over Voltage Fault VH - Low-Side		
Motor A Phase V Under Voltage Fault VL - Low-Side		
Motor A Phase V Over Voltage Fault VDD - Low-Side		
Motor A Phase V Over Voltage Fault VL - Low-Side		
Motor A Phase V Under Voltage Fault VDD - Low-Side		
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase W Cross Conduction Fault - High-Side		
Motor A Phase W Over Voltage Fault VH - High-Side		
Motor A Phase W Under Voltage Fault VH - High-Side		
Motor A Phase W Over Voltage Fault VL - High-Side		
Motor A Phase W Under Voltage Fault VL - High-Side		
Motor A Phase W Over Voltage Fault VDD - High-Side		
Motor A Phase W Under Voltage Fault VDD - High-Side		
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase W Over Voltage Fault VH - Low-Side		
Motor A Phase W Over Voltage Fault VL - Low-Side		
Motor A Phase W Under Voltage Fault VH - Low-Side		
Motor A Phase W Under Voltage Fault VL - Low-Side		
Motor A Phase W Over Voltage Fault VDD - Low-Side		
Motor A Phase W Under Voltage Fault VDD - Low-Side		
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Inverter A Status Feedback		
Most Recent Odometer Value		miles
Frequency Counter		
Original Odometer Value		miles

Real time clock		sec
Ignition Cycle Counter		
RAM Stamps		Min
HV Battery SOC		%
Engine Speed		rpm
RAM stamps keyOn		sec
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Vehicle Speed		MPH
Accelerator Pedal Position		%
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		Ft-Lbs
Electric Motor A Speed		rpm
Inverter A Input DC Current		AMP
Motor A - Inverter Current - phase B		AMP
Motor A - Inverter Current - phase A		AMP
Motor A - Inverter Current - phase C		AMP
Battery Feed Voltage 2 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Motor A Resolver Supply Voltage Value		Volts
Internal EPS Voltage Sense B		Volts
Internal EPS Voltage Sense A		Volts
PIM DC Link Voltage - B		Volts
PIM DC Link Voltage - A		Volts
Low Temp Active Pump Speed		rpm
Passive Pump Coolant Temp In Sensor		°F
High Temp Aux Pump - Actual Speed		rpm
Outside Air Temperature		°F
Battery Feed Voltage 1 Sense		Volts
Actual Torque - Motor B		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 B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Motor B Resolver Angle		Degree
Motor B Temp Sensor		°F
HV Battery Voltage from BPCM		Volts
Electric Motor B Speed		rpm
Inverter A IGBT Temperature for phase C		°F
Inverter A IGBT Temperature for phase A		°F

Inverter A IGBT Temperature for phase B		°F
Inverter B IGBT Temperature for phase B		°F
Inverter B IGBT Temperature for phase C		°F
Inverter B IGBT Temperature for phase A		°F
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
GPS Date - Year		Year
GPS Date - Month		
GPS Date - Day		Days
UTC Time - Hours		Hours
UTC Time - Seconds		seconds
UTC Time - Minutes		
ECU Time - Milliseconds		ms

HCP | P1AED-00 | Active | MCPB High Voltage Battery Voltage Sensor Circuit Performance-

NAME	VALUE	UNITS
DTC	1A ED 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
Pending DTC	True	
Test Not Completed Since Last Clear	False	
Confirmed DTC	False	
Test Failed Since Last Clear	True	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	
Occurrence flag		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
Propulsion System Active		
PRND Position Display		
Commanded Inverter B State		
Inverter B Status Feedback		
Motor B Phase U Short Fault - High-Side		
Motor B Phase U Cross Conduction Fault - High-Side		
Motor B Phase U Thermal Warning Fault - High-Side		
Motor B Phase U Thermal Shutdown Fault - High-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase U SPI Error Fault - High-Side		
Motor B Phase U Hardware Error Fault - High-Side		
Motor B Phase U Short Fault - Low-Side		
Motor B Phase U Cross Conduction Fault - Low-Side		

Motor B Phase U Over Current Fault - Low-Side		
Motor B Phase U Thermal Warning Fault - Low-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase U Thermal Shutdown Fault - Low-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase U SPI Error Fault - Low-Side		
Motor B Phase U Hardware Error Fault - Low-Side		
Motor B Phase V Short Fault - High-Side		
Motor B Phase V Cross Conduction Fault - High-Side		
Motor B Phase V Over Current Fault - High-Side		
Motor B Phase V Thermal Warning Fault - High-Side		
Motor B Phase V Thermal Shutdown Fault - High-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase V Hardware Error Fault - High-Side		
Motor B Phase V Short Fault - Low-Side		
Motor B Phase V SPI Error Fault - High-Side		
Motor B Phase V Cross Conduction Fault - Low-Side		
Motor B Phase V Over Current Fault - Low-Side		
Motor B Phase V Thermal Warning Fault - Low-Side		
Motor B Phase V Thermal Shutdown Fault - Low-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase V SPI Error Fault - Low-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase V Hardware Error Fault - Low-Side		
Motor B Phase W Short Fault - High-Side		
Motor B Phase W Cross Conduction Fault - High-Side		
Motor B Phase W Over Current Fault - High-Side		
Motor B Phase W Thermal Warning Fault - High-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase W SPI Error Fault - High-Side		
Motor B Phase W Short Fault - Low-Side		
Motor B Phase W Hardware Error Fault - High-Side		
Motor B Phase W Cross Conduction Fault - Low-Side		
Motor B Phase W Over Current Fault - Low-Side		
Motor B Phase W Thermal Warning Fault - Low-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase W Thermal Shutdown Fault - Low-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase W SPI Error Fault - Low-Side		
Motor B Phase W Hardware Error Fault - Low-Side		
Hybrid System State		
HCP ePT Wake-Up Output		

CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Motor B Phase U Over Current Fault - High-Side		
Motor B Phase U Under Voltage Fault VH - High-Side		
Motor B Phase U Under Voltage Fault VL - High-Side		
Motor B Phase U Over Voltage Fault VL - High-Side		
Motor B Phase U Over Voltage Fault VH - High-Side		
Motor B Phase U Over Voltage Fault VDD - High-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - Low-Side		
Motor B Phase U Under Voltage Fault VDD - High-Side		
Motor B Phase U Under Voltage Fault VH - Low-Side		
Motor B Phase U Under Voltage Fault VL - Low-Side		
Motor B Phase U Over Voltage Fault VL - Low-Side		
Motor B Phase U Over Voltage Fault VDD - Low-Side		
Motor B Phase V Over Voltage Fault VH - High-Side		
Motor B Phase V Under Voltage Fault VH - High-Side		
Motor B Phase V Over Voltage Fault VL - High-Side		
Motor B Phase V Under Voltage Fault VL - High-Side		
Motor B Phase V Over Voltage Fault VDD - High-Side		
Motor B Phase V Over Voltage Fault VH - Low-Side		
Motor B Phase U Under Voltage Fault VDD - Low-Side		
Motor B Phase V Under Voltage Fault VH - Low-Side		
Motor B Phase V Under Voltage Fault VDD - High-Side		
Motor B Phase V Over Voltage Fault VL - Low-Side		
Motor B Phase V Under Voltage Fault VL - Low-Side		
Motor B Phase V Over Voltage Fault VDD - Low-Side		
Motor B Phase V Under Voltage Fault VDD - Low-Side		
Motor B Phase W Over Voltage Fault VH - High-Side		
Motor B Phase W Under Voltage Fault VL - High-Side		
Motor B Phase W Over Voltage Fault VDD - High-Side		
Motor B Phase W Under Voltage Fault VDD - High-Side		
Motor B Phase W Over Voltage Fault VL - High-Side		
Motor B Phase W Thermal Shutdown Fault - High-Side		
Motor B Phase W Under Voltage Fault VH - High-Side		
Motor B Phase W Over Voltage Fault VH - Low-Side		
Motor B Phase W Under Voltage Fault VH - Low-Side		
Motor B Phase W Under Voltage Fault VL - Low-Side		

Motor B Phase W Over Voltage Fault VDD - Low-Side		
Motor B Phase W Under Voltage Fault VDD - Low-Side		
Motor B Phase W Over Voltage Fault VL - Low-Side		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Engine Speed		rpm
HV Battery SOC		%
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Available Motor Torque - Motor B		Ft-Lbs
Actual Torque - Motor B		Ft-Lbs
Electric Motor B Speed		rpm
Inverter B Input DC Current		AMP
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B Resolver Supply Voltage Value		Volts
Motor B - Inverter Current - phase C		AMP
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
Battery Feed Voltage 1 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Available Motor Torque - Motor A		Ft-Lbs
Actual Torque - Motor A		Ft-Lbs
Commanded Torque - Motor A		Ft-Lbs
Available Regen Torque - Motor A		Ft-Lbs
Commanded Torque - Motor B		Ft-Lbs
Available Regen Torque - Motor B		Ft-Lbs
Motor A - Inverter Current - phase B		AMP
Motor A - Inverter Current - phase C		AMP
Motor A Resolver Angle		Degree
Outside Air Temperature		°F
Motor A Temp Sensor		°F
Motor A - Inverter Current - phase A		AMP
HV Battery Voltage from BPCM		Volts
Electric Motor A Speed		rpm
PIM DC Link Voltage - B		Volts

PIM DC Link Voltage - A		Volts
Inverter A IGBT Temperature for phase A		°F
Inverter A IGBT Temperature for phase B		°F
Inverter B 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 C		°F
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
GPS Date - Month		
UTC Time - Minutes		
GPS Date - Year		Year
GPS Date - Day		Days
UTC Time - Hours		Hours
ECU Time - Milliseconds		ms
UTC Time - Seconds		seconds

HCP | P1AEE-00 | Active | MCPA HV Battery System Voltage High-

NAME	VALUE	UNITS
DTC	1A EE 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	Occurrence	
PHEV Charging Status	No Charging	
Brake Switch Status	Not Applied	
Ignition State	Reserved	
PRND Position Display	P	
Propulsion System Active	False	
Motor A Phase U Short Fault - High-Side	False	
Motor A Phase U Cross Conduction Fault - High-Side	False	
Motor A Phase U Over Current Fault - High-Side	False	
Motor A Phase U Thermal Warning Fault - High-Side	False	
Motor A Phase U Thermal Shutdown Fault - High-Side	False	
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase U SPI Error Fault - High-Side	True	

Motor A Phase U Hardware Error Fault - High-Side	True	
Motor A Phase U Short Fault - Low-Side	False	
Motor A Phase U Cross Conduction Fault - Low-Side	False	
Motor A Phase U Over Current Fault - Low-Side	False	
Motor A Phase U Thermal Warning Fault - Low-Side	False	
Motor A Phase U Thermal Shutdown Fault - Low-Side	False	
Motor A Phase U SPI Error Fault - Low-Side	True	
Motor A Phase U Hardware Error Fault - Low-Side	True	
Motor A Phase V Cross Conduction Fault - High-Side	False	
Motor A Phase V Short Fault - High-Side	False	
Motor A Phase V Over Current Fault - High-Side	False	
Motor A Phase V Thermal Warning Fault - High-Side	False	
Motor A Phase V Thermal Shutdown Fault - High-Side	False	
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase V SPI Error Fault - High-Side	True	
Motor A Phase V Hardware Error Fault - High-Side	True	
Motor A Phase V Short Fault - Low-Side	False	
Motor A Phase V Over Current Fault - Low-Side	False	
Motor A Phase V Cross Conduction Fault - Low-Side	False	
Motor A Phase V Thermal Warning Fault - Low-Side	False	
Motor A Phase V SPI Error Fault - Low-Side	True	
Motor A Phase V Thermal Shutdown Fault - Low-Side	False	
Motor A Phase V Hardware Error Fault - Low-Side	True	
Motor A Phase W Short Fault - High-Side	False	
Motor A Phase W Thermal Shutdown Fault - High-Side	False	
Motor A Phase W Over Current Fault - High-Side	False	
Motor A Phase W SPI Error Fault - High-Side	True	
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase W Thermal Warning Fault - High-Side	False	
Motor A Phase W Short Fault - Low-Side	False	
Motor A Phase W Hardware Error Fault - High-Side	True	
Motor A Phase W Cross Conduction Fault - Low-Side	False	
Motor A Phase W Over Current Fault - Low-Side	False	
Motor A Phase W Thermal Warning Fault - Low-Side	False	
Motor A Phase W Thermal Shutdown Fault - Low-Side	False	
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase W SPI Error Fault - Low-Side	True	
Motor A Phase W Hardware Error Fault - Low-Side	True	
Hybrid System State	SNA	
HV Contactor Status	Open	
Inverter B Status Feedback	Inverter Faulted	
HCP ePT Wake-Up Output	On	
CBC Wake-Up Input	Off	

EPT LOC Diag Enable	Enable LOC Diagnostic	
APM Status	Idle	
HCP System Shutdown Command	Default	
Impact Event	False	
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
Commanded Inverter A State	Inverter Disabled	
Motor A Phase U Over Voltage Fault VH - High-Side	False	
Inverter Status Feedback	Inverter Faulted	
Motor A Phase U Under Voltage Fault VH - High-Side	False	
Motor A Phase U Under Voltage Fault VL - High-Side	False	
Motor A Phase U Over Voltage Fault VDD - High-Side	False	
Motor A Phase U Under Voltage Fault VDD - High-Side	False	
Motor A Phase U Over Voltage Fault VL - High-Side	False	
Motor A Phase U Over Voltage Fault VH - Low-Side	False	
Motor A Phase U Under Voltage Fault VH - Low-Side	False	
Motor A Phase U Over Voltage Fault VL - Low-Side	False	
Motor A Phase U Over Voltage Fault VDD - Low-Side	False	
Motor A Phase U Under Voltage Fault VL - Low-Side	False	
Motor A Phase U Under Voltage Fault VDD - Low-Side	False	
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side	False	
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase V Over Voltage Fault VH - High-Side	False	
Motor A Phase V Over Voltage Fault VL - High-Side	False	
Motor A Phase V Under Voltage Fault VH - High-Side	False	
Motor A Phase V Under Voltage Fault VL - High-Side	False	
Motor A Phase V Over Voltage Fault VDD - High-SideSide	False	
Motor A Phase V Over Voltage Fault VH - Low-Side	False	
Motor A Phase V Under Voltage Fault VDD - High-Side	False	
Motor A Phase V Under Voltage Fault VH - Low-Side	False	
Motor A Phase V Over Voltage Fault VL - Low-Side	False	
Motor A Phase V Under Voltage Fault VL - Low-Side	False	
Motor A Phase V Over Voltage Fault VDD - Low-Side	False	
Motor A Phase V Under Voltage Fault VDD - Low-Side	False	
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side	False	
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase W Cross Conduction Fault - High-Side	False	
Motor A Phase W Over Voltage Fault VH - High-Side	False	
Motor A Phase W Over Voltage Fault VL - High-Side	False	
Motor A Phase W Under Voltage Fault VH - High-Side	False	
Motor A Phase W Under Voltage Fault VL - High-Side	False	
Motor A Phase W Over Voltage Fault VDD - High-Side	False	
Motor A Phase W Under Voltage Fault VDD - High-Side	False	
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side	False	

Motor A Phase W Over Voltage Fault VH - Low-Side	False	
Motor A Phase W Under Voltage Fault VH - Low-Side	False	
Motor A Phase W Under Voltage Fault VL - Low-Side	False	
Motor A Phase W Over Voltage Fault VL - Low-Side	False	
Motor A Phase W Over Voltage Fault VDD - Low-Side	False	
Motor A Phase W Under Voltage Fault VDD - Low-Side	False	
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side	False	
Inverter A Status Feedback	Inverter Faulted	
Most Recent Odometer Value	1776.2	miles
Original Odometer Value	1776.2	miles
RAM stamps keyOn	150	sec
Ignition Cycle Counter	0	
Frequency Counter	1	
RAM Stamps	13096	Min
Accelerator Pedal Position	0	%
HV Battery SOC	26	%
Engine Speed	0	rpm
Real time clock	22750158	sec
Barometric Pressure	15	PSI
Vehicle Speed	0.0000	MPH
Engine Coolant Temperature	72	°F
Actual Torque - Motor A	0.000	Ft-Lbs
Inverter A Input DC Current	0.0	AMP
Motor A - Inverter Current - phase B	-4	AMP
Available Motor Torque - Motor A	0.000	Ft-Lbs
Motor A - Inverter Current - phase C	0	AMP
Electric Motor A Speed	0.0	rpm
Motor A - Inverter Current - phase A	0	AMP
Battery Feed Voltage 2 Sense	12.528	Volts
Motor A Resolver Supply Voltage Value	03FD	Volts
Internal EPS Voltage Sense B	0.216	Volts
Battery Feed Voltage 3 Sense	12.312	Volts
Internal EPS Voltage Sense A	0.216	Volts
PIM DC Link Voltage - B	66	Volts
PIM DC Link Voltage - A	38	Volts
Low Temp Active Pump Speed	0	rpm
Passive Pump Coolant Temp In Sensor	72	°F
Outside Air Temperature	75.2	°F
High Temp Aux Pump - Actual Speed	0	rpm
Actual Torque - Motor B	0.000	Ft-Lbs
Battery Feed Voltage 1 Sense	12.456	Volts
Available Regen Torque - Motor A	0.000	Ft-Lbs
Available Motor Torque - Motor B	0.000	Ft-Lbs
Available Regen Torque - Motor B	0.000	Ft-Lbs

Commanded Torque - Motor A	0.000	Ft-Lbs
Motor B - Inverter Current - phase A	0	AMP
Commanded Torque - Motor B	0.000	Ft-Lbs
Motor B - Inverter Current - phase B	-4	AMP
Motor B Resolver Angle	146	Degree
Motor B - Inverter Current - phase C	-4	AMP
Electric Motor B Speed	0.0	rpm
Motor B Temp Sensor	75	°F
HV Battery Voltage from BPCM	180.00	Volts
Inverter B IGBT Temperature for phase B	73	°F
Inverter A IGBT Temperature for phase B	75	°F
Inverter B IGBT Temperature for phase A	73	°F
Inverter A IGBT Temperature for phase A	75	°F
Inverter B IGBT Temperature for phase C	73	°F
Inverter A IGBT Temperature for phase C	75	°F
Distance Travelled with Light ON	0	miles
Motor A Torque	0.000	Ft-Lbs
Motor B Torque	0.000	Ft-Lbs
HV Battery Sleep Time	0	Days
GPS Date - Year	0	Year
GPS Date - Month	1	
GPS Date - Day	1	Days
UTC Time - Hours	0	Hours
UTC Time - Minutes	0	
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms

HCP | P1AEF-00 | Active | MCPB High Voltage Battery System Voltage High-

NAME	VALUE	UNITS
DTC	1A EF 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	Occurrence	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
PRND Position Display	P	
Propulsion System Active	False	

Commanded Inverter B State	Inverter Disabled	
Inverter B Status Feedback	Inverter Faulted	
Motor B Phase U Short Fault - High-Side	False	
Motor B Phase U Cross Conduction Fault - High-Side	False	
Motor B Phase U Thermal Warning Fault - High-Side	False	
Motor B Phase U Thermal Shutdown Fault - High-Side	False	
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase U SPI Error Fault - High-Side	False	
Motor B Phase U Hardware Error Fault - High-Side	False	
Motor B Phase U Short Fault - Low-Side	False	
Motor B Phase U Cross Conduction Fault - Low-Side	False	
Motor B Phase U Over Current Fault - Low-Side	False	
Motor B Phase U Thermal Warning Fault - Low-Side	False	
Motor B Phase U Thermal Shutdown Fault - Low-Side	False	
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase U SPI Error Fault - Low-Side	False	
Motor B Phase V Short Fault - High-Side	False	
Motor B Phase U Hardware Error Fault - Low-Side	False	
Motor B Phase V Cross Conduction Fault - High-Side	False	
Motor B Phase V Over Current Fault - High-Side	False	
Motor B Phase V Thermal Shutdown Fault - High-Side	False	
Motor B Phase V Thermal Warning Fault - High-Side	False	
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase V SPI Error Fault - High-Side	False	
Motor B Phase V Hardware Error Fault - High-Side	False	
Motor B Phase V Cross Conduction Fault - Low-Side	False	
Motor B Phase V Short Fault - Low-Side	False	
Motor B Phase V Over Current Fault - Low-Side	False	
Motor B Phase V Thermal Warning Fault - Low-Side	False	
Motor B Phase V Thermal Shutdown Fault - Low-Side	False	
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase V SPI Error Fault - Low-Side	False	
Motor B Phase V Hardware Error Fault - Low-Side	False	
Motor B Phase W Short Fault - High-Side	False	
Motor B Phase W Cross Conduction Fault - High-Side	False	
Motor B Phase W Over Current Fault - High-Side	False	
Motor B Phase W Thermal Warning Fault - High-Side	False	
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase W SPI Error Fault - High-Side	False	
Motor B Phase W Hardware Error Fault - High-Side	False	

Motor B Phase W Short Fault - Low-Side	False	
Motor B Phase W Cross Conduction Fault - Low-Side	False	
Motor B Phase W Over Current Fault - Low-Side	False	
Motor B Phase W Thermal Warning Fault - Low-Side	False	
Motor B Phase W Thermal Shutdown Fault - Low-Side	False	
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase W SPI Error Fault - Low-Side	False	
Motor B Phase W Hardware Error Fault - Low-Side	False	
Hybrid System State	SNA	
HCP ePT Wake-Up Output	On	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
HV Contactor Status	Open	
APM Status	Idle	
HCP System Shutdown Command	Default	
Impact Event	False	
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
Motor B Phase U Over Current Fault - High-Side	False	
Motor B Phase U Over Voltage Fault VH - High-Side	False	
Motor B Phase U Under Voltage Fault VH - High-Side	False	
Motor B Phase U Under Voltage Fault VL - High-Side	False	
Motor B Phase U Over Voltage Fault VL - High-Side	False	
Motor B Phase U Over Voltage Fault VDD - High-Side	False	
Motor B Phase U Over Voltage Fault VH - Low-Side	False	
Motor B Phase U Under Voltage Fault VH - Low-Side	False	
Motor B Phase U Under Voltage Fault VDD - High-Side	False	
Motor B Phase U Over Voltage Fault VL - Low-Side	False	
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase U Over Voltage Fault VDD - Low-Side	False	
Motor B Phase U Under Voltage Fault VDD - Low-Side	False	
Motor B Phase U Under Voltage Fault VL - Low-Side	False	
Motor B Phase V Under Voltage Fault VH - High-Side	False	
Motor B Phase V Over Voltage Fault VL - High-Side	False	
Motor B Phase V Under Voltage Fault VL - High-Side	False	
Motor B Phase V Over Voltage Fault VDD - High-Side	False	
Motor B Phase V Under Voltage Fault VDD - High-Side	False	
Motor B Phase V Over Voltage Fault VH - Low-Side	False	
Motor B Phase V Over Voltage Fault VH - High-Side	False	
Motor B Phase V Under Voltage Fault VH - Low-Side	False	
Motor B Phase V Over Voltage Fault VL - Low-Side	False	
Motor B Phase V Over Voltage Fault VDD - Low-Side	False	
Motor B Phase V Under Voltage Fault VL - Low-Side	False	

Motor B Phase V Under Voltage Fault VDD - Low-Side	False	
Motor B Phase W Over Voltage Fault VH - High-Side	False	
Motor B Phase W Under Voltage Fault VH - High-Side	False	
Motor B Phase W Over Voltage Fault VL - High-Side	False	
Motor B Phase W Under Voltage Fault VL - High-Side	False	
Motor B Phase W Over Voltage Fault VDD - High-Side	False	
Motor B Phase W Under Voltage Fault VDD - High-Side	False	
Motor B Phase W Thermal Shutdown Fault - High-Side	False	
Motor B Phase W Over Voltage Fault VH - Low-Side	False	
Motor B Phase W Under Voltage Fault VH - Low-Side	False	
Motor B Phase W Over Voltage Fault VL - Low-Side	False	
Motor B Phase W Over Voltage Fault VDD - Low-Side	False	
Motor B Phase W Under Voltage Fault VL - Low-Side	False	
Motor B Phase W Under Voltage Fault VDD - Low-Side	False	
Original Odometer Value	1776.2	miles
Most Recent Odometer Value	1776.2	miles
Ignition Cycle Counter	0	
Real time clock	22750158	sec
RAM stamps keyOn	150	sec
RAM Stamps	13096	Min
Accelerator Pedal Position	0	%
Frequency Counter	1	
HV Battery SOC	26	%
Vehicle Speed	0.0000	MPH
Engine Speed	0	rpm
Barometric Pressure	15	PSI
Engine Coolant Temperature	72	°F
Actual Torque - Motor B	0.000	Ft-Lbs
Inverter B Input DC Current	0.0	AMP
Available Motor Torque - Motor B	0.000	Ft-Lbs
Electric Motor B Speed	0.0	rpm
Motor B - Inverter Current - phase A	0	AMP
Motor B Resolver Supply Voltage Value	03FD	Volts
Motor B - Inverter Current - phase B	0	AMP
Motor B - Inverter Current - phase C	0	AMP
Battery Feed Voltage 2 Sense	12.528	Volts
Internal EPS Voltage Sense A	0.216	Volts
Internal EPS Voltage Sense B	0.216	Volts
Actual Torque - Motor A	0.000	Ft-Lbs
Battery Feed Voltage 3 Sense	12.312	Volts
Available Motor Torque - Motor A	0.000	Ft-Lbs
Battery Feed Voltage 1 Sense	12.456	Volts
Available Regen Torque - Motor A	0.000	Ft-Lbs
Available Regen Torque - Motor B	0.000	Ft-Lbs

Commanded Torque - Motor B	0.000	Ft-Lbs
Commanded Torque - Motor A	0.000	Ft-Lbs
Motor A - Inverter Current - phase C	-4	AMP
Motor A - Inverter Current - phase A	-4	AMP
Motor A - Inverter Current - phase B	-4	AMP
Motor A Resolver Angle	196	Degree
Motor A Temp Sensor	79	°F
Outside Air Temperature	75.2	°F
Electric Motor A Speed	0.0	rpm
PIM DC Link Voltage - A	38	Volts
HV Battery Voltage from BPCM	180.00	Volts
PIM DC Link Voltage - B	66	Volts
Inverter A IGBT Temperature for phase B	75	°F
Inverter A IGBT Temperature for phase A	75	°F
Inverter B IGBT Temperature for phase A	73	°F
Inverter B IGBT Temperature for phase B	73	°F
Inverter A IGBT Temperature for phase C	75	°F
Inverter B IGBT Temperature for phase C	73	°F
Distance Travelled with Light ON	0	miles
Motor A Torque	0.000	Ft-Lbs
Motor B Torque	0.000	Ft-Lbs
HV Battery Sleep Time	0	Days
GPS Date - Year	0	Year
GPS Date - Month	1	
UTC Time - Hours	0	Hours
GPS Date - Day	1	Days
UTC Time - Minutes	0	
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms

HCP | U0623-00 | Active | Lost Communication with Coolant Pump "A"-

NAME	VALUE	UNITS
DTC	C6 23 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
Pending DTC	True	
Test Not Completed This Operation Cycle	False	
Confirmed DTC	False	
Test Not Completed Since Last Clear	False	
Occurrence flag		
Warning Indicator Requested	False	
Test Failed Since Last Clear	True	
PHEV Charging Status		
Brake Switch Status		

Ignition State		
PRND Position Display		
Propulsion System Active		
Thermal System Enable State		
High Temperature Shut-Off Valve Status		
Front Refrigerant Shut-Off Valve Status		
Chiller Shut-Off Valve Status		
Hybrid System State		
CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
J1772 Prox Detected State		
OBCM Operating Mode		
Original Odometer Value		miles
Frequency Counter		
Most Recent Odometer Value		miles
Ignition Cycle Counter		
Accelerator Pedal Position		%
Real time clock		sec
Engine Speed		rpm
RAM Stamps		Min
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
RAM stamps keyOn		sec
HV Battery SOC		%
Passive Pump Coolant Temp In Sensor		°F
A/C Refrigerant Pressure		PSI
Heater Core Coolant Temp Sensor		°F
Electric Coolant Heater Temp Sensor		°F
Motor A Temp Sensor		°F
Outside Air Temperature		°F
EAC Compressor Speed		rpm
Low Temp Passive Pump - Temperature		°F
Low Temp Active Pump - Temperature		°F
High Temp Cabin Valve Feedback		degrees
Radiator Fan Duty Cycle		%
Battery Feed Voltage 2 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
HV Coolant Heater - Measured Coolant Inlet Temp		°F
Internal EPS Voltage Sense B		Volts

Internal EPS Voltage Sense A		Volts
HV Coolant Heater - Measured Coolant Outlet Temp		°F
Motor B Temp Sensor		°F
Available Regen Torque - Motor B		Ft-Lbs
Available Motor Torque - Motor A		Ft-Lbs
Available Regen Torque - Motor A		Ft-Lbs
Battery Feed Voltage 1 Sense		Volts
Available Motor Torque - Motor B		Ft-Lbs
Motor A - Inverter Current - phase B		AMP
Motor A - Inverter Current - phase A		AMP
Actual Torque - Motor B		Ft-Lbs
Motor B - Inverter Current - phase B		AMP
Commanded Torque - Motor A		Ft-Lbs
Commanded Torque - Motor B		Ft-Lbs
Motor B - Inverter Current - phase A		AMP
Motor B Resolver Angle		Degree
HV Battery Voltage from BPCM		Volts
Electric Motor A Speed		rpm
Motor A - Inverter Current - phase C		AMP
PIM DC Link Voltage - A		Volts
Electric Motor B Speed		rpm
Inverter B IGBT Temperature for phase A		°F
Motor B - Inverter Current - phase C		AMP
Inverter A IGBT Temperature for phase B		°F
Motor A Resolver Angle		Degree
Inverter A IGBT Temperature for phase A		°F
Distance Travelled with Light ON		miles
Inverter B IGBT Temperature for phase C		°F
Inverter B IGBT Temperature for phase B		°F
PIM DC Link Voltage - B		Volts
Inverter A IGBT Temperature for phase C		°F
Motor B Torque		Ft-Lbs
GPS Date - Day		Days
HV Battery Sleep Time		Days
Motor A Torque		Ft-Lbs
GPS Date - Year		Year
UTC Time - Seconds		seconds
GPS Date - Month		
ECU Time - Milliseconds		ms
UTC Time - Minutes		
UTC Time - Hours		Hours

ABSO | C2222-00 | Active | Improper Powerdown-

NAME	VALUE	UNITS

Test Failed	True	
Test Not Completed Since Last Clear	False	
Confirmed DTC	False	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Test Not Completed This Operation Cycle	True	
Occurrence flag		
Test Failed Since Last Clear	False	
Warning Indicator Requested	True	
Undervoltage Suspected		
Mirror Memory		
Current System Mode		
DTC	62 22 00	
Previous System Mode		
Controller Event		
Brake Pedal Status		
Rotation Direction Left Front		
Rotation Direction Right Front		
Rotation Direction Left Rear		
Rotation Direction Right Rear		
System Condition		
ASR control		
ABS control		
MSR control		
EBV control		
ESP Control		
HSA control		
Braking assistance system		
Hold		
Plant Mode		
BLS High		
Park Brake		
HBA control		
ESP-OFF mode		
Stop Coordinator Active		
EPB Mode Status		
BLS Low		
Actual Gear		
Status Parking Brake Right		
Clutch		
Status Parking Brake Left		
Transmission selector lever setting		
EPB Switch Status		
Original Odometer Value		miles

Most Recent Odometer Value		miles
Frequency Counter		
Fault Time		S
Supply voltage Pump		V
Ignition Cycle Counter		
Supply Voltage Valves		V
Ignition Unfiltered		V
Wheel Speed Right Front		MPH
Wheel Speed Left Rear		MPH
Steering Wheel Angle		°
Wheel Speed Left Front		MPH
Primary Circuit Pressure		PSI
Brake Pedal Travel Sensor Position		%
Lateral Acceleration		m/s^2
Yaw Rate		°/s
Supplier Internal Code		
Accelerator Pedal Position		%
Engine Speed		rpm
Longitudinal Acceleration		m/s^2
Wheel Speed Right Rear		MPH

SNAPSHOT DATA SUMMARY

No Snapshot Data available for C2225-00

No Snapshot Data available for U0002-00

No Snapshot Data available for P0AA4-00

No Snapshot Data available for P0642-00

No Snapshot Data available for P0652-00

No Snapshot Data available for P06B1-00

No Snapshot Data available for P06B4-00

No Snapshot Data available for P0A78-00

No Snapshot Data available for P0A79-00

No Snapshot Data available for P1AEC-00

No Snapshot Data available for P1AED-00

No Snapshot Data available for P1AEE-00

No Snapshot Data available for P1AEF-00

No Snapshot Data available for U0623-00

No Snapshot Data available for C2222-00

VEHICLE SCAN REPORT

Vehicle 2020 CHRYSLER PACIFICA (PHEV) 3.6L V6 HYBRID ENGINE
VIN [redacted]

Odometer 1776.2 miles
Publication Date Jul 12, 2021, 1:36:11 PM

ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	[redacted]	[redacted]	PART #
PCM	Powertrain Control Module	CAN-C	68444228AE			68444228AE
ICS	Integrated Center Stack	CAN-I	6UX621X8AA			6UX621X8AA
RFH	Radio Frequency Hub	CAN-C	68453559AB			68453559AB
ESM	Electronic Shifter	CAN-C	68240089AM			68240089AM
ORC	Occupant Restraint	CAN-C	68453076AD			68453076AD
EPS	Electric Power Steering	CAN-C	68460392AA			68460392AA
HVAC	Heat, Ventilation and A/C	CAN-I	68447893AC			68447893AC
DDM	Driver Door Module	CAN-I	68424449AC			68424449AC
PDM	Passenger Door Module	CAN-I	68424448AC			68424448AC
DMRL	Door Module Rear Left	CAN-I	68225096AG			68225096AG
DMRR	Door Module Rear Right	CAN-I	68225096AG			68225096AG
PSDML	Power Sliding Doors (Left)	CAN-I	68369596AD			68369596AD
PSDMR	Power Sliding Doors (Right)	CAN-I	68369596AD			68369596AD
MSM	Memory Seat Module	CAN-I	68321862AC			68321862AC
PLGM	Power Liftgate	CAN-I	68316094AF			68316094AF
CSWM	Comfort Seat Wheel Module	CAN-I	68434912AC			68434912AC
AMP	Amplifier	CAN-I	68448067AA			68448067AA
IPC	Instrument Panel Cluster	CAN-C	68434956AC			68434956AC
PTS	Parktronics	CAN-C	68193775AJ			68193775AJ
SCCM	Steering Column Control Module	CAN-C	68360889AD			68360889AD
BCM	Body Controller	CAN-C	68424601AE			68424601AE

ACC	Adaptive Cruise Control	CAN-C	68417813AF	[redacted]	[redacted]		68417813AF
RADIO	Radio	CAN-I	68461768AD				68461768AD
OCM	Occupant Classification	CAN-C	68403127AA				68403127AA
HVACR	Heat, Ventilation and A/C Rear	CAN-I	68373079AB				68373079AB
LBSS	Left Blind Spot Sensor	CAN-I	04672786AB				04672786AB
RBSS	Right Blind Spot Sensor	CAN-I	04672786AB				04672786AB
FFCM	Forward Facing Camera Module	CAN-C	68493395AA				68493395AA
EDM	External Disc Module	CAN-I	68378304AA				68378304AA
APM	Accessory Power Module	CAN-C	05185046AB				05185046AB
BPCM	Battery Pack Control Module	CAN-C	05193166AD				05193166AD
HCP	Hybrid Control Processor	CAN-C	05190265AF				05190265AF
OBCM	On Board Charging Module	CAN-C	05185047AE				05185047AE
MSMP	Memory Seat Module - Passenger	CAN-I	68321862AC				68321862AC
DSM	Display Screen Module	CAN-I	68316174AC				68316174AC
VRM	Video Routing Module	CAN-I	68376134AG				68376134AG
RCCC	Rear Cabin Comfort Controls	CAN-I	6WL30PD2AA				6WL30PD2AA
CVPM	Central vision processing module	CAN-I	68375113AB				68375113AB
EAC	Electric A/C Compressor	CAN-C	68237995AG				68237995AG
AHCP	Auxiliary Hybrid Control Processor	CAN-C	05190266AF				05190266AF
EBBM	Electronic Brake Booster Module	CAN-C	68461813AB				68461813AB
ABSO	Anti Lock Brakes OBD	CAN-C	68471122AD				68471122AD
SGW	Security Gateway Module	CAN-C	68447193AB				68447193AB

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	CVNS
PCM	USA	1B 47	46 03 01	4419	31D751B0
ICS	USA	0F 0C 00	12 25 00	4700	
RFH	USA / USA	10 17 00	13 09 00	4A00	
ESM	USA / USA	0F 24 00	12 28 FF	4402	
ORC	USA / USA	12 1A 00	13 2E 00	4301	
EPS	USA / USA	12 2A 00	12 1E 01	4502	

HVAC	USA	0E 09 00	13 05 01	4401	
DDM	USA	11 07 00	13 0B 00	4202	
PDM	USA	11 07 00	13 0B 00	4202	
DMRL	USA / USA	10 0B 00	12 0C 00	4201	
DMRR	USA / USA	10 0B 00	12 0C 00	4201	
PSDML	USA / USA	10 17 00	14 10 12	4001	
PSDMR	USA / USA	10 17 00	14 10 12	4001	
MSM	USA	0F 2B 00	10 27 03	4101	
PLGM	USA	17 19 00	18 22 00	4202	
CSWM	USA	11 2A 00	13 2C 00	4302	
AMP	USA	0F 06 01	12 2E 01	4021	
IPC	USA / USA	12 06 00	13 27 00	4704	
PTS	USA	0E 32 00	12 1F 00	4311	
SCCM	USA	13 28 00	13 29 00	4301	
BCM	USA	0D 11 00	13 2C 90	4415	
ACC	USA / USA	14 12 01	14 1D 01	4400	
RADIO	USA	13 31 14	13 31 14	8205	
OCM	USA / USA	11 1F 01	0E 2F 02	4030	
HVACR	USA	0E 09 00	10 03 02	4301	
LBSS	USA / USA	11 30 02	12 0D 00	4202	
RBSS	USA / USA	11 30 02	12 0D 00	4202	
FFCM	USA / USA	11 06 00	13 1E 00	4102	
EDM	USA	12 0A 00	11 08 00	4000	
APM	USA / USA	11 32 00	11 32 00	4001	
BPCM	Not programmed / COUNTRY_SNA	0E 03 00	13 18 03	4005	F5BC8401
HCP	USA	11 1F 04	19 48 01	4005	6AE19B37 847169A3 050DC953
OBCM	USA	0F 0D 00	12 02 00	4002	
MSMP	USA	0F 2B 00	10 27 03	4001	
DSM	USA / USA	13 29 00	12 23 00	4000	
VRM	USA / USA	0F 1C 00	13 26 11	4001	
RCCC	USA	0F 1D 00	13 04 00	4000	
CVPM	USA / USA	11 32 01	12 33 00	4003	
EAC	USA	0E 34 00	12 0F 00	4102	
AHCP	USA	11 1F 04	19 48 01	4000	
EBBM	USA	0E 19 02	14 0D 18	4000	E5898FA5
ABSO	USA	0E 15 02	14 1B 26	4201	4F158D1B
SGW		5	779	4103	

DTC SUMMARY

ECU	DTC CODE	DTC DESCRIPTION	STATUS
PCM	P0113	Intake Air Temperature Sensor 1 Circuit High	Active
ACC	C2225-00	PCM Disabled ECU-	Active
RADIO	U0002-00	CAN C Bus Off Performance-	Stored

BPCM	P0AA4-00	Hybrid/EV Battery Negative Contactor "A" Stuck Closed-	Active
HCP	P0642-00	Sensor Reference Voltage 1 Circuit Low-	Active
HCP	P0652-00	Sensor Reference Voltage 2 Circuit Low-	Active
HCP	P06B1-00	Sensor Power Supply 1 Circuit Low-	Active
HCP	P06B4-00	Sensor Power Supply 2 Circuit Low-	Active
HCP	P0A78-00	Drive Motor A Inverter Performance-	Active
HCP	P0A79-00	Drive Motor B Inverter Performance-	Active
HCP	P1AEC-00	MCPA HV Battery Voltage Sensor Circuit Performance-	Active
HCP	P1AED-00	MCPB High Voltage Battery Voltage Sensor Circuit Performance-	Active
HCP	P1AEE-00	MCPA HV Battery System Voltage High-	Active
HCP	P1AEF-00	MCPB High Voltage Battery System Voltage High-	Active
HCP	P1AFC-00	MCPA Lost Communication With HCP-	Active
HCP	P1AFD-00	MCPA Lost Communication With MCPB-	Active
HCP	U0623-00	Lost Communication with Coolant Pump "A"-	Active

ENVIRONMENTAL DATA SUMMARY

PCM | P0113 | Active | Intake Air Temperature Sensor 1 Circuit High

NAME	VALUE	UNITS
DTC Storage State	Active	
DTC Readiness Flag	Not Complete	
Warning Indicator Request State	On	
DTC	01 13	
Odometer	1773.6	miles
Number of DTC	1	
Key Cycles Since DTC Last Set Counter	0	
Ignition Key Cycles	0	
Accumulation Timer	1	minutes
Warm Up Cycles	0	
Good Trip Counter	0	
Starts Since Set Counter	0	

ACC | C2225-00 | Active | PCM Disabled ECU-

NAME	VALUE	UNITS
Confirmed DTC	False	
Test Failed	True	
Test Failed This Operation Cycle	True	
Pending 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	True	
Occurrence flag		
PRNDL Status		

Frequency Counter		
Engine Torque Request		Ft-Lbs
Most Recent Odometer Value		miles
Original Odometer Value		miles
Operation Cycle Counter		
Vehicle Speed		MPH
Object of Interest Distance		FEET
Engine RPM		rpm
ACC Set Speed		MPH
Ignition Voltage		
System Voltage		Volts

RADIO | U0002-00 | Stored | CAN C Bus Off Performance-

NAME	VALUE	UNITS
Warning Indicator Requested	False	
Test Not Completed This Monitoring Cycle	False	
DTCTable	C0 02 00	
Confirmed DTC	True	
Pending DTC	False	
DTCExtendedDataRecordNumber	FF	
Reserved	Reserved	
TestFailed	False	
Occurance Flag	Occurrence	
TestFailedThisMonitoringCycle	False	
RDI $6080	60 80	
Event Counter	62	
Original Odometer Value	1770	miles
Most Recent Odometer Value	1770	miles
Ignition Counter	2	
Frequency Counter	1	

BPCM | P0AA4-00 | Active | Hybrid/EV Battery Negative Contactor "A" Stuck Closed-

NAME	VALUE	UNITS
Qualified Contactor Command - QCC	Open	
Contactor Status	Open	
HCP Contactor Command	Open	
Verified Contactor Command - VCC	Open	
ChargingLevel	Plug in, but no charge	
Balance Mode	False	
Battery in Periodic wake up (Just battery) at time of Fault	False	
Battery in Periodic wake up (Wake up vehicle) at time of Fault	False	
Plug in Status	Not plugged in	
EPT -WakeUp	Sourced	
Key in Ignition	Key_Def	

HVIL Status -Vehicle	PASS	
HVIL Status - Battery pack	PASS	
Key Position	Ign_ Run	
Pump - Overcurrent	PASS	
Pump - Wire Open\Short to Gnd	PASS	
Pump - Dry Run Detection	PASS	
Pump - Overtemperature	PASS	
Pump - Switch Power Shorted	PASS	
Fault trigger level 2	False	
Fault trigger level 1	False	
Fault Path	01	
Fault trigger level 3	False	
Key - DriveRdy (CAN)	True	
Battery Cell Lowest Cell number	14	
Battery Cell Highest Cell number	63	
Battery Temperature Number of Failing Sensors	00	
HV Cooling Pump Relay Drive	Not Sourced	
Battery Temperature Highest Sensor number	03	
Isolation Vehicle Diagnostic Status	Run and Passed	
Pump - Battery Coolant Level Low	False	
Battery Temperature Lowest Sensor number	06	
Isolation Battery Diagnostic Status	Run and Passed	
BPCM Sec Asic Reset Req	Not active	
BPCM Sec Asic Fault Input	Active	
BPCM Sec CC Path Test Active	Not active	
BPCM L2 General Monitoring Flt Rsn	L2L1_CELL_MAX_V_CMP_FLT	
BPCM L2 CC Path Test Req	Undetermined	
BPCM Sec HW Timer Status	Not active	
BPCM L2 ASIC Diagnostic Flt Rsn	ADCTest	
BPCM Sec Contactor State	Open	
BPCM L2 Contactor Dslb Req	Undetermined	
BPCM Main HW Timer Status	Not active	
BPCM Sec Asic Fault State	Undefined	
DTC	0A A4 00	
Real Time Clock Validity	True	
Pending DTC	True	
Test Failed This Operation Cycle	True	
Test Failed	True	
Test Not Completed Since Last Clear	False	
Test Not Completed This Operation Cycle	False	
DTC Extended Data Record Number - All	01	
Warning Indicator Requested	False	
Test Failed Since Last Clear	True	
DTC Extended Data Record Number - 2	0E	

Occurrence flag	ERROR	
Confirmed DTC	True	
FoM - for this DTC (lifetime longest fail on pass)	0.000	seconds
Ignition Cycle Counter	0	
Frequency Counter	1	
FoM - for this DTC (lifetime fails counts on pass)	0.0000	seconds
Battery Lifetime AmpHrs of Charge	1455.0	AHr
Power Up SOC at time of Fault	25.9	%
Battery Total Time Awake	22759438	seconds
Vehicle mileage at time of fault (ODO signal in $3D2)	1776.19	miles
Vehicle Speed	0.0	MPH
FoM - for this DTC (lifetime fails)	8	events
Battery Lifetime Miles	59606A	miles
HVIL Source Voltage- Battery	1.392	Volts
Battery Lifetime AmpHrs of DisCharge	1454.5	AHr
HVIL PWM Duty Cycle - Vehicle	50.2	%
HVIL PWM peak voltage Sourced - Vehicle	11.113	Volts
SOC at time of Fault	25.9	%
HVIL PWM peak voltage Sensed - Vehicle	11.072	Volts
HV Battery Current Sensor 2 Hall Low	0.05	Amps
HV Battery Current Sensor 1 Hall High	-0.60	Amps
HVIL Returned current - Battery	30.60	mA
System (12) Volts at time of fault	12.407	Volts
BPCM temperature min	75	°F
BPCM temperature max	75	°F
HVIL PWM Frequency - Vehicle	87.9	Hz
HV Battery Current HVBatCrnt	0.00	Amps
HV Cooling Speed pump 1 Speed	0	rpm
Isolation Circuitry Va	2.498	Volts
HV Cooling Speed Pump 1 Target	0	rpm
Charge indicator Temp	81	°F
Isolation Circuitry Vb	2.501	Volts
WC and Circuitry Vcc Voltage	5.007	Volts
Cycles left to self heal	40	No Unit
Isolation Circuitry Vd	0.000	Volts
WC and Circuitry 2.5V Reference Voltage	2.501	Volts
HV Battery Charge Power 2sec	92007	watts
WC and CircuitryISO 8V Reference Voltage	7.929	Volts
HV Battery Discharge Power 10sec	88230	watts
WC and Circuitry Weld Contactor Sensor G (Pack Negative) Voltage	0.2	Volts
HV Battery Power	007530	watts
Battery Full AmpHr Capacity	50	AmpHrs
HV Battery Charge Power 10sec	90417	watts
HV Battery Discharge Power 2sec	91233	watts

HV Sensor B Bus\Link (Pre-Fuse) Voltage	1.20	Volts
HV Battery Voltage (cell sum)	343.00	Volts
Battery Lifetime Number Of Closes	514	
Cell Impedance Max Discharge	0	mOhms
Battery Cell Voltage Maximum	3575	mV
HV Sensor G Weld Contactor(Pack Negative) Voltage	0.2	Volts
Cell Impedance Mim Discharge	0	mOhms
Battery Temperature Average Module	75	°F
HV Battery Voltage (Module Sum)	343.00	Volts
Battery Cell Voltage Minimum	3565	mV
Battery Cell Voltage Average	3573	mV
Battery Temperature Maximum Module	75	°F
HV Sensor D Heater (HVHTR Fuse) Voltage	0.70	Volts
HV Cooling Battery coolant outlet temp	75	°F
Battery Temperature Minimum Module	75	°F
HV Cooling OBCM temp inlet Temp	75	°F
BPCM Sec QA Error Counter	3	cnts
Isolation Vehicle Impedance	7.5602	Mega Ohms
Isolation Battery Impedance	0.8480	Mega Ohms
HV Bat SOH-C	96.1	%
HV Cooling Battery coolant inlet temp	75	°F
HV Sensor A Pack Voltage	343.20	Volts
HV Bat SOH-R	98.8	%
HV Sensor C OBCM (HVOBC Fuse) Voltage	0.70	Volts
Engine Speed	0	rpm
BPCM Sec MM Hw Reset Error Counter	0	cnts
BPCM L2 SM Hw Reset Error Counter	0	No Unit
Accelerator position	7.8	%
Most Recent Odometer Value	1770	miles
Real time clock	429496.7295	seconds
Original Odometer Value	1770	miles
Real time clock-OS Task Delay Timer	0	

HCP | P0642-00 | Active | Sensor Reference Voltage 1 Circuit Low-

NAME	VALUE	UNITS
Test Failed	True	
DTC	06 42 00	
Test Failed This Operation Cycle	True	
Pending DTC	True	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	True	
Test Failed Since Last Clear	True	

Occurrence flag	Occurrence	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
Propulsion System Active	False	
PRND Position Display	P	
Motor A Phase U Short Fault - High-Side	False	
Motor A Phase U Cross Conduction Fault - High-Side	False	
Motor A Phase U Thermal Warning Fault - High-Side	False	
Motor A Phase U Over Current Fault - High-Side	False	
Motor A Phase U Thermal Shutdown Fault - High-Side	False	
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase U SPI Error Fault - High-Side	True	
Motor A Phase U Hardware Error Fault - High-Side	True	
Motor A Phase U Cross Conduction Fault - Low-Side	False	
Motor A Phase U Over Current Fault - Low-Side	False	
Motor A Phase U Short Fault - Low-Side	False	
Motor A Phase U SPI Error Fault - Low-Side	True	
Motor A Phase U Thermal Warning Fault - Low-Side	False	
Motor A Phase U Thermal Shutdown Fault - Low-Side	False	
Motor A Phase U Hardware Error Fault - Low-Side	True	
Motor A Phase V Short Fault - High-Side	False	
Motor A Phase V Cross Conduction Fault - High-Side	False	
Motor A Phase V Thermal Warning Fault - High-Side	False	
Motor A Phase V Over Current Fault - High-Side	False	
Motor A Phase V Thermal Shutdown Fault - High-Side	False	
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase V SPI Error Fault - High-Side	True	
Motor A Phase V Hardware Error Fault - High-Side	True	
Motor A Phase V Short Fault - Low-Side	False	
Motor A Phase V Cross Conduction Fault - Low-Side	False	
Motor A Phase V Over Current Fault - Low-Side	False	
Motor A Phase V Thermal Warning Fault - Low-Side	False	
Motor A Phase V Thermal Shutdown Fault - Low-Side	False	
Motor A Phase V Hardware Error Fault - Low-Side	True	
Motor A Phase W Short Fault - High-Side	False	
Motor A Phase W Over Current Fault - High-Side	False	
Motor A Phase V SPI Error Fault - Low-Side	True	
Motor A Phase W Thermal Warning Fault - High-Side	False	
Motor A Phase W Thermal Shutdown Fault - High-Side	False	
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase W SPI Error Fault - High-Side	True	

Motor A Phase W Hardware Error Fault - High-Side	True	
Motor A Phase W Short Fault - Low-Side	False	
Motor A Phase W Cross Conduction Fault - Low-Side	False	
Motor A Phase W Over Current Fault - Low-Side	False	
Motor A Phase W Thermal Warning Fault - Low-Side	False	
Motor A Phase W Thermal Shutdown Fault - Low-Side	False	
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase W SPI Error Fault - Low-Side	True	
Motor A Phase W Hardware Error Fault - Low-Side	True	
Hybrid System State	SNA	
Inverter B Status Feedback	Inverter Faulted	
HV Contactor Status	Open	
HCP ePT Wake-Up Output	On	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
APM Status	Idle	
Impact Event	False	
HCP System Shutdown Command	Default	
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
Commanded Inverter A State	Inverter Disabled	
Motor A Phase U Over Voltage Fault VH - High-Side	False	
Inverter Status Feedback	Inverter Faulted	
Motor A Phase U Under Voltage Fault VH - High-Side	False	
Motor A Phase U Over Voltage Fault VL - High-Side	False	
Motor A Phase U Under Voltage Fault VL - High-Side	False	
Motor A Phase U Over Voltage Fault VDD - High-Side	False	
Motor A Phase U Under Voltage Fault VDD - High-Side	False	
Motor A Phase U Over Voltage Fault VH - Low-Side	False	
Motor A Phase U Under Voltage Fault VH - Low-Side	False	
Motor A Phase U Over Voltage Fault VL - Low-Side	False	
Motor A Phase U Under Voltage Fault VL - Low-Side	False	
Motor A Phase U Over Voltage Fault VDD - Low-Side	False	
Motor A Phase U Under Voltage Fault VDD - Low-Side	False	
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side	False	
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase V Over Voltage Fault VH - High-Side	False	
Motor A Phase V Under Voltage Fault VH - High-Side	False	
Motor A Phase V Over Voltage Fault VL - High-Side	False	
Motor A Phase V Under Voltage Fault VL - High-Side	False	
Motor A Phase V Over Voltage Fault VDD - High-SideSide	False	
Motor A Phase V Under Voltage Fault VDD - High-Side	False	
Motor A Phase V Over Voltage Fault VH - Low-Side	False	
Motor A Phase V Under Voltage Fault VH - Low-Side	False	

Motor A Phase V Over Voltage Fault VL - Low-Side	False	
Motor A Phase V Under Voltage Fault VL - Low-Side	False	
Motor A Phase V Over Voltage Fault VDD - Low-Side	False	
Motor A Phase V Under Voltage Fault VDD - Low-Side	False	
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side	False	
Motor A Phase W Cross Conduction Fault - High-Side	False	
Motor A Phase W Over Voltage Fault VH - High-Side	False	
Motor A Phase W Under Voltage Fault VH - High-Side	False	
Motor A Phase W Over Voltage Fault VL - High-Side	False	
Motor A Phase W Under Voltage Fault VL - High-Side	False	
Motor A Phase W Over Voltage Fault VDD - High-Side	False	
Motor A Phase W Under Voltage Fault VDD - High-Side	False	
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase W Over Voltage Fault VH - Low-Side	False	
Motor A Phase W Under Voltage Fault VH - Low-Side	False	
Motor A Phase W Over Voltage Fault VL - Low-Side	False	
Motor A Phase W Under Voltage Fault VL - Low-Side	False	
Motor A Phase W Over Voltage Fault VDD - Low-Side	False	
Motor A Phase W Under Voltage Fault VDD - Low-Side	False	
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side	False	
Inverter A Status Feedback	Inverter Faulted	
Original Odometer Value	1776.2	miles
Ignition Cycle Counter	0	
Real time clock	22759332	sec
Frequency Counter	1	
Most Recent Odometer Value	1776.2	miles
RAM stamps keyOn	120	sec
Accelerator Pedal Position	0	%
RAM Stamps	13120	Min
Engine Speed	0	rpm
HV Battery SOC	26	%
Vehicle Speed	0.0000	MPH
Available Motor Torque - Motor A	7.190	Ft-Lbs
Actual Torque - Motor A	0.000	Ft-Lbs
Engine Coolant Temperature	73	°F
Barometric Pressure	15	PSI
Motor A - Inverter Current - phase A	0	AMP
Inverter A Input DC Current	0.0	AMP
Electric Motor A Speed	0.0	rpm
Motor A - Inverter Current - phase C	0	AMP
Motor A - Inverter Current - phase B	0	AMP
Motor A Resolver Supply Voltage Value	03FD	Volts
Battery Feed Voltage 2 Sense	12.312	Volts

Internal EPS Voltage Sense A	0.216	Volts
Internal EPS Voltage Sense B	0.216	Volts
Battery Feed Voltage 3 Sense	12.096	Volts
PIM DC Link Voltage - A	37	Volts
PIM DC Link Voltage - B	56	Volts
Passive Pump Coolant Temp In Sensor	75	°F
Low Temp Active Pump Speed	0	rpm
Outside Air Temperature	77.0	°F
High Temp Aux Pump - Actual Speed	0	rpm
Battery Feed Voltage 1 Sense	12.240	Volts
Actual Torque - Motor B	0.000	Ft-Lbs
Available Regen Torque - Motor B	-7.190	Ft-Lbs
Available Motor Torque - Motor B	7.190	Ft-Lbs
Available Regen Torque - Motor A	-7.190	Ft-Lbs
Commanded Torque - Motor B	0.000	Ft-Lbs
Commanded Torque - Motor A	0.000	Ft-Lbs
Motor B - Inverter Current - phase A	0	AMP
Motor B - Inverter Current - phase B	-4	AMP
Motor B - Inverter Current - phase C	0	AMP
Motor B Temp Sensor	77	°F
Motor B Resolver Angle	146	Degree
HV Battery Voltage from BPCM	180.00	Volts
Electric Motor B Speed	0.0	rpm
Inverter A IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase C	77	°F
Inverter A IGBT Temperature for phase B	77	°F
Inverter B IGBT Temperature for phase A	75	°F
Inverter B IGBT Temperature for phase C	75	°F
Inverter B IGBT Temperature for phase B	75	°F
Distance Travelled with Light ON	0	miles
Motor B Torque	0.000	Ft-Lbs
HV Battery Sleep Time	0	Days
Motor A Torque	0.000	Ft-Lbs
GPS Date - Month	1	
GPS Date - Day	1	Days
GPS Date - Year	0	Year
UTC Time - Hours	0	Hours
UTC Time - Seconds	0	seconds
UTC Time - Minutes	0	
ECU Time - Milliseconds	0	ms

HCP | P0652-00 | Active | Sensor Reference Voltage 2 Circuit Low-

NAME	VALUE	UNITS
DTC	06 52 00	

Test Failed	True	
Test Failed This Operation Cycle	True	
Pending DTC	True	
Confirmed DTC	True	
Test Failed Since Last Clear	True	
Test Not Completed Since Last Clear	False	
Warning Indicator Requested	True	
Occurrence flag	Occurrence	
Test Not Completed This Operation Cycle	False	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
PRND Position Display	P	
Propulsion System Active	False	
Commanded Inverter B State	Inverter Disabled	
Inverter B Status Feedback	Inverter Faulted	
Motor B Phase U Short Fault - High-Side	False	
Motor B Phase U Cross Conduction Fault - High-Side	False	
Motor B Phase U Thermal Shutdown Fault - High-Side	False	
Motor B Phase U Thermal Warning Fault - High-Side	False	
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase U SPI Error Fault - High-Side	False	
Motor B Phase U Hardware Error Fault - High-Side	False	
Motor B Phase U Short Fault - Low-Side	False	
Motor B Phase U Cross Conduction Fault - Low-Side	False	
Motor B Phase U Thermal Shutdown Fault - Low-Side	False	
Motor B Phase U Over Current Fault - Low-Side	False	
Motor B Phase U Thermal Warning Fault - Low-Side	False	
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase U SPI Error Fault - Low-Side	False	
Motor B Phase V Short Fault - High-Side	False	
Motor B Phase V Cross Conduction Fault - High-Side	False	
Motor B Phase U Hardware Error Fault - Low-Side	False	
Motor B Phase V Over Current Fault - High-Side	False	
Motor B Phase V Thermal Warning Fault - High-Side	False	
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase V Thermal Shutdown Fault - High-Side	False	
Motor B Phase V SPI Error Fault - High-Side	False	
Motor B Phase V Hardware Error Fault - High-Side	False	
Motor B Phase V Short Fault - Low-Side	False	
Motor B Phase V Cross Conduction Fault - Low-Side	False	
Motor B Phase V Over Current Fault - Low-Side	False	

Motor B Phase V Thermal Warning Fault - Low-Side	False	
Motor B Phase V Thermal Shutdown Fault - Low-Side	False	
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase W Short Fault - High-Side	False	
Motor B Phase V Hardware Error Fault - Low-Side	False	
Motor B Phase V SPI Error Fault - Low-Side	False	
Motor B Phase W Thermal Warning Fault - High-Side	False	
Motor B Phase W Cross Conduction Fault - High-Side	False	
Motor B Phase W Over Current Fault - High-Side	False	
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase W SPI Error Fault - High-Side	False	
Motor B Phase W Hardware Error Fault - High-Side	False	
Motor B Phase W Short Fault - Low-Side	False	
Motor B Phase W Cross Conduction Fault - Low-Side	False	
Motor B Phase W Over Current Fault - Low-Side	False	
Motor B Phase W Thermal Shutdown Fault - Low-Side	False	
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase W Thermal Warning Fault - Low-Side	False	
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase W SPI Error Fault - Low-Side	False	
Motor B Phase W Hardware Error Fault - Low-Side	False	
Hybrid System State	SNA	
HCP ePT Wake-Up Output	On	
EPT LOC Diag Enable	Enable LOC Diagnostic	
CBC Wake-Up Input	Off	
HV Contactor Status	Open	
Impact Event	False	
APM Status	Idle	
HCP System Shutdown Command	Default	
J1772 Prox Detected State	Prox Out	
OBCM Operating Mode	UTC	
Motor B Phase U Over Current Fault - High-Side	False	
Motor B Phase U Over Voltage Fault VH - High-Side	False	
Motor B Phase U Under Voltage Fault VH - High-Side	False	
Motor B Phase U Over Voltage Fault VL - High-Side	False	
Motor B Phase U Over Voltage Fault VDD - High-Side	False	
Motor B Phase U Under Voltage Fault VL - High-Side	False	
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase U Under Voltage Fault VDD - High-Side	False	
Motor B Phase U Over Voltage Fault VH - Low-Side	False	
Motor B Phase U Under Voltage Fault VH - Low-Side	False	
Motor B Phase U Over Voltage Fault VL - Low-Side	False	

Motor B Phase U Under Voltage Fault VL - Low-Side	False	
Motor B Phase U Over Voltage Fault VDD - Low-Side	False	
Motor B Phase U Under Voltage Fault VDD - Low-Side	False	
Motor B Phase V Over Voltage Fault VH - High-Side	False	
Motor B Phase V Under Voltage Fault VH - High-Side	False	
Motor B Phase V Over Voltage Fault VL - High-Side	False	
Motor B Phase V Under Voltage Fault VL - High-Side	False	
Motor B Phase V Over Voltage Fault VDD - High-Side	False	
Motor B Phase V Under Voltage Fault VDD - High-Side	False	
Motor B Phase V Over Voltage Fault VH - Low-Side	False	
Motor B Phase V Under Voltage Fault VH - Low-Side	False	
Motor B Phase V Over Voltage Fault VL - Low-Side	False	
Motor B Phase V Under Voltage Fault VL - Low-Side	False	
Motor B Phase V Over Voltage Fault VDD - Low-Side	False	
Motor B Phase V Under Voltage Fault VDD - Low-Side	False	
Motor B Phase W Over Voltage Fault VH - High-Side	False	
Motor B Phase W Under Voltage Fault VH - High-Side	False	
Motor B Phase W Over Voltage Fault VL - High-Side	False	
Motor B Phase W Under Voltage Fault VL - High-Side	False	
Motor B Phase W Over Voltage Fault VDD - High-Side	False	
Motor B Phase W Under Voltage Fault VDD - High-Side	False	
Motor B Phase W Over Voltage Fault VH - Low-Side	False	
Motor B Phase W Thermal Shutdown Fault - High-Side	False	
Motor B Phase W Under Voltage Fault VH - Low-Side	False	
Motor B Phase W Over Voltage Fault VL - Low-Side	False	
Motor B Phase W Under Voltage Fault VL - Low-Side	False	
Motor B Phase W Over Voltage Fault VDD - Low-Side	False	
Motor B Phase W Under Voltage Fault VDD - Low-Side	False	
Most Recent Odometer Value	1776.2	miles
Frequency Counter	1	
Original Odometer Value	1776.2	miles
Ignition Cycle Counter	0	
Real time clock	22759332	sec
RAM Stamps	13120	Min
Accelerator Pedal Position	0	%
RAM stamps keyOn	120	sec
Engine Speed	0	rpm
HV Battery SOC	26	%
Vehicle Speed	0.0000	MPH
Barometric Pressure	15	PSI
Engine Coolant Temperature	73	°F
Actual Torque - Motor B	0.000	Ft-Lbs
Inverter B Input DC Current	0.0	AMP
Available Motor Torque - Motor B	7.928	Ft-Lbs

Motor B - Inverter Current - phase A	-4	AMP
Electric Motor B Speed	0.0	rpm
Motor B - Inverter Current - phase B	-4	AMP
Motor B - Inverter Current - phase C	-4	AMP
Motor B Resolver Supply Voltage Value	03FD	Volts
Battery Feed Voltage 2 Sense	12.312	Volts
Internal EPS Voltage Sense A	0.216	Volts
Internal EPS Voltage Sense B	0.216	Volts
Battery Feed Voltage 1 Sense	12.240	Volts
Battery Feed Voltage 3 Sense	12.096	Volts
Actual Torque - Motor A	0.000	Ft-Lbs
Available Motor Torque - Motor A	7.928	Ft-Lbs
Available Regen Torque - Motor B	-7.928	Ft-Lbs
Available Regen Torque - Motor A	-7.928	Ft-Lbs
Commanded Torque - Motor A	0.000	Ft-Lbs
Motor A - Inverter Current - phase A	-4	AMP
Commanded Torque - Motor B	0.000	Ft-Lbs
Motor A - Inverter Current - phase B	-4	AMP
Motor A - Inverter Current - phase C	0	AMP
Motor A Temp Sensor	79	°F
Outside Air Temperature	77.0	°F
Motor A Resolver Angle	196	Degree
Electric Motor A Speed	0.0	rpm
HV Battery Voltage from BPCM	180.00	Volts
PIM DC Link Voltage - B	56	Volts
PIM DC Link Voltage - A	37	Volts
Inverter A IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase C	77	°F
Inverter B IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase B	77	°F
Inverter B IGBT Temperature for phase B	75	°F
Inverter B IGBT Temperature for phase C	75	°F
Motor A Torque	0.000	Ft-Lbs
Motor B Torque	0.000	Ft-Lbs
Distance Travelled with Light ON	0	miles
GPS Date - Year	0	Year
HV Battery Sleep Time	0	Days
GPS Date - Month	1	
GPS Date - Day	1	Days
UTC Time - Hours	0	Hours
UTC Time - Minutes	0	
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms

HCP | P06B1-00 | Active | Sensor Power Supply 1 Circuit Low-

NAME	VALUE	UNITS
DTC	06 B1 00	
Test Failed	True	
Pending DTC	True	
Confirmed DTC	True	
Test Failed This Operation Cycle	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	Occurrence	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Propulsion System Active	False	
Ignition State	Reserved	
PRND Position Display	P	
Motor A Resolver Offset Learn Erase	not requested	
Motor A Resolver Offset Learning Status Flag	Applied	
Motor B Resolver Offset Learning Status Flag	Applied	
Motor A Resolver to Digital Low Level Driver Faults	No fault	
Motor B Resolver to Digital Low Level Driver Faults	No fault	
Hybrid System State	SNA	
HCP ePT Wake-Up Output	On	
HV Contactor Status	Open	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
APM Status	Idle	
HCP System Shutdown Command	Default	
Impact Event	False	
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
Motor B Resolver Offset Learn Erase	not requested	
Most Recent Odometer Value	1776.2	miles
Ignition Cycle Counter	0	
Frequency Counter	1	
Original Odometer Value	1776.2	miles
RAM stamps keyOn	120	sec
Accelerator Pedal Position	0	%
RAM Stamps	13120	Min
Engine Speed	0	rpm
Real time clock	22759332	sec
HV Battery SOC	26	%
Motor A Temp Sensor	79	°F

Vehicle Speed	0.0000	MPH
Motor B Temp Sensor	77	°F
Barometric Pressure	15	PSI
Engine Coolant Temperature	73	°F
Motor A Resolver Angle Offset	1.60	Degree
Motor B Resolver Supply Voltage Value	03FD	Volts
Actual Torque - Motor A	0.000	Ft-Lbs
Internal EPS Voltage Sense B	0.216	Volts
Motor A Resolver Supply Voltage Value	03FD	Volts
Motor B Resolver Angle Offset	2.80	Degree
Internal EPS Voltage Sense A	0.216	Volts
Available Motor Torque - Motor B	0.000	Ft-Lbs
Battery Feed Voltage 2 Sense	12.312	Volts
Available Motor Torque - Motor A	0.000	Ft-Lbs
Available Regen Torque - Motor A	0.000	Ft-Lbs
Actual Torque - Motor B	0.000	Ft-Lbs
Commanded Torque - Motor A	0.000	Ft-Lbs
Commanded Torque - Motor B	0.000	Ft-Lbs
Available Regen Torque - Motor B	0.000	Ft-Lbs
Electric Motor A Speed	0.0	rpm
Electric Motor B Speed	0.0	rpm
Battery Feed Voltage 1 Sense	12.240	Volts
Battery Feed Voltage 3 Sense	12.096	Volts
Motor A - Inverter Current - phase A	-4	AMP
Motor A - Inverter Current - phase B	0	AMP
Motor B - Inverter Current - phase B	0	AMP
Motor B - Inverter Current - phase A	0	AMP
Motor A - Inverter Current - phase C	0	AMP
HV Battery Voltage from BPCM	180.00	Volts
Outside Air Temperature	77.0	°F
Motor B - Inverter Current - phase C	-4	AMP
Inverter A IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase B	77	°F
PIM DC Link Voltage - A	37	Volts
PIM DC Link Voltage - B	56	Volts
Inverter B IGBT Temperature for phase C	75	°F
Inverter B IGBT Temperature for phase B	75	°F
Inverter A IGBT Temperature for phase C	77	°F
Inverter B IGBT Temperature for phase A	75	°F
Motor B Torque	0.000	Ft-Lbs
Motor A Torque	0.000	Ft-Lbs
Distance Travelled with Light ON	0	miles
GPS Date - Day	1	Days
HV Battery Sleep Time	0	Days

GPS Date - Month	1	
GPS Date - Year	0	Year
UTC Time - Hours	0	Hours
UTC Time - Minutes	0	
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms

HCP | P06B4-00 | Active | Sensor Power Supply 2 Circuit Low-

NAME	VALUE	UNITS
DTC	06 B4 00	
Test Failed This Operation Cycle	True	
Test Failed	True	
Confirmed DTC	True	
Pending DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Occurrence flag	Occurrence	
Warning Indicator Requested	True	
Test Not Completed This Operation Cycle	False	
PHEV Charging Status	No Charging	
Brake Switch Status	Not Applied	
Ignition State	Reserved	
PRND Position Display	P	
Propulsion System Active	False	
Motor A Resolver Offset Learn Erase	not requested	
Motor A Resolver Offset Learning Status Flag	Applied	
Motor B Resolver Offset Learning Status Flag	Applied	
Motor A Resolver to Digital Low Level Driver Faults	No fault	
Motor B Resolver to Digital Low Level Driver Faults	No fault	
Hybrid System State	SNA	
HCP ePT Wake-Up Output	On	
EPT LOC Diag Enable	Enable LOC Diagnostic	
CBC Wake-Up Input	Off	
HV Contactor Status	Open	
APM Status	Idle	
HCP System Shutdown Command	Default	
Impact Event	False	
J1772 Prox Detected State	Prox Out	
OBCM Operating Mode	UTC	
Motor B Resolver Offset Learn Erase	not requested	
Frequency Counter	1	
Ignition Cycle Counter	0	
Original Odometer Value	1776.2	miles
RAM stamps keyOn	120	sec

Most Recent Odometer Value	1776.2	miles
Real time clock	22759332	sec
Engine Speed	0	rpm
Accelerator Pedal Position	0	%
RAM Stamps	13120	Min
HV Battery SOC	26	%
Vehicle Speed	0.0000	MPH
Motor B Temp Sensor	77	°F
Motor A Temp Sensor	79	°F
Barometric Pressure	15	PSI
Motor B Resolver Angle Offset	2.80	Degree
Motor B Resolver Supply Voltage Value	03FD	Volts
Motor A Resolver Angle Offset	1.60	Degree
Motor A Resolver Supply Voltage Value	03FD	Volts
Internal EPS Voltage Sense A	0.216	Volts
Engine Coolant Temperature	73	°F
Battery Feed Voltage 2 Sense	12.312	Volts
Internal EPS Voltage Sense B	0.216	Volts
Actual Torque - Motor A	0.000	Ft-Lbs
Available Motor Torque - Motor A	0.000	Ft-Lbs
Available Motor Torque - Motor B	0.000	Ft-Lbs
Actual Torque - Motor B	0.000	Ft-Lbs
Available Regen Torque - Motor B	0.000	Ft-Lbs
Available Regen Torque - Motor A	0.000	Ft-Lbs
Electric Motor B Speed	0.0	rpm
Commanded Torque - Motor A	0.000	Ft-Lbs
Electric Motor A Speed	0.0	rpm
Commanded Torque - Motor B	0.000	Ft-Lbs
Battery Feed Voltage 3 Sense	12.096	Volts
Battery Feed Voltage 1 Sense	12.240	Volts
Motor A - Inverter Current - phase A	0	AMP
Motor A - Inverter Current - phase B	-4	AMP
Motor B - Inverter Current - phase A	-4	AMP
Outside Air Temperature	77.0	°F
Motor B - Inverter Current - phase C	0	AMP
Motor B - Inverter Current - phase B	-4	AMP
PIM DC Link Voltage - A	37	Volts
HV Battery Voltage from BPCM	180.00	Volts
Motor A - Inverter Current - phase C	0	AMP
Inverter A IGBT Temperature for phase B	77	°F
Inverter A IGBT Temperature for phase A	75	°F
PIM DC Link Voltage - B	56	Volts
Inverter A IGBT Temperature for phase C	77	°F
Inverter B IGBT Temperature for phase B	75	°F

Inverter B IGBT Temperature for phase C	75	°F
Inverter B IGBT Temperature for phase A	75	°F
Distance Travelled with Light ON	0	miles
HV Battery Sleep Time	0	Days
Motor A Torque	0.000	Ft-Lbs
Motor B Torque	0.000	Ft-Lbs
GPS Date - Day	1	Days
GPS Date - Year	0	Year
GPS Date - Month	1	
UTC Time - Minutes	0	
UTC Time - Hours	0	Hours
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms

HCP | P0A78-00 | Active | Drive Motor A Inverter Performance-

NAME	VALUE	UNITS
DTC	0A 78 00	
Test Failed	True	
Pending DTC	True	
Confirmed DTC	True	
Test Failed This Operation Cycle	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	Occurrence	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
Propulsion System Active	False	
PRND Position Display	P	
Motor A Phase U Short Fault - High-Side	False	
Motor A Phase U Cross Conduction Fault - High-Side	False	
Motor A Phase U Thermal Warning Fault - High-Side	False	
Motor A Phase U Over Current Fault - High-Side	False	
Motor A Phase U Thermal Shutdown Fault - High-Side	False	
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase U SPI Error Fault - High-Side	True	
Motor A Phase U Hardware Error Fault - High-Side	True	
Motor A Phase U Short Fault - Low-Side	False	
Motor A Phase U Over Current Fault - Low-Side	False	
Motor A Phase U Thermal Warning Fault - Low-Side	False	
Motor A Phase U Cross Conduction Fault - Low-Side	False	

Motor A Phase U Thermal Shutdown Fault - Low-Side	False	
Motor A Phase U SPI Error Fault - Low-Side	True	
Motor A Phase U Hardware Error Fault - Low-Side	True	
Motor A Phase V Short Fault - High-Side	False	
Motor A Phase V Cross Conduction Fault - High-Side	False	
Motor A Phase V Over Current Fault - High-Side	False	
Motor A Phase V Thermal Warning Fault - High-Side	False	
Motor A Phase V Thermal Shutdown Fault - High-Side	False	
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase V SPI Error Fault - High-Side	True	
Motor A Phase V Short Fault - Low-Side	False	
Motor A Phase V Hardware Error Fault - High-Side	True	
Motor A Phase V Over Current Fault - Low-Side	False	
Motor A Phase V Cross Conduction Fault - Low-Side	False	
Motor A Phase V Thermal Warning Fault - Low-Side	False	
Motor A Phase V Thermal Shutdown Fault - Low-Side	False	
Motor A Phase V SPI Error Fault - Low-Side	True	
Motor A Phase V Hardware Error Fault - Low-Side	True	
Motor A Phase W Short Fault - High-Side	False	
Motor A Phase W Over Current Fault - High-Side	False	
Motor A Phase W Thermal Warning Fault - High-Side	False	
Motor A Phase W Thermal Shutdown Fault - High-Side	False	
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase W SPI Error Fault - High-Side	True	
Motor A Phase W Hardware Error Fault - High-Side	True	
Motor A Phase W Short Fault - Low-Side	False	
Motor A Phase W Cross Conduction Fault - Low-Side	False	
Motor A Phase W Over Current Fault - Low-Side	False	
Motor A Phase W Thermal Warning Fault - Low-Side	False	
Motor A Phase W Thermal Shutdown Fault - Low-Side	False	
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase W SPI Error Fault - Low-Side	True	
Motor A Phase W Hardware Error Fault - Low-Side	True	
Hybrid System State	SNA	
HV Contactor Status	Open	
Inverter B Status Feedback	Inverter Faulted	
HCP ePT Wake-Up Output	On	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
APM Status	Idle	
Impact Event	False	
HCP System Shutdown Command	Default	
OBCM Operating Mode	UTC	

J1772 Prox Detected State	Prox Out	
Commanded Inverter A State	Inverter Disabled	
Inverter Status Feedback	Inverter Faulted	
Motor A Phase U Over Voltage Fault VH - High-Side	False	
Motor A Phase U Under Voltage Fault VH - High-Side	False	
Motor A Phase U Over Voltage Fault VL - High-Side	False	
Motor A Phase U Under Voltage Fault VL - High-Side	False	
Motor A Phase U Over Voltage Fault VDD - High-Side	False	
Motor A Phase U Under Voltage Fault VDD - High-Side	False	
Motor A Phase U Over Voltage Fault VH - Low-Side	False	
Motor A Phase U Under Voltage Fault VH - Low-Side	False	
Motor A Phase U Over Voltage Fault VL - Low-Side	False	
Motor A Phase U Under Voltage Fault VL - Low-Side	False	
Motor A Phase U Over Voltage Fault VDD - Low-Side	False	
Motor A Phase U Under Voltage Fault VDD - Low-Side	False	
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side	False	
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase V Over Voltage Fault VH - High-Side	False	
Motor A Phase V Under Voltage Fault VH - High-Side	False	
Motor A Phase V Over Voltage Fault VL - High-Side	False	
Motor A Phase V Under Voltage Fault VL - High-Side	False	
Motor A Phase V Over Voltage Fault VDD - High-SideSide	False	
Motor A Phase V Under Voltage Fault VDD - High-Side	False	
Motor A Phase V Over Voltage Fault VH - Low-Side	False	
Motor A Phase V Under Voltage Fault VH - Low-Side	False	
Motor A Phase V Over Voltage Fault VL - Low-Side	False	
Motor A Phase V Under Voltage Fault VL - Low-Side	False	
Motor A Phase V Over Voltage Fault VDD - Low-Side	False	
Motor A Phase V Under Voltage Fault VDD - Low-Side	False	
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side	False	
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase W Cross Conduction Fault - High-Side	False	
Motor A Phase W Over Voltage Fault VH - High-Side	False	
Motor A Phase W Under Voltage Fault VH - High-Side	False	
Motor A Phase W Over Voltage Fault VL - High-Side	False	
Motor A Phase W Under Voltage Fault VL - High-Side	False	
Motor A Phase W Over Voltage Fault VDD - High-Side	False	
Motor A Phase W Under Voltage Fault VDD - High-Side	False	
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase W Over Voltage Fault VH - Low-Side	False	
Motor A Phase W Under Voltage Fault VH - Low-Side	False	
Motor A Phase W Over Voltage Fault VL - Low-Side	False	
Motor A Phase W Under Voltage Fault VL - Low-Side	False	
Motor A Phase W Over Voltage Fault VDD - Low-Side	False	

Motor A Phase W Under Voltage Fault VDD - Low-Side	False	
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side	False	
Inverter A Status Feedback	Inverter Faulted	
Most Recent Odometer Value	1776.2	miles
Original Odometer Value	1776.2	miles
Frequency Counter	1	
Real time clock	22759332	sec
Ignition Cycle Counter	0	
RAM stamps keyOn	120	sec
Accelerator Pedal Position	0	%
Engine Speed	0	rpm
HV Battery SOC	26	%
Vehicle Speed	0.0000	MPH
RAM Stamps	13120	Min
Barometric Pressure	15	PSI
Actual Torque - Motor A	0.000	Ft-Lbs
Engine Coolant Temperature	73	°F
Available Motor Torque - Motor A	0.000	Ft-Lbs
Inverter A Input DC Current	0.0	AMP
Electric Motor A Speed	0.0	rpm
Motor A - Inverter Current - phase A	-4	AMP
Motor A - Inverter Current - phase C	0	AMP
Motor A - Inverter Current - phase B	0	AMP
Motor A Resolver Supply Voltage Value	03FD	Volts
Battery Feed Voltage 2 Sense	12.312	Volts
Internal EPS Voltage Sense A	0.216	Volts
Internal EPS Voltage Sense B	0.216	Volts
Battery Feed Voltage 3 Sense	12.096	Volts
PIM DC Link Voltage - A	37	Volts
Passive Pump Coolant Temp In Sensor	75	°F
PIM DC Link Voltage - B	56	Volts
Low Temp Active Pump Speed	0	rpm
Outside Air Temperature	77.0	°F
High Temp Aux Pump - Actual Speed	0	rpm
Battery Feed Voltage 1 Sense	12.240	Volts
Actual Torque - Motor B	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 B - Inverter Current - phase A	-4	AMP
Motor B Resolver Angle	146	Degree
Motor B - Inverter Current - phase B	-4	AMP

Motor B - Inverter Current - phase C	0	AMP
Motor B Temp Sensor	77	°F
HV Battery Voltage from BPCM	180.00	Volts
Electric Motor B Speed	0.0	rpm
Inverter A IGBT Temperature for phase B	77	°F
Inverter A IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase C	77	°F
Inverter B IGBT Temperature for phase C	75	°F
Inverter B IGBT Temperature for phase B	75	°F
Inverter B IGBT Temperature for phase A	75	°F
Distance Travelled with Light ON	0	miles
Motor B Torque	0.000	Ft-Lbs
Motor A Torque	0.000	Ft-Lbs
HV Battery Sleep Time	0	Days
GPS Date - Year	0	Year
GPS Date - Day	1	Days
GPS Date - Month	1	
UTC Time - Hours	0	Hours
UTC Time - Minutes	0	
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms

HCP | P0A79-00 | Active | Drive Motor B Inverter Performance-

NAME	VALUE	UNITS
DTC	0A 79 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	
Occurrence flag	Occurrence	
Warning Indicator Requested	True	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
PRND Position Display	P	
Propulsion System Active	False	
Commanded Inverter B State	Inverter Disabled	
Inverter B Status Feedback	Inverter Faulted	
Motor B Phase U Short Fault - High-Side	False	
Motor B Phase U Cross Conduction Fault - High-Side	False	
Motor B Phase U Thermal Warning Fault - High-Side	False	

Motor B Phase U Thermal Shutdown Fault - High-Side	False	
Motor B Phase U SPI Error Fault - High-Side	False	
Motor B Phase U Hardware Error Fault - High-Side	False	
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase U Cross Conduction Fault - Low-Side	False	
Motor B Phase U Short Fault - Low-Side	False	
Motor B Phase U Over Current Fault - Low-Side	False	
Motor B Phase U Thermal Shutdown Fault - Low-Side	False	
Motor B Phase U Thermal Warning Fault - Low-Side	False	
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase U SPI Error Fault - Low-Side	False	
Motor B Phase U Hardware Error Fault - Low-Side	False	
Motor B Phase V Short Fault - High-Side	False	
Motor B Phase V Cross Conduction Fault - High-Side	False	
Motor B Phase V Over Current Fault - High-Side	False	
Motor B Phase V Thermal Shutdown Fault - High-Side	False	
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase V SPI Error Fault - High-Side	False	
Motor B Phase V Hardware Error Fault - High-Side	False	
Motor B Phase V Short Fault - Low-Side	False	
Motor B Phase V Thermal Warning Fault - High-Side	False	
Motor B Phase V Cross Conduction Fault - Low-Side	False	
Motor B Phase V Thermal Warning Fault - Low-Side	False	
Motor B Phase V Over Current Fault - Low-Side	False	
Motor B Phase V Thermal Shutdown Fault - Low-Side	False	
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase V SPI Error Fault - Low-Side	False	
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase W Short Fault - High-Side	False	
Motor B Phase W Cross Conduction Fault - High-Side	False	
Motor B Phase V Hardware Error Fault - Low-Side	False	
Motor B Phase W Over Current Fault - High-Side	False	
Motor B Phase W Thermal Warning Fault - High-Side	False	
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase W SPI Error Fault - High-Side	False	
Motor B Phase W Hardware Error Fault - High-Side	False	
Motor B Phase W Short Fault - Low-Side	False	
Motor B Phase W Over Current Fault - Low-Side	False	
Motor B Phase W Cross Conduction Fault - Low-Side	False	
Motor B Phase W Thermal Warning Fault - Low-Side	False	
Motor B Phase W Thermal Shutdown Fault - Low-Side	False	

Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase W SPI Error Fault - Low-Side	False	
Motor B Phase W Hardware Error Fault - Low-Side	False	
Hybrid System State	SNA	
HCP ePT Wake-Up Output	On	
EPT LOC Diag Enable	Enable LOC Diagnostic	
CBC Wake-Up Input	Off	
HV Contactor Status	Open	
APM Status	Idle	
Impact Event	False	
HCP System Shutdown Command	Default	
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
Motor B Phase U Over Current Fault - High-Side	False	
Motor B Phase U Over Voltage Fault VH - High-Side	False	
Motor B Phase U Under Voltage Fault VH - High-Side	False	
Motor B Phase U Over Voltage Fault VL - High-Side	False	
Motor B Phase U Under Voltage Fault VL - High-Side	False	
Motor B Phase U Over Voltage Fault VDD - High-Side	False	
Motor B Phase U Under Voltage Fault VDD - High-Side	False	
Motor B Phase U Over Voltage Fault VH - Low-Side	False	
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase U Over Voltage Fault VL - Low-Side	False	
Motor B Phase U Under Voltage Fault VH - Low-Side	False	
Motor B Phase U Under Voltage Fault VL - Low-Side	False	
Motor B Phase U Over Voltage Fault VDD - Low-Side	False	
Motor B Phase U Under Voltage Fault VDD - Low-Side	False	
Motor B Phase V Over Voltage Fault VH - High-Side	False	
Motor B Phase V Under Voltage Fault VH - High-Side	False	
Motor B Phase V Over Voltage Fault VL - High-Side	False	
Motor B Phase V Under Voltage Fault VL - High-Side	False	
Motor B Phase V Over Voltage Fault VDD - High-Side	False	
Motor B Phase V Under Voltage Fault VDD - High-Side	False	
Motor B Phase V Over Voltage Fault VH - Low-Side	False	
Motor B Phase V Under Voltage Fault VH - Low-Side	False	
Motor B Phase V Over Voltage Fault VL - Low-Side	False	
Motor B Phase V Under Voltage Fault VL - Low-Side	False	
Motor B Phase V Over Voltage Fault VDD - Low-Side	False	
Motor B Phase V Under Voltage Fault VDD - Low-Side	False	
Motor B Phase W Over Voltage Fault VH - High-Side	False	
Motor B Phase W Under Voltage Fault VH - High-Side	False	
Motor B Phase W Over Voltage Fault VL - High-Side	False	
Motor B Phase W Over Voltage Fault VDD - High-Side	False	

Motor B Phase W Under Voltage Fault VL - High-Side	False	
Motor B Phase W Under Voltage Fault VDD - High-Side	False	
Motor B Phase W Thermal Shutdown Fault - High-Side	False	
Motor B Phase W Over Voltage Fault VH - Low-Side	False	
Motor B Phase W Under Voltage Fault VH - Low-Side	False	
Motor B Phase W Over Voltage Fault VL - Low-Side	False	
Motor B Phase W Under Voltage Fault VL - Low-Side	False	
Motor B Phase W Under Voltage Fault VDD - Low-Side	False	
Motor B Phase W Over Voltage Fault VDD - Low-Side	False	
Most Recent Odometer Value	1776.2	miles
Frequency Counter	1	
Original Odometer Value	1776.2	miles
Real time clock	22759332	sec
RAM stamps keyOn	120	sec
Accelerator Pedal Position	0	%
RAM Stamps	13120	Min
Engine Speed	0	rpm
HV Battery SOC	26	%
Ignition Cycle Counter	0	
Vehicle Speed	0.0000	MPH
Barometric Pressure	15	PSI
Engine Coolant Temperature	73	°F
Actual Torque - Motor B	0.000	Ft-Lbs
Inverter B Input DC Current	0.0	AMP
Available Motor Torque - Motor B	0.000	Ft-Lbs
Motor B - Inverter Current - phase A	0	AMP
Electric Motor B Speed	0.0	rpm
Motor B - Inverter Current - phase C	-4	AMP
Motor B - Inverter Current - phase B	-4	AMP
Motor B Resolver Supply Voltage Value	03FD	Volts
Battery Feed Voltage 2 Sense	12.312	Volts
Internal EPS Voltage Sense B	0.216	Volts
Internal EPS Voltage Sense A	0.216	Volts
Battery Feed Voltage 1 Sense	12.240	Volts
Battery Feed Voltage 3 Sense	12.096	Volts
Actual Torque - Motor A	0.000	Ft-Lbs
Available Motor Torque - Motor A	0.000	Ft-Lbs
Available Regen Torque - Motor A	0.000	Ft-Lbs
Commanded Torque - Motor A	0.000	Ft-Lbs
Available Regen Torque - Motor B	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 A Resolver Angle	196	Degree
Motor A Temp Sensor	79	°F
Outside Air Temperature	77.0	°F
PIM DC Link Voltage - A	37	Volts
HV Battery Voltage from BPCM	180.00	Volts
Electric Motor A Speed	0.0	rpm
Inverter A IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase B	77	°F
PIM DC Link Voltage - B	56	Volts
Inverter A IGBT Temperature for phase C	77	°F
Inverter B IGBT Temperature for phase B	75	°F
Inverter B IGBT Temperature for phase C	75	°F
Inverter B IGBT Temperature for phase A	75	°F
Motor A Torque	0.000	Ft-Lbs
Distance Travelled with Light ON	0	miles
HV Battery Sleep Time	0	Days
Motor B Torque	0.000	Ft-Lbs
GPS Date - Year	0	Year
GPS Date - Month	1	
GPS Date - Day	1	Days
UTC Time - Hours	0	Hours
UTC Time - Seconds	0	seconds
UTC Time - Minutes	0	
ECU Time - Milliseconds	0	ms

HCP | P1AEC-00 | Active | MCPA HV Battery Voltage Sensor Circuit Performance-

NAME	VALUE	UNITS
DTC	1A EC 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	
Occurrence flag		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Motor A Phase U Short Fault - High-Side		
Motor A Phase U Over Current Fault - High-Side		

Motor A Phase U Cross Conduction Fault - High-Side		
Motor A Phase U Thermal Warning Fault - High-Side		
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase U Thermal Shutdown Fault - High-Side		
Motor A Phase U Hardware Error Fault - High-Side		
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase U SPI Error Fault - High-Side		
Motor A Phase U Short Fault - Low-Side		
Motor A Phase U Over Current Fault - Low-Side		
Motor A Phase U Thermal Warning Fault - Low-Side		
Motor A Phase U Thermal Shutdown Fault - Low-Side		
Motor A Phase U SPI Error Fault - Low-Side		
Motor A Phase U Cross Conduction Fault - Low-Side		
Motor A Phase U Hardware Error Fault - Low-Side		
Motor A Phase V Short Fault - High-Side		
Motor A Phase V Cross Conduction Fault - High-Side		
Motor A Phase V Over Current Fault - High-Side		
Motor A Phase V Thermal Warning Fault - High-Side		
Motor A Phase V Thermal Shutdown Fault - High-Side		
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase V SPI Error Fault - High-Side		
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase V Short Fault - Low-Side		
Motor A Phase V Cross Conduction Fault - Low-Side		
Motor A Phase V Hardware Error Fault - High-Side		
Motor A Phase V Over Current Fault - Low-Side		
Motor A Phase V Thermal Warning Fault - Low-Side		
Motor A Phase V Thermal Shutdown Fault - Low-Side		
Motor A Phase W Short Fault - High-Side		
Motor A Phase W Over Current Fault - High-Side		
Motor A Phase W Thermal Warning Fault - High-Side		
Motor A Phase V SPI Error Fault - Low-Side		
Motor A Phase V Hardware Error Fault - Low-Side		
Motor A Phase W Thermal Shutdown Fault - High-Side		
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor A Phase W SPI Error Fault - High-Side		
Motor A Phase W Hardware Error Fault - High-Side		
Motor A Phase W Short Fault - Low-Side		
Motor A Phase W Cross Conduction Fault - Low-Side		
Motor A Phase W Over Current Fault - Low-Side		
Motor A Phase W Thermal Warning Fault - Low-Side		
Motor A Phase W Thermal Shutdown Fault - Low-Side		
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase W SPI Error Fault - Low-Side		

Motor A Phase W Hardware Error Fault - Low-Side		
Hybrid System State		
HV Contactor Status		
Inverter B Status Feedback		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Commanded Inverter A State		
Inverter Status Feedback		
Motor A Phase U Over Voltage Fault VH - High-Side		
Motor A Phase U Under Voltage Fault VH - High-Side		
Motor A Phase U Over Voltage Fault VL - High-Side		
Motor A Phase U Under Voltage Fault VL - High-Side		
Motor A Phase U Over Voltage Fault VDD - High-Side		
Motor A Phase U Under Voltage Fault VDD - High-Side		
Motor A Phase U Over Voltage Fault VH - Low-Side		
Motor A Phase U Under Voltage Fault VH - Low-Side		
Motor A Phase U Over Voltage Fault VL - Low-Side		
Motor A Phase U Under Voltage Fault VL - Low-Side		
Motor A Phase U Over Voltage Fault VDD - Low-Side		
Motor A Phase U Under Voltage Fault VDD - Low-Side		
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase V Over Voltage Fault VH - High-Side		
Motor A Phase V Under Voltage Fault VH - High-Side		
Motor A Phase V Over Voltage Fault VL - High-Side		
Motor A Phase V Under Voltage Fault VL - High-Side		
Motor A Phase V Over Voltage Fault VDD - High-SideSide		
Motor A Phase V Under Voltage Fault VDD - High-Side		
Motor A Phase V Over Voltage Fault VH - Low-Side		
Motor A Phase V Under Voltage Fault VH - Low-Side		
Motor A Phase V Over Voltage Fault VL - Low-Side		
Motor A Phase V Under Voltage Fault VL - Low-Side		
Motor A Phase V Over Voltage Fault VDD - Low-Side		
Motor A Phase V Under Voltage Fault VDD - Low-Side		
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor A Phase W Cross Conduction Fault - High-Side		
Motor A Phase W Over Voltage Fault VH - High-Side		

Motor A Phase W Under Voltage Fault VH - High-Side		
Motor A Phase W Over Voltage Fault VL - High-Side		
Motor A Phase W Under Voltage Fault VL - High-Side		
Motor A Phase W Over Voltage Fault VDD - High-Side		
Motor A Phase W Under Voltage Fault VDD - High-Side		
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor A Phase W Over Voltage Fault VH - Low-Side		
Motor A Phase W Under Voltage Fault VH - Low-Side		
Motor A Phase W Over Voltage Fault VL - Low-Side		
Motor A Phase W Under Voltage Fault VL - Low-Side		
Motor A Phase W Over Voltage Fault VDD - Low-Side		
Motor A Phase W Under Voltage Fault VDD - Low-Side		
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Inverter A Status Feedback		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Real time clock		sec
Ignition Cycle Counter		
RAM stamps keyOn		sec
RAM Stamps		Min
HV Battery SOC		%
Engine Speed		rpm
Vehicle Speed		MPH
Barometric Pressure		PSI
Accelerator Pedal Position		%
Engine Coolant Temperature		°F
Actual Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		Ft-Lbs
Inverter A Input DC Current		AMP
Motor A - Inverter Current - phase A		AMP
Electric Motor A Speed		rpm
Motor A - Inverter Current - phase B		AMP
Motor A - Inverter Current - phase C		AMP
Motor A Resolver Supply Voltage Value		Volts
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense A		Volts
Battery Feed Voltage 3 Sense		Volts
Internal EPS Voltage Sense B		Volts
PIM DC Link Voltage - A		Volts
PIM DC Link Voltage - B		Volts
Low Temp Active Pump Speed		rpm
Passive Pump Coolant Temp In Sensor		°F
High Temp Aux Pump - Actual Speed		rpm

Outside Air Temperature		°F
Actual Torque - Motor B		Ft-Lbs
Battery Feed Voltage 1 Sense		Volts
Available Motor Torque - Motor B		Ft-Lbs
Available Regen Torque - Motor A		Ft-Lbs
Commanded Torque - Motor A		Ft-Lbs
Available Regen Torque - Motor B		Ft-Lbs
Commanded Torque - Motor B		Ft-Lbs
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
Motor B Resolver Angle		Degree
Electric Motor B Speed		rpm
Motor B Temp Sensor		°F
HV Battery Voltage from BPCM		Volts
Inverter A IGBT Temperature for phase B		°F
Inverter B IGBT Temperature for phase B		°F
Inverter B IGBT Temperature for phase A		°F
Inverter A IGBT Temperature for phase A		°F
Inverter A IGBT Temperature for phase C		°F
Inverter B IGBT Temperature for phase C		°F
Motor B Torque		Ft-Lbs
Motor A Torque		Ft-Lbs
Distance Travelled with Light ON		miles
HV Battery Sleep Time		Days
GPS Date - Year		Year
GPS Date - Month		
UTC Time - Hours		Hours
GPS Date - Day		Days
UTC Time - Seconds		seconds
UTC Time - Minutes		
ECU Time - Milliseconds		ms

HCP | P1AED-00 | Active | MCPB High Voltage Battery Voltage Sensor Circuit Performance-

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

Occurrence flag		
Brake Switch Status		
PHEV Charging Status		
Ignition State		
PRND Position Display		
Propulsion System Active		
Commanded Inverter B State		
Inverter B Status Feedback		
Motor B Phase U Short Fault - High-Side		
Motor B Phase U Cross Conduction Fault - High-Side		
Motor B Phase U Thermal Warning Fault - High-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase U Thermal Shutdown Fault - High-Side		
Motor B Phase U SPI Error Fault - High-Side		
Motor B Phase U Hardware Error Fault - High-Side		
Motor B Phase U Short Fault - Low-Side		
Motor B Phase U Over Current Fault - Low-Side		
Motor B Phase U Cross Conduction Fault - Low-Side		
Motor B Phase U Thermal Warning Fault - Low-Side		
Motor B Phase U Thermal Shutdown Fault - Low-Side		
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase U SPI Error Fault - Low-Side		
Motor B Phase U Hardware Error Fault - Low-Side		
Motor B Phase V Short Fault - High-Side		
Motor B Phase V Cross Conduction Fault - High-Side		
Motor B Phase V Over Current Fault - High-Side		
Motor B Phase V Thermal Warning Fault - High-Side		
Motor B Phase V Thermal Shutdown Fault - High-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase V SPI Error Fault - High-Side		
Motor B Phase V Short Fault - Low-Side		
Motor B Phase V Hardware Error Fault - High-Side		
Motor B Phase V Cross Conduction Fault - Low-Side		
Motor B Phase V Over Current Fault - Low-Side		
Motor B Phase V Thermal Warning Fault - Low-Side		
Motor B Phase V Thermal Shutdown Fault - Low-Side		
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase V SPI Error Fault - Low-Side		
Motor B Phase V Hardware Error Fault - Low-Side		
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase W Cross Conduction Fault - High-Side		
Motor B Phase W Short Fault - High-Side		

Motor B Phase W Over Current Fault - High-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side		
Motor B Phase W Thermal Warning Fault - High-Side		
Motor B Phase W SPI Error Fault - High-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase W Short Fault - Low-Side		
Motor B Phase W Hardware Error Fault - High-Side		
Motor B Phase W Over Current Fault - Low-Side		
Motor B Phase W Thermal Warning Fault - Low-Side		
Motor B Phase W Cross Conduction Fault - Low-Side		
Motor B Phase W Thermal Shutdown Fault - Low-Side		
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side		
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side		
Motor B Phase W SPI Error Fault - Low-Side		
Motor B Phase W Hardware Error Fault - Low-Side		
Hybrid System State		
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Motor B Phase U Over Current Fault - High-Side		
Motor B Phase U Over Voltage Fault VH - High-Side		
Motor B Phase U Under Voltage Fault VH - High-Side		
Motor B Phase U Over Voltage Fault VL - High-Side		
Motor B Phase U Under Voltage Fault VL - High-Side		
Motor B Phase U Over Voltage Fault VDD - High-Side		
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side		
Motor B Phase U Under Voltage Fault VDD - High-Side		
Motor B Phase U Over Voltage Fault VH - Low-Side		
Motor B Phase U Under Voltage Fault VH - Low-Side		
Motor B Phase U Over Voltage Fault VL - Low-Side		
Motor B Phase U Under Voltage Fault VL - Low-Side		
Motor B Phase U Over Voltage Fault VDD - Low-Side		
Motor B Phase V Over Voltage Fault VH - High-Side		
Motor B Phase U Under Voltage Fault VDD - Low-Side		
Motor B Phase V Under Voltage Fault VH - High-Side		
Motor B Phase V Over Voltage Fault VL - High-Side		
Motor B Phase V Under Voltage Fault VL - High-Side		
Motor B Phase V Over Voltage Fault VDD - High-Side		

Motor B Phase V Under Voltage Fault VDD - High-Side		
Motor B Phase V Over Voltage Fault VH - Low-Side		
Motor B Phase V Under Voltage Fault VH - Low-Side		
Motor B Phase V Over Voltage Fault VL - Low-Side		
Motor B Phase V Under Voltage Fault VL - Low-Side		
Motor B Phase V Over Voltage Fault VDD - Low-Side		
Motor B Phase V Under Voltage Fault VDD - Low-Side		
Motor B Phase W Over Voltage Fault VH - High-Side		
Motor B Phase W Under Voltage Fault VH - High-Side		
Motor B Phase W Over Voltage Fault VL - High-Side		
Motor B Phase W Under Voltage Fault VL - High-Side		
Motor B Phase W Under Voltage Fault VDD - High-Side		
Motor B Phase W Over Voltage Fault VDD - High-Side		
Motor B Phase W Thermal Shutdown Fault - High-Side		
Motor B Phase W Over Voltage Fault VH - Low-Side		
Motor B Phase W Over Voltage Fault VL - Low-Side		
Motor B Phase W Under Voltage Fault VH - Low-Side		
Motor B Phase W Under Voltage Fault VL - Low-Side		
Motor B Phase W Over Voltage Fault VDD - Low-Side		
Motor B Phase W Under Voltage Fault VDD - Low-Side		
Original Odometer Value		miles
Frequency Counter		
RAM stamps keyOn		sec
Real time clock		sec
Most Recent Odometer Value		miles
Ignition Cycle Counter		
RAM Stamps		Min
Engine Speed		rpm
Accelerator Pedal Position		%
HV Battery SOC		%
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
Available Motor Torque - Motor B		Ft-Lbs
Actual Torque - Motor B		Ft-Lbs
Inverter B Input DC Current		AMP
Electric Motor B Speed		rpm
Motor B - Inverter Current - phase A		AMP
Motor B - Inverter Current - phase C		AMP
Motor B - Inverter Current - phase B		AMP
Battery Feed Voltage 2 Sense		Volts
Motor B Resolver Supply Voltage Value		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts

Battery Feed Voltage 3 Sense		Volts
Battery Feed Voltage 1 Sense		Volts
Actual Torque - Motor A		Ft-Lbs
Available Regen Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor A		Ft-Lbs
Available Regen Torque - Motor B		Ft-Lbs
Motor A - Inverter Current - phase A		AMP
Commanded Torque - Motor A		Ft-Lbs
Motor A - Inverter Current - phase B		AMP
Commanded Torque - Motor B		Ft-Lbs
Motor A - Inverter Current - phase C		AMP
Motor A Resolver Angle		Degree
Motor A Temp Sensor		°F
Outside Air Temperature		°F
HV Battery Voltage from BPCM		Volts
Electric Motor A Speed		rpm
Inverter A IGBT Temperature for phase A		°F
PIM DC Link Voltage - A		Volts
Inverter A IGBT Temperature for phase B		°F
Inverter A IGBT Temperature for phase C		°F
PIM DC Link Voltage - B		Volts
Inverter B IGBT Temperature for phase B		°F
Inverter B IGBT Temperature for phase A		°F
Inverter B IGBT Temperature for phase C		°F
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
HV Battery Sleep Time		Days
Motor B Torque		Ft-Lbs
GPS Date - Year		Year
GPS Date - Day		Days
GPS Date - Month		
UTC Time - Hours		Hours
UTC Time - Minutes		
UTC Time - Seconds		seconds
ECU Time - Milliseconds		ms

HCP | P1AEE-00 | Active | MCPA HV Battery System Voltage High-

NAME	VALUE	UNITS
DTC	1A EE 00	
Test Failed	True	
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	
Test Failed This Operation Cycle	True	
Warning Indicator Requested	True	
Occurrence flag	Occurrence	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
PRND Position Display	P	
Propulsion System Active	False	
Motor A Phase U Short Fault - High-Side	False	
Motor A Phase U Cross Conduction Fault - High-Side	False	
Motor A Phase U Over Current Fault - High-Side	False	
Motor A Phase U Thermal Shutdown Fault - High-Side	False	
Motor A Phase U Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase U Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase U Thermal Warning Fault - High-Side	False	
Motor A Phase U SPI Error Fault - High-Side	True	
Motor A Phase U Short Fault - Low-Side	False	
Motor A Phase U Hardware Error Fault - High-Side	True	
Motor A Phase U Cross Conduction Fault - Low-Side	False	
Motor A Phase U Over Current Fault - Low-Side	False	
Motor A Phase U Thermal Warning Fault - Low-Side	False	
Motor A Phase U SPI Error Fault - Low-Side	True	
Motor A Phase U Thermal Shutdown Fault - Low-Side	False	
Motor A Phase U Hardware Error Fault - Low-Side	True	
Motor A Phase V Cross Conduction Fault - High-Side	False	
Motor A Phase V Short Fault - High-Side	False	
Motor A Phase V Over Current Fault - High-Side	False	
Motor A Phase V Thermal Warning Fault - High-Side	False	
Motor A Phase V Thermal Shutdown Fault - High-Side	False	
Motor A Phase V Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase V SPI Error Fault - High-Side	True	
Motor A Phase V Hardware Error Fault - High-Side	True	
Motor A Phase V Short Fault - Low-Side	False	
Motor A Phase V Cross Conduction Fault - Low-Side	False	
Motor A Phase V Over Current Fault - Low-Side	False	
Motor A Phase V Thermal Warning Fault - Low-Side	False	
Motor A Phase V Thermal Shutdown Fault - Low-Side	False	
Motor A Phase V SPI Error Fault - Low-Side	True	
Motor A Phase V Hardware Error Fault - Low-Side	True	
Motor A Phase W Short Fault - High-Side	False	
Motor A Phase W Over Current Fault - High-Side	False	
Motor A Phase W Thermal Warning Fault - High-Side	False	

Motor A Phase W Thermal Shutdown Fault - High-Side	False	
Motor A Phase W Comm Error Low Voltage Regulator Fault - High-Side	False	
Motor A Phase W SPI Error Fault - High-Side	True	
Motor A Phase W Hardware Error Fault - High-Side	True	
Motor A Phase W Short Fault - Low-Side	False	
Motor A Phase W Cross Conduction Fault - Low-Side	False	
Motor A Phase W Over Current Fault - Low-Side	False	
Motor A Phase W Thermal Warning Fault - Low-Side	False	
Motor A Phase W Thermal Shutdown Fault - Low-Side	False	
Motor A Phase W Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase W SPI Error Fault - Low-Side	True	
Motor A Phase W Hardware Error Fault - Low-Side	True	
Hybrid System State	SNA	
HV Contactor Status	Open	
Inverter B Status Feedback	Inverter Faulted	
HCP ePT Wake-Up Output	On	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
APM Status	Idle	
Impact Event	False	
HCP System Shutdown Command	Default	
OBCM Operating Mode	UTC	
Commanded Inverter A State	Inverter Disabled	
J1772 Prox Detected State	Prox Out	
Inverter Status Feedback	Inverter Faulted	
Motor A Phase U Over Voltage Fault VH - High-Side	False	
Motor A Phase U Under Voltage Fault VH - High-Side	False	
Motor A Phase U Over Voltage Fault VL - High-Side	False	
Motor A Phase U Under Voltage Fault VL - High-Side	False	
Motor A Phase U Over Voltage Fault VDD - High-Side	False	
Motor A Phase U Under Voltage Fault VDD - High-Side	False	
Motor A Phase U Over Voltage Fault VH - Low-Side	False	
Motor A Phase U Under Voltage Fault VH - Low-Side	False	
Motor A Phase U Over Voltage Fault VL - Low-Side	False	
Motor A Phase U Under Voltage Fault VL - Low-Side	False	
Motor A Phase U Over Voltage Fault VDD - Low-Side	False	
Motor A Phase U Under Voltage Fault VDD - Low-Side	False	
Motor A Phase U Comm Error High Voltage Regulator Fault - Low-Side	False	
Motor A Phase U Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase V Over Voltage Fault VH - High-Side	False	
Motor A Phase V Under Voltage Fault VH - High-Side	False	
Motor A Phase V Over Voltage Fault VL - High-Side	False	
Motor A Phase V Under Voltage Fault VL - High-Side	False	
Motor A Phase V Over Voltage Fault VDD - High-SideSide	False	

Motor A Phase V Under Voltage Fault VDD - High-Side	False	
Motor A Phase V Over Voltage Fault VH - Low-Side	False	
Motor A Phase V Under Voltage Fault VH - Low-Side	False	
Motor A Phase V Under Voltage Fault VL - Low-Side	False	
Motor A Phase V Over Voltage Fault VL - Low-Side	False	
Motor A Phase V Over Voltage Fault VDD - Low-Side	False	
Motor A Phase V Under Voltage Fault VDD - Low-Side	False	
Motor A Phase V Comm Error High Voltage Regulator Fault - Low-Side	False	
Motor A Phase V Comm Error Low Voltage Regulator Fault - Low-Side	False	
Motor A Phase W Cross Conduction Fault - High-Side	False	
Motor A Phase W Over Voltage Fault VH - High-Side	False	
Motor A Phase W Under Voltage Fault VH - High-Side	False	
Motor A Phase W Over Voltage Fault VL - High-Side	False	
Motor A Phase W Under Voltage Fault VL - High-Side	False	
Motor A Phase W Over Voltage Fault VDD - High-Side	False	
Motor A Phase W Under Voltage Fault VDD - High-Side	False	
Motor A Phase W Comm Error High Voltage Regulator Fault - High-Side	False	
Motor A Phase W Over Voltage Fault VH - Low-Side	False	
Motor A Phase W Under Voltage Fault VH - Low-Side	False	
Motor A Phase W Over Voltage Fault VL - Low-Side	False	
Motor A Phase W Under Voltage Fault VL - Low-Side	False	
Motor A Phase W Over Voltage Fault VDD - Low-Side	False	
Motor A Phase W Under Voltage Fault VDD - Low-Side	False	
Motor A Phase W Comm Error High Voltage Regulator Fault - Low-Side	False	
Inverter A Status Feedback	Inverter Faulted	
Most Recent Odometer Value	1776.2	miles
Original Odometer Value	1776.2	miles
Frequency Counter	1	
Ignition Cycle Counter	0	
Real time clock	22759332	sec
RAM Stamps	13120	Min
Accelerator Pedal Position	0	%
Engine Speed	0	rpm
RAM stamps keyOn	120	sec
HV Battery SOC	26	%
Engine Coolant Temperature	73	°F
Vehicle Speed	0.0000	MPH
Barometric Pressure	15	PSI
Actual Torque - Motor A	0.000	Ft-Lbs
Available Motor Torque - Motor A	0.000	Ft-Lbs
Electric Motor A Speed	0.0	rpm
Inverter A Input DC Current	0.0	AMP
Motor A - Inverter Current - phase A	-4	AMP
Motor A - Inverter Current - phase B	-4	AMP

Motor A - Inverter Current - phase C	0	AMP
Battery Feed Voltage 2 Sense	12.312	Volts
Motor A Resolver Supply Voltage Value	03FD	Volts
Battery Feed Voltage 3 Sense	12.096	Volts
Internal EPS Voltage Sense A	0.216	Volts
Internal EPS Voltage Sense B	0.216	Volts
PIM DC Link Voltage - B	56	Volts
PIM DC Link Voltage - A	37	Volts
Passive Pump Coolant Temp In Sensor	75	°F
High Temp Aux Pump - Actual Speed	0	rpm
Low Temp Active Pump Speed	0	rpm
Outside Air Temperature	77.0	°F
Battery Feed Voltage 1 Sense	12.240	Volts
Actual Torque - Motor B	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
Motor B - Inverter Current - phase A	-4	AMP
Commanded Torque - Motor B	0.000	Ft-Lbs
Motor B - Inverter Current - phase B	-4	AMP
Motor B - Inverter Current - phase C	-4	AMP
Motor B Resolver Angle	146	Degree
Electric Motor B Speed	0.0	rpm
Motor B Temp Sensor	77	°F
HV Battery Voltage from BPCM	180.00	Volts
Inverter A IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase B	77	°F
Inverter A IGBT Temperature for phase C	77	°F
Inverter B IGBT Temperature for phase B	75	°F
Inverter B IGBT Temperature for phase A	75	°F
Inverter B IGBT Temperature for phase C	75	°F
Distance Travelled with Light ON	0	miles
Motor A Torque	0.000	Ft-Lbs
HV Battery Sleep Time	0	Days
Motor B Torque	0.000	Ft-Lbs
GPS Date - Year	0	Year
GPS Date - Month	1	
GPS Date - Day	1	Days
UTC Time - Minutes	0	
UTC Time - Hours	0	Hours
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms

HCP | P1AEF-00 | Active | MCPB High Voltage Battery System Voltage High-

NAME	VALUE	UNITS
DTC	1A EF 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
Pending DTC	True	
Confirmed DTC	True	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Occurrence flag	Occurrence	
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	True	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
PRND Position Display	P	
Propulsion System Active	False	
Commanded Inverter B State	Inverter Disabled	
Motor B Phase U Short Fault - High-Side	False	
Inverter B Status Feedback	Inverter Faulted	
Motor B Phase U Thermal Warning Fault - High-Side	False	
Motor B Phase U Thermal Shutdown Fault - High-Side	False	
Motor B Phase U Cross Conduction Fault - High-Side	False	
Motor B Phase U Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase U SPI Error Fault - High-Side	False	
Motor B Phase U Hardware Error Fault - High-Side	False	
Motor B Phase U Short Fault - Low-Side	False	
Motor B Phase U Over Current Fault - Low-Side	False	
Motor B Phase U Cross Conduction Fault - Low-Side	False	
Motor B Phase U Thermal Warning Fault - Low-Side	False	
Motor B Phase U Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase U Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase U Thermal Shutdown Fault - Low-Side	False	
Motor B Phase U Hardware Error Fault - Low-Side	False	
Motor B Phase U SPI Error Fault - Low-Side	False	
Motor B Phase V Short Fault - High-Side	False	
Motor B Phase V Cross Conduction Fault - High-Side	False	
Motor B Phase V Over Current Fault - High-Side	False	
Motor B Phase V Thermal Warning Fault - High-Side	False	
Motor B Phase V Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase V Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase V Thermal Shutdown Fault - High-Side	False	
Motor B Phase V SPI Error Fault - High-Side	False	
Motor B Phase V Cross Conduction Fault - Low-Side	False	

Motor B Phase V Short Fault - Low-Side	False	
Motor B Phase V Hardware Error Fault - High-Side	False	
Motor B Phase V Over Current Fault - Low-Side	False	
Motor B Phase V Thermal Warning Fault - Low-Side	False	
Motor B Phase V Thermal Shutdown Fault - Low-Side	False	
Motor B Phase V SPI Error Fault - Low-Side	False	
Motor B Phase V Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase V Hardware Error Fault - Low-Side	False	
Motor B Phase V Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase W Cross Conduction Fault - High-Side	False	
Motor B Phase W Short Fault - High-Side	False	
Motor B Phase W Over Current Fault - High-Side	False	
Motor B Phase W Thermal Warning Fault - High-Side	False	
Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side	True	
Motor B Phase W SPI Error Fault - High-Side	False	
Motor B Phase W Comm Error Low Voltage Regulator Fault - High-Side	True	
Motor B Phase W Hardware Error Fault - High-Side	False	
Motor B Phase W Short Fault - Low-Side	False	
Motor B Phase W Cross Conduction Fault - Low-Side	False	
Motor B Phase W Over Current Fault - Low-Side	False	
Motor B Phase W Thermal Warning Fault - Low-Side	False	
Motor B Phase W Thermal Shutdown Fault - Low-Side	False	
Motor B Phase W Comm Error High Voltage Regulator Fault - Low-Side	True	
Motor B Phase W Comm Error Low Voltage Regulator Fault - Low-Side	True	
Motor B Phase W SPI Error Fault - Low-Side	False	
Motor B Phase W Hardware Error Fault - Low-Side	False	
Hybrid System State	SNA	
HCP ePT Wake-Up Output	On	
EPT LOC Diag Enable	Enable LOC Diagnostic	
HV Contactor Status	Open	
CBC Wake-Up Input	Off	
APM Status	Idle	
HCP System Shutdown Command	Default	
Impact Event	False	
J1772 Prox Detected State	Prox Out	
OBCM Operating Mode	UTC	
Motor B Phase U Over Current Fault - High-Side	False	
Motor B Phase U Under Voltage Fault VH - High-Side	False	
Motor B Phase U Over Voltage Fault VH - High-Side	False	
Motor B Phase U Over Voltage Fault VL - High-Side	False	
Motor B Phase U Under Voltage Fault VL - High-Side	False	
Motor B Phase U Over Voltage Fault VDD - High-Side	False	
Motor B Phase U Under Voltage Fault VDD - High-Side	False	
Motor B Phase U Comm Error Low Voltage Regulator Fault - High-Side	True	

Motor B Phase U Over Voltage Fault VH - Low-Side	False	
Motor B Phase U Under Voltage Fault VH - Low-Side	False	
Motor B Phase U Over Voltage Fault VL - Low-Side	False	
Motor B Phase U Over Voltage Fault VDD - Low-Side	False	
Motor B Phase U Under Voltage Fault VL - Low-Side	False	
Motor B Phase U Under Voltage Fault VDD - Low-Side	False	
Motor B Phase V Over Voltage Fault VH - High-Side	False	
Motor B Phase V Under Voltage Fault VH - High-Side	False	
Motor B Phase V Over Voltage Fault VL - High-Side	False	
Motor B Phase V Under Voltage Fault VL - High-Side	False	
Motor B Phase V Over Voltage Fault VDD - High-Side	False	
Motor B Phase V Under Voltage Fault VDD - High-Side	False	
Motor B Phase V Over Voltage Fault VH - Low-Side	False	
Motor B Phase V Under Voltage Fault VH - Low-Side	False	
Motor B Phase V Over Voltage Fault VL - Low-Side	False	
Motor B Phase V Under Voltage Fault VL - Low-Side	False	
Motor B Phase V Under Voltage Fault VDD - Low-Side	False	
Motor B Phase V Over Voltage Fault VDD - Low-Side	False	
Motor B Phase W Over Voltage Fault VH - High-Side	False	
Motor B Phase W Under Voltage Fault VH - High-Side	False	
Motor B Phase W Under Voltage Fault VL - High-Side	False	
Motor B Phase W Over Voltage Fault VL - High-Side	False	
Motor B Phase W Over Voltage Fault VDD - High-Side	False	
Motor B Phase W Under Voltage Fault VDD - High-Side	False	
Motor B Phase W Thermal Shutdown Fault - High-Side	False	
Motor B Phase W Over Voltage Fault VH - Low-Side	False	
Motor B Phase W Under Voltage Fault VH - Low-Side	False	
Motor B Phase W Over Voltage Fault VL - Low-Side	False	
Motor B Phase W Under Voltage Fault VL - Low-Side	False	
Motor B Phase W Over Voltage Fault VDD - Low-Side	False	
Motor B Phase W Under Voltage Fault VDD - Low-Side	False	
Original Odometer Value	1776.2	miles
Most Recent Odometer Value	1776.2	miles
Frequency Counter	1	
Ignition Cycle Counter	0	
RAM stamps keyOn	120	sec
Real time clock	22759332	sec
RAM Stamps	13120	Min
Accelerator Pedal Position	0	%
Engine Speed	0	rpm
HV Battery SOC	26	%
Barometric Pressure	15	PSI
Vehicle Speed	0.0000	MPH
Engine Coolant Temperature	73	°F

Electric Motor B Speed	0.0	rpm
Available Motor Torque - Motor B	0.000	Ft-Lbs
Actual Torque - Motor B	0.000	Ft-Lbs
Motor B - Inverter Current - phase A	0	AMP
Motor B - Inverter Current - phase B	-4	AMP
Inverter B Input DC Current	0.0	AMP
Motor B - Inverter Current - phase C	-4	AMP
Motor B Resolver Supply Voltage Value	03FD	Volts
Battery Feed Voltage 2 Sense	12.312	Volts
Internal EPS Voltage Sense A	0.216	Volts
Internal EPS Voltage Sense B	0.216	Volts
Battery Feed Voltage 1 Sense	12.240	Volts
Battery Feed Voltage 3 Sense	12.096	Volts
Actual Torque - Motor A	0.000	Ft-Lbs
Available Motor Torque - Motor A	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 C	0	AMP
Motor A - Inverter Current - phase B	-4	AMP
Motor A Resolver Angle	196	Degree
Outside Air Temperature	77.0	°F
Motor A Temp Sensor	79	°F
HV Battery Voltage from BPCM	180.00	Volts
Electric Motor A Speed	0.0	rpm
PIM DC Link Voltage - A	37	Volts
PIM DC Link Voltage - B	56	Volts
Inverter A IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase B	77	°F
Inverter A IGBT Temperature for phase C	77	°F
Inverter B IGBT Temperature for phase A	75	°F
Inverter B IGBT Temperature for phase B	75	°F
Inverter B IGBT Temperature for phase C	75	°F
Distance Travelled with Light ON	0	miles
Motor B Torque	0.000	Ft-Lbs
Motor A Torque	0.000	Ft-Lbs
HV Battery Sleep Time	0	Days
GPS Date - Month	1	
GPS Date - Year	0	Year
GPS Date - Day	1	Days
UTC Time - Hours	0	Hours
UTC Time - Seconds	0	seconds

UTC Time - Minutes	0	
ECU Time - Milliseconds	0	ms

HCP | P1AFC-00 | Active | MCPA Lost Communication With HCP-

NAME	VALUE	UNITS
DTC	1A FC 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
Pending DTC	True	
Test Failed Since Last Clear	True	
Test Not Completed Since Last Clear	False	
Warning Indicator Requested	True	
DTC Extended Data Record Number	05	
Test Not Completed This Operation Cycle	False	
Occurrence flag	Occurrence	
Confirmed DTC	True	
Brake Switch Status	Not Applied	
PHEV Charging Status	No Charging	
Ignition State	Reserved	
Propulsion System Active	False	
PRND Position Display	P	
Main Processor Reset Source - Core 0	Controller Specific Exceptions	
Main Processor Reset Source - Core 1	Power Up	
Static NVM CRC Status	Passed	
Preserved NVM CRC Status	Passed	
Adaptable NVM CRC Status	Passed	
Cumulative NVM CRC Status	Passed	
MCPUninit EEPROM CRC Status	Passed	
Expendable NVM CRC Status	Passed	
MCPInit EEPROM CRC Status	Passed	
HCP - MCPA SPI CRC Error Count	00	
Non Volatile RAM CRC Status	Passed	
BSW EEPROM CRC Status	Passed	
MCPB - MCPA SPI CRC Error Count	00	
HCP - MCPA SPI ARC Error Count	00	
MCPB - MCPA SPI ARC Error Count	00	
MemShare CRC Error Count- Core 0	02	
MemShare ARC Error Count- Core 1	03	
MemShare ARC Error Count- Core 0	00	
Main Stack Fault	False	
MemShare CRC Error Count- Core 1	FF	
Main Analog-to-Digital Converter Fault	False	
MainTPU_Flt	False	
Main Clock Fault	False	

External Watchdog Fault	False	
MAIN ALU Fault	False	
MAIN Detected SPI Fault	False	
Main Detected Seed Received In Wrong Order	False	
Hybrid System State	SNA	
HCP ePT Wake-Up Output	On	
EPT LOC Diag Enable	Enable LOC Diagnostic	
HV Contactor Status	Open	
CBC Wake-Up Input	Off	
APM Status	Idle	
Impact Event	False	
HCP System Shutdown Command	Default	
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
Real time clock	22759332	sec
Most Recent Odometer Value	1776.2	miles
Original Odometer Value	1776.2	miles
RAM stamps keyOn	120	sec
Frequency Counter	1	
RAM Stamps	13120	Min
Accelerator Pedal Position	0	%
Vehicle Speed	0.0000	MPH
Engine Speed	0	rpm
Ignition Cycle Counter	0	
Engine Coolant Temperature	73	°F
HV Battery SOC	26	%
Internal EPS Voltage Sense B	0.216	Volts
Battery Feed Voltage 2 Sense	12.312	Volts
Barometric Pressure	15	PSI
Internal EPS Voltage Sense A	0.216	Volts
Battery Feed Voltage 3 Sense	12.096	Volts
Battery Feed Voltage 1 Sense	12.240	Volts
Actual Torque - Motor B	0.000	Ft-Lbs
Actual Torque - Motor A	0.000	Ft-Lbs
Available Motor Torque - Motor A	13.643	Ft-Lbs
Available Motor Torque - Motor B	13.643	Ft-Lbs
Available Regen Torque - Motor A	-13.643	Ft-Lbs
Commanded Torque - Motor A	0.000	Ft-Lbs
Available Regen Torque - Motor B	-13.643	Ft-Lbs
Motor A - Inverter Current - phase A	0	AMP
Commanded Torque - Motor B	0.000	Ft-Lbs
Motor A - Inverter Current - phase B	-4	AMP
Motor B - Inverter Current - phase A	0	AMP
Motor B - Inverter Current - phase B	-4	AMP

Motor B - Inverter Current - phase C	-4	AMP
Motor A Resolver Angle	196	Degree
Motor A - Inverter Current - phase C	-4	AMP
Motor B Temp Sensor	77	°F
Motor A Temp Sensor	79	°F
Motor B Resolver Angle	146	Degree
Outside Air Temperature	77.0	°F
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	37	Volts
PIM DC Link Voltage - B	56	Volts
Inverter B IGBT Temperature for phase A	75	°F
Inverter A IGBT Temperature for phase B	77	°F
Inverter B IGBT Temperature for phase B	75	°F
Inverter A IGBT Temperature for phase C	77	°F
Inverter A IGBT Temperature for phase A	75	°F
Inverter B IGBT Temperature for phase C	75	°F
Motor B Torque	0.000	Ft-Lbs
Distance Travelled with Light ON	0	miles
GPS Date - Year	0	Year
HV Battery Sleep Time	0	Days
Motor A Torque	0.000	Ft-Lbs
GPS Date - Month	1	
GPS Date - Day	1	Days
UTC Time - Minutes	0	
UTC Time - Hours	0	Hours
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms

HCP | P1AFD-00 | Active | MCPA Lost Communication With MCPB-

NAME	VALUE	UNITS
DTC	1A FD 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	05	
Occurrence flag	Occurrence	
Brake Switch Status	Not Applied	

PHEV Charging Status	No Charging	
Ignition State	Reserved	
PRND Position Display	P	
Propulsion System Active	False	
Main Processor Reset Source - Core 0	Controller Specific Exceptions	
Static NVM CRC Status	Passed	
Main Processor Reset Source - Core 1	Power Up	
Cumulative NVM CRC Status	Passed	
Adaptable NVM CRC Status	Passed	
Preserved NVM CRC Status	Passed	
Expendable NVM CRC Status	Passed	
MCPInit EEPROM CRC Status	Passed	
MCPUninit EEPROM CRC Status	Passed	
HCP - MCPA SPI CRC Error Count	00	
Non Volatile RAM CRC Status	Passed	
BSW EEPROM CRC Status	Passed	
HCP - MCPA SPI ARC Error Count	00	
MemShare CRC Error Count- Core 0	02	
MCPB - MCPA SPI ARC Error Count	00	
MemShare CRC Error Count- Core 1	FF	
MemShare ARC Error Count- Core 1	03	
MemShare ARC Error Count- Core 0	00	
MCPB - MCPA SPI CRC Error Count	00	
Main Analog-to-Digital Converter Fault	False	
External Watchdog Fault	False	
MainTPU_Flt	False	
Main Clock Fault	False	
Main Stack Fault	False	
MAIN ALU Fault	False	
MAIN Detected SPI Fault	False	
Main Detected Seed Received In Wrong Order	False	
Hybrid System State	SNA	
HCP ePT Wake-Up Output	On	
CBC Wake-Up Input	Off	
EPT LOC Diag Enable	Enable LOC Diagnostic	
HV Contactor Status	Open	
Impact Event	False	
APM Status	Idle	
HCP System Shutdown Command	Default	
OBCM Operating Mode	UTC	
J1772 Prox Detected State	Prox Out	
Ignition Cycle Counter	0	
Most Recent Odometer Value	1776.2	miles
Original Odometer Value	1776.2	miles

Real time clock	22759332	sec
Frequency Counter	1	
RAM stamps keyOn	120	sec
HV Battery SOC	26	%
RAM Stamps	13120	Min
Accelerator Pedal Position	0	%
Vehicle Speed	0.0000	MPH
Engine Speed	0	rpm
Barometric Pressure	15	PSI
Battery Feed Voltage 2 Sense	12.312	Volts
Engine Coolant Temperature	73	°F
Internal EPS Voltage Sense B	0.216	Volts
Internal EPS Voltage Sense A	0.216	Volts
Battery Feed Voltage 1 Sense	12.240	Volts
Actual Torque - Motor A	0.000	Ft-Lbs
Battery Feed Voltage 3 Sense	12.096	Volts
Available Motor Torque - Motor A	12.998	Ft-Lbs
Actual Torque - Motor B	0.000	Ft-Lbs
Available Regen Torque - Motor B	-12.998	Ft-Lbs
Available Motor Torque - Motor B	12.998	Ft-Lbs
Available Regen Torque - Motor A	-12.998	Ft-Lbs
Commanded Torque - Motor B	0.000	Ft-Lbs
Commanded Torque - Motor A	0.000	Ft-Lbs
Motor A - Inverter Current - phase A	0	AMP
Motor B - Inverter Current - phase A	0	AMP
Motor A - Inverter Current - phase B	-4	AMP
Motor A - Inverter Current - phase C	0	AMP
Motor B - Inverter Current - phase B	0	AMP
Motor A Resolver Angle	196	Degree
Motor B - Inverter Current - phase C	0	AMP
Motor B Temp Sensor	77	°F
Outside Air Temperature	77.0	°F
Motor B Resolver Angle	146	Degree
Motor A Temp Sensor	79	°F
Electric Motor A Speed	0.0	rpm
HV Battery Voltage from BPCM	180.00	Volts
Electric Motor B Speed	0.0	rpm
Inverter A IGBT Temperature for phase A	75	°F
PIM DC Link Voltage - A	37	Volts
PIM DC Link Voltage - B	56	Volts
Inverter A IGBT Temperature for phase B	77	°F
Inverter A IGBT Temperature for phase C	77	°F
Inverter B IGBT Temperature for phase C	75	°F
Inverter B IGBT Temperature for phase A	75	°F

Inverter B IGBT Temperature for phase B	75	°F
Distance Travelled with Light ON	0	miles
Motor A Torque	0.000	Ft-Lbs
HV Battery Sleep Time	0	Days
Motor B Torque	0.000	Ft-Lbs
GPS Date - Month	1	
GPS Date - Day	1	Days
GPS Date - Year	0	Year
UTC Time - Hours	0	Hours
UTC Time - Minutes	0	
UTC Time - Seconds	0	seconds
ECU Time - Milliseconds	0	ms

HCP | U0623-00 | Active | Lost Communication with Coolant Pump "A"-

NAME	VALUE	UNITS
DTC	C6 23 00	
Pending DTC	True	
Test Failed	True	
Test Failed This Operation Cycle	True	
Confirmed DTC	False	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	True	
Occurrence flag		
Test Not Completed This Operation Cycle	False	
Warning Indicator Requested	False	
Brake Switch Status		
PHEV Charging Status		
PRND Position Display		
Propulsion System Active		
Ignition State		
High Temperature Shut-Off Valve Status		
Front Refrigerant Shut-Off Valve Status		
Thermal System Enable State		
Chiller Shut-Off Valve Status		
Hybrid System State		
CBC Wake-Up Input		
EPT LOC Diag Enable		
HV Contactor Status		
APM Status		
Impact Event		
HCP System Shutdown Command		
OBCM Operating Mode		
J1772 Prox Detected State		
Real time clock		sec

Most Recent Odometer Value		miles
RAM Stamps		Min
Frequency Counter		
Accelerator Pedal Position		%
Engine Speed		rpm
Original Odometer Value		miles
RAM stamps keyOn		sec
Barometric Pressure		PSI
HV Battery SOC		%
Passive Pump Coolant Temp In Sensor		°F
Vehicle Speed		MPH
Engine Coolant Temperature		°F
Heater Core Coolant Temp Sensor		°F
A/C Refrigerant Pressure		PSI
Electric Coolant Heater Temp Sensor		°F
High Temp Cabin Valve Feedback		degrees
Outside Air Temperature		°F
Ignition Cycle Counter		
EAC Compressor Speed		rpm
Motor B Temp Sensor		°F
Motor A Temp Sensor		°F
Battery Feed Voltage 3 Sense		Volts
Radiator Fan Duty Cycle		%
HV Coolant Heater - Measured Coolant Outlet Temp		°F
HV Coolant Heater - Measured Coolant Inlet Temp		°F
Low Temp Passive Pump - Temperature		°F
Internal EPS Voltage Sense A		Volts
Battery Feed Voltage 2 Sense		Volts
Internal EPS Voltage Sense B		Volts
Low Temp Active Pump - Temperature		°F
Battery Feed Voltage 1 Sense		Volts
Available Motor Torque - Motor A		Ft-Lbs
Actual Torque - Motor B		Ft-Lbs
Available Regen Torque - Motor B		Ft-Lbs
Commanded Torque - Motor A		Ft-Lbs
Available Motor Torque - Motor B		Ft-Lbs
Available Regen Torque - Motor A		Ft-Lbs
Motor A - Inverter Current - phase B		AMP
Commanded Torque - Motor B		Ft-Lbs
Motor A - Inverter Current - phase C		AMP
Motor B - Inverter Current - phase B		AMP
Motor B - Inverter Current - phase C		AMP
PIM DC Link Voltage - B		Volts
Inverter A IGBT Temperature for phase A		°F

Motor A Resolver Angle		Degree
Motor B Resolver Angle		Degree
Electric Motor A Speed		rpm
Motor A - Inverter Current - phase A		AMP
HV Battery Voltage from BPCM		Volts
PIM DC Link Voltage - A		Volts
Motor B - Inverter Current - phase A		AMP
Inverter A IGBT Temperature for phase C		°F
Inverter A IGBT Temperature for phase B		°F
Inverter B IGBT Temperature for phase B		°F
Inverter B IGBT Temperature for phase C		°F
Electric Motor B Speed		rpm
Inverter B IGBT Temperature for phase A		°F
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
GPS Date - Month		
Motor B Torque		Ft-Lbs
HV Battery Sleep Time		Days
UTC Time - Minutes		
UTC Time - Seconds		seconds
GPS Date - Day		Days
GPS Date - Year		Year
UTC Time - Hours		Hours
ECU Time - Milliseconds		ms

SNAPSHOT DATA SUMMARY

No Snapshot Data available for P0113

No Snapshot Data available for C2225-00

No Snapshot Data available for U0002-00

No Snapshot Data available for P0AA4-00

No Snapshot Data available for P0642-00

No Snapshot Data available for P0652-00

No Snapshot Data available for P06B1-00

No Snapshot Data available for P06B4-00

No Snapshot Data available for P0A78-00

No Snapshot Data available for P0A79-00

No Snapshot Data available for P1AEC-00

No Snapshot Data available for P1AED-00

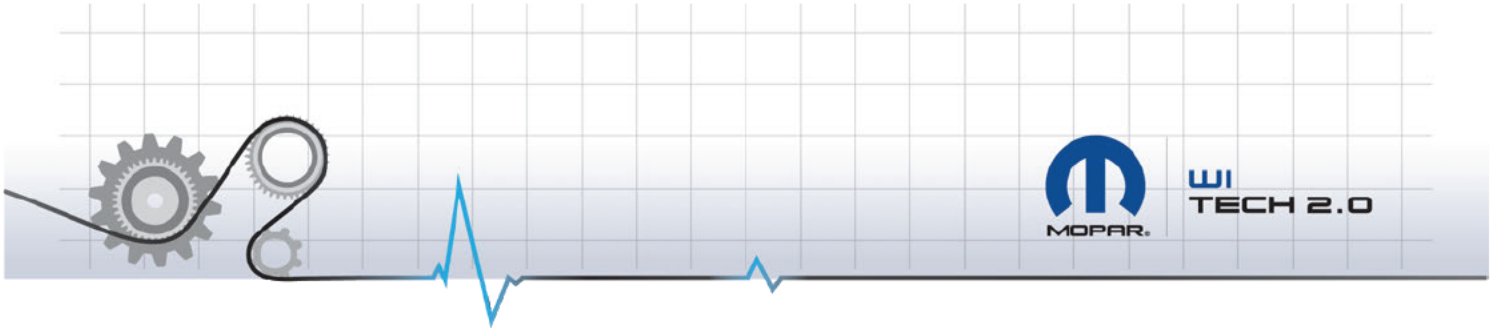
No Snapshot Data available for P1AEE-00

No Snapshot Data available for P1AEF-00

No Snapshot Data available for P1AFC-00

No Snapshot Data available for P1AFD-00

No Snapshot Data available for U0623-00



VEHICLE SCAN REPORT

Vehicle 2020 CHRYSLER PACIFICA (PHEV) 3.6L V6 HYBRID ENGINE
VIN [redacted]

Odometer 1776.2 miles
Publication Date Aug 26, 2021, 2:32:09 PM

ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	[redacted]	[redacted]	PART #
PCM	Powertrain Control Module	CAN-C	68444228AE			68444228AE
ICS	Integrated Center Stack	CAN-I	6UX621X8AA			6UX621X8AA
RFH	Radio Frequency Hub	CAN-C	68453559AB			68453559AB
ESM	Electronic Shifter	CAN-C	68240089AM			68240089AM
ORC	Occupant Restraint	CAN-C	68453076AD			68453076AD
EPS	Electric Power Steering	CAN-C	68460392AA			68460392AA
HVAC	Heat, Ventilation and A/C	CAN-I	68447893AC			68447893AC
DDM	Driver Door Module	CAN-I	68424449AC			68424449AC
PDM	Passenger Door Module	CAN-I	68424448AC			68424448AC
DMRL	Door Module Rear Left	CAN-I	68225096AG			68225096AG
DMRR	Door Module Rear Right	CAN-I	68225096AG			68225096AG
PSDML	Power Sliding Doors (Left)	CAN-I	68369596AD			68369596AD
PSDMR	Power Sliding Doors (Right)	CAN-I	68369596AD			68369596AD
MSM	Memory Seat Module	CAN-I	68321862AC			68321862AC
PLGM	Power Liftgate	CAN-I	68316094AF			68316094AF
CSWM	Comfort Seat Wheel Module	CAN-I	68434912AC			68434912AC
AMP	Amplifier	CAN-I	68448067AA			68448067AA
IPC	Instrument Panel Cluster	CAN-C	68434956AC			68434956AC
PTS	Parktronics	CAN-C	68193775AJ			68193775AJ
SCCM	Steering Column Control Module	CAN-C	68360889AD			68360889AD
BCM	Body Controller	CAN-C	68424601AE			68424601AE

ACC	Adaptive Cruise Control	CAN-C	68417813AF	[redacted]	[redacted]	68417813AF
RADIO	Radio	CAN-I	68461768AD			68461768AD
OCM	Occupant Classification	CAN-C	68403127AA			68403127AA
HVACR	Heat, Ventilation and A/C Rear	CAN-I	68373079AB			68373079AB
LBSS	Left Blind Spot Sensor	CAN-I	04672786AB			04672786AB
RBSS	Right Blind Spot Sensor	CAN-I	04672786AB			04672786AB
FFCM	Forward Facing Camera Module	CAN-C	68493395AA			68493395AA
EDM	External Disc Module	CAN-I	68378304AA			68378304AA
APM	Accessory Power Module	CAN-C	05185046AB			05185046AB
BPCM	Battery Pack Control Module	CAN-C	05193166AD			05193166AD
HCP	Hybrid Control Processor	CAN-C	05190265AF			05190265AF
OBCM	On Board Charging Module	CAN-C	05185047AE			05185047AE
MSMP	Memory Seat Module - Passenger	CAN-I	68321862AC			68321862AC
DSM	Display Screen Module	CAN-I	68316174AC			68316174AC
VRM	Video Routing Module	CAN-I	68376134AG			68376134AG
RCCC	Rear Cabin Comfort Controls	CAN-I	6WL30PD2AA			6WL30PD2AA
CVPM	Central vision processing module	CAN-I	68375113AB			68375113AB
EAC	Electric A/C Compressor	CAN-C	68237995AG			68237995AG
AHCP	Auxiliary Hybrid Control Processor	CAN-C	05190174AM			**********
EBBM	Electronic Brake Booster Module	CAN-C	68461813AB			68461813AB
ABSO	Anti Lock Brakes OBD	CAN-C	68471122AD			68471122AD
SGW	Security Gateway Module	CAN-C	68447193AB			68447193AB

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	CVNS
PCM	USA	1B 47	46 03 01	4419	
ICS	USA	0F 0C 00	12 25 00	4700	
RFH	USA / USA	10 17 00	13 09 00	4A00	
ESM	USA / USA	0F 24 00	12 28 FF	4402	
ORC	USA / USA	12 1A 00	13 2E 00	4301	
EPS	USA / USA	12 2A 00	12 1E 01	4502	

HVAC	USA	0E 09 00	13 05 01	4401	
DDM	USA	11 07 00	13 0B 00	4202	
PDM	USA	11 07 00	13 0B 00	4202	
DMRL	USA / USA	10 0B 00	12 0C 00	4201	
DMRR	USA / USA	10 0B 00	12 0C 00	4201	
PSDML	USA / USA	10 17 00	14 10 12	4001	
PSDMR	USA / USA	10 17 00	14 10 12	4001	
MSM	USA	0F 2B 00	10 27 03	4101	
PLGM	USA	17 19 00	18 22 00	4202	
CSWM	USA	11 2A 00	13 2C 00	4302	
AMP	USA	0F 06 01	12 2E 01	4021	
IPC	USA / USA	12 06 00	13 27 00	4704	
PTS	USA	0E 32 00	12 1F 00	4311	
SCCM	USA	13 28 00	13 29 00	4301	
BCM	USA	0D 11 00	13 2C 90	4415	
ACC	USA / USA	14 12 01	14 1D 01	4400	
RADIO	USA	13 31 14	13 31 14	8205	
OCM	USA / USA	11 1F 01	0E 2F 02	4030	
HVACR	USA	0E 09 00	10 03 02	4301	
LBSS	USA / USA	11 30 02	12 0D 00	4202	
RBSS	USA / USA	11 30 02	12 0D 00	4202	
FFCM	USA / USA	11 06 00	13 1E 00	4102	
EDM	USA	12 0A 00	11 08 00	4000	
APM	USA / USA	11 32 00	11 32 00	4001	
BPCM	Not programmed / COUNTRY_SNA	0E 03 00	13 18 03	4005	
HCP	USA	11 1F 04	19 48 01	4005	
OBCM	USA	0F 0D 00	12 02 00	4002	
MSMP	USA	0F 2B 00	10 27 03	4001	
DSM	USA / USA	13 29 00	12 23 00	4000	
VRM	USA / USA	0F 1C 00	13 26 11	4001	
RCCC	USA	0F 1D 00	13 04 00	4000	
CVPM	USA / USA	11 32 01	12 33 00	4003	
EAC	USA	0E 34 00	12 0F 00	4102	
AHCP	—	11 1F 04	FF FF FF	40FF	
EBBM	USA	0E 19 02	14 0D 18	4000	E5898FA5
ABSO	USA	0E 15 02	14 1B 26	4201	4F158D1B
SGW		5	779	4103	

DTC SUMMARY

ECU	DTC CODE	DTC DESCRIPTION	STATUS
BCM	U151A-87	Hybrid Control Processor Secret Code-Missing Message	Active
HCP	P16F0-00	SPI Comm Hardware Fault-	Active
HCP	P16F1-00	Internal SPI Communication-	Active
HCP	P1A11-00	Secret Key Not Stored in ECU-	Active

HCP	U0623-00	Lost Communication with Coolant Pump "A"-	Pending
ABSO	C2222-00	Improper Powerdown-	Active

ENVIRONMENTAL DATA SUMMARY

BCM | U151A-87 | Active | Hybrid Control Processor Secret Code-Missing Message

NAME	VALUE	UNITS
Test Failed	True	
Test Failed This Operation Cycle	True	
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	1770	miles
Most Recent Odometer Value	1770	miles
Frequency Counter	1	
Ignition Cycle Counter	0	

HCP | P16F0-00 | Active | SPI Comm Hardware Fault-

NAME	VALUE	UNITS
DTC	—	
Test Failed	—	
Test Failed This Operation Cycle	—	
Pending DTC	—	
Confirmed DTC	—	
Test Not Completed Since Last Clear	—	
Test Failed Since Last Clear	—	
Test Not Completed This Operation Cycle	—	
Warning Indicator Requested	—	
DTC Extended Data Record Number	—	
Occurrence flag	—	
Original Odometer Value	—	miles
Most Recent Odometer Value	—	miles
Frequency Counter	—	
Ignition Cycle Counter	—	
Real time clock	—	sec
RAM stamps keyOn	—	sec
RAM Stamps	—	Min
Accelerator Pedal Position	—	%
Brake Switch Status	—	

PHEV Charging Status	—	
Engine Speed	—	rpm
HV Battery SOC	—	%
Ignition State	—	
PRND Position Display	—	
Propulsion System Active	—	
Vehicle Speed	—	MPH
Barometric Pressure	—	PSI
Engine Coolant Temperature	—	°F
Main Processor Reset Source - Core 0	—	
Main Processor Reset Source - Core 1	—	
Static NVM CRC Status	—	
Cumulative NVM CRC Status	—	
Adaptable NVM CRC Status	—	
Preserved NVM CRC Status	—	
Expendable NVM CRC Status	—	
MCPUninit EEPROM CRC Status	—	
MCPInit EEPROM CRC Status	—	
Non Volatile RAM CRC Status	—	
BSW EEPROM CRC Status	—	
HCP - MCPA SPI CRC Error Count	—	
HCP - MCPA SPI ARC Error Count	—	
MCPB - MCPA SPI CRC Error Count	—	
MCPB - MCPA SPI ARC Error Count	—	
MemShare CRC Error Count- Core 0	—	
MemShare ARC Error Count- Core 0	—	
MemShare CRC Error Count- Core 1	—	
MemShare ARC Error Count- Core 1	—	
Main Stack Fault	—	
Main Analog-to-Digital Converter Fault	—	
External Watchdog Fault	—	
MainTPU_Flt	—	
Main Clock Fault	—	
MAIN ALU Fault	—	
MAIN Detected SPI Fault	—	
Main Detected Seed Received In Wrong Order	—	
Battery Feed Voltage 2 Sense	—	Volts
Internal EPS Voltage Sense A	—	Volts
Internal EPS Voltage Sense B	—	Volts
Battery Feed Voltage 1 Sense	—	Volts
Battery Feed Voltage 3 Sense	—	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
HCP ePT Wake-Up Output	—	
CBC Wake-Up Input	—	
EPT LOC Diag Enable	—	
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	—	
HCP System Shutdown Command	—	
Distance Travelled with Light ON	—	miles
Motor A Torque	—	Ft-Lbs
Motor B Torque	—	Ft-Lbs
OBCM Operating Mode	—	
J1772 Prox Detected State	—	
HV Battery Sleep Time	—	Days
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 | P16F1-00 | Active | Internal SPI Communication-

NAME	VALUE	UNITS
DTC	—	
Test Failed	—	
Test Failed This Operation Cycle	—	
Pending DTC	—	
Confirmed DTC	—	
Test Not Completed Since Last Clear	—	
Test Failed Since Last Clear	—	
Test Not Completed This Operation Cycle	—	
Warning Indicator Requested	—	
DTC Extended Data Record Number	—	
Occurrence flag	—	
Original Odometer Value	—	miles
Most Recent Odometer Value	—	miles
Frequency Counter	—	
Ignition Cycle Counter	—	
Real time clock	—	sec
RAM stamps keyOn	—	sec
RAM Stamps	—	Min
Accelerator Pedal Position	—	%
Brake Switch Status	—	
PHEV Charging Status	—	
Engine Speed	—	rpm
HV Battery SOC	—	%
Ignition State	—	
PRND Position Display	—	
Propulsion System Active	—	
Vehicle Speed	—	MPH
Barometric Pressure	—	PSI
Engine Coolant Temperature	—	°F
Main Processor Reset Source - Core 0	—	
Main Processor Reset Source - Core 1	—	
Static NVM CRC Status	—	
Cumulative NVM CRC Status	—	
Adaptable NVM CRC Status	—	
Preserved NVM CRC Status	—	
Expendable NVM CRC Status	—	
MCPUninit EEPROM CRC Status	—	

MCPInit EEPROM CRC Status	—	
Non Volatile RAM CRC Status	—	
BSW EEPROM CRC Status	—	
HCP - MCPA SPI CRC Error Count	—	
HCP - MCPA SPI ARC Error Count	—	
MCPB - MCPA SPI CRC Error Count	—	
MCPB - MCPA SPI ARC Error Count	—	
MemShare CRC Error Count- Core 0	—	
MemShare ARC Error Count- Core 0	—	
MemShare CRC Error Count- Core 1	—	
MemShare ARC Error Count- Core 1	—	
Main Stack Fault	—	
Main Analog-to-Digital Converter Fault	—	
External Watchdog Fault	—	
MainTPU_Flt	—	
Main Clock Fault	—	
MAIN ALU Fault	—	
MAIN Detected SPI Fault	—	
Main Detected Seed Received In Wrong Order	—	
Battery Feed Voltage 2 Sense	—	Volts
Internal EPS Voltage Sense A	—	Volts
Internal EPS Voltage Sense B	—	Volts
Battery Feed Voltage 1 Sense	—	Volts
Battery Feed Voltage 3 Sense	—	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

HCP ePT Wake-Up Output	—	
CBC Wake-Up Input	—	
EPT LOC Diag Enable	—	
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	—	
HCP System Shutdown Command	—	
Distance Travelled with Light ON	—	miles
Motor A Torque	—	Ft-Lbs
Motor B Torque	—	Ft-Lbs
OBCM Operating Mode	—	
J1772 Prox Detected State	—	
HV Battery Sleep Time	—	Days
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 | P1A11-00 | Active | Secret Key Not Stored in ECU-

NAME	VALUE	UNITS
DTC	—	
Test Failed	—	
Test Failed This Operation Cycle	—	
Pending DTC	—	
Confirmed DTC	—	
Test Not Completed Since Last Clear	—	
Test Failed Since Last Clear	—	
Test Not Completed This Operation Cycle	—	
Warning Indicator Requested	—	
Occurrence flag	—	

Original Odometer Value	—	miles
Most Recent Odometer Value	—	miles
Frequency Counter	—	
Ignition Cycle Counter	—	
Real time clock	—	sec
RAM stamps keyOn	—	sec
RAM Stamps	—	Min
Accelerator Pedal Position	—	%
Brake Switch Status	—	
Engine Speed	—	rpm
HV Battery SOC	—	%
Ignition State	—	
PRND Position Display	—	
Propulsion System Active	—	
Vehicle Speed	—	MPH
Motor A Temp Sensor	—	°F
Motor B Temp Sensor	—	°F
Barometric Pressure	—	PSI
Engine Coolant Temperature	—	°F
Internal EPS Voltage Sense A	—	Volts
Internal EPS Voltage Sense B	—	Volts
Motor A Torque	—	Ft-Lbs
Motor B Torque	—	Ft-Lbs
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 B Resolver Angle	—	Degree
Motor A Resolver Angle	—	Degree
Electric Motor A Speed	—	rpm
Electric Motor B Speed	—	rpm
PIM DC Link Voltage - A	—	Volts
PIM DC Link Voltage - B	—	Volts
HCP ePT Wake-Up Output	—	

CBC Wake-Up Input	—	
HCP System Shutdown Command	—	
HV Battery Voltage from BPCM	—	Volts
SW Build Release Version	—	
HCP SW Version	—	
EPT LOC Diag Enable	—	
HV Contactor Status	—	
APM Status	—	
Impact Event	—	
Outside Air Temperature	—	°F
OBCM Operating Mode	—	
J1772 Prox Detected State	—	
HV Battery Sleep Time	—	Days
Battery Feed Voltage 1 Sense	—	Volts
Battery Feed Voltage 2 Sense	—	Volts
Battery Feed Voltage 3 Sense	—	Volts
Hybrid System State	—	
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
PHEV Charging Status	—	
Distance Travelled with Light ON	—	miles
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 | U0623-00 | Pending | Lost Communication with Coolant Pump "A"-

NAME	VALUE	UNITS
DTC	C6 23 00	
Test Failed	False	
Test Failed This Operation Cycle	True	
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	

Occurrence flag		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Brake Switch Status		
PHEV Charging Status		
Engine Speed		rpm
HV Battery SOC		%
Ignition State		
PRND Position Display		
Propulsion System Active		
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
A/C Refrigerant Pressure		PSI
Passive Pump Coolant Temp In Sensor		°F
Electric Coolant Heater Temp Sensor		°F
Heater Core Coolant Temp Sensor		°F
Motor A Temp Sensor		°F
Motor B Temp Sensor		°F
Outside Air Temperature		°F
Thermal System Enable State		
EAC Compressor Speed		rpm
High Temperature Shut-Off Valve Status		
Front Refrigerant Shut-Off Valve Status		
High Temp Cabin Valve Feedback		degrees
Chiller Shut-Off Valve Status		
Radiator Fan Duty Cycle		%
HV Coolant Heater - Measured Coolant Inlet Temp		°F
HV Coolant Heater - Measured Coolant Outlet Temp		°F
Low Temp Passive Pump - Temperature		°F
Low Temp Active Pump - Temperature		°F
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		
Battery Feed Voltage 1 Sense		Volts
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
CBC Wake-Up Input		
EPT LOC Diag Enable		
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		
HCP System Shutdown Command		
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
OBCM Operating Mode		
J1772 Prox Detected State		
HV Battery Sleep Time		Days
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

ABSO | C2222-00 | Active | Improper Powerdown-

NAME	VALUE	UNITS
DTC	62 22 00	
Test Failed	True	
Test Failed This Operation Cycle	False	
Pending DTC	False	
Confirmed DTC	False	
Test Not Completed Since Last Clear	False	
Test Failed Since Last Clear	False	
Test Not Completed This Operation Cycle	True	
Warning Indicator Requested	True	
Occurrence flag		
Controller Event		
Mirror Memory		
Undervoltage Suspected		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Fault Time		S
Current System Mode		
Previous System Mode		
System Condition		
Supply Voltage Valves		V
Brake Pedal Status		
Supply voltage Pump		V
Brake Pedal Travel Sensor Position		%
Ignition Unfiltered		V
Wheel Speed Left Front		MPH
Rotation Direction Left Front		
Wheel Speed Right Front		MPH
Rotation Direction Right Front		
Wheel Speed Left Rear		MPH
Rotation Direction Left Rear		
Wheel Speed Right Rear		MPH
Rotation Direction Right Rear		
Steering Wheel Angle		°
Longitudinal Acceleration		m/s^2
Lateral Acceleration		m/s^2
Yaw Rate		°/s
Primary Circuit Pressure		PSI
Engine Speed		rpm
Accelerator Pedal Position		%
ABS control		

ASR control		
MSR control		
EBV control		
ESP Control		
HSA control		
HBA control		
Hold		
Braking assistance system		
Plant Mode		
EPB Mode Status		
BLS High		
BLS Low		
Park Brake		
ESP-OFF mode		
Clutch		
Stop Coordinator Active		
Actual Gear		
Transmission selector lever setting		
Status Parking Brake Left		
Status Parking Brake Right		
EPB Switch Status		
Supplier Internal Code		

SNAPSHOT DATA SUMMARY

No Snapshot Data available for U151A-87

No Snapshot Data available for P16F0-00

No Snapshot Data available for P16F1-00

No Snapshot Data available for P1A11-00

No Snapshot Data available for U0623-00

No Snapshot Data available for C2222-00

VEHICLE SCAN REPORT

Vehicle 2020 CHRYSLER PACIFICA (PHEV) 3.6L V6 HYBRID ENGINE
VIN [redacted]

Odometer 1776.2 miles
Publication Date Aug 26, 2021, 4:40:43 PM

ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	[redacted]	[redacted]	PART #
PCM	Powertrain Control Module	CAN-C	68444228AE			68444228AE
ICS	Integrated Center Stack	CAN-I	6UX621X8AA			6UX621X8AA
RFH	Radio Frequency Hub	CAN-C	68453559AB			68453559AB
ESM	Electronic Shifter	CAN-C	68240089AM			68240089AM
ORC	Occupant Restraint	CAN-C	68453076AD			68453076AD
EPS	Electric Power Steering	CAN-C	68460392AA			68460392AA
HVAC	Heat, Ventilation and A/C	CAN-I	68447893AC			68447893AC
DDM	Driver Door Module	CAN-I	68424449AC			68424449AC
PDM	Passenger Door Module	CAN-I	68424448AC			68424448AC
DMRL	Door Module Rear Left	CAN-I	68225096AG			68225096AG
DMRR	Door Module Rear Right	CAN-I	68225096AG			68225096AG
PSDML	Power Sliding Doors (Left)	CAN-I	68369596AD			68369596AD
PSDMR	Power Sliding Doors (Right)	CAN-I	68369596AD			68369596AD
MSM	Memory Seat Module	CAN-I	68321862AC			68321862AC
PLGM	Power Liftgate	CAN-I	68316094AF			68316094AF
CSWM	Comfort Seat Wheel Module	CAN-I	68434912AC			68434912AC
AMP	Amplifier	CAN-I	68448067AA			68448067AA
IPC	Instrument Panel Cluster	CAN-C	68434956AC			68434956AC
PTS	Parktronics	CAN-C	68193775AJ			68193775AJ
SCCM	Steering Column Control Module	CAN-C	68360889AD			68360889AD
BCM	Body Controller	CAN-C	68424601AE			68424601AE

ACC	Adaptive Cruise Control	CAN-C	68417813AF	[redacted]	[redacted]		68417813AF
RADIO	Radio	CAN-I	68461768AD				68461768AD
OCM	Occupant Classification	CAN-C	68403127AA				68403127AA
HVACR	Heat, Ventilation and A/C Rear	CAN-I	68373079AB				68373079AB
LBSS	Left Blind Spot Sensor	CAN-I	04672786AB				04672786AB
RBSS	Right Blind Spot Sensor	CAN-I	04672786AB				04672786AB
FFCM	Forward Facing Camera Module	CAN-C	68493395AA				68493395AA
EDM	External Disc Module	CAN-I	68378304AA				68378304AA
APM	Accessory Power Module	CAN-C	05185046AB				05185046AB
BPCM	Battery Pack Control Module	CAN-C	05193166AF				05193166AF
HCP	Hybrid Control Processor	CAN-C	05190265AF				05190265AF
OBCM	On Board Charging Module	CAN-C	05185047AE				05185047AE
MSMP	Memory Seat Module - Passenger	CAN-I	68321862AC				68321862AC
DSM	Display Screen Module	CAN-I	68316174AC				68316174AC
VRM	Video Routing Module	CAN-I	68376134AG				68376134AG
RCCC	Rear Cabin Comfort Controls	CAN-I	6WL30PD2AA				6WL30PD2AA
CVPM	Central vision processing module	CAN-I	68375113AB				68375113AB
EAC	Electric A/C Compressor	CAN-C	68237995AG				68237995AG
AHCP	Auxiliary Hybrid Control Processor	CAN-C	05190266AF				05190266AF
EBBM	Electronic Brake Booster Module	CAN-C	68461813AB				68461813AB
ABSO	Anti Lock Brakes OBD	CAN-C	68471122AD				68471122AD
SGW	Security Gateway Module	CAN-C	68447193AB				68447193AB

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	CVNS
PCM	USA	1B 47	46 03 01	4419	31D751B0
ICS	USA	0F 0C 00	12 25 00	4700	
RFH	USA / USA	10 17 00	13 09 00	4A00	
ESM	USA / USA	0F 24 00	12 28 FF	4402	
ORC	USA / USA	12 1A 00	13 2E 00	4301	
EPS	USA / USA	12 2A 00	12 1E 01	4502	

HVAC	USA	0E 09 00	13 05 01	4401	
DDM	USA	11 07 00	13 0B 00	4202	
PDM	USA	11 07 00	13 0B 00	4202	
DMRL	USA / USA	10 0B 00	12 0C 00	4201	
DMRR	USA / USA	10 0B 00	12 0C 00	4201	
PSDML	USA / USA	10 17 00	14 10 12	4001	
PSDMR	USA / USA	10 17 00	14 10 12	4001	
MSM	USA	0F 2B 00	10 27 03	4101	
PLGM	USA	17 19 00	18 22 00	4202	
CSWM	USA	11 2A 00	13 2C 00	4302	
AMP	USA	0F 06 01	12 2E 01	4021	
IPC	USA / USA	12 06 00	13 27 00	4704	
PTS	USA	0E 32 00	12 1F 00	4311	
SCCM	USA	13 28 00	13 29 00	4301	
BCM	USA	0D 11 00	13 2C 90	4415	
ACC	USA / USA	14 12 01	14 1D 01	4400	
RADIO	USA	13 31 14	13 31 14	8205	
OCM	USA / USA	11 1F 01	0E 2F 02	4030	
HVACR	USA	0E 09 00	10 03 02	4301	
LBSS	USA / USA	11 30 02	12 0D 00	4202	
RBSS	USA / USA	11 30 02	12 0D 00	4202	
FFCM	USA / USA	11 06 00	13 1E 00	4102	
EDM	USA	12 0A 00	11 08 00	4000	
APM	USA / USA	11 32 00	11 32 00	4001	
BPCM	Not programmed / COUNTRY_SNA	0E 03 00	14 17 00	4005	
HCP	USA	11 1F 04	19 48 01	4005	
OBCM	USA	0F 0D 00	12 02 00	4002	
MSMP	USA	0F 2B 00	10 27 03	4001	
DSM	USA / USA	13 29 00	12 23 00	4000	
VRM	USA / USA	0F 1C 00	13 26 11	4001	
RCCC	USA	0F 1D 00	13 04 00	4000	
CVPM	USA / USA	11 32 01	12 33 00	4003	
EAC	USA	0E 34 00	12 0F 00	4102	
AHCP	USA	11 1F 04	19 48 01	4000	
EBBM	USA	0E 19 02	14 0D 18	4000	E5898FA5
ABSO	USA	0E 15 02	14 1B 26	4201	4F158D1B
SGW		5	779	4103	

DTC SUMMARY

ECU	DTC CODE	DTC DESCRIPTION	STATUS
HCP	P0E15-00	Hybrid/EV Battery Pack Coolant Heater "A" Control Performance-	Active

ENVIRONMENTAL DATA SUMMARY

HCP | P0E15-00 | Active | Hybrid/EV Battery Pack Coolant Heater "A" Control Performance-

NAME	VALUE	UNITS
DTC	0E 15 00	
Test Failed	True	
Test Failed This Operation Cycle	True	
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	
Occurrence flag		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
Real time clock		sec
RAM stamps keyOn		sec
RAM Stamps		Min
Accelerator Pedal Position		%
Brake Switch Status		
PHEV Charging Status		
Engine Speed		rpm
HV Battery SOC		%
Ignition State		
PRND Position Display		
Propulsion System Active		
Vehicle Speed		MPH
Barometric Pressure		PSI
Engine Coolant Temperature		°F
HV Coolant Heater - Below 60V		
HV Coolant Heater - Measured Coolant Inlet Temp		°F
HV Coolant Heater - Measured Coolant Outlet Temp		°F
HV Coolant Heater - Actual Current Consumption		AMP
HV Coolant Heater - Measured High Voltage		Volts
HV Coolant Heater - Actual Calculated Power Consumption		W
HV Coolant Heater - Desired Power Consumption		W
HV Coolant Heater - Response Error		
HV Coolant Heater - Communication Error (SPI Interface Issue)		
HV Coolant Heater - High Voltage Out of Range		
HV Coolant Heater - Low Voltage Out of Range		
HV Coolant Heater - Coolant Temp Out of Range		
HV Coolant Heater - HV Protection		
HV Coolant Heater - Overheat Protection		
HV Coolant Heater - Coolant Inlet Temp Sensor Defect		

HV Coolant Heater - Coolant Outet Temp Sensor Defect		
HV Coolant Heater - Heater Core Temp Sensor Defect		
HV Coolant Heater - Short or Open Circuit at IGBTs		
HV Coolant Heater - Current Consumption at High Voltage Out of Range		
HV Coolant Heater - Memory Error		
HV Coolant Heater - DC/DC Voltage Out of Range		
Battery Feed Voltage 2 Sense		Volts
Battery Feed Voltage 3 Sense		Volts
Internal EPS Voltage Sense A		Volts
Internal EPS Voltage Sense B		Volts
Motor A - Inverter Current - phase A		AMP
Hybrid System State		
Battery Feed Voltage 1 Sense		Volts
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 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
HCP ePT Wake-Up Output		
CBC Wake-Up Input		
EPT LOC Diag Enable		
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

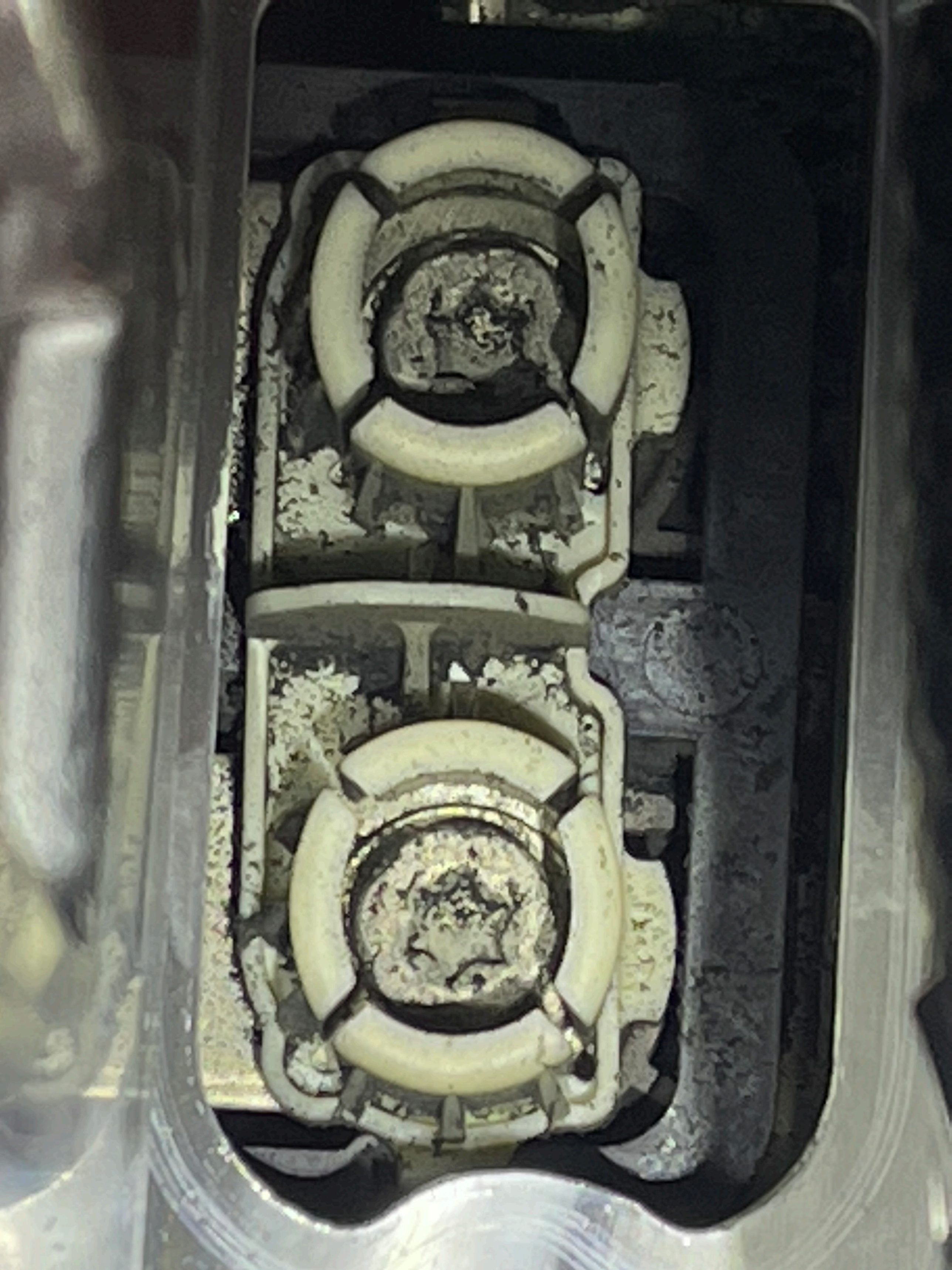
Inverter B IGBT Temperature for phase B		°F
Inverter B IGBT Temperature for phase C		°F
APM Status		
Impact Event		
HCP System Shutdown Command		
Distance Travelled with Light ON		miles
Motor A Torque		Ft-Lbs
Motor B Torque		Ft-Lbs
OBCM Operating Mode		
J1772 Prox Detected State		
HV Battery Sleep Time		Days
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

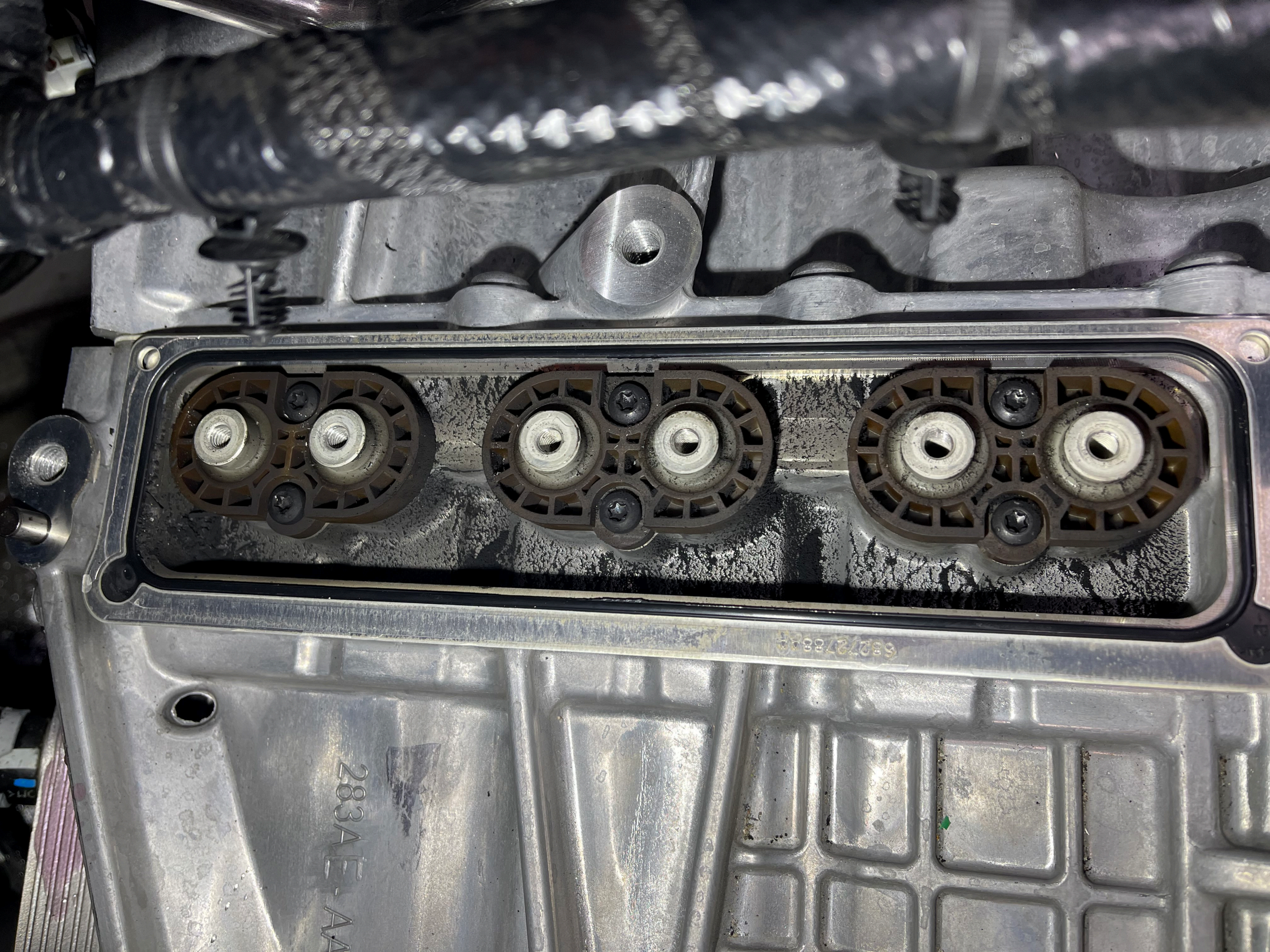
SNAPSHOT DATA SUMMARY

No Snapshot Data available for P0E15-00

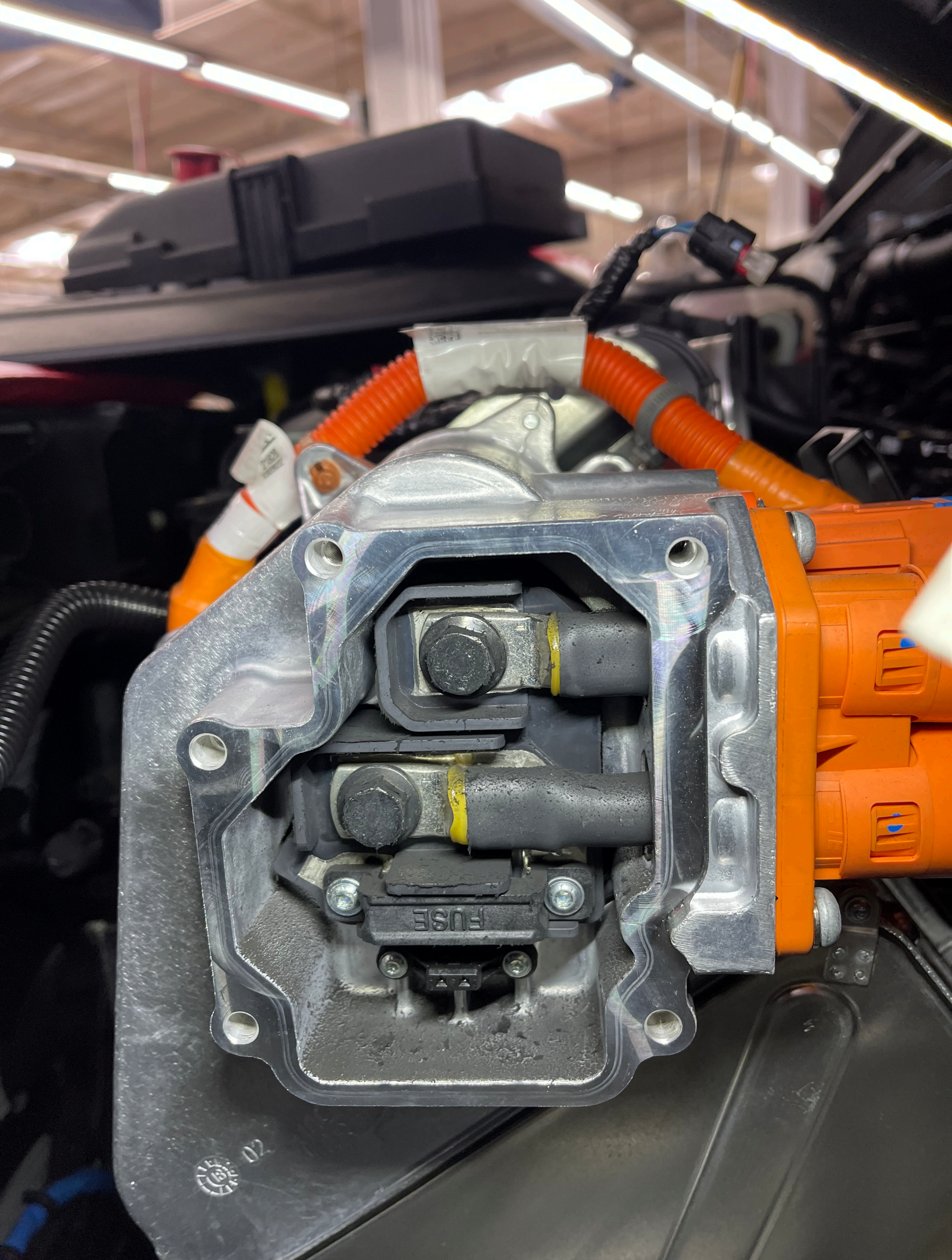







283AE-AA




FUSE


EATON® BUSSMANN
SERIES
170M3418
350A 690V ~ IEC
700V ~
IR700-200kA
CE EAC
aR
HRC
NON-SEPARABLE
FUSE IS BLOWN
WHEN

170M3418

350A 690V ~ IEC
700V ~ UL

IR700-200kA

CE EAC

aR

1*BN/50

HRC

0.2936 mΩ(21°C)

161107 / Z5544

Made in India

Tyco Electronics

14


Tyco Electronics
350A
E·T·N® BUSSMANN SERIES
170M3418
350A 690V IEC
IR700-200kA 700V
0.2936 1*BN/50 mΩ(21°C)
1911107 / Z5544
Made in India
ASSEMBLY IS NOT SERVICEABLE
DISCARD ENTIRE ASSEMBLY WHEN FUSE IS BLOWN