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 HCP

 ▼

Switch ECU

Hybrid Control Processor

- Flash
- DTCs
- Data
- Misc Functions
- System Tests
- Actuators
- Details
- Configuration

 Type: All ▼

 Record

 Units: Imperial ▼

 Filter

 Graph

 Data

 Clear

 0.75 s

HEATER STATUS

Ungrouped Data

2 items



| NAME                     | VALUE                                     | UNIT | TYPE    |                                                                                                                                                                                                                                                |
|--------------------------|-------------------------------------------|------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HV Coolant Heater Status | Locked<br>Permanent                       |      | Sensors | <div><div> ▼</div><div> ▼</div><div><input type="checkbox"/></div></div> |
| Heater Status            | Permanently<br>Locked(Cannot<br>Be Reset) |      | Sensors | <div><div> ▼</div><div> ▼</div><div><input type="checkbox"/></div></div> |



## VEHICLE SCAN REPORT

**Vehicle** 2022 CHRYSLER PACIFICA/VOYAGER 3.6L V6 HYBRID ENGINE  
**VIN** 2C4RC1L75N [REDACTED]

**Odometer** 6800.7 miles  
**Publication Date** Aug 18, 2022, 4:05:20 PM

## ECU SUMMARY INFO

| ECU   | NAME                           | BUS TYPE | FLASH PART # | CURRENT VIN            | ORIGINAL VIN           | PART #     |
|-------|--------------------------------|----------|--------------|------------------------|------------------------|------------|
| PCM   | Powertrain Control Module      | CAN-C    | 68526772AD   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68526772AD |
| PLGM  | Power Liftgate                 | CAN-I    | 68466171AI   | 2C4RC1L75NR [REDACTED] | —                      | 68466171AI |
| ICS   | Integrated Center Stack        | CAN-I    | 6XY201X8AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 6XY201X8AA |
| RFH   | Radio Frequency Hub            | CAN-C    | 68592117AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68592117AA |
| ESM   | Electronic Shifter             | CAN-C    | 68240089AN   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68240089AN |
| ORC   | Occupant Restraint             | CAN-C    | 68526665AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68526665AB |
| EPS   | Electric Power Steering        | CAN-C    | 68525339AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68525339AA |
| HVAC  | Heat, Ventilation and A/C      | CAN-I    | 52080480AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 52080480AB |
| DDM   | Driver Door Module             | CAN-I    | 68569329AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68569329AA |
| PDM   | Passenger Door Module          | CAN-I    | 68569328AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68569328AA |
| DMRL  | Door Module Rear Left          | CAN-I    | 68508894AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68508894AB |
| DMRR  | Door Module Rear Right         | CAN-I    | 68508894AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68508894AB |
| PSDML | Power Sliding Doors (Left)     | CAN-I    | 68369596AE   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68369596AE |
| PSDMR | Power Sliding Doors (Right)    | CAN-I    | 68369596AE   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68369596AE |
| MSM   | Memory Seat Module             | CAN-I    | 68321862AD   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68321862AD |
| CSWM  | Comfort Seat Wheel Module      | CAN-I    | 68530190AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68530190AB |
| IPC   | Instrument Panel Cluster       | CAN-C    | 68529064AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68529064AB |
| PTS   | Parktronics                    | CAN-C    | 68485851AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68485851AA |
| SCCM  | Steering Column Control Module | CAN-C    | 68531525AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68531525AA |
| BCM   | Body Controller                | CAN-C    | 68529663AD   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68529663AD |

|       |                                    |       |            |            |  |             |            |
|-------|------------------------------------|-------|------------|------------|--|-------------|------------|
| ACC   | Adaptive Cruise Control            | CAN-C | 68540436AC | 2C4RC1L75N |  | 2C4RC1L75NR | 68540436AC |
| RADIO | Radio                              | CAN-I | 68581510AC | 2C4RC1L75N |  | 2C4RC1L75NR | 68581510AC |
| OCM   | Occupant Classification            | CAN-C | 68403127AA | 2C4RC1L75N |  | 2C4RC1L75NR | 68403127AA |
| HVACR | Heat, Ventilation and A/C Rear     | CAN-I | 68373079AB | 2C4RC1L75N |  | 2C4RC1L75NR | 68373079AB |
| LBSS  | Left Blind Spot Sensor             | CAN-I | 04672786AC | 2C4RC1L75N |  | 2C4RC1L75NR | 04672786AC |
| RBSS  | Right Blind Spot Sensor            | CAN-I | 04672786AC | 2C4RC1L75N |  | 2C4RC1L75NR | 04672786AC |
| FFCM  | Forward Facing Camera Module       | CAN-C | 68551091AA | 2C4RC1L75N |  | 2C4RC1L75NR | 68551091AA |
| BPCM  | Battery Pack Control Module        | CAN-C | 05193186AB | 2C4RC1L75N |  | 2C4RC1L75NR | 05193186AB |
| HCP   | Hybrid Control Processor           | CAN-C | 68540977AH | 2C4RC1L75N |  | 2C4RC1L75NR | 68540977AH |
| DSM   | Display Screen Module              | CAN-I | 68438382AG | 2C4RC1L75N |  | 2C4RC1L75NR | 68438382AG |
| RCCC  | Rear Cabin Comfort Controls        | CAN-I | 6WL30DX9AA | 2C4RC1L75N |  | 2C4RC1L75NR | 6WL30DX9AA |
| EAC   | Electric A/C Compressor            | CAN-C | 68237995AG | 2C4RC1L75N |  | 2C4RC1L75NR | 68237995AG |
| AHCP  | Auxiliary Hybrid Control Processor | CAN-C | 68540978AH | 2C4RC1L75N |  | 2C4RC1L75NR | 68540978AH |
| EBBM  | Electronic Brake Booster Module    | CAN-C | 68461813AB | 2C4RC1L75N |  | 2C4RC1L75NR | 68461813AB |
| ABSO  | Anti Lock Brakes OBD               | CAN-C | 68471122AD | 2C4RC1L75N |  | 2C4RC1L75NR | 68471122AD |
| SGW   | Security Gateway Module            | CAN-C | 68525871AB |            |  | 2C4RC1L75NR | 68525871AB |
| IDCM  | Integrated Dual Charge Module      | CAN-C | 05185094AF | 2C4RC1L75N |  | 2C4RC1L75NR | 05185094AF |

## ECU SUMMARY INFO (CONT...)

| ECU   | COUNTRY CODE | HARDWARE VERSION | SOFTWARE VERSION | IDENT        | SERIAL NUMBER | CVNS |
|-------|--------------|------------------|------------------|--------------|---------------|------|
| PCM   | USA          | 1B 47            | 78 02 00         | 4422         |               |      |
| PLGM  | USA          | 0                | 5084             | 000200000034 |               |      |
| ICS   | USA          | 0F 0C 00         | 13 31 01         | 4700         |               |      |
| RFH   | USA / USA    | 10 17 00         | 15 22 00         | 4A00         |               |      |
| ESM   | USA / USA    | 13 02 00         | 14 23 FF         | 4402         |               |      |
| ORC   | USA / USA    | 14 06 00         | 14 12 00         | 4301         |               |      |
| EPS   | USA / USA    | 14 10 00         | 12 1E 01         | 4502         |               |      |
| HVAC  | USA          | 0E 09 00         | 15 08 01         | 4401         |               |      |
| DDM   | USA          | 11 07 00         | 14 2A 00         | 4202         |               |      |
| PDM   | USA          | 11 07 00         | 14 2A 00         | 4202         |               |      |
| DMRL  | USA / USA    | 10 0B 00         | 14 08 00         | 4201         |               |      |
| DMRR  | USA / USA    | 10 0B 00         | 14 08 00         | 4201         |               |      |
| PSDML | USA / USA    | 10 17 00         | 14 32 13         | 4001         |               |      |



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|       |                              |          |          |              |
|-------|------------------------------|----------|----------|--------------|
| PSDMR | USA / USA                    | 10 17 00 | 14 32 13 | 4001         |
| MSM   | USA                          | 0F 2B 00 | 15 21 00 | 4101         |
| CSWM  | USA                          | 11 2A 00 | 14 27 00 | 4320         |
| IPC   | USA / USA                    | 12 06 00 | 15 01 00 | 4705         |
| PTS   | USA                          | 0E 32 00 | 14 07 00 | 4311         |
| SCCM  | USA                          | 13 28 00 | 13 29 00 | 4301         |
| BCM   | USA                          | 0D 11 00 | 15 20 90 | 4420         |
| ACC   | USA / USA                    | 15 21 01 | 15 23 02 | 4400         |
| RADIO |                              | 65       | 8661     | 000200000008 |
| 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 | 15 08 00 | 4202         |
| RBSS  | USA / USA                    | 11 30 02 | 15 08 00 | 4202         |
| FFCM  | USA / USA                    | 11 06 00 | 15 0C 00 | 4102         |
| BPCM  | Not programmed / COUNTRY_SNA | 0E 03 00 | 15 19 00 | 4005         |
| HCP   | USA                          | 11 1F 04 | 0F 2D 00 | 4006         |
| DSM   | USA / USA                    | 14 0C 00 | 15 2D 00 | 4300         |
| RCCC  | USA                          | 0F 1D 00 | 13 04 00 | 4000         |
| EAC   | USA                          | 0E 34 00 | 12 0F 00 | 4102         |
| AHCP  | USA                          | 11 1F 04 | 0F 2D 00 | 4000         |
| EBBM  | USA                          | 0E 19 02 | 14 0D 18 | 4000         |
| ABSO  | USA                          | 0E 15 02 | 14 1B 26 | 4201         |
| SGW   |                              | 6        | 1137     | 4103         |
| IDCM  | USA                          | 14 2C 00 | 15 31 00 | 4000         |

DTC SUMMARY

| ECU | DTC CODE | DTC DESCRIPTION                                               | STATUS |
|-----|----------|---------------------------------------------------------------|--------|
| HCP | P1AEC-00 | MCPA HV Battery Voltage Sensor Circuit Performance-           | Active |
| HCP | P1AED-00 | MCPB High Voltage Battery Voltage Sensor Circuit Performance- | Active |

ENVIRONMENTAL DATA SUMMARY

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                                                     |       |        |
| 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     |
| 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 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                     |  |       |
| 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 |
| Hybrid System State                                                 |  |       |
| 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    |
| HV Contactor Status                                                 |  |       |
| Inverter B Status Feedback                                          |  |       |

|                                                     |  |        |
|-----------------------------------------------------|--|--------|
| 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     |
| HCP ePT Wake-Up Output                              |  |        |
| CBC Wake-Up Input                                   |  |        |
| EPT LOC Diag Enable                                 |  |        |
| 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     |
| 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   |
| 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                                          |  |         |
| 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                                                     |          |        |
| 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     |
| Actual Torque - Motor B                                             |          | Ft-Lbs |
| Available Motor Torque - Motor B                                    |          | Ft-Lbs |
| Inverter B Input DC Current                                         |          | AMP    |
| Electric Motor B Speed                                              |          | rpm    |
| Commanded Inverter B State                                          |          |        |
| Motor B - Inverter Current - phase A                                |          | AMP    |
| Motor B - Inverter Current - phase B                                |          | AMP    |
| Motor B - Inverter Current - phase C                                |          | AMP    |
| 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

|                                                   |  |        |
|---------------------------------------------------|--|--------|
| 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  |
| Hybrid System State                               |  |        |
| 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     |
| 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    |
| 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   |
| 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                 |  |         |
| 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 P1AEC-00

No Snapshot Data available for P1AED-00



## CONFIGURATION REPORT

**Vehicle** 2022 CHRYSLER PACIFICA/VOYAGER 3.6L V6 HYBRID ENGINE  
**VIN** 2C4RC1L75NR [REDACTED]

**Odometer** 6800.7 miles  
**Publication Date** 8/15/2022, 10:06:20 AM

## ECU SUMMARY INFO

| ECU   | NAME                           | BUS TYPE | FLASH PART # | CURRENT VIN            | ORIGINAL VIN           | PART #     |
|-------|--------------------------------|----------|--------------|------------------------|------------------------|------------|
| PCM   | Powertrain Control Module      | CAN-C    | 68526772AD   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68526772AD |
| PLGM  | Power Liftgate                 | CAN-I    | 68466171AI   | 2C4RC1L75NR [REDACTED] | —                      | 68466171AI |
| ICS   | Integrated Center Stack        | CAN-I    | 6XY201X8AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 6XY201X8AA |
| RFH   | Radio Frequency Hub            | CAN-C    | 68592117AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68592117AA |
| ESM   | Electronic Shifter             | CAN-C    | 68240089AN   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68240089AN |
| ORC   | Occupant Restraint             | CAN-C    | 68526665AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68526665AB |
| EPS   | Electric Power Steering        | CAN-C    | 68525339AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68525339AA |
| HVAC  | Heat, Ventilation and A/C      | CAN-I    | 52080480AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 52080480AB |
| DDM   | Driver Door Module             | CAN-I    | 68569329AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68569329AA |
| PDM   | Passenger Door Module          | CAN-I    | 68569328AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68569328AA |
| DMRL  | Door Module Rear Left          | CAN-I    | 68508894AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68508894AB |
| DMRR  | Door Module Rear Right         | CAN-I    | 68508894AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68508894AB |
| PSDML | Power Sliding Doors (Left)     | CAN-I    | 68369596AE   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68369596AE |
| PSDMR | Power Sliding Doors (Right)    | CAN-I    | 68369596AE   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68369596AE |
| MSM   | Memory Seat Module             | CAN-I    | 68321862AD   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68321862AD |
| CSWM  | Comfort Seat Wheel Module      | CAN-I    | 68530190AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68530190AB |
| IPC   | Instrument Panel Cluster       | CAN-C    | 68529064AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68529064AB |
| PTS   | Parktronics                    | CAN-C    | 68485851AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68485851AA |
| SCCM  | Steering Column Control Module | CAN-C    | 68531525AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68531525AA |
| BCM   | Body Controller                | CAN-C    | 68529663AD   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68529663AD |

|       |                                    |       |            |             |             |            |
|-------|------------------------------------|-------|------------|-------------|-------------|------------|
| ACC   | Adaptive Cruise Control            | CAN-C | 68540436AC | 2C4RC1L75NR | 2C4RC1L75NR | 68540436AC |
| RADIO | Radio                              | CAN-I | 68581510AC | 2C4RC1L75NR | 2C4RC1L75NR | 68581510AC |
| OCM   | Occupant Classification            | CAN-C | 68403127AA | 2C4RC1L75NR | 2C4RC1L75NR | 68403127AA |
| HVACR | Heat, Ventilation and A/C Rear     | CAN-I | 68373079AB | 2C4RC1L75NR | 2C4RC1L75NR | 68373079AB |
| LBSS  | Left Blind Spot Sensor             | CAN-I | 04672786AC | 2C4RC1L75NR | 2C4RC1L75NR | 04672786AC |
| RBSS  | Right Blind Spot Sensor            | CAN-I | 04672786AC | 2C4RC1L75NR | 2C4RC1L75NR | 04672786AC |
| FFCM  | Forward Facing Camera Module       | CAN-C | 68551091AA | 2C4RC1L75NR | 2C4RC1L75NR | 68551091AA |
| BPCM  | Battery Pack Control Module        | CAN-C | 05193186AB | 2C4RC1L75NR | 2C4RC1L75NR | 05193186AB |
| HCP   | Hybrid Control Processor           | CAN-C | 68540977AH | 2C4RC1L75NR | 2C4RC1L75NR | 68540977AH |
| DSM   | Display Screen Module              | CAN-I | 68438382AG | 2C4RC1L75NR | 2C4RC1L75NR | 68438382AG |
| RCCC  | Rear Cabin Comfort Controls        | CAN-I | 6WL30DX9AA | 2C4RC1L75NR | 2C4RC1L75NR | 6WL30DX9AA |
| EAC   | Electric A/C Compressor            | CAN-C | 68237995AG | 2C4RC1L75NR | 2C4RC1L75NR | 68237995AG |
| AHCP  | Auxiliary Hybrid Control Processor | CAN-C | 68540978AH | 2C4RC1L75NR | 2C4RC1L75NR | 68540978AH |
| EBBM  | Electronic Brake Booster Module    | CAN-C | 68461813AB | 2C4RC1L75NR | 2C4RC1L75NR | 68461813AB |
| ABSO  | Anti Lock Brakes OBD               | CAN-C | 68471122AD | 2C4RC1L75NR | 2C4RC1L75NR | 68471122AD |
| SGW   | Security Gateway Module            | CAN-C | 68525871AB |             | 2C4RC1L75NR | 68525871AB |
| IDCM  | Integrated Dual Charge Module      | CAN-C | 05185094AF | 2C4RC1L75NR | 2C4RC1L75NR | 05185094AF |

## ECU SUMMARY INFO (CONT...)

| ECU   | COUNTRY CODE | HARDWARE VERSION | SOFTWARE VERSION | IDENT        | SERIAL NUMBER | CVNS |
|-------|--------------|------------------|------------------|--------------|---------------|------|
| PCM   | USA          | 1B 47            | 78 02 00         | 4422         |               |      |
| PLGM  | USA          | 0                | 5084             | 000200000034 |               |      |
| ICS   | USA          | 0F 0C 00         | 13 31 01         | 4700         |               |      |
| RFH   | USA / USA    | 10 17 00         | 15 22 00         | 4A00         |               |      |
| ESM   | USA / USA    | 13 02 00         | 14 23 FF         | 4402         |               |      |
| ORC   | USA / USA    | 14 06 00         | 14 12 00         | 4301         |               |      |
| EPS   | USA / USA    | 14 10 00         | 12 1E 01         | 4502         |               |      |
| HVAC  | USA          | 0E 09 00         | 15 08 01         | 4401         |               |      |
| DDM   | USA          | 11 07 00         | 14 2A 00         | 4202         |               |      |
| PDM   | USA          | 11 07 00         | 14 2A 00         | 4202         |               |      |
| DMRL  | USA / USA    | 10 0B 00         | 14 08 00         | 4201         |               |      |
| DMRR  | USA / USA    | 10 0B 00         | 14 08 00         | 4201         |               |      |
| PSDML | USA / USA    | 10 17 00         | 14 32 13         | 4001         |               |      |

|       |                                 |          |          |              |
|-------|---------------------------------|----------|----------|--------------|
| PSDMR | USA / USA                       | 10 17 00 | 14 32 13 | 4001         |
| MSM   | USA                             | 0F 2B 00 | 15 21 00 | 4101         |
| CSWM  | USA                             | 11 2A 00 | 14 27 00 | 4320         |
| IPC   | USA / USA                       | 12 06 00 | 15 01 00 | 4705         |
| PTS   | USA                             | 0E 32 00 | 14 07 00 | 4311         |
| SCCM  | USA                             | 13 28 00 | 13 29 00 | 4301         |
| BCM   | USA                             | 0D 11 00 | 15 20 90 | 4420         |
| ACC   | USA / USA                       | 15 21 01 | 15 23 02 | 4400         |
| RADIO |                                 | 65       | 8661     | 000200000008 |
| 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 | 15 08 00 | 4202         |
| RBSS  | USA / USA                       | 11 30 02 | 15 08 00 | 4202         |
| FFCM  | USA / USA                       | 11 06 00 | 15 0C 00 | 4102         |
| BPCM  | Not programmed /<br>COUNTRY_SNA | 0E 03 00 | 15 19 00 | 4005         |
| HCP   | USA                             | 11 1F 04 | 0F 2D 00 | 4006         |
| DSM   | USA / USA                       | 14 0C 00 | 15 2D 00 | 4300         |
| RCCC  | USA                             | 0F 1D 00 | 13 04 00 | 4000         |
| EAC   | USA                             | 0E 34 00 | 12 0F 00 | 4102         |
| AHCP  | USA                             | 11 1F 04 | 0F 2D 00 | 4000         |
| EBBM  | USA                             | 0E 19 02 | 14 0D 18 | 4000         |
| ABSO  | USA                             | 0E 15 02 | 14 1B 26 | 4201         |
| SGW   |                                 | 6        | 1137     | 4103         |
| IDCM  | USA                             | 14 2C 00 | 15 31 00 | 4000         |

## CONFIGURATION

### PCM CONFIGURATION

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

|                                           |       |  |
|-------------------------------------------|-------|--|
| 5.7 Liter V8 Engine                       | False |  |
| 6.1 Liter V8 Engine                       | False |  |
| Sensorless FFV Enabled                    | False |  |
| Electronic Throttle Control Equipped      | True  |  |
| 3.6 Liter V6 Engine                       | True  |  |
| 4.0 Liter I6 Engine                       | False |  |
| 3.8 Liter V6 Engine                       | False |  |
| 3.7 Liter V6 Engine                       | False |  |
| 3.5 Liter V6 Engine                       | False |  |
| 3.3 Liter V6 Engine                       | False |  |
| 3.2 Liter V6 Engine                       | False |  |
| 2.7 Liter V6 Engine                       | False |  |
| MTV Solenoid Equipped                     | False |  |
| MDS Equipped                              | False |  |
| Turbocharger Equipped                     | False |  |
| SRV Equipped                              | False |  |
| Secondary Air Equipped                    | False |  |
| Shift Indicator Lamp Equipped             | False |  |
| Barometric Sensor Equipped                | False |  |
| TIP Equipped                              | False |  |
| Battery Temp Sensor Equipped              | False |  |
| Knock Sensor 1 Equipped                   | True  |  |
| Knock Sensor 2 Equipped                   | True  |  |
| WI4 Variable Valve Timing Equipped        | True  |  |
| Clutch Interlock Switch Equipped          | False |  |
| ESIM Equipped                             | False |  |
| Linear Purge Equipped                     | False |  |
| Linear EGR Equipped                       | False |  |
| Continuous Variable Transmission Equipped | False |  |
| Direct Injection Equipped                 | False |  |
| Secondary Fuel Pump Equipped              | False |  |
| Electronic Coolant Pump Equipped          | False |  |
| O2 Sensor Bank 1 Sensor 1 Equipped        | True  |  |
| O2 Sensor Bank 1 Sensor 2 Equipped        | True  |  |
| O2 Sensor Bank 1 Sensor 3 Equipped        | False |  |
| O2 Sensor Bank 2 Sensor 1 Equipped        | True  |  |
| O2 Sensor Bank 2 Sensor 2 Equipped        | True  |  |
| Variable Displacement AC Equipped         | False |  |
| Fixed displacement AC Equipped            | True  |  |
| WI4 Intake Flow Control Valve Equipped    | False |  |
| Electric Coolant Valve Equipped           | False |  |
| Engine Oil Heater Cooler Equipped         | True  |  |
| Transmission Oil Heater Equipped          | False |  |
| Electric Water Pump Equipped              | False |  |

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

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



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

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

## ICS CONFIGURATION

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

## RFH CONFIGURATION

| NAME                           | VALUE      | UNITS |
|--------------------------------|------------|-------|
| PIN Successfully Programmed    | Yes        |       |
| VIN Successfully Programmed    | Yes        |       |
| Valid Key In Ignition          | Yes        |       |
| KeySense Configuration         | False      |       |
| Keyless Go                     | True       |       |
| Ignition system type connected | KIN system |       |
| TPM Auto-Locate Enabled        | True       |       |
| e-shifter present              | True       |       |
| Auto Park Present              | True       |       |
| Secret Codes Programmed        | True       |       |
| Passive Entry                  | True       |       |
| Premium TPM                    | True       |       |
| Base TPM                       | False      |       |
| RKE                            | True       |       |
| Module Configuration Status    | True       |       |
| Remote Start Present           | True       |       |
| Hybrid Type                    | PHEV       |       |

|                                                     |                              |  |
|-----------------------------------------------------|------------------------------|--|
| \$0214 Programmed by                                | Programmed by Supplier EOL   |  |
| Hardware Configuration: Remote Start Antenna        | Present                      |  |
| Hardware Configuration: Front Left Door Handle H/W  | Serial AP                    |  |
| Hardware Configuration: Front Right Door Handle H/W | Serial AP                    |  |
| Hardware Configuration: Rear Left Door Handle H/W   | No AP                        |  |
| Hardware Configuration: Rear Right Door Handle H/W  | No AP                        |  |
| Hardware Configuration: Trunk Door Handle H/W       | Simple Switch AP             |  |
| RFHub Locked                                        | RFHUB Locked after IAC write |  |
| Fob Location #1 Successfully Programmed             | Yes                          |  |
| Fob Location #2 Successfully Programmed             | Yes                          |  |
| Fob Location #3 Successfully Programmed             | No                           |  |
| Fob Location #4 Successfully Programmed             | No                           |  |
| Fob Location #5 Successfully Programmed             | No                           |  |
| Fob Location #6 Successfully Programmed             | No                           |  |
| Fob Location #7 Successfully Programmed             | No                           |  |
| Fob Location #8 Successfully Programmed             | No                           |  |
| Fob Location #1 Key sense status                    | Fob is NOT Key Sense         |  |
| Fob Location #2 Key sense status                    | Fob is NOT Key Sense         |  |
| Fob Location #3 Key sense status                    | Fob is NOT Key Sense         |  |
| Fob Location #4 Key sense status                    | Fob is NOT Key Sense         |  |
| Fob Location #5 Key sense status                    | Fob is NOT Key Sense         |  |
| Fob Location #6 Key sense status                    | Fob is NOT Key Sense         |  |
| Fob Location #7 Key sense status                    | Fob is NOT Key Sense         |  |
| Fob Location #8 Key sense status                    | Fob is NOT Key Sense         |  |
| Back Up Vehicle Config 1                            | True                         |  |
| Back Up Vehicle Config 2                            | True                         |  |
| Back Up Vehicle Config 3                            | True                         |  |
| Back Up Vehicle Config 4                            | True                         |  |
| Back Up Vehicle Config 5                            | True                         |  |
| Back Up Vehicle Config 6                            | True                         |  |
| Back Up Vehicle Config 7                            | True                         |  |
| Back Up ECU Configuration 1                         | True                         |  |
| Back Up ECU Configuration 2                         | True                         |  |
| Back Up ECU Configuration 3                         | True                         |  |
| Back Up ECU Configuration 4                         | True                         |  |
| Back Up ECU Configuration 5                         | True                         |  |
| Back Up ECU Configuration 6                         | True                         |  |
| Back Up ECU Configuration 7                         | True                         |  |
| Back Up ECU Configuration 8                         | True                         |  |
| Back Up ECU Configuration 9                         | True                         |  |
| Back Up ECU Configuration 10                        | True                         |  |
| Back Up ECU Configuration 11                        | True                         |  |
| Back Up ECU Configuration 12                        | True                         |  |
| Back Up ECU Configuration 13                        | True                         |  |

|                                                          |      |  |
|----------------------------------------------------------|------|--|
| Back Up ECU Configuration 14                             | True |  |
| Back Up ECU Configuration 15                             | True |  |
| Back Up ECU Configuration 16                             | True |  |
| Back Up ECU Configuration 17                             | True |  |
| Back Up Customer Settings Menu 1 (CSM1)                  | True |  |
| Back Up Customer Settings Menu 2 (CSM2)                  | True |  |
| Back Up Programmed ECUs: Cabin Network                   | True |  |
| Back Up Programmed ECUs: P/T Chassis Network             | True |  |
| Secret Key Sent to Body Controller - Most recent attempt | Yes  |  |
| Secret Key Sent to Body Controller - Original attempt    | Yes  |  |

## ORC CONFIGURATION

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

|                                           |                |  |
|-------------------------------------------|----------------|--|
| Left Side Seat Squib 1                    | Configured     |  |
| Right Side Seat Squib 1                   | Configured     |  |
| Second Row Left Seat Side Airbag          | Not Configured |  |
| Second Row Right Seat Side Airbag         | Not Configured |  |
| Driver Frontal Squib 4                    | Not Configured |  |
| Passenger Frontal Squib 4                 | Not Configured |  |
| Left Up-Front Acceleration Sensor         | Configured     |  |
| Right Up-Front Acceleration Sensor        | Configured     |  |
| Right B-Pillar Impact Acceleration Sensor | Configured     |  |
| Left B-Pillar Impact Acceleration Sensor  | Configured     |  |
| Left C-Pillar Impact Acceleration Sensor  | Configured     |  |
| Right C-Pillar Impact Acceleration Sensor | Configured     |  |
| Right D-Pillar Impact Acceleration Sensor | Configured     |  |
| Left D-Pillar Impact Acceleration Sensor  | Configured     |  |
| Left Side Door Pressure Sensor            | Configured     |  |
| Right Side Door Pressure Sensor           | Configured     |  |
| Configuration Column Identifier           | A3             |  |

## EPS CONFIGURATION

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

## HVAC CONFIGURATION

| NAME                                | VALUE                | UNITS |
|-------------------------------------|----------------------|-------|
| DualZone ATC Control (Factory) (BB) | True                 |       |
| DualZone ATC Control (BB)           | True                 |       |
| Dual Zone MTC Control (BB)          | False                |       |
| Single Zone MTC Control (BB)        | False                |       |
| MTC With EBL (3Knob)                | False                |       |
| MTC Without EBL (3Knob)             | False                |       |
| MTC heater only (3Knob)             | False                |       |
| HVAC Configuration                  | Dual Zone ATC + Rear |       |

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

**IPC CONFIGURATION**

| NAME          | VALUE | UNITS |
|---------------|-------|-------|
| PHEV          | True  |       |
| Rear Fog Lamp | False |       |

**PTS CONFIGURATION**

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

**SCCM CONFIGURATION**

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

**BCM CONFIGURATION**

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

|                    |         |  |
|--------------------|---------|--|
| BCM (Interior Bus) | Set     |  |
| HSM                | Set     |  |
| DDM                | Set     |  |
| PDM                | Set     |  |
| DMRL               | Set     |  |
| DMRR               | Set     |  |
| HVAC               | Set     |  |
| MSM                | Set     |  |
| PLGM               | Set     |  |
| VTM                | Not Set |  |
| PSDML              | Set     |  |
| PSDMR              | Set     |  |
| FSM                | Not Set |  |
| Radio              | Set     |  |
| DTV                | Not Set |  |
| ITM                | Not Set |  |
| AMP                | Not Set |  |
| EDM                | Not Set |  |
| ICS                | Set     |  |
| HVACR              | Set     |  |
| CVPM               | Not Set |  |
| EOMR               | Set     |  |
| MSMP               | Not Set |  |
| VRM                | Not Set |  |
| DSM                | Set     |  |
| EAM                | Not Set |  |
| ANC                | Not Set |  |
| AHLM               | Not Set |  |
| BCM (PT)           | Set     |  |
| PCM                | Set     |  |
| EPS                | Set     |  |
| ESM                | Set     |  |
| ABS                | Not Set |  |
| RFH                | Set     |  |
| IPC                | Set     |  |
| ACC                | Set     |  |
| ORC                | Set     |  |
| PTS                | Set     |  |
| SCCM               | Set     |  |
| TCM                | Not Set |  |
| OCM                | Set     |  |
| FFCM               | Set     |  |
| ABSO               | Set     |  |
| ESL                | Not Set |  |

|                                                               |               |       |
|---------------------------------------------------------------|---------------|-------|
| HCP                                                           | Set           |       |
| EBCM                                                          | Set           |       |
| ORC                                                           | Set           |       |
| ESM                                                           | Set           |       |
| ESC                                                           | Set           |       |
| ECM                                                           | Set           |       |
| HCP                                                           | Set           |       |
| OBCM                                                          | Set           |       |
| AHCP                                                          | Set           |       |
| EAC                                                           | Set           |       |
| BPCM                                                          | Set           |       |
| APM                                                           | Set           |       |
| Number of Reprogramming Attempts - Counter #0                 | 0             |       |
| Vehicle Configuration Programmed Status                       | True          |       |
| Last Programmed Status                                        | Manufacturing |       |
| Last Configuration Odometer                                   | 0             | miles |
| Vehicle Configuration Auto Write Counter                      | 1             |       |
| Vehicle Configuration 1 - Write Counter                       | 3             |       |
| Vehicle Configuration 2 - Write Counter                       | 3             |       |
| Vehicle Configuration 3 - Write Counter                       | 3             |       |
| Vehicle Configuration 4 - Write Counter                       | 3             |       |
| Vehicle Configuration 5 - Write Counter                       | 3             |       |
| Vehicle Configuration 6 - Write Counter                       | 3             |       |
| Programmed ECUs: Cabin Network                                | 3             |       |
| Programmed ECUs: P/T Chassis Network                          | 3             |       |
| Programmed Network Configuration - Audio / Telematics Network | 0             |       |
| Programmed ECUs: Hybrid LAN Network                           | 0             |       |
| ECU Configuration 1 (CBC Configurable Inputs and Outputs)     | 3             |       |
| ECU Configuration 2 (CBC Features)                            | 3             |       |
| ECU Configuration 3                                           | 3             |       |
| ECU Configuration 4                                           | 3             |       |
| ECU Configuration 5 (Wireless)                                | 3             |       |
| ECU Configuration 5 (Doors)                                   | 3             |       |
| ECU Configuration 5 (Memory)                                  | 3             |       |
| ECU Configuration 6 (Brake)                                   | 3             |       |
| ECU Configuration 6 (Suspension)                              | 3             |       |
| ECU Configuration 6 (Powertrain)                              | 3             |       |
| ECU Configuration 6 (Safety)                                  | 3             |       |
| ECU Configuration 7 (CBC Exterior Lighting Calibrations)      | 3             |       |
| ECU Configuration 8 (LIN and Miscellaneous )                  | 3             |       |
| ECU Configuration 9A                                          | 3             |       |
| ECU Configuration 9 (ITM)                                     | 3             |       |
| ECU Configuration 10                                          | 3             |       |
| ECU Configuration 11                                          | 3             |       |



|                                         |                                              |     |
|-----------------------------------------|----------------------------------------------|-----|
| ECU Configuration 12                    | 3                                            |     |
| ECU Configuration 13                    | 3                                            |     |
| ECU Configuration 14                    | 3                                            |     |
| ECU Configuration 15 (CBC Features)     | 3                                            |     |
| ECU Configuration 15 (Suspension)       | 3                                            |     |
| Vehicle Configuration 7 - Write Counter | 3                                            |     |
| Vehicle Config CSM1                     | 3                                            |     |
| Vehicle Config CSM2                     | 3                                            |     |
| Model Year                              | 2022                                         |     |
| Vehicle Line                            | RU                                           |     |
| Country Code                            | USA                                          |     |
| Left/Right Hand Drive                   | Left Hand Drive                              |     |
| Remote Start Present                    | Set                                          |     |
| Drive Configuration                     | 2WD Front                                    |     |
| Emode Present                           | Not Set                                      |     |
| Auto Highbeam                           | Set                                          |     |
| Body Style                              | Station Wagon                                |     |
| Maximum Vehicle Speed                   | 0                                            | MPH |
| Shifter Type                            | 5 Position Rotary Eshifter PRNDL / Type RS5L |     |
| Performance Pages Present               | Not Present                                  |     |
| Special Packages                        | 74                                           |     |
| PTS Configuration                       | Rear / REAR                                  |     |
| Hill Descent Feature Present            | Not Set                                      |     |
| Select Speed Control Feature Present    | Not Set                                      |     |
| Power Inverter Type                     | No Power Inverter                            |     |
| Thatcham Present                        | Not Set                                      |     |
| Rain Sensor Present                     | Set                                          |     |
| SKIM System Present                     | Not Set                                      |     |
| Air Conditioning Present                | Not Set                                      |     |
| Cruise Feature is Present               | Not Set                                      |     |
| Flipper Glass Present                   | Not Set                                      |     |
| Full Size Spare                         | Not Set                                      |     |
| Off Road Capable                        | Not Set                                      |     |
| Special Packages IC                     | Pacifica                                     |     |
| Max Load Inflation Pressure Rear Tire   | 36.0                                         | PSI |
| Max Load Inflation Pressure Front Tire  | 36.0                                         | PSI |
| Police Lighting Feature                 | Not Set                                      |     |
| Power Right Sliding Door Present        | Set                                          |     |
| Power Left Sliding Door Present         | Set                                          |     |
| RKE System Present                      | Set                                          |     |
| T-Case Type                             | Not Present / Not Present                    |     |
| Wheel Base                              | Wheel base not programmed / WB_NP            |     |
| FOBIK Safe Enable                       | Set                                          |     |
| ELV Present                             | Not Set                                      |     |

|                                                                     |                                |         |
|---------------------------------------------------------------------|--------------------------------|---------|
| Fuel Capacity                                                       | 17                             | gallons |
| Window Express Feature Configuration                                | Front windows express only     |         |
| Adjustable Pedal Feature Present (non-Memory)                       | Not Set                        |         |
| Auto Headlamp Feature Present                                       | Set                            |         |
| Door Alert Feature Present                                          | Not Set                        |         |
| Two Fuel Sending Units Present                                      | Not Set                        |         |
| Vehicle is an SRT                                                   | Not Set                        |         |
| Disable Display of Radio Clock                                      | Not Set                        |         |
| Chassis Type                                                        | Type 8                         |         |
| Display Outside Temperature Present                                 | Set                            |         |
| HVAC Configuration                                                  | Dual Zone ATC + Rear           |         |
| Vehicle Brand                                                       | Chrysler                       |         |
| Display Compass Heading Present                                     | Set                            |         |
| ESCL system present                                                 | Not Set                        |         |
| High Intensity Discharge Head Lamps                                 | Set                            |         |
| Secondary Lock Present                                              | Not Set                        |         |
| Liftgate/Trunk Type                                                 | Power Liftgate                 |         |
| Collision Mitigation System present                                 | Set                            |         |
| Forward Collision Warning present                                   | Set                            |         |
| Base TPM system present                                             | Not Set                        |         |
| Premium TPM system present                                          | Set                            |         |
| Paddle Shift Feature Present                                        | Not Set                        |         |
| Sport Mode Present                                                  | Not Set                        |         |
| Auto Park Present                                                   | Set                            |         |
| Passive Entry Present                                               | Set                            |         |
| Keyless Go Present                                                  | Set                            |         |
| Transfer Case High Ratio                                            | 1.000                          | No Unit |
| Axle Ratio                                                          | 3.251                          |         |
| Transfer Case Low Range Reduction Ratio                             | 0.000                          |         |
| Dynamic Tire Circumference (All or Rear)                            | 89                             | inch    |
| 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 G Pin 9: Ambient Light Dimmer Wheel Input Present         | Set                            |         |
| Connector A Pin 3/Connector D Pin 2: Low Beam Output Present        | Set                            |         |
| Connector E Pin 29: Rear Wiper Motor Park Signal Present            | Set                            |         |
| Connector F Pin 9: Analog Door Ajar Signal Front Driver Present     | Set                            |         |
| Connector F Pin 23: Door Lock Switch Signal Front Passenger Present | Set                            |         |
| Connector F Pin 29: Horn Switch Present                             | Set                            |         |
| Connector A Pin 11: Hood Ajar Switch Input Present                  | Set                            |         |
| Connector F Pin 8 : Liftgate Release Outside Handle Switch Present  | Not Set                        |         |
| Connector E Pin 5: PHEV Fuel Door Switch Input                      | Set                            |         |
| Connector F Pin 6: Fuel Door Motor Output Signal Present            | Set                            |         |

|                                                                                                    |                 |  |
|----------------------------------------------------------------------------------------------------|-----------------|--|
| Connector D Pin 7: Stop/Turn Trailer Tow Right Output Present                                      | Not Set         |  |
| Connector D Pin 9: Trailer Tow Backup Output Present                                               | Not Set         |  |
| Connector D Pin 10: Trailer Tow Tail Lamp Output Present                                           | Not Set         |  |
| Connector D Pin 11: Stop/Turn Trailer Tow Left Output Present                                      | Not Set         |  |
| Connector D Pin 12: PHEV ECM Hardwire Wake Up Output Present                                       | Set             |  |
| Connector E Pin 34: Vacuum Cleaner Relay Output Present                                            | Not Set         |  |
| Connector G Pin 24 (Internally tied to Connector F Pin 7): Ambient Lighting Output                 | Not Set         |  |
| Connector F Pin 35: Inverter Enable Relay Output Present                                           | Not Set         |  |
| Connector E Pin 39/Connector F Pin 5: Rear Fog Lamps Output Present                                | Not Set         |  |
| Connector E Pin 4/Connector F Pin 32: Rear Park 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 E Pin 9: Run-ACC Y Relay #2 Output Present                                               | Set             |  |
| Connector A Pin 10/Connector D Pin 5: Side Markers Output Present                                  | Set             |  |
| Connector E Pin 8: PHEV HCP Hardwire Wakeup                                                        | Set             |  |
| Connector E Pin 42: Charge Port Lock Output Present                                                | Set             |  |
| Connector E Pin 41: Charge Port Unlock Output Present                                              | Set             |  |
| Connector F Pin 4: Liftgate Release Present                                                        | Not Set         |  |
| Connector G Pin 15: UGDO Feed Output Present                                                       | Set             |  |
| Connector G Pin 22: VTA Warning LED Output Present                                                 | Set             |  |
| Connector E Pin 11: Vacuum Switch Input                                                            | Not Set         |  |
| Connectro E Pin 37: Right HID Control Output Present                                               | Not Set         |  |
| Connector E Pin 7: Left HID Relay Control Output Present                                           | Not Set         |  |
| Connector D Pin 22/ Connector D Pin 23: Ambient Temperature Signal/Return Present                  | Set             |  |
| Tip Start Enabled                                                                                  | Set             |  |
| Dual Start Relay System Present                                                                    | Not Set         |  |
| Wiper Service Position Enabled                                                                     | Not Set         |  |
| Fuel Door Release Enabled                                                                          | Not Present     |  |
| Trailer Tow Present                                                                                | Not Set         |  |
| Quad Headlamps Enable                                                                              | Set             |  |
| Horn Chirp Allowed                                                                                 | Set             |  |
| Bi Xenon Headlamps Enable                                                                          | Not Set         |  |
| Hazard Lamp Configuration                                                                          | Latching Switch |  |
| Park Lamp Loadshed Enable                                                                          | Set             |  |
| Front Fog Lamp Dropout Enable                                                                      | Set             |  |
| Combined Rear Lighting Enable                                                                      | Set             |  |
| Side Repeaters Enable                                                                              | Not Set         |  |
| One Touch Lane Change                                                                              | Set             |  |
| Exterior Light Loadshed Enable                                                                     | Set             |  |

|                                                    |                                         |  |
|----------------------------------------------------|-----------------------------------------|--|
| Front Wiper Park Enable                            | Set                                     |  |
| Rear Wiper Park Enable                             | Set                                     |  |
| Reversible Washer Pump Enable                      | Set                                     |  |
| Combined Front Park/Turn Feature Enable            | Not Set                                 |  |
| DRL Configuration                                  | No DRL                                  |  |
| DRL Lamp Location                                  | Low Beam DRL                            |  |
| DRL Dropout Enable                                 | Not Set                                 |  |
| Tunnel Detection                                   | Not Set                                 |  |
| Fuel Door Present                                  | Not Set                                 |  |
| LED Reverse Lamps Present                          | Not Set                                 |  |
| LED Stop Lamps Present                             | Not Set                                 |  |
| LED Rear Turn Lamps Present                        | Not Set                                 |  |
| LED Tail Lamps Present                             | Set                                     |  |
| LED Rear Fog Lamps Present                         | Not Set                                 |  |
| LED License Lamps Present                          | Set                                     |  |
| LED Front Turn Lamps Present                       | Not Set                                 |  |
| LED Front Fog Lamps Present                        | Set                                     |  |
| LED Dedicated DRL Present                          | Not Set                                 |  |
| LED Low Beam Lamps Present                         | Set                                     |  |
| LED High Beam Lamps Present                        | Set                                     |  |
| LED Front Park/Marker Lamps Present                | Set                                     |  |
| Illuminated approach Enabled                       | Not Set                                 |  |
| Headlamp Wash Spray Duration (at 100 ms intervals) | 1100ms                                  |  |
| Headlamp Wash Interval                             | wash cycle#11                           |  |
| Headlamp Wash Shot                                 | double                                  |  |
| Front Wiper Wipes After Wash                       | 2 Wipes                                 |  |
| Headlamp Washer Low Fluid Shut-Off Enable          | Set                                     |  |
| Intermittent Wiper States                          | 4 Intermittent Wiper position Switch    |  |
| LED CHMSL Lamp Present                             | Set                                     |  |
| Rear Camera Present                                | Set                                     |  |
| Power Inverter Present                             | Not Set                                 |  |
| Front Park Assist Present                          | Set                                     |  |
| Front Heated Seats Present                         | Set                                     |  |
| Destination                                        | United States of America                |  |
| Cabin Equilization Curve Number                    | 6 Speaker Base (RU)                     |  |
| Heated Steering Wheel Present                      | Set                                     |  |
| Surround Sound Feature Present                     | Not Set                                 |  |
| Power Door Locks Present                           | Set                                     |  |
| Antenna Type                                       | Active Primary and no secondary antenna |  |
| Disable CD Eject                                   | Not Set                                 |  |
| Microphone Tuning Parameter                        | Absent [Not Used]                       |  |
| Microphone Configuration                           | 2 Microphones                           |  |
| Microphone Type                                    | Peiker 300 mv                           |  |
| External Port Type                                 | AUX + USB + extra USB                   |  |

|                                            |                                                 |  |
|--------------------------------------------|-------------------------------------------------|--|
| Splashscreen Type                          | Vehicle Brand                                   |  |
| Fleet Vehicle Content                      | Not Set                                         |  |
| Vehicle Variant                            | Undefined                                       |  |
| Tip Start Present                          | Set                                             |  |
| AP5 Trunk Unlock                           | CAN                                             |  |
| Airport Scenario Trunk                     | Not Set                                         |  |
| AP5 Trunk Lock                             | Simple Switch                                   |  |
| AP1 Left Front                             | Smart Switch                                    |  |
| AP2 Right Front                            | Smart Switch                                    |  |
| AP3 Left Rear                              | CAN                                             |  |
| AP4 Right Rear                             | CAN                                             |  |
| Global Up                                  | Not Set                                         |  |
| Global Down                                | Not Set                                         |  |
| Sun Shade                                  | Not Set                                         |  |
| Puddle Lamp Present                        | Not Set                                         |  |
| Rear Door Pre Short Drop                   | Not Set                                         |  |
| Passenger Window Lockout                   | Not Set                                         |  |
| Folding mirrors present                    | Not Set                                         |  |
| Heated Mirrors Present                     | Set                                             |  |
| Mirror turn signals present                | Set                                             |  |
| Driver Memory Mirrors Present              | Not Set                                         |  |
| Passenger Memory Mirror Present            | Not Set                                         |  |
| Electro-chromatic driver mirror present    | Not Set                                         |  |
| Electro-chromatic passenger mirror present | Not Set                                         |  |
| Tow Mirror Present                         | Not Set                                         |  |
| Blindspot Mirror Present                   | Set                                             |  |
| Window Motor Type                          | Not Set                                         |  |
| Window Hall Sensors Present                | Not Set                                         |  |
| Frameless Window Present                   | Not Set                                         |  |
| Memory Adjustable Pedals Present           | Not Set                                         |  |
| Tilt/Telescope Steering Present            | Not Set                                         |  |
| Driver Memory Seat Present                 | Set                                             |  |
| Stow 'n Assist Present - Driver            | Set                                             |  |
| Stow 'n Assist Present - Passenger         | Not Set                                         |  |
| Rear Heated Seats Present                  | Not Present                                     |  |
| Front Vented Seats Present                 | Not Present                                     |  |
| Heated Steering Wheel Present              | Present                                         |  |
| Heated Seat Material Type                  | Perforated Leather                              |  |
| 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                                         |  |
| ODS Present                                | False                                           |  |
| Driver Kneebag Present                     | True                                            |  |

|                                                          |                               |         |
|----------------------------------------------------------|-------------------------------|---------|
| Passenger Kneebag Present                                | True                          |         |
| Curtain Airbags Present                                  | True                          |         |
| Tow Hooks Present                                        | False                         |         |
| Passive Ped Pro Present                                  | False                         |         |
| 1st Row Seat Side Airbags Present                        | True                          |         |
| Integrated EPP Present                                   | False                         |         |
| BUX Market                                               | False                         |         |
| Front Park/Turn Voltage                                  | Park to Turn ratio 55 Percent |         |
| Auto Headlamp On Threshold                               | 3.31409                       | Volt    |
| Auto Headlamp Off Threshold                              | 2.54930                       | Volt    |
| Left Low Beam Voltage Regulation                         | 13.6 Volts                    |         |
| Left High Beam Voltage Regulation                        | 13.6 Volts                    |         |
| Right Low Beam Voltage Regulation                        | 14 Volts                      |         |
| Right High Beam Voltage Regulation                       | 13.8 Volts                    |         |
| Left Front Corner Voltage                                | 13.2 Volts                    |         |
| Right Front Corner Voltage                               | 13.4 Volts                    |         |
| Left Rear Corner Voltage                                 | 14 Volts                      |         |
| Right Rear Corner Voltage                                | 14 Volts                      |         |
| Alert no Reply                                           | Set                           |         |
| Alert On System Fault                                    | Set                           |         |
| Alert On Search Timeout                                  | Set                           |         |
| Panic Enable                                             | Set                           |         |
| Compass Mounting Orientation                             | Rightside up                  |         |
| Washer Fluid Level Voltage Threshold                     | 4.46 volts                    |         |
| Fobik Safe Alerts Per Ignition Cycle                     | 2                             |         |
| IBS Present                                              | Set                           |         |
| OHC Module Present                                       | Set                           |         |
| Humidity Sensor Present                                  | Set                           |         |
| HFRM Present                                             | Not Set                       |         |
| Auto Relock Time                                         | 60                            | seconds |
| VTA System Present                                       | VTA                           |         |
| Illuminated Approach Interior Lighting Target Percentage | 100(50%)                      |         |
| Illuminated Approach Headlamp Target Percentage          | 125 (62.5%)                   |         |
| Illuminated Approach Taillamp Target Percentage          | 125 (62.5%)                   |         |
| Illuminated Approach Interior Lighting Ramp Up Time      | 130(2600ms)                   |         |
| CRVMM Present                                            | Set                           |         |
| EVIC SWS Module Present                                  | Set                           |         |
| Compass Mounting Angle                                   | 0                             | Degree  |
| IBS Activate MWU                                         | Not Set                       |         |
| Battery Types                                            | SNA                           |         |
| IBS Quiescence Current Limit                             | -250                          | mA      |
| IBS Minimum Voltage Limit                                | 5.0                           | Volts   |
| IBS Minimal Charge Limit                                 | 10                            | AmpHrs  |
| Battery Type II                                          | 22                            |         |

|                                                                                                    |                                               |         |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------|---------|
| IBS Minimum Charge Limit                                                                           | 600                                           | mA      |
| Connector F Pin 41: Backup-Reverse lamp Left                                                       | Not Set                                       |         |
| Connector E Pin 1: Backup-Reverse lamp Right                                                       | Set                                           |         |
| Connector F Pin 5: Left Rear Fog Lamp                                                              | Output Disable                                |         |
| Connector E Pin 39: Right Rear Fog Lamp                                                            | Output Disable                                |         |
| Connector F Pin 42: Right Rear Turn Signal                                                         | Right Rear Turn Signal                        |         |
| Connector E Pin 3: Left Rear Turn Signal                                                           | Left Rear Turn Signal                         |         |
| Connector D Pin 1: Left High Beam Feed                                                             | AUX High Beam                                 |         |
| Connector A Pin 2: Right High Beam Feed                                                            | AUX High Beam                                 |         |
| Connector F Pin 25: Left Rear Turn Lamp Fault Sense                                                | Disable                                       |         |
| Connector F Pin 28: Right Rear Turn Lamp Fault Sense                                               | Disable                                       |         |
| Connector F Pin 27: Left Sliding Door Ajar                                                         | Left Sliding Door Ajar                        |         |
| Connector F Pin 4: Liftgate Release                                                                | Trunk/Liftgate Release                        |         |
| Connector F Pin 31: Right Sliding Door Ajar                                                        | Right Sliding Door Ajar                       |         |
| Connector D Pin 21: Brake Fluid Level Switch                                                       | no parallel resistor                          |         |
| Connector D Pin 12: PHEV ECM Hardwire Wake Up                                                      | Engine Control Module Wake up (PHEV only)     |         |
| Connector F Pin 29: Horn Switch Input                                                              | Horn Switch Input                             |         |
| Connector A Pin 11: Hood Ajar Switch Signal                                                        | 500 ohm series and 500 ohm parallel resistors |         |
| Connector E Pin 7: Left HID Relay Control                                                          | Left HID Lamp Relay                           |         |
| Connector E Pin 37: Right HID Relay Control                                                        | Right HID Lamp Relay                          |         |
| Connector E Pin 29: Rear Wiper Motor Park Signal                                                   | Reserved                                      |         |
| Connector E Pin 5: E-5 PHEV Fuel Door Switch Input                                                 | PHEV Fuel Door Switch                         |         |
| Stop/Start Enable Switch Present                                                                   | Not Set                                       |         |
| Siren                                                                                              | Not Set                                       |         |
| Ultrasonics                                                                                        | Not Set                                       |         |
| Tilt                                                                                               | Not Set                                       |         |
| Connector F Pin 13: Left Sliding Door Switch Input (B-Pillar)                                      | Left B-Pillar sliding Door Switch             |         |
| Connector F Pin 14: Right Sliding Door Switch Input (B-Pillar)                                     | Right B-Pillar Sliding Door Switch            |         |
| Connector F Pin 15: Driver Door Lock Switch Input                                                  | Not Present                                   |         |
| Heatsoak Flush Time                                                                                | 105                                           | Time    |
| Engine Off Clear Time                                                                              | 180                                           | Time    |
| Connector F Pin 30: Fuel Door Lock (BUX)                                                           | Not Present                                   |         |
| Connecetor F Pin 33: Fuel Door Unlock (BUX)                                                        | Not Present                                   |         |
| Connector F Pin 34: Spare HSD                                                                      | Not Present                                   |         |
| Connector F Pin 37: Vacuum Cleaner Power Saver Indicator                                           | Not Present                                   |         |
| Ambient Stable Counter Limit                                                                       | 40                                            | Counter |
| Heatsoak Speed                                                                                     | 15                                            | Counter |
| Heatsoak Set Time                                                                                  | 15                                            | Time    |
| Max Engine Off Time                                                                                | 220                                           | Time    |
| CHMSL Lamp Output Disable                                                                          | Not Set                                       |         |
| Connector E Pin 28: Secondary Door Ajar Switch Present - PIN E-28                                  | Set                                           |         |
| Manual Door Locks Present                                                                          | Not Set                                       |         |
| Connector E Pin 48 (Tied internally to Connector A Pin16): Rear Wiper Motor Control Output Present | Rear Wiper (0)                                |         |

|                                                |                                            |      |
|------------------------------------------------|--------------------------------------------|------|
| Connector G Pin11/Connector G Pin 12: Not Used | ERS                                        |      |
| Rain Sensor Module #2 Present                  | Set                                        |      |
| Humidity Sensor Long Present                   | Set                                        |      |
| Auto High Beam Module Location                 | HaLF                                       |      |
| License Plate Lamp Disable                     | Not Set                                    |      |
| Connector F Pin 29: Horn Switch Present        | Horn Switch Input                          |      |
| Connector E Pin 39: Right Rear Turn Signal     | Right Rear Turn Signal                     |      |
| Connector E Pin 3: Left Rear Turn Signal       | Left Rear Turn Signal                      |      |
| Excess Lateral Acceleration Factor             | Filter Off                                 |      |
| Average Last Lateral Acceleration Values       | No Averaging                               |      |
| Excess Longitudinal Acceleration Factor        | Filter Off                                 |      |
| Average Last Longitudinal Acceleration Values  | No Averaging                               |      |
| Brake Smoothing Duration                       | Filter Off                                 |      |
| Brake Smoothing Factor                         | Filter Off                                 |      |
| Steering Smoothing Duration                    | Filter Off                                 |      |
| Steering Smoothing Factor                      | Filter Off                                 |      |
| Steering Smoothing Threshold                   | Filter Off                                 |      |
| Brake Smoothing Threshold                      | Filter Off                                 |      |
| Maximum Longitudinal Change                    | Filter Off                                 |      |
| Maximum Lateral Change                         | Filter Off                                 |      |
| Acceleration Threshold                         | Filter Off                                 |      |
| Acceleration Factor                            | Filter Off                                 |      |
| Nose Dive Threshold                            | Filter Off                                 |      |
| Nose Dive Factor                               | Filter Off                                 |      |
| Horn Chirp Duration                            | Short                                      |      |
| VTA Hood Ajar Monitoring                       | Not Set                                    |      |
| Headlamp Soak Delay                            | 1.0 sec                                    |      |
| Auto High Beam ON Threshold                    | 25 km/hr                                   |      |
| Auto High Beam OFF Threshold                   | 20 km/hr                                   |      |
| RKE Auto-Relock Feature Enable                 | Not Set                                    |      |
| PE Auto-Relock Feature Enable                  | Set                                        |      |
| Parking Light Enable                           | Not Set                                    |      |
| Interior Lighting Night Threshold              | 4.45147                                    | Volt |
| Interior Lighting Day Threshold                | 4.27498                                    | Volt |
| TPMS Configuration                             | Logic 1 NHTSA Enable Warning               |      |
| Smart Alternator Present                       | Not Set                                    |      |
| Temperature Display Resolution                 | HaLF                                       |      |
| Sunroof Present                                | Not Set                                    |      |
| Radio Speaker Open Circuit Disable (LF)        | Not Set                                    |      |
| Radio Speaker Open Circuit Disable (RF)        | Not Set                                    |      |
| Radio Speaker Open Circuit Disable (LR)        | Not Set                                    |      |
| Radio Speaker Open Circuit Disable (RR)        | Not Set                                    |      |
| ANC Calibration Parameter Data Set             | RU_PHEV_3.6L_SteelRoof_Harman_ANC_R1_Radio |      |
| Surround View Camera On/Off Softkey Present    | Not Set                                    |      |



|                                              |                          |         |
|----------------------------------------------|--------------------------|---------|
| Drive Mode Version                           | Version 1                |         |
| Show Phone Information in Cluster            | 01                       |         |
| Auto Dimming Mirror Hard Button Present      | Set                      |         |
| Automatic Crash Notification Feature Present | Undefined                |         |
| Park Assist Tuning Set                       | Sahara                   |         |
| Unlock all doors on 1st press                | Set                      |         |
| Sound Horn on Lock                           | Set                      |         |
| Flash Lamps on Lock                          | Set                      |         |
| Headlamps on with Wipers                     | Set                      |         |
| Auto Lock                                    | Set                      |         |
| Auto Unlock                                  | Set                      |         |
| Sliding Door Alert                           | Set                      |         |
| Auto Wipers                                  | Set                      |         |
| Illuminated Approach Time                    | 30                       | seconds |
| Headlamp Delay Time                          | 30                       | seconds |
| Accessory Delay Time                         | 45                       | seconds |
| Daytime Running Lamps                        | Not Set                  |         |
| Hands Free Sliding Door Enable               | Set                      |         |
| Sliding Door Chime Enable                    | Set                      |         |
| Auto Highbeam                                | Set                      |         |
| Sound Horn on Remote Start                   | Set                      |         |
| Sound Horn On Lock Status                    | Chirp on 1st press/FIRST |         |
| Rear View Camera Static Grid Lines Enabled   | Not Set                  |         |
| Rear View Camera Dynamic Grid Lines Enabled  | Set                      |         |

## RADIO CONFIGURATION

| NAME                                          | VALUE        | UNITS   |
|-----------------------------------------------|--------------|---------|
| Satellite Subscription Status                 | 46           |         |
| Reason Code                                   | 2D           |         |
| Suspend Day                                   | 43           |         |
| Suspend Month                                 | 35           |         |
| Suspend Year                                  | 46           |         |
| Distortion Limiting                           | On           |         |
| Clock Defeat                                  | On           |         |
| Stereo Blend                                  | Off          |         |
| High Cut                                      | Off          |         |
| Automated Loudness                            | On           |         |
| Anti-Theft Enable Status                      | On           |         |
| 12/24 Time Selection                          | 12 Hour Time |         |
| Front Seat Video Playback                     | Enabled      |         |
| Cabin EQ Curve Number Currently Used by Radio | 51           | events  |
| Splash Screen                                 | Automatic    |         |
| USB Hubs Detected                             | 3            | No Unit |
| SD Card Readers Detected                      | 0            | No Unit |

|                        |              |         |
|------------------------|--------------|---------|
| Enumerated USB Devices | 0            | No Unit |
| Aux Jack               | Not Inserted |         |

**HVACR CONFIGURATION**

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

**LBSS CONFIGURATION**

| NAME                       | VALUE                | UNITS |
|----------------------------|----------------------|-------|
| Steering (LHD/RHD)         | Left Hand Drive/ LHD |       |
| Teen Key (RU variant only) | No                   |       |
| CFG FEATURE                | CFG_NONE             |       |

**RBSS CONFIGURATION**

| NAME                       | VALUE                | UNITS |
|----------------------------|----------------------|-------|
| Steering Variant (LHD/RHD) | Left Hand Drive/ LHD |       |
| Teen Key (RU variant only) | No                   |       |

**FFCM CONFIGURATION**

| NAME              | VALUE          | UNITS |
|-------------------|----------------|-------|
| HIL mode Enabled  | False          |       |
| Traceability info | 02220747065208 |       |
| Traceability info | 22220760028904 |       |
| XCP Enabled       | False          |       |

**RCCC CONFIGURATION**

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

**ABSO CONFIGURATION**

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

|                            |           |         |
|----------------------------|-----------|---------|
| Multiple Pressure Sensors  | True      |         |
| Front Directional Sensors  | False     |         |
| Rear Directional Sensors   | True      |         |
| Feature PIN                | False     |         |
| EPB                        | True      |         |
| ACC                        | True      |         |
| Hardwired VSO              | True      |         |
| Drive Configuration        | 2WD Front |         |
| VC Chassis Type            | Type 8    |         |
| ESC BLA Enabled            | False     |         |
| Dynamic Tire Circumference | 89        | inch    |
| Axle Ratio                 | 3.251     | No Unit |
| Engine Displacement        | 3.6       | No Unit |
| PN ESC Byte1               | 0         |         |
| PN ESC Byte2               | 0         |         |



## VEHICLE SCAN REPORT

**Vehicle** 2022 CHRYSLER PACIFICA/VOYAGER 3.6L V6 HYBRID ENGINE  
**VIN** 2C4RC1L75NR [REDACTED]

**Odometer** 6800.7 miles  
**Publication Date** 8/15/2022, 10:04:31 AM

## ECU SUMMARY INFO

| ECU   | NAME                           | BUS TYPE | FLASH PART # | CURRENT VIN            | ORIGINAL VIN           | PART #     |
|-------|--------------------------------|----------|--------------|------------------------|------------------------|------------|
| PCM   | Powertrain Control Module      | CAN-C    | 68526772AD   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68526772AD |
| PLGM  | Power Liftgate                 | CAN-I    | 68466171AI   | 2C4RC1L75NR [REDACTED] | —                      | 68466171AI |
| ICS   | Integrated Center Stack        | CAN-I    | 6XY201X8AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 6XY201X8AA |
| RFH   | Radio Frequency Hub            | CAN-C    | 68592117AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68592117AA |
| ESM   | Electronic Shifter             | CAN-C    | 68240089AN   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68240089AN |
| ORC   | Occupant Restraint             | CAN-C    | 68526665AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68526665AB |
| EPS   | Electric Power Steering        | CAN-C    | 68525339AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68525339AA |
| HVAC  | Heat, Ventilation and A/C      | CAN-I    | 52080480AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 52080480AB |
| DDM   | Driver Door Module             | CAN-I    | 68569329AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68569329AA |
| PDM   | Passenger Door Module          | CAN-I    | 68569328AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68569328AA |
| DMRL  | Door Module Rear Left          | CAN-I    | 68508894AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68508894AB |
| DMRR  | Door Module Rear Right         | CAN-I    | 68508894AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68508894AB |
| PSDML | Power Sliding Doors (Left)     | CAN-I    | 68369596AE   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68369596AE |
| PSDMR | Power Sliding Doors (Right)    | CAN-I    | 68369596AE   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68369596AE |
| MSM   | Memory Seat Module             | CAN-I    | 68321862AD   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68321862AD |
| CSWM  | Comfort Seat Wheel Module      | CAN-I    | 68530190AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68530190AB |
| IPC   | Instrument Panel Cluster       | CAN-C    | 68529064AB   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68529064AB |
| PTS   | Parktronics                    | CAN-C    | 68485851AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68485851AA |
| SCCM  | Steering Column Control Module | CAN-C    | 68531525AA   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68531525AA |
| BCM   | Body Controller                | CAN-C    | 68529663AD   | 2C4RC1L75NR [REDACTED] | 2C4RC1L75NR [REDACTED] | 68529663AD |

|       |                                    |       |            |             |            |            |
|-------|------------------------------------|-------|------------|-------------|------------|------------|
| ACC   | Adaptive Cruise Control            | CAN-C | 68540436AC | 2C4RC1L75NR | 2C4RC1L75N | 68540436AC |
| RADIO | Radio                              | CAN-I | 68581510AC | 2C4RC1L75NR | 2C4RC1L75N | 68581510AC |
| OCM   | Occupant Classification            | CAN-C | 68403127AA | 2C4RC1L75NR | 2C4RC1L75N | 68403127AA |
| HVACR | Heat, Ventilation and A/C Rear     | CAN-I | 68373079AB | 2C4RC1L75NR | 2C4RC1L75N | 68373079AB |
| LBSS  | Left Blind Spot Sensor             | CAN-I | 04672786AC | 2C4RC1L75NR | 2C4RC1L75N | 04672786AC |
| RBSS  | Right Blind Spot Sensor            | CAN-I | 04672786AC | 2C4RC1L75NR | 2C4RC1L75N | 04672786AC |
| FFCM  | Forward Facing Camera Module       | CAN-C | 68551091AA | 2C4RC1L75NR | 2C4RC1L75N | 68551091AA |
| BPCM  | Battery Pack Control Module        | CAN-C | 05193186AB | 2C4RC1L75NR | 2C4RC1L75N | 05193186AB |
| HCP   | Hybrid Control Processor           | CAN-C | 68540977AH | 2C4RC1L75NR | 2C4RC1L75N | 68540977AH |
| DSM   | Display Screen Module              | CAN-I | 68438382AG | 2C4RC1L75NR | 2C4RC1L75N | 68438382AG |
| RCCC  | Rear Cabin Comfort Controls        | CAN-I | 6WL30DX9AA | 2C4RC1L75NR | 2C4RC1L75N | 6WL30DX9AA |
| EAC   | Electric A/C Compressor            | CAN-C | 68237995AG | 2C4RC1L75NR | 2C4RC1L75N | 68237995AG |
| AHCP  | Auxiliary Hybrid Control Processor | CAN-C | 68540978AH | 2C4RC1L75NR | 2C4RC1L75N | 68540978AH |
| EBBM  | Electronic Brake Booster Module    | CAN-C | 68461813AB | 2C4RC1L75NR | 2C4RC1L75N | 68461813AB |
| ABSO  | Anti Lock Brakes OBD               | CAN-C | 68471122AD | 2C4RC1L75NR | 2C4RC1L75N | 68471122AD |
| SGW   | Security Gateway Module            | CAN-C | 68525871AB |             | 2C4RC1L75N | 68525871AB |
| IDCM  | Integrated Dual Charge Module      | CAN-C | 05185094AF | 2C4RC1L75NR | 2C4RC1L75N | 05185094AF |

## ECU SUMMARY INFO (CONT...)

| ECU   | COUNTRY CODE | HARDWARE VERSION | SOFTWARE VERSION | IDENT        | SERIAL NUMBER | CVNS |
|-------|--------------|------------------|------------------|--------------|---------------|------|
| PCM   | USA          | 1B 47            | 78 02 00         | 4422         |               |      |
| PLGM  | USA          | 0                | 5084             | 000200000034 |               |      |
| ICS   | USA          | 0F 0C 00         | 13 31 01         | 4700         |               |      |
| RFH   | USA / USA    | 10 17 00         | 15 22 00         | 4A00         |               |      |
| ESM   | USA / USA    | 13 02 00         | 14 23 FF         | 4402         |               |      |
| ORC   | USA / USA    | 14 06 00         | 14 12 00         | 4301         |               |      |
| EPS   | USA / USA    | 14 10 00         | 12 1E 01         | 4502         |               |      |
| HVAC  | USA          | 0E 09 00         | 15 08 01         | 4401         |               |      |
| DDM   | USA          | 11 07 00         | 14 2A 00         | 4202         |               |      |
| PDM   | USA          | 11 07 00         | 14 2A 00         | 4202         |               |      |
| DMRL  | USA / USA    | 10 0B 00         | 14 08 00         | 4201         |               |      |
| DMRR  | USA / USA    | 10 0B 00         | 14 08 00         | 4201         |               |      |
| PSDML | USA / USA    | 10 17 00         | 14 32 13         | 4001         |               |      |

|       |                                 |          |          |              |
|-------|---------------------------------|----------|----------|--------------|
| PSDMR | USA / USA                       | 10 17 00 | 14 32 13 | 4001         |
| MSM   | USA                             | 0F 2B 00 | 15 21 00 | 4101         |
| CSWM  | USA                             | 11 2A 00 | 14 27 00 | 4320         |
| IPC   | USA / USA                       | 12 06 00 | 15 01 00 | 4705         |
| PTS   | USA                             | 0E 32 00 | 14 07 00 | 4311         |
| SCCM  | USA                             | 13 28 00 | 13 29 00 | 4301         |
| BCM   | USA                             | 0D 11 00 | 15 20 90 | 4420         |
| ACC   | USA / USA                       | 15 21 01 | 15 23 02 | 4400         |
| RADIO |                                 | 65       | 8661     | 000200000008 |
| 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 | 15 08 00 | 4202         |
| RBSS  | USA / USA                       | 11 30 02 | 15 08 00 | 4202         |
| FFCM  | USA / USA                       | 11 06 00 | 15 0C 00 | 4102         |
| BPCM  | Not programmed /<br>COUNTRY_SNA | 0E 03 00 | 15 19 00 | 4005         |
| HCP   | USA                             | 11 1F 04 | 0F 2D 00 | 4006         |
| DSM   | USA / USA                       | 14 0C 00 | 15 2D 00 | 4300         |
| RCCC  | USA                             | 0F 1D 00 | 13 04 00 | 4000         |
| EAC   | USA                             | 0E 34 00 | 12 0F 00 | 4102         |
| AHCP  | USA                             | 11 1F 04 | 0F 2D 00 | 4000         |
| EBBM  | USA                             | 0E 19 02 | 14 0D 18 | 4000         |
| ABSO  | USA                             | 0E 15 02 | 14 1B 26 | 4201         |
| SGW   |                                 | 6        | 1137     | 4103         |
| IDCM  | USA                             | 14 2C 00 | 15 31 00 | 4000         |

## DTC SUMMARY

| ECU  | DTC CODE | DTC DESCRIPTION                                         | STATUS |
|------|----------|---------------------------------------------------------|--------|
| PLGM | B21DD-16 | System Voltage-Circuit Voltage Below Threshold          | Stored |
| PLGM | B2199-16 | Battery Voltage-Circuit Voltage Below Threshold         | Stored |
| ICS  | B210D-16 | Battery Voltage Low-Circuit Voltage Below Threshold     | Stored |
| ICS  | B21DD-84 | System Voltage-Signal Below Allowable Range             | Stored |
| RFH  | B2199-16 | Battery Voltage-Circuit Voltage Below Threshold         | Stored |
| RFH  | B21DD-84 | System Voltage-Signal Below Allowable Range             | Stored |
| ESM  | P1C8B-16 | Battery Voltage-Circuit Voltage Below Threshold         | Stored |
| ESM  | P1C8C-16 | System Voltage-Circuit Voltage Below Threshold          | Stored |
| ORC  | U0154-00 | Lost Communication With Occupant Classification Module- | Stored |
| EPS  | C2129-16 | Battery Voltage-Circuit Voltage Below Threshold         | Stored |
| EPS  | C212A-84 | System Voltage-Signal Below Allowable Range             | Stored |
| HVAC | B210D-84 | Battery Voltage Low-Signal Below Allowable Range        | Stored |
| HVAC | B21DD-84 | System Voltage-Signal Below Allowable Range             | Stored |
| HVAC | B10EB-00 | Blower Power Module-                                    | Stored |
| DDM  | B210C-16 | Battery Voltage Input-Circuit Voltage Below Threshold   | Stored |

|       |          |                                                                |        |
|-------|----------|----------------------------------------------------------------|--------|
| DDM   | B21DD-84 | System Voltage-Signal Below Allowable Range                    | Stored |
| PDM   | B210C-16 | Battery Voltage Input-Circuit Voltage Below Threshold          | Stored |
| PDM   | B21DD-84 | System Voltage-Signal Below Allowable Range                    | Stored |
| DMRL  | B2199-16 | Battery Voltage-Circuit Voltage Below Threshold                | Stored |
| DMRL  | B21DD-84 | System Voltage-Signal Below Allowable Range                    | Stored |
| DMRR  | B2199-16 | Battery Voltage-Circuit Voltage Below Threshold                | Stored |
| DMRR  | B21DD-84 | System Voltage-Signal Below Allowable Range                    | Stored |
| PSDML | B2199-16 | Battery Voltage-Circuit Voltage Below Threshold                | Stored |
| PSDML | B21DD-84 | System Voltage-Signal Below Allowable Range                    | Stored |
| PSDMR | B2199-16 | Battery Voltage-Circuit Voltage Below Threshold                | Stored |
| PSDMR | B21DD-84 | System Voltage-Signal Below Allowable Range                    | Stored |
| MSM   | B222D-00 | ECU Unable To Configure/Configuration Not Learned-             | Stored |
| MSM   | B210D-21 | Battery Voltage Low-Signal Amplitude < Minimum                 | Stored |
| MSM   | B210A-84 | System Voltage Low-Signal Below Allowable Range                | Stored |
| CSWM  | B11C1-13 | Steering Wheel Heater Power Supply Circuit-Circuit Open        | Stored |
| CSWM  | B2199-16 | Battery Voltage-Circuit Voltage Below Threshold                | Stored |
| CSWM  | B21DD-84 | System Voltage-Signal Below Allowable Range                    | Stored |
| IPC   | B1612-00 | Panel Illumination Control-                                    | Active |
| IPC   | B2199-16 | Battery Voltage-Circuit Voltage Below Threshold                | Stored |
| IPC   | B21DD-84 | System Voltage-Signal Below Allowable Range                    | Stored |
| PTS   | B21DD-16 | System Voltage-Circuit Voltage Below Threshold                 | Stored |
| PTS   | B210C-16 | Battery Voltage Input-Circuit Voltage Below Threshold          | Stored |
| SCCM  | C212A-16 | System Voltage-Circuit Voltage Below Threshold                 | Stored |
| ACC   | C2129-16 | Battery Voltage-Circuit Voltage Below Threshold                | Stored |
| ACC   | U0140-00 | Lost Communication With Body Control Module-                   | Stored |
| ACC   | C212A-84 | System Voltage-Signal Below Allowable Range                    | Stored |
| RADIO | B210A-00 | System Voltage Low-                                            | Stored |
| RADIO | B222C-00 |                                                                | Stored |
| OCM   | B210A-00 | System Voltage Low-                                            | Stored |
| HVACR | B2199-16 | Battery Voltage-Circuit Voltage Below Threshold                | Stored |
| HVACR | B21DD-84 | System Voltage-Signal Below Allowable Range                    | Stored |
| LBSS  | B21DD-84 | System Voltage-Signal Below Allowable Range                    | Stored |
| LBSS  | B2199-16 | Battery Voltage-Circuit Voltage Below Threshold                | Stored |
| RBSS  | B21DD-84 | System Voltage-Signal Below Allowable Range                    | Stored |
| RBSS  | B2199-16 | Battery Voltage-Circuit Voltage Below Threshold                | Stored |
| BPCM  | P0562-00 | System Voltage Low-                                            | Stored |
| BPCM  | P0A95-00 | High Voltage Fuse "A"-                                         | Active |
| BPCM  | P1A21-00 | HV Battery Contactor Control Sequence Incorrect-               | Stored |
| HCP   | P084F-00 | Park/Neutral Switch Output-                                    | 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-                           | Stored |
| HCP   | P1AEF-00 | MCPB High Voltage Battery System Voltage High-                 | Stored |

|      |          |                                                 |        |
|------|----------|-------------------------------------------------|--------|
| DSM  | B2199-16 | Battery Voltage-Circuit Voltage Below Threshold | Stored |
| DSM  | B21DD-84 | System Voltage-Signal Below Allowable Range     | Stored |
| RCCC | B2199-16 | Battery Voltage-Circuit Voltage Below Threshold | Stored |
| RCCC | B21DD-84 | System Voltage-Signal Below Allowable Range     | Stored |
| ABSO | C2222-00 | Improper Powerdown-                             | Active |
| SGW  | B2199-16 | Battery Voltage-Circuit Voltage Below Threshold | Stored |
| IDCM | P1ABD-00 | APM HV Battery System Voltage High-             | Stored |
| IDCM | P1ABC-00 | APM HV Battery System Voltage Low-              | Active |

## ENVIRONMENTAL DATA SUMMARY

No Environmental Data available for B21DD-16

No Environmental Data available for B2199-16

### ICS | B210D-16 | Stored | Battery Voltage Low-Circuit Voltage Below Threshold

| NAME                                    | VALUE      | UNITS |
|-----------------------------------------|------------|-------|
| Test Failed                             | False      |       |
| Test Failed This Operation Cycle        | False      |       |
| Pending DTC                             | False      |       |
| Confirmed DTC                           | True       |       |
| Test Not Completed Since Last Clear     | False      |       |
| Test Failed Since Last Clear            | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| DTC Extended Data Record Number - All   | 01         |       |
| Occurrence flag                         | Occurrence |       |
| Original Odometer Value                 | 6800       | miles |
| Most Recent Odometer Value              | 6800       | miles |
| Frequency Counter                       | 1          |       |
| Ignition Cycle Counter                  | 5          |       |

### ICS | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range

| NAME                                    | VALUE      | UNITS |
|-----------------------------------------|------------|-------|
| Test Failed                             | False      |       |
| Test Failed This Operation Cycle        | False      |       |
| Pending DTC                             | False      |       |
| Confirmed DTC                           | True       |       |
| Test Not Completed Since Last Clear     | False      |       |
| Test Failed Since Last Clear            | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| DTC Extended Data Record Number - All   | 01         |       |
| Occurrence flag                         | Occurrence |       |
| Original Odometer Value                 | 6800       | miles |
| Most Recent Odometer Value              | 6800       | miles |



|                        |   |  |
|------------------------|---|--|
| Frequency Counter      | 1 |  |
| Ignition Cycle Counter | 5 |  |

**RFH | B2199-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold**

| NAME                                    | VALUE | UNITS |
|-----------------------------------------|-------|-------|
| Test Failed                             | False |       |
| Test Failed This Operation Cycle        | False |       |
| Pending DTC                             | False |       |
| Confirmed DTC                           | True  |       |
| Test Not Completed Since Last Clear     | False |       |
| Test Failed Since Last Clear            | False |       |
| Test Not Completed This Operation Cycle | False |       |
| Warning Indicator Requested             | False |       |
| DTC Extended Data Record Number - All   | 01    |       |
| Occurrence flag                         | Error |       |
| Original Odometer Value                 | 6800  | miles |
| Most Recent Odometer Value              | 6800  | miles |
| Frequency Counter                       | 2     |       |
| Ignition Cycle Counter                  | 2     |       |

**RFH | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range**

| NAME                                    | VALUE | UNITS |
|-----------------------------------------|-------|-------|
| Test Failed                             | False |       |
| Test Failed This Operation Cycle        | False |       |
| Pending DTC                             | False |       |
| Confirmed DTC                           | True  |       |
| Test Not Completed Since Last Clear     | False |       |
| Test Failed Since Last Clear            | False |       |
| Test Not Completed This Operation Cycle | False |       |
| Warning Indicator Requested             | False |       |
| DTC Extended Data Record Number - All   | 01    |       |
| Occurrence flag                         | Error |       |
| Original Odometer Value                 | 6800  | miles |
| Most Recent Odometer Value              | 6800  | miles |
| Frequency Counter                       | 1     |       |
| Ignition Cycle Counter                  | 2     |       |

**ESM | P1C8B-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold**

| NAME                             | VALUE    | UNITS |
|----------------------------------|----------|-------|
| DTC                              | 1C 8B 16 |       |
| Test Failed                      | False    |       |
| Test Failed This Operation Cycle | False    |       |
| Pending DTC                      | False    |       |
| Confirmed DTC                    | True     |       |

|                                         |                                        |       |
|-----------------------------------------|----------------------------------------|-------|
| Test Not Completed Since Last Clear     | False                                  |       |
| Test Failed Since Last Clear            | True                                   |       |
| Test Not Completed This Operation Cycle | False                                  |       |
| Warning Indicator Requested             | False                                  |       |
| Occurrence flag                         | Occurrence                             |       |
| Original Odometer Value                 | 6800                                   | miles |
| Most Recent Odometer Value              | Odometer value not available / Default | miles |
| Frequency Counter                       | 25                                     |       |
| Ignition Cycle Counter                  | 3                                      |       |
| Ignition Status                         | Ignition Run                           |       |
| Operating Voltage                       | 9.9                                    | Volts |
| Operation Time                          | 11267                                  | Min   |

**ESM | P1C8C-16 | Stored | System Voltage-Circuit Voltage Below Threshold**

| NAME                                    | VALUE        | UNITS |
|-----------------------------------------|--------------|-------|
| DTC                                     | 1C 8C 16     |       |
| Test Failed                             | False        |       |
| Test Failed This Operation Cycle        | False        |       |
| Pending DTC                             | False        |       |
| Confirmed DTC                           | True         |       |
| Test Not Completed Since Last Clear     | False        |       |
| Test Failed Since Last Clear            | True         |       |
| Test Not Completed This Operation Cycle | False        |       |
| Warning Indicator Requested             | False        |       |
| Occurrence flag                         | Occurrence   |       |
| Original Odometer Value                 | 6800         | miles |
| Most Recent Odometer Value              | 6800         | miles |
| Frequency Counter                       | 3            |       |
| Ignition Cycle Counter                  | 3            |       |
| Ignition Status                         | Ignition Run |       |
| Operating Voltage                       | 9.9          | Volts |
| Operation Time                          | 11267        | Min   |

**ORC | U0154-00 | Stored | Lost Communication With Occupant Classification Module-**

| NAME                                    | VALUE | UNITS |
|-----------------------------------------|-------|-------|
| Test Failed                             | False |       |
| Test Failed This Operation Cycle        | False |       |
| Pending DTC                             | False |       |
| Confirmed DTC                           | True  |       |
| Test Not Completed Since Last Clear     | False |       |
| Test Failed Since Last Clear            | True  |       |
| Test Not Completed This Operation Cycle | False |       |
| Warning Indicator Requested             | False |       |
| Occurrence flag                         | Error |       |

|                                       |      |       |
|---------------------------------------|------|-------|
| Original Odometer Value               | 6800 | miles |
| Most Recent Odometer Value            | 6800 | miles |
| Frequency Counter                     | 1    |       |
| Operation Cycle Counter               | 5    |       |
| DTC Extended Data Record Number - All | FF   |       |

#### EPS | C2129-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold

| NAME                                                                                             | VALUE    | UNITS  |
|--------------------------------------------------------------------------------------------------|----------|--------|
| DTC                                                                                              | 61 29 16 |        |
| Test Failed                                                                                      | False    |        |
| Test Failed This Operation Cycle                                                                 | False    |        |
| Pending DTC                                                                                      | False    |        |
| Confirmed DTC                                                                                    | True     |        |
| Test Not Completed Since Last Clear                                                              | False    |        |
| Test Failed Since Last Clear                                                                     | True     |        |
| Test Not Completed This Operation Cycle                                                          | False    |        |
| Warning Indicator Requested                                                                      | True     |        |
| Occurrence flag                                                                                  | Error    |        |
| Original Odometer Value                                                                          | 6800     | miles  |
| Most Recent Odometer Value                                                                       | 6800     | miles  |
| Frequency Counter                                                                                | 1        |        |
| Ignition Cycle Counter                                                                           | 4        |        |
| Supplier Internal Fault Code                                                                     | 00 B1 00 |        |
| EPS Internal Filtered Vehicle Speed                                                              | 0.000    | MPH    |
| EPS Internal Steering Wheel Angle (Sign convention is positive angle towards left steering lock) | -16.53   | Deg    |
| EPS Steering Wheel Velocity                                                                      | -0.00    | deg/s  |
| EPS System Current Draw                                                                          | 1        | A      |
| EPS Measured Module Voltage                                                                      | 9.85     | V      |
| EPS Steering Wheel Torque                                                                        | -0.0691  | Ft-Lbs |
| EPS Measured Module Temperature                                                                  | 81.3     | °F     |
| CAN Battery Voltage                                                                              | 9.8      | Volts  |

#### EPS | C212A-84 | Stored | System Voltage-Signal Below Allowable Range

| NAME                                    | VALUE    | UNITS |
|-----------------------------------------|----------|-------|
| DTC                                     | 61 2A 84 |       |
| Test Failed                             | False    |       |
| Test Failed This Operation Cycle        | False    |       |
| Pending DTC                             | True     |       |
| Confirmed DTC                           | True     |       |
| Test Not Completed Since Last Clear     | False    |       |
| Test Failed Since Last Clear            | True     |       |
| Test Not Completed This Operation Cycle | False    |       |
| Warning Indicator Requested             | False    |       |
| Occurrence flag                         | Error    |       |

|                                                                                                  |          |        |
|--------------------------------------------------------------------------------------------------|----------|--------|
| Original Odometer Value                                                                          | 6800     | miles  |
| Most Recent Odometer Value                                                                       | 6800     | miles  |
| Frequency Counter                                                                                | 2        |        |
| Ignition Cycle Counter                                                                           | 1        |        |
| Supplier Internal Fault Code                                                                     | 01 4E 01 |        |
| EPS Internal Filtered Vehicle Speed                                                              | 0.000    | MPH    |
| EPS Internal Steering Wheel Angle (Sign convention is positive angle towards left steering lock) | -14.64   | Deg    |
| EPS Steering Wheel Velocity                                                                      | -0.00    | deg/s  |
| EPS System Current Draw                                                                          | 0        | A      |
| EPS Measured Module Voltage                                                                      | 11.01    | V      |
| EPS Steering Wheel Torque                                                                        | -0.2189  | Ft-Lbs |
| EPS Measured Module Temperature                                                                  | 88.8     | °F     |
| CAN Battery Voltage                                                                              | 8.1      | Volts  |

#### HVAC | B210D-84 | Stored | Battery Voltage Low-Signal Below Allowable Range

| NAME                                    | VALUE | UNITS |
|-----------------------------------------|-------|-------|
| Test Failed                             | False |       |
| Test Failed This Operation Cycle        | False |       |
| Pending DTC                             | False |       |
| Confirmed DTC                           | True  |       |
| Test Not Completed Since Last Clear     | False |       |
| Test Failed Since Last Clear            | True  |       |
| Test Not Completed This Operation Cycle | False |       |
| Warning Indicator Requested             | False |       |
| Occurrence flag                         | Error |       |
| Original Odometer Value                 | 6800  | miles |
| Most Recent Odometer Value              | 6800  | miles |
| Frequency Counter                       | 1     |       |
| Ignition Cycle Counter                  | 4     |       |

#### HVAC | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range

| NAME                                    | VALUE | UNITS |
|-----------------------------------------|-------|-------|
| Test Failed                             | False |       |
| Test Failed This Operation Cycle        | False |       |
| Pending DTC                             | False |       |
| Confirmed DTC                           | True  |       |
| Test Not Completed Since Last Clear     | False |       |
| Test Failed Since Last Clear            | True  |       |
| Test Not Completed This Operation Cycle | False |       |
| Warning Indicator Requested             | False |       |
| Occurrence flag                         | Error |       |
| Original Odometer Value                 | 6800  | miles |
| Most Recent Odometer Value              | 6800  | miles |
| Frequency Counter                       | 1     |       |

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

| NAME                                    | VALUE | UNITS |
|-----------------------------------------|-------|-------|
| Test Failed                             | False |       |
| Test Failed This Operation Cycle        | False |       |
| Pending DTC                             | False |       |
| Confirmed DTC                           | True  |       |
| Test Not Completed Since Last Clear     | False |       |
| Test Failed Since Last Clear            | True  |       |
| Test Not Completed This Operation Cycle | False |       |
| Warning Indicator Requested             | False |       |
| Occurrence flag                         | Error |       |
| Original Odometer Value                 | 6800  | miles |
| Most Recent Odometer Value              | 6800  | miles |
| Frequency Counter                       | 17    |       |
| Ignition Cycle Counter                  | 8     |       |

**DDM | B210C-16 | Stored | Battery Voltage Input-Circuit Voltage Below Threshold**

| NAME                                    | VALUE | UNITS |
|-----------------------------------------|-------|-------|
| Test Failed                             | False |       |
| Test Failed This Operation Cycle        | False |       |
| Pending DTC                             | False |       |
| Confirmed DTC                           | True  |       |
| Test Not Completed Since Last Clear     | False |       |
| Test Failed Since Last Clear            | True  |       |
| Test Not Completed This Operation Cycle | False |       |
| Warning Indicator Requested             | False |       |
| DTC Extended Data Record Number - All   | FF    |       |
| Occurrence flag                         | Error |       |
| Original Odometer Value                 | 6800  | miles |
| Most Recent Odometer Value              | 6800  | miles |
| Frequency Counter                       | 1     |       |
| Operation Cycle Counter                 | 3     |       |

**DDM | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range**

| NAME                                    | VALUE | UNITS |
|-----------------------------------------|-------|-------|
| Test Failed                             | False |       |
| Test Failed This Operation Cycle        | False |       |
| Pending DTC                             | False |       |
| Confirmed DTC                           | True  |       |
| Test Not Completed Since Last Clear     | False |       |
| Test Failed Since Last Clear            | True  |       |
| Test Not Completed This Operation Cycle | False |       |

|                                       |       |       |
|---------------------------------------|-------|-------|
| Warning Indicator Requested           | False |       |
| DTC Extended Data Record Number - All | FF    |       |
| Occurrence flag                       | Error |       |
| Original Odometer Value               | 6800  | miles |
| Most Recent Odometer Value            | 6800  | miles |
| Frequency Counter                     | 1     |       |
| Operation Cycle Counter               | 3     |       |

**PDM | B210C-16 | Stored | Battery Voltage Input-Circuit Voltage Below Threshold**

| NAME                                    | VALUE | UNITS |
|-----------------------------------------|-------|-------|
| Test Failed                             | False |       |
| Test Failed This Operation Cycle        | False |       |
| Pending DTC                             | False |       |
| Confirmed DTC                           | True  |       |
| Test Not Completed Since Last Clear     | False |       |
| Test Failed Since Last Clear            | True  |       |
| Test Not Completed This Operation Cycle | False |       |
| Warning Indicator Requested             | False |       |
| DTC Extended Data Record Number - All   | FF    |       |
| Occurrence flag                         | Error |       |
| Frequency Counter                       | 1     |       |
| Operation Cycle Counter                 | 3     |       |
| Most Recent Odometer Value              | 6800  | miles |
| Original Odometer Value                 | 6800  | miles |

**PDM | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range**

| NAME                                    | VALUE | UNITS |
|-----------------------------------------|-------|-------|
| Test Failed                             | False |       |
| Test Failed This Operation Cycle        | False |       |
| Pending DTC                             | False |       |
| Confirmed DTC                           | True  |       |
| Test Not Completed Since Last Clear     | False |       |
| Test Failed Since Last Clear            | True  |       |
| Test Not Completed This Operation Cycle | False |       |
| Warning Indicator Requested             | False |       |
| DTC Extended Data Record Number - All   | FF    |       |
| Occurrence flag                         | Error |       |
| Frequency Counter                       | 1     |       |
| Operation Cycle Counter                 | 3     |       |
| Most Recent Odometer Value              | 6800  | miles |
| Original Odometer Value                 | 6800  | miles |

**DMRL | B2199-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold**

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

|                                         |            |       |
|-----------------------------------------|------------|-------|
| Test Failed                             | False      |       |
| Test Failed This Operation Cycle        | False      |       |
| Pending DTC                             | False      |       |
| Confirmed DTC                           | True       |       |
| Test Not Completed Since Last Clear     | False      |       |
| Test Failed Since Last Clear            | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| DTC Extended Data Record Number - All   | 01         |       |
| Occurrence flag                         | Occurrence |       |
| Original Odometer Value                 | 6800       | miles |
| Most Recent Odometer Value              | 6800       | miles |
| Frequency Counter                       | 1          |       |
| Ignition Cycle Counter                  | 3          |       |

**DMRL | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range**

| NAME                                    | VALUE      | UNITS |
|-----------------------------------------|------------|-------|
| Test Failed                             | False      |       |
| Test Failed This Operation Cycle        | False      |       |
| Pending DTC                             | False      |       |
| Confirmed DTC                           | True       |       |
| Test Not Completed Since Last Clear     | False      |       |
| Test Failed Since Last Clear            | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| DTC Extended Data Record Number - All   | 01         |       |
| Occurrence flag                         | Occurrence |       |
| Original Odometer Value                 | 6800       | miles |
| Most Recent Odometer Value              | 6800       | miles |
| Frequency Counter                       | 1          |       |
| Ignition Cycle Counter                  | 3          |       |

**DMRR | B2199-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold**

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

|                            |      |       |
|----------------------------|------|-------|
| Original Odometer Value    | 6800 | miles |
| Most Recent Odometer Value | 6800 | miles |
| Frequency Counter          | 1    |       |
| Ignition Cycle Counter     | 3    |       |

**DMRR | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range**

| NAME                                    | VALUE      | UNITS |
|-----------------------------------------|------------|-------|
| Test Failed                             | False      |       |
| Test Failed This Operation Cycle        | False      |       |
| Pending DTC                             | False      |       |
| Confirmed DTC                           | True       |       |
| Test Not Completed Since Last Clear     | False      |       |
| Test Failed Since Last Clear            | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| DTC Extended Data Record Number - All   | 01         |       |
| Occurrence flag                         | Occurrence |       |
| Original Odometer Value                 | 6800       | miles |
| Most Recent Odometer Value              | 6800       | miles |
| Frequency Counter                       | 1          |       |
| Ignition Cycle Counter                  | 3          |       |

**PSDML | B2199-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold**

| NAME                                    | VALUE      | UNITS |
|-----------------------------------------|------------|-------|
| Test Failed                             | False      |       |
| Test Failed This Operation Cycle        | False      |       |
| Pending DTC                             | False      |       |
| Confirmed DTC                           | True       |       |
| Test Not Completed Since Last Clear     | False      |       |
| Test Failed Since Last Clear            | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| DTC Extended Data Record Number - All   | FF         |       |
| Occurrence flag                         | Occurrence |       |
| Original Odometer Value                 | 6800       | miles |
| Most Recent Odometer Value              | 6800       | miles |
| Frequency Counter                       | 2          |       |
| Ignition Cycle Counter                  | 2          |       |

**PSDML | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range**

| NAME                             | VALUE | UNITS |
|----------------------------------|-------|-------|
| Test Failed                      | False |       |
| Test Failed This Operation Cycle | False |       |
| Pending DTC                      | False |       |



|                                         |            |       |
|-----------------------------------------|------------|-------|
| Confirmed DTC                           | True       |       |
| Test Not Completed Since Last Clear     | False      |       |
| Test Failed Since Last Clear            | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| DTC Extended Data Record Number - All   | FF         |       |
| Occurrence flag                         | Occurrence |       |
| Original Odometer Value                 | 6800       | miles |
| Most Recent Odometer Value              | 6800       | miles |
| Frequency Counter                       | 1          |       |
| Ignition Cycle Counter                  | 2          |       |

**PSDMR | B2199-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold**

| NAME                                    | VALUE      | UNITS |
|-----------------------------------------|------------|-------|
| Test Failed                             | False      |       |
| Test Failed This Operation Cycle        | False      |       |
| Pending DTC                             | False      |       |
| Confirmed DTC                           | True       |       |
| Test Not Completed Since Last Clear     | False      |       |
| Test Failed Since Last Clear            | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| DTC Extended Data Record Number - All   | FF         |       |
| Occurrence flag                         | Occurrence |       |
| Original Odometer Value                 | 6800       | miles |
| Most Recent Odometer Value              | 6800       | miles |
| Frequency Counter                       | 2          |       |
| Ignition Cycle Counter                  | 2          |       |

**PSDMR | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range**

| NAME                                    | VALUE      | UNITS |
|-----------------------------------------|------------|-------|
| Test Failed                             | False      |       |
| Test Failed This Operation Cycle        | False      |       |
| Pending DTC                             | False      |       |
| Confirmed DTC                           | True       |       |
| Test Not Completed Since Last Clear     | False      |       |
| Test Failed Since Last Clear            | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| DTC Extended Data Record Number - All   | FF         |       |
| Occurrence flag                         | Occurrence |       |
| Original Odometer Value                 | 6800       | miles |
| Most Recent Odometer Value              | 6800       | miles |
| Frequency Counter                       | 1          |       |

Ignition Cycle Counter

2

**MSM | B222D-00 | Stored | ECU Unable To Configure/Configuration Not Learned-**

| NAME                                                   | VALUE       | UNITS  |
|--------------------------------------------------------|-------------|--------|
| DTC                                                    | A2 2D 00    |        |
| Test Failed                                            | False       |        |
| Test Failed This Operation Cycle                       | False       |        |
| Pending DTC                                            | False       |        |
| Confirmed DTC                                          | True        |        |
| Test Not Completed Since Last Clear                    | False       |        |
| Test Failed Since Last Clear                           | True        |        |
| Test Not Completed This Operation Cycle                | False       |        |
| Warning Indicator Requested                            | False       |        |
| DTC Extended Data Record Number - All                  | 01          |        |
| Occurrence flag                                        | Occurrence  |        |
| Original Odometer Value                                | 6790        | miles  |
| Most Recent Odometer Value                             | 6790        | miles  |
| Frequency Counter                                      | 2           |        |
| Ignition Cycle Counter                                 | 2           |        |
| DTC Extended Data Record Number                        | 14          |        |
| Calibration Version                                    | 03 09 00 01 |        |
| Front Hard Stop - Current                              | 33001       | Counts |
| Rear Hard Stop - Current                               | 32220       | Counts |
| Learned Seat Travel - Current                          | 781         | Counts |
| Default Seat travel length                             | 780         | Counts |
| Destandardization Reason                               | Diagnostics |        |
| Front Hard Stop - Pre-destandardization                | Not Learned | Counts |
| Rear Hard Stop - Pre-destandardization                 | Not Learned | Counts |
| Learned Seat Travel - Pre-destandardization            | Not Learned | Counts |
| Front Hard Stop - Post-destandardization               | 33001       | Counts |
| Rear Hard Stop - Post-destandardization                | 32220       | Counts |
| Learned Seat Travel - Post-destandardization           | 781         | Counts |
| ECU Voltage                                            | 2.078       | Volts  |
| Number of ECU hard resets since latest calibration     | 8           | Counts |
| Vertical Front motor sensor - Short to ground          | False       |        |
| Vertical Rear motor sensor - Short to ground           | False       |        |
| Vertical Front motor sensor - Short to battery or open | False       |        |
| Vertical Rear motor sensor - Short to battery or open  | False       |        |
| Horizontal motor sensor - Short to ground              | False       |        |
| Horizontal motor sensor - Short to battery or open     | False       |        |
| Recliner motor sensor - Short to ground                | False       |        |
| Recliner motor sensor - Short to battery or open       | False       |        |
| Position Horizontal Adjustment                         | 32331       | Counts |
| Position Vertical Rear                                 | 32667       | Counts |

|                                           |                  |        |
|-------------------------------------------|------------------|--------|
| Position Recliner                         | 32214            | Counts |
| Position Vertical Front                   | 32821            | Counts |
| Movement Direction - Horizontal Motor     | Motor not moving |        |
| Movement Direction - Recliner Motor       | Motor not moving |        |
| Movement Direction - Vertical Front Motor | Motor not moving |        |
| Movement Direction - Vertical Rear Motor  | Motor not moving |        |
| ECU configuration - Vehicle Line          | RU               |        |
| ECU configuration - Adjustable Pedals     | False            |        |
| ECU configuration - Telescope/Tilt        | False            |        |
| ECU configuration - Memory Seat           | True             |        |
| ECU configuration - Stow n Assist         | True             |        |

### MSM | B210D-21 | Stored | Battery Voltage Low-Signal Amplitude < Minimum

| NAME                                               | VALUE       | UNITS  |
|----------------------------------------------------|-------------|--------|
| DTC                                                | A1 0D 21    |        |
| Test Failed                                        | False       |        |
| Test Failed This Operation Cycle                   | False       |        |
| Pending DTC                                        | False       |        |
| Confirmed DTC                                      | True        |        |
| Test Not Completed Since Last Clear                | False       |        |
| Test Failed Since Last Clear                       | True        |        |
| Test Not Completed This Operation Cycle            | False       |        |
| Warning Indicator Requested                        | False       |        |
| DTC Extended Data Record Number - All              | 01          |        |
| Occurrence flag                                    | Occurrence  |        |
| Original Odometer Value                            | 6790        | miles  |
| Most Recent Odometer Value                         | 6790        | miles  |
| Frequency Counter                                  | 1           |        |
| Ignition Cycle Counter                             | 4           |        |
| DTC Extended Data Record Number                    | 11          |        |
| Calibration Version                                | 03 09 00 01 |        |
| Front Hard Stop - Current                          | 33001       | Counts |
| Rear Hard Stop - Current                           | 32220       | Counts |
| Learned Seat Travel - Current                      | 781         | Counts |
| Default Seat travel length                         | 780         | Counts |
| Destandardization Reason                           | Diagnostics |        |
| Front Hard Stop - Pre-destandardization            | Not Learned | Counts |
| Rear Hard Stop - Pre-destandardization             | Not Learned | Counts |
| Learned Seat Travel - Pre-destandardization        | Not Learned | Counts |
| Front Hard Stop - Post-destandardization           | 33001       | Counts |
| Rear Hard Stop - Post-destandardization            | 32220       | Counts |
| Learned Seat Travel - Post-destandardization       | 781         | Counts |
| ECU Voltage                                        | 1.554       | Volts  |
| Number of ECU hard resets since latest calibration | 4           | Counts |

|                                                        |                  |        |
|--------------------------------------------------------|------------------|--------|
| Vertical Front motor sensor - Short to ground          | False            |        |
| Vertical Rear motor sensor - Short to ground           | False            |        |
| Vertical Front motor sensor - Short to battery or open | False            |        |
| Vertical Rear motor sensor - Short to battery or open  | False            |        |
| Horizontal motor sensor - Short to ground              | False            |        |
| Horizontal motor sensor - Short to battery or open     | False            |        |
| Recliner motor sensor - Short to ground                | False            |        |
| Recliner motor sensor - Short to battery or open       | False            |        |
| Position Horizontal Adjustment                         | 32331            | Counts |
| Position Vertical Rear                                 | 32667            | Counts |
| Position Recliner                                      | 32214            | Counts |
| Position Vertical Front                                | 32821            | Counts |
| Movement Direction - Horizontal Motor                  | Motor not moving |        |
| Movement Direction - Recliner Motor                    | Motor not moving |        |
| Movement Direction - Vertical Front Motor              | Motor not moving |        |
| Movement Direction - Vertical Rear Motor               | Motor not moving |        |
| ECU configuration - Vehicle Line                       | RU               |        |
| ECU configuration - Adjustable Pedals                  | False            |        |
| ECU configuration - Telescope/Tilt                     | False            |        |
| ECU configuration - Memory Seat                        | True             |        |
| ECU configuration - Stow n Assist                      | True             |        |

**MSM | B210A-84 | Stored | System Voltage Low-Signal Below Allowable Range**

| NAME                                    | VALUE       | UNITS  |
|-----------------------------------------|-------------|--------|
| DTC                                     | A1 0A 84    |        |
| Test Failed                             | False       |        |
| Test Failed This Operation Cycle        | False       |        |
| Pending DTC                             | False       |        |
| Confirmed DTC                           | True        |        |
| Test Not Completed Since Last Clear     | False       |        |
| Test Failed Since Last Clear            | True        |        |
| Test Not Completed This Operation Cycle | False       |        |
| Warning Indicator Requested             | False       |        |
| DTC Extended Data Record Number - All   | 01          |        |
| Occurrence flag                         | Occurrence  |        |
| Original Odometer Value                 | 6790        | miles  |
| Most Recent Odometer Value              | 6790        | miles  |
| Frequency Counter                       | 1           |        |
| Ignition Cycle Counter                  | 4           |        |
| DTC Extended Data Record Number         | 0F          |        |
| Calibration Version                     | 03 09 00 01 |        |
| Front Hard Stop - Current               | 33001       | Counts |
| Rear Hard Stop - Current                | 32220       | Counts |
| Learned Seat Travel - Current           | 781         | Counts |

|                                                        |                  |        |
|--------------------------------------------------------|------------------|--------|
| Default Seat travel length                             | 780              | Counts |
| Destandardization Reason                               | Diagnostics      |        |
| Front Hard Stop - Pre-destandardization                | Not Learned      | Counts |
| Rear Hard Stop - Pre-destandardization                 | Not Learned      | Counts |
| Learned Seat Travel - Pre-destandardization            | Not Learned      | Counts |
| Front Hard Stop - Post-destandardization               | 33001            | Counts |
| Rear Hard Stop - Post-destandardization                | 32220            | Counts |
| Learned Seat Travel - Post-destandardization           | 781              | Counts |
| ECU Voltage                                            | 1.717            | Volts  |
| Number of ECU hard resets since latest calibration     | 4                | Counts |
| Vertical Front motor sensor - Short to ground          | False            |        |
| Vertical Rear motor sensor - Short to ground           | False            |        |
| Vertical Front motor sensor - Short to battery or open | False            |        |
| Vertical Rear motor sensor - Short to battery or open  | False            |        |
| Horizontal motor sensor - Short to ground              | False            |        |
| Horizontal motor sensor - Short to battery or open     | False            |        |
| Recliner motor sensor - Short to ground                | False            |        |
| Recliner motor sensor - Short to battery or open       | False            |        |
| Position Horizontal Adjustment                         | 32331            | Counts |
| Position Vertical Rear                                 | 32667            | Counts |
| Position Recliner                                      | 32214            | Counts |
| Position Vertical Front                                | 32821            | Counts |
| Movement Direction - Horizontal Motor                  | Motor not moving |        |
| Movement Direction - Recliner Motor                    | Motor not moving |        |
| Movement Direction - Vertical Front Motor              | Motor not moving |        |
| Movement Direction - Vertical Rear Motor               | Motor not moving |        |
| ECU configuration - Vehicle Line                       | RU               |        |
| ECU configuration - Adjustable Pedals                  | False            |        |
| ECU configuration - Telescope/Tilt                     | False            |        |
| ECU configuration - Memory Seat                        | True             |        |
| ECU configuration - Stow n Assist                      | True             |        |

#### CSWM | B11C1-13 | Stored | Steering Wheel Heater Power Supply Circuit-Circuit Open

| NAME                                    | VALUE    | UNITS |
|-----------------------------------------|----------|-------|
| DTC                                     | 91 C1 13 |       |
| DTC Extended Data Record Number - All   | 00       |       |
| Confirmed DTC                           | True     |       |
| Test Not Completed This Operation Cycle | False    |       |
| Warning Indicator Requested             | False    |       |
| Frequency Counter                       | 1        |       |
| Test Not Completed Since Last Clear     | False    |       |
| Occurrence flag                         | Error    |       |
| Operation Cycle Counter                 | 3        |       |
| Most Recent Odometer Value              | 6800     | miles |

|                                  |       |       |
|----------------------------------|-------|-------|
| Pending DTC                      | False |       |
| Test Failed Since Last Clear     | True  |       |
| Test Failed                      | False |       |
| Test Failed This Operation Cycle | False |       |
| Original Odometer Value          | 6800  | miles |

**CSWM | B2199-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold**

| NAME                                    | VALUE      | UNITS |
|-----------------------------------------|------------|-------|
| DTC                                     | A1 99 16   |       |
| DTC Extended Data Record Number - All   | 00         |       |
| Confirmed DTC                           | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| Frequency Counter                       | 1          |       |
| Test Not Completed Since Last Clear     | False      |       |
| Occurrence flag                         | Occurrence |       |
| Operation Cycle Counter                 | 4          |       |
| Most Recent Odometer Value              | 6800       | miles |
| Pending DTC                             | False      |       |
| Test Failed Since Last Clear            | True       |       |
| Test Failed                             | False      |       |
| Test Failed This Operation Cycle        | False      |       |
| Original Odometer Value                 | 6800       | miles |

**CSWM | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range**

| NAME                                    | VALUE      | UNITS |
|-----------------------------------------|------------|-------|
| DTC                                     | A1 DD 84   |       |
| DTC Extended Data Record Number - All   | 00         |       |
| Confirmed DTC                           | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| Frequency Counter                       | 1          |       |
| Test Not Completed Since Last Clear     | False      |       |
| Occurrence flag                         | Occurrence |       |
| Operation Cycle Counter                 | 4          |       |
| Most Recent Odometer Value              | 6800       | miles |
| Pending DTC                             | False      |       |
| Test Failed Since Last Clear            | True       |       |
| Test Failed                             | False      |       |
| Test Failed This Operation Cycle        | False      |       |
| Original Odometer Value                 | 6800       | miles |

**IPC | B1612-00 | Active | Panel Illumination Control-**

| 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   | FF    |       |
| Occurrence flag                         | Error |       |
| Original Odometer Value                 | 6800  | miles |
| Most Recent Odometer Value              | 6800  | miles |
| Frequency Counter                       | 1     |       |
| Ignition Cycle Counter                  | 0     |       |

**IPC | B2199-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold**

| NAME                                    | VALUE | UNITS |
|-----------------------------------------|-------|-------|
| Test Failed                             | False |       |
| Test Failed This Operation Cycle        | False |       |
| Pending DTC                             | False |       |
| Confirmed DTC                           | True  |       |
| Test Not Completed Since Last Clear     | False |       |
| Test Failed Since Last Clear            | True  |       |
| Test Not Completed This Operation Cycle | False |       |
| Warning Indicator Requested             | False |       |
| DTC Extended Data Record Number - All   | FF    |       |
| Occurrence flag                         | Error |       |
| Original Odometer Value                 | 6800  | miles |
| Most Recent Odometer Value              | 6800  | miles |
| Frequency Counter                       | 1     |       |
| Ignition Cycle Counter                  | 0     |       |

**IPC | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range**

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

|                            |      |       |
|----------------------------|------|-------|
| Original Odometer Value    | 6800 | miles |
| Most Recent Odometer Value | 6800 | miles |
| Frequency Counter          | 1    |       |
| Ignition Cycle Counter     | 0    |       |

**PTS | B21DD-16 | Stored | System Voltage-Circuit Voltage Below Threshold**

| NAME                                    | VALUE    | UNITS |
|-----------------------------------------|----------|-------|
| DTC                                     | A1 DD 16 |       |
| Test Failed                             | False    |       |
| Test Failed This Operation Cycle        | False    |       |
| Pending DTC                             | False    |       |
| Confirmed DTC                           | True     |       |
| Test Not Completed Since Last Clear     | False    |       |
| Test Failed Since Last Clear            | True     |       |
| Test Not Completed This Operation Cycle | False    |       |
| Warning Indicator Requested             | False    |       |
| DTC Extended Data Record Number - All   | 03       |       |
| Occurrence flag                         | Error    |       |
| Original Odometer Value                 | 6800     | miles |
| Most Recent Odometer Value              | 6800     | miles |
| Frequency Counter                       | 1        |       |
| DC/DC Converter Voltage                 | 02       | Volt  |

**PTS | B210C-16 | Stored | Battery Voltage Input-Circuit Voltage Below Threshold**

| NAME                                    | VALUE    | UNITS |
|-----------------------------------------|----------|-------|
| DTC                                     | A1 0C 16 |       |
| Test Failed                             | False    |       |
| Test Failed This Operation Cycle        | False    |       |
| Pending DTC                             | False    |       |
| Confirmed DTC                           | True     |       |
| Test Not Completed Since Last Clear     | False    |       |
| Test Failed Since Last Clear            | True     |       |
| Test Not Completed This Operation Cycle | False    |       |
| Warning Indicator Requested             | False    |       |
| DTC Extended Data Record Number - All   | 03       |       |
| Occurrence flag                         | Error    |       |
| Original Odometer Value                 | 6800     | miles |
| Most Recent Odometer Value              | 6800     | miles |
| Frequency Counter                       | 1        |       |
| DC/DC Converter Voltage                 | 02       | Volt  |

**SCCM | C212A-16 | Stored | System Voltage-Circuit Voltage Below Threshold**

| NAME | VALUE    | UNITS |
|------|----------|-------|
| DTC  | 61 2A 16 |       |



|                                         |              |       |
|-----------------------------------------|--------------|-------|
| Test Failed                             | False        |       |
| Test Failed This Operation Cycle        | False        |       |
| Pending DTC                             | False        |       |
| Confirmed DTC                           | True         |       |
| Test Not Completed Since Last Clear     | False        |       |
| Test Failed Since Last Clear            | True         |       |
| Test Not Completed This Operation Cycle | False        |       |
| Warning Indicator Requested             | False        |       |
| DTC Extended Data Record Number - All   | 01           |       |
| Occurrence flag                         | Error        |       |
| Original Odometer Value                 | 6800         | miles |
| Most Recent Odometer Value              | 6800         | miles |
| Frequency Counter                       | 1            |       |
| Ignition Cycle Counter                  | 4            |       |
| DTC Extended Data Record Number - 2     | 02           |       |
| Ignition Status                         | Ignition Run |       |
| Operating Voltage                       | 9.9          | Volts |
| Sub-Faults Saved                        | 00 00        |       |
| Sub-Faults Active                       | 00 01        |       |

#### ACC | C2129-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold

| NAME                                    | VALUE      | UNITS  |
|-----------------------------------------|------------|--------|
| Test Failed                             | False      |        |
| Test Failed This Operation Cycle        | False      |        |
| Pending DTC                             | False      |        |
| Confirmed DTC                           | True       |        |
| Test Not Completed Since Last Clear     | False      |        |
| Test Failed Since Last Clear            | True       |        |
| Test Not Completed This Operation Cycle | True       |        |
| Warning Indicator Requested             | False      |        |
| Occurrence flag                         | Occurrence |        |
| Original Odometer Value                 | 6800       | miles  |
| Most Recent Odometer Value              | 6800       | miles  |
| Frequency Counter                       | 1          |        |
| Operation Cycle Counter                 | 4          |        |
| Vehicle Speed                           | 0          | MPH    |
| Engine RPM                              | 0          | rpm    |
| ACC Set Speed                           | 0          | MPH    |
| Object of Interest Distance             | 830        | FEET   |
| Engine Torque Request                   | SNA        | Ft-Lbs |
| PRNDL Status                            | P range    |        |
| Ignition Voltage                        | 9.0        |        |
| System Voltage                          | 9.2        | Volts  |

**ACC | U0140-00 | Stored | Lost Communication With Body Control Module-**

| NAME                                    | VALUE   | UNITS  |
|-----------------------------------------|---------|--------|
| Test Failed                             | False   |        |
| Test Failed This Operation Cycle        | False   |        |
| Pending DTC                             | False   |        |
| Confirmed DTC                           | True    |        |
| Test Not Completed Since Last Clear     | False   |        |
| Test Failed Since Last Clear            | True    |        |
| Test Not Completed This Operation Cycle | False   |        |
| Warning Indicator Requested             | False   |        |
| Occurrence flag                         | Error   |        |
| Original Odometer Value                 | 6800    | miles  |
| Most Recent Odometer Value              | 6800    | miles  |
| Frequency Counter                       | 1       |        |
| Operation Cycle Counter                 | 5       |        |
| Vehicle Speed                           | 0       | MPH    |
| Engine RPM                              | 0       | rpm    |
| ACC Set Speed                           | 0       | MPH    |
| Object of Interest Distance             | 830     | FEET   |
| Engine Torque Request                   | SNA     | Ft-Lbs |
| PRNDL Status                            | P range |        |
| Ignition Voltage                        | 5.6     |        |
| System Voltage                          | 5.4     | Volts  |

**ACC | C212A-84 | Stored | System Voltage-Signal Below Allowable Range**

| NAME                                    | VALUE      | UNITS  |
|-----------------------------------------|------------|--------|
| Test Failed                             | False      |        |
| Test Failed This Operation Cycle        | False      |        |
| Pending DTC                             | False      |        |
| Confirmed DTC                           | True       |        |
| Test Not Completed Since Last Clear     | False      |        |
| Test Failed Since Last Clear            | True       |        |
| Test Not Completed This Operation Cycle | False      |        |
| Warning Indicator Requested             | False      |        |
| Occurrence flag                         | Occurrence |        |
| Original Odometer Value                 | 6800       | miles  |
| Most Recent Odometer Value              | 6800       | miles  |
| Frequency Counter                       | 1          |        |
| Operation Cycle Counter                 | 4          |        |
| Vehicle Speed                           | 0          | MPH    |
| Engine RPM                              | 0          | rpm    |
| ACC Set Speed                           | 0          | MPH    |
| Object of Interest Distance             | 830        | FEET   |
| Engine Torque Request                   | SNA        | Ft-Lbs |

|                  |         |       |
|------------------|---------|-------|
| PRNDL Status     | P range |       |
| Ignition Voltage | 9.7     |       |
| System Voltage   | 9.9     | Volts |

**RADIO | B210A-00 | Stored | System Voltage Low-**

| NAME                             | VALUE    | UNITS |
|----------------------------------|----------|-------|
| DTC                              | A1 0A 00 |       |
| Test Failed                      | False    |       |
| Test Failed This Operation Cycle | False    |       |
| Pending DTC                      | False    |       |
| Confirmed DTC                    | True     |       |

No Environmental Data available for B222C-00

**OCM | B210A-00 | Stored | System Voltage Low-**

| NAME                                    | VALUE | UNITS |
|-----------------------------------------|-------|-------|
| Test Failed                             | False |       |
| Test Failed This Operation Cycle        | False |       |
| Pending DTC                             | False |       |
| Confirmed DTC                           | True  |       |
| Test Not Completed Since Last Clear     | False |       |
| Test Failed Since Last Clear            | True  |       |
| Test Not Completed This Operation Cycle | False |       |
| Warning Indicator Requested             | False |       |
| Occurrence flag                         | Error |       |
| Original Odometer Value                 | 6800  | miles |
| Most Recent Odometer Value              | 6800  | miles |
| Frequency Counter                       | 1     |       |
| Ignition Cycle Counter                  | 5     |       |

**HVACR | B2199-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold**

| NAME                                    | VALUE | UNITS |
|-----------------------------------------|-------|-------|
| Test Failed                             | False |       |
| Test Failed This Operation Cycle        | False |       |
| Pending DTC                             | False |       |
| Confirmed DTC                           | True  |       |
| Test Not Completed Since Last Clear     | False |       |
| Test Failed Since Last Clear            | True  |       |
| Test Not Completed This Operation Cycle | False |       |
| Warning Indicator Requested             | False |       |
| DTC Extended Data Record Number - All   | 01    |       |
| Occurrence flag                         | Error |       |
| Original Odometer Value                 | 6800  | miles |
| Most Recent Odometer Value              | 6800  | miles |

|                        |   |  |
|------------------------|---|--|
| Frequency Counter      | 1 |  |
| Ignition Cycle Counter | 5 |  |

**HVACR | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range**

| NAME                                    | VALUE | UNITS |
|-----------------------------------------|-------|-------|
| Test Failed                             | False |       |
| Test Failed This Operation Cycle        | False |       |
| Pending DTC                             | False |       |
| Confirmed DTC                           | True  |       |
| Test Not Completed Since Last Clear     | False |       |
| Test Failed Since Last Clear            | True  |       |
| Test Not Completed This Operation Cycle | False |       |
| Warning Indicator Requested             | False |       |
| DTC Extended Data Record Number - All   | 01    |       |
| Occurrence flag                         | Error |       |
| Original Odometer Value                 | 6800  | miles |
| Most Recent Odometer Value              | 6800  | miles |
| Frequency Counter                       | 1     |       |
| Ignition Cycle Counter                  | 5     |       |

**LBSS | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range**

| NAME                                    | VALUE      | UNITS |
|-----------------------------------------|------------|-------|
| Test Failed                             | False      |       |
| Test Failed This Operation Cycle        | False      |       |
| Pending DTC                             | True       |       |
| Confirmed DTC                           | True       |       |
| Test Not Completed Since Last Clear     | False      |       |
| Test Failed Since Last Clear            | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| DTC Extended Data Record Number - All   | 01         |       |
| Occurrence flag                         | Occurrence |       |
| Original Odometer Value                 | 6800       | miles |
| Most Recent Odometer Value              | 6800       | miles |
| Frequency Counter                       | 1          |       |
| Operation Cycle Counter                 | 1          |       |

**LBSS | B2199-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold**

| NAME                                | VALUE | UNITS |
|-------------------------------------|-------|-------|
| Test Failed                         | False |       |
| Test Failed This Operation Cycle    | False |       |
| Pending DTC                         | False |       |
| Confirmed DTC                       | True  |       |
| Test Not Completed Since Last Clear | False |       |

|                                         |            |       |
|-----------------------------------------|------------|-------|
| Test Failed Since Last Clear            | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| DTC Extended Data Record Number - All   | 01         |       |
| Occurrence flag                         | Occurrence |       |
| Original Odometer Value                 | 6800       | miles |
| Most Recent Odometer Value              | 6800       | miles |
| Frequency Counter                       | 1          |       |
| Operation Cycle Counter                 | 4          |       |

**RBSS | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range**

| NAME                                        | VALUE      | UNITS |
|---------------------------------------------|------------|-------|
| DTC                                         | A1 DD 84   |       |
| Test Failed                                 | False      |       |
| Test Failed This Operation Cycle            | False      |       |
| Pending DTC                                 | True       |       |
| Confirmed DTC                               | True       |       |
| Test Not Completed Since Last Clear         | False      |       |
| Test Failed Since Last Clear                | True       |       |
| Test Not Completed This Operation Cycle     | False      |       |
| Warning Indicator Requested                 | False      |       |
| DTC Extended Data Record Number - All       | 01         |       |
| Occurrence flag                             | Occurrence |       |
| Original Odometer Value                     | 6800       | miles |
| Most Recent Odometer Value                  | 6800       | miles |
| Frequency Counter                           | 1          |       |
| Operation Cycle Counter                     | 1          |       |
| DTC Extended Data Record Number - Record #2 | 02         |       |
| Vehicle Line                                | Correct    |       |
| Vehicle Config Stat                         | OK         |       |
| Model Year                                  | Correct    |       |
| Country Code                                | Correct    |       |
| BSS Desired Operating Mode                  | Init       |       |
| BSS Current Operating Mode                  | BSM        |       |

**RBSS | B2199-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold**

| NAME                                | VALUE    | UNITS |
|-------------------------------------|----------|-------|
| DTC                                 | A1 99 16 |       |
| Test Failed                         | False    |       |
| Test Failed This Operation Cycle    | False    |       |
| Pending DTC                         | False    |       |
| Confirmed DTC                       | True     |       |
| Test Not Completed Since Last Clear | False    |       |
| Test Failed Since Last Clear        | True     |       |

|                                             |            |       |
|---------------------------------------------|------------|-------|
| Test Not Completed This Operation Cycle     | False      |       |
| Warning Indicator Requested                 | False      |       |
| DTC Extended Data Record Number - All       | 01         |       |
| Occurrence flag                             | Occurrence |       |
| Original Odometer Value                     | 6800       | miles |
| Most Recent Odometer Value                  | 6800       | miles |
| Frequency Counter                           | 1          |       |
| Operation Cycle Counter                     | 4          |       |
| DTC Extended Data Record Number - Record #2 | 02         |       |
| Vehicle Line                                | Correct    |       |
| Vehicle Config Stat                         | OK         |       |
| Model Year                                  | Correct    |       |
| Country Code                                | Correct    |       |
| BSS Desired Operating Mode                  | Init       |       |
| BSS Current Operating Mode                  | Init       |       |

#### BPCM | P0562-00 | Stored | System Voltage Low-

| NAME                                                           | VALUE                  | UNITS   |
|----------------------------------------------------------------|------------------------|---------|
| Frequency Counter                                              | 1                      |         |
| Ignition Cycle Counter                                         | 1                      |         |
| FoM - for this DTC (lifetime fails)                            | 1                      | events  |
| FoM - for this DTC (lifetime fails counts on pass)             | 0.0000                 | seconds |
| FoM - for this DTC (lifetime longest fail on pass)             | 0.000                  | seconds |
| Battery Total Time Awake                                       | 11146039               | seconds |
| Key in Ignition                                                | Key_Def                |         |
| Key Position                                                   | Ign_Lock               |         |
| EPT -WakeUp                                                    | Sourced                |         |
| HCP Contactor Command                                          | Impact Open            |         |
| Qualified Contactor Command - QCC                              | Open                   |         |
| Verified Contactor Command - VCC                               | Invalid                |         |
| Contactor Status                                               | Open                   |         |
| Plug in Status                                                 | Not plugged in         |         |
| 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                  |         |
| Vehicle mileage at time of fault (ODO signal in \$3D2)         | 6800.58                | miles   |
| Battery Lifetime Miles                                         | CD77E3                 | miles   |
| Vehicle Speed                                                  | 0.0                    | MPH     |
| System (12) Volts at time of fault                             | 6.889                  | Volts   |
| Battery Lifetime AmpHrs of Charge                              | 3206.6                 | AHr     |
| Battery Lifetime AmpHrs of DisCharge                           | 3173.2                 | AHr     |
| SOC at time of Fault                                           | 84.7                   | %       |
| Power Up SOC at time of Fault                                  | 84.7                   | %       |

|                                                                  |        |         |
|------------------------------------------------------------------|--------|---------|
| HVIL Status -Vehicle                                             | PASS   |         |
| HVIL Status - Battery pack                                       | PASS   |         |
| HVIL PWM Duty Cycle - Vehicle                                    | 49.8   | %       |
| HVIL PWM Frequency - Vehicle                                     | 87.9   | Hz      |
| HVIL PWM peak voltage Sourced - Vehicle                          | 5.674  | Volts   |
| HVIL PWM peak voltage Sensed - Vehicle                           | 5.607  | Volts   |
| HVIL Source Voltage- Battery                                     | 1.385  | Volts   |
| HVIL Returned current - Battery                                  | 30.70  | mA      |
| HV Battery Current Sensor 1 Hall High                            | -1.90  | Amps    |
| HV Battery Current Sensor 2 Hall Low                             | 0.00   | Amps    |
| HV Battery Current HVBatCmnt                                     | 0.00   | Amps    |
| HV Cooling Speed Pump 1 Target                                   | 0      | rpm     |
| HV Cooling Speed pump 1 Speed                                    | 0      | rpm     |
| Charge indicator Temp                                            | 117    | °F      |
| BPCM temperature max                                             | 84     | °F      |
| BPCM temperature min                                             | 82     | °F      |
| Pump - Wire Open\Short to Gnd                                    | PASS   |         |
| Pump - Dry Run Detection                                         | PASS   |         |
| Pump - Overcurrent                                               | PASS   |         |
| Pump - Overtemperature                                           | PASS   |         |
| Pump - Switch Power Shorted                                      | PASS   |         |
| Isolation Circuitry Va                                           | 2.497  | Volts   |
| Isolation Circuitry Vb                                           | 2.500  | Volts   |
| Isolation Circuitry Vd                                           | 0.000  | Volts   |
| WC and Circuitry 2.5V Reference Voltage                          | 2.500  | Volts   |
| WC and Circuitry Vcc Voltage                                     | 4.963  | Volts   |
| WC and CircuitryISO 8V Reference Voltage                         | 7.932  | Volts   |
| WC and Circuitry Weld Contactor Sensor G (Pack Negative) Voltage | -3.4   | Volts   |
| Cycles left to self heal                                         | 40     | No Unit |
| Fault trigger level 1                                            | False  |         |
| Fault trigger level 2                                            | False  |         |
| Fault trigger level 3                                            | False  |         |
| Fault Path                                                       | 01     |         |
| HV Battery Charge Power 2sec                                     | 99267  | watts   |
| HV Battery Charge Power 10sec                                    | 79788  | watts   |
| HV Battery Discharge Power 2sec                                  | 105288 | watts   |
| HV Battery Discharge Power 10sec                                 | 103086 | watts   |
| HV Battery Power                                                 | 007530 | watts   |
| Key - DriveRdy (CAN)                                             | True   |         |
| Battery Lifetime Number Of Closes                                | 830    |         |
| Battery Full AmpHr Capacity                                      | 48     | AmpHrs  |
| Cell Impedance Max Discharge                                     | 0      | mOhms   |
| Cell Impedance Mim Discharge                                     | 0      | mOhms   |
| Battery Cell Voltage Maximum                                     | 4020   | mV      |

|                                                   |                         |           |
|---------------------------------------------------|-------------------------|-----------|
| Battery Cell Voltage Minimum                      | 4001                    | mV        |
| Battery Cell Voltage Average                      | 4012                    | mV        |
| Battery Cell Highest Cell number                  | 92                      |           |
| Battery Cell Lowest Cell number                   | 72                      |           |
| HV Battery Voltage (cell sum)                     | 385.10                  | Volts     |
| HV Battery Voltage (Module Sum)                   | 384.90                  | Volts     |
| HV Sensor A Pack Voltage                          | 1.60                    | Volts     |
| HV Sensor B Bus\Link (Pre-Fuse) Voltage           | 0.70                    | Volts     |
| HV Sensor C OBCM (HVOBC Fuse) Voltage             | 0.70                    | Volts     |
| HV Sensor D Heater (HVHTR Fuse) Voltage           | 0.70                    | Volts     |
| HV Sensor G Weld Contactor(Pack Negative) Voltage | -3.4                    | Volts     |
| Battery Temperature Maximum Module                | 84                      | °F        |
| Battery Temperature Minimum Module                | 82                      | °F        |
| Battery Temperature Average Module                | 82                      | °F        |
| Battery Temperature Highest Sensor number         | 12                      |           |
| Battery Temperature Lowest Sensor number          | 03                      |           |
| Battery Temperature Number of Failing Sensors     | 00                      |           |
| HV Cooling Pump Relay Drive                       | Not Sourced             |           |
| HV Cooling Battery coolant inlet temp             | 90                      | °F        |
| HV Cooling Battery coolant outlet temp            | 90                      | °F        |
| HV Cooling OBCM temp inlet Temp                   | 90                      | °F        |
| Pump - Battery Coolant Level Low                  | False                   |           |
| Isolation Vehicle Diagnostic Status               | Run and Passed          |           |
| Isolation Vehicle Impedance                       | 7.6655                  | Mega Ohms |
| Isolation Battery Diagnostic Status               | Run and Passed          |           |
| Isolation Battery Impedance                       | 0.8480                  | Mega Ohms |
| HV Bat SOH-R                                      | 98.4                    | %         |
| HV Bat SOH-C                                      | 92.9                    | %         |
| BPCM Sec Asic Reset Req                           | Not Active              |           |
| BPCM Sec QA Error Counter                         | 0                       | cnts      |
| BPCM Sec MM Hw Reset Error Counter                | 0                       | cnts      |
| BPCM Sec Asic Fault Input                         | Not 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 L2 Contactor Dslb Req                        | Undetermined            |           |
| BPCM L2 ASIC Diagnostic Flt Rsn                   | ADCTest                 |           |
| BPCM Sec HW Timer Status                          | Not Active              |           |
| BPCM Sec Contactor State                          | Open                    |           |
| BPCM Main HW Timer Status                         | Not Active              |           |
| BPCM Sec Asic Fault State                         | NOTASSERTED             |           |
| BPCM L2 SM Hw Reset Error Counter                 | 0                       | No Unit   |
| Engine Speed                                      | 0                       | rpm       |
| Accelerator position                              | 0.0                     | %         |



|                                         |             |         |
|-----------------------------------------|-------------|---------|
| Real time clock                         | 429496.7295 | seconds |
| Real time clock-OS Task Delay Timer     | 0           |         |
| Real Time Clock Validity                | True        |         |
| DTC                                     | 05 62 00    |         |
| Test Failed                             | False       |         |
| Test Failed This Operation Cycle        | False       |         |
| Pending DTC                             | False       |         |
| Confirmed DTC                           | True        |         |
| Test Not Completed Since Last Clear     | False       |         |
| Test Failed Since Last Clear            | True        |         |
| Test Not Completed This Operation Cycle | False       |         |
| Warning Indicator Requested             | False       |         |
| DTC Extended Data Record Number - All   | 01          |         |
| Occurrence flag                         | Error       |         |
| Original Odometer Value                 | 6800        | miles   |
| Most Recent Odometer Value              | 6800        | miles   |
| DTC Extended Data Record Number - 2     | 00          |         |

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

| NAME                                                           | VALUE                  | UNITS   |
|----------------------------------------------------------------|------------------------|---------|
| Frequency Counter                                              | 1                      |         |
| Ignition Cycle Counter                                         | 0                      |         |
| FoM - for this DTC (lifetime fails)                            | 1                      | events  |
| FoM - for this DTC (lifetime fails counts on pass)             | 0.0000                 | seconds |
| FoM - for this DTC (lifetime longest fail on pass)             | 0.000                  | seconds |
| Battery Total Time Awake                                       | 11051383               | seconds |
| Key in Ignition                                                | Key_Def                |         |
| Key Position                                                   | Ign_Run                |         |
| EPT -WakeUp                                                    | Sourced                |         |
| HCP Contactor Command                                          | Closed                 |         |
| Qualified Contactor Command - QCC                              | Closed                 |         |
| Verified Contactor Command - VCC                               | Closed Restricted      |         |
| Contactor Status                                               | Closed                 |         |
| Plug in Status                                                 | Not plugged in         |         |
| 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                  |         |
| Vehicle mileage at time of fault (ODO signal in \$3D2)         | 6800.58                | miles   |
| Battery Lifetime Miles                                         | CD77E3                 | miles   |
| Vehicle Speed                                                  | 59.0                   | MPH     |
| System (12) Volts at time of fault                             | 12.720                 | Volts   |
| Battery Lifetime AmpHrs of Charge                              | 3206.6                 | AHr     |
| Battery Lifetime AmpHrs of DisCharge                           | 3173.2                 | AHr     |

|                                                                  |        |         |
|------------------------------------------------------------------|--------|---------|
| SOC at time of Fault                                             | 85.5   | %       |
| Power Up SOC at time of Fault                                    | 90.2   | %       |
| HVIL Status -Vehicle                                             | PASS   |         |
| HVIL Status - Battery pack                                       | PASS   |         |
| HVIL PWM Duty Cycle - Vehicle                                    | 50.2   | %       |
| HVIL PWM Frequency - Vehicle                                     | 87.9   | Hz      |
| HVIL PWM peak voltage Sourced - Vehicle                          | 11.565 | Volts   |
| HVIL PWM peak voltage Sensed - Vehicle                           | 11.465 | Volts   |
| HVIL Source Voltage- Battery                                     | 1.385  | Volts   |
| HVIL Returned current - Battery                                  | 30.70  | mA      |
| HV Battery Current Sensor 1 Hall High                            | -0.60  | Amps    |
| HV Battery Current Sensor 2 Hall Low                             | 0.00   | Amps    |
| HV Battery Current HVBatCmnt                                     | 0.00   | Amps    |
| HV Cooling Speed Pump 1 Target                                   | 0      | rpm     |
| HV Cooling Speed pump 1 Speed                                    | 0      | rpm     |
| Charge indicator Temp                                            | 111    | °F      |
| BPCM temperature max                                             | 86     | °F      |
| BPCM temperature min                                             | 86     | °F      |
| Pump - Wire Open\Short to Gnd                                    | PASS   |         |
| Pump - Dry Run Detection                                         | PASS   |         |
| Pump - Overcurrent                                               | PASS   |         |
| Pump - Overtemperature                                           | PASS   |         |
| Pump - Switch Power Shorted                                      | PASS   |         |
| Isolation Circuitry Va                                           | 2.497  | Volts   |
| Isolation Circuitry Vb                                           | 2.501  | Volts   |
| Isolation Circuitry Vd                                           | 0.000  | Volts   |
| WC and Circuitry 2.5V Reference Voltage                          | 2.500  | Volts   |
| WC and Circuitry Vcc Voltage                                     | 5.009  | Volts   |
| WC and CircuitryISO 8V Reference Voltage                         | 7.934  | Volts   |
| WC and Circuitry Weld Contactor Sensor G (Pack Negative) Voltage | -1.6   | Volts   |
| Cycles left to self heal                                         | 40     | No Unit |
| Fault trigger level 1                                            | False  |         |
| Fault trigger level 2                                            | False  |         |
| Fault trigger level 3                                            | False  |         |
| Fault Path                                                       | 01     |         |
| HV Battery Charge Power 2sec                                     | 98406  | watts   |
| HV Battery Charge Power 10sec                                    | 79479  | watts   |
| HV Battery Discharge Power 2sec                                  | 63651  | watts   |
| HV Battery Discharge Power 10sec                                 | 61668  | watts   |
| HV Battery Power                                                 | 007530 | watts   |
| Key - DriveRdy (CAN)                                             | True   |         |
| Battery Lifetime Number Of Closes                                | 830    |         |
| Battery Full AmpHr Capacity                                      | 48     | AmpHrs  |
| Cell Impedance Max Discharge                                     | 0      | mOhms   |

|                                                   |                         |           |
|---------------------------------------------------|-------------------------|-----------|
| Cell Impedance Mim Discharge                      | 0                       | mOhms     |
| Battery Cell Voltage Maximum                      | 3973                    | mV        |
| Battery Cell Voltage Minimum                      | 3956                    | mV        |
| Battery Cell Voltage Average                      | 3965                    | mV        |
| Battery Cell Highest Cell number                  | 92                      |           |
| Battery Cell Lowest Cell number                   | 72                      |           |
| HV Battery Voltage (cell sum)                     | 380.70                  | Volts     |
| HV Battery Voltage (Module Sum)                   | 380.50                  | Volts     |
| HV Sensor A Pack Voltage                          | 154.40                  | Volts     |
| HV Sensor B Bus\Link (Pre-Fuse) Voltage           | 154.30                  | Volts     |
| HV Sensor C OBCM (HVOBC Fuse) Voltage             | 154.30                  | Volts     |
| HV Sensor D Heater (HVHTR Fuse) Voltage           | 154.30                  | Volts     |
| HV Sensor G Weld Contactor(Pack Negative) Voltage | -1.6                    | Volts     |
| Battery Temperature Maximum Module                | 86                      | °F        |
| Battery Temperature Minimum Module                | 86                      | °F        |
| Battery Temperature Average Module                | 86                      | °F        |
| Battery Temperature Highest Sensor number         | 07                      |           |
| Battery Temperature Lowest Sensor number          | 01                      |           |
| Battery Temperature Number of Failing Sensors     | 00                      |           |
| HV Cooling Pump Relay Drive                       | Not Sourced             |           |
| HV Cooling Battery coolant inlet temp             | 82                      | °F        |
| HV Cooling Battery coolant outlet temp            | 84                      | °F        |
| HV Cooling OBCM temp inlet Temp                   | 86                      | °F        |
| Pump - Battery Coolant Level Low                  | False                   |           |
| Isolation Vehicle Diagnostic Status               | Run and Passed          |           |
| Isolation Vehicle Impedance                       | 7.6655                  | Mega Ohms |
| Isolation Battery Diagnostic Status               | Run and Passed          |           |
| Isolation Battery Impedance                       | 0.8480                  | Mega Ohms |
| HV Bat SOH-R                                      | 98.4                    | %         |
| HV Bat SOH-C                                      | 92.9                    | %         |
| BPCM Sec Asic Reset Req                           | Not Active              |           |
| BPCM Sec QA Error Counter                         | 0                       | cnts      |
| BPCM Sec MM Hw Reset Error Counter                | 0                       | cnts      |
| BPCM Sec Asic Fault Input                         | Not 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 L2 Contactor Dslb Req                        | Undetermined            |           |
| BPCM L2 ASIC Diagnostic Flt Rsn                   | ADCTest                 |           |
| BPCM Sec HW Timer Status                          | Not Active              |           |
| BPCM Sec Contactor State                          | Close                   |           |
| BPCM Main HW Timer Status                         | Not Active              |           |
| BPCM Sec Asic Fault State                         | NOTASSERTED             |           |
| BPCM L2 SM Hw Reset Error Counter                 | 0                       | No Unit   |

|                                         |             |         |
|-----------------------------------------|-------------|---------|
| Engine Speed                            | 0           | rpm     |
| Accelerator position                    | 7.5         | %       |
| Real time clock                         | 429496.7295 | seconds |
| Real time clock-OS Task Delay Timer     | 1           |         |
| Real Time Clock Validity                | True        |         |
| DTC                                     | 0A 95 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             | False       |         |
| DTC Extended Data Record Number - All   | 01          |         |
| Occurrence flag                         | Error       |         |
| Original Odometer Value                 | 6800        | miles   |
| Most Recent Odometer Value              | 6800        | miles   |
| DTC Extended Data Record Number - 2     | 08          |         |

#### BPCM | P1A21-00 | Stored | HV Battery Contactor Control Sequence Incorrect-

| NAME                                                           | VALUE                | UNITS   |
|----------------------------------------------------------------|----------------------|---------|
| Frequency Counter                                              | 1                    |         |
| Ignition Cycle Counter                                         | 8                    |         |
| FoM - for this DTC (lifetime fails)                            | 1                    | events  |
| FoM - for this DTC (lifetime fails counts on pass)             | 0.0000               | seconds |
| FoM - for this DTC (lifetime longest fail on pass)             | 0.000                | seconds |
| Battery Total Time Awake                                       | 10700671             | seconds |
| Key in Ignition                                                | Key_Def              |         |
| Key Position                                                   | Ign_Lock             |         |
| EPT -WakeUp                                                    | Sourced              |         |
| HCP Contactor Command                                          | Closed               |         |
| Qualified Contactor Command - QCC                              | Closed               |         |
| Verified Contactor Command - VCC                               | Closed Restricted    |         |
| Contactor Status                                               | Open                 |         |
| Plug in Status                                                 | Waiting for Command  |         |
| ChargingLevel                                                  | Plug In Not Detected |         |
| 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                |         |
| Vehicle mileage at time of fault (ODO signal in \$3D2)         | 6594.76              | miles   |
| Battery Lifetime Miles                                         | CD72B6               | miles   |
| Vehicle Speed                                                  | 0.0                  | MPH     |
| System (12) Volts at time of fault                             | 12.899               | Volts   |

|                                                                  |        |         |
|------------------------------------------------------------------|--------|---------|
| Battery Lifetime AmpHrs of Charge                                | 3090.9 | AHr     |
| Battery Lifetime AmpHrs of DisCharge                             | 3083.8 | AHr     |
| SOC at time of Fault                                             | 31.0   | %       |
| Power Up SOC at time of Fault                                    | 23.1   | %       |
| HVIL Status -Vehicle                                             | PASS   |         |
| HVIL Status - Battery pack                                       | PASS   |         |
| HVIL PWM Duty Cycle - Vehicle                                    | 50.2   | %       |
| HVIL PWM Frequency - Vehicle                                     | 87.9   | Hz      |
| HVIL PWM peak voltage Sourced - Vehicle                          | 11.593 | Volts   |
| HVIL PWM peak voltage Sensed - Vehicle                           | 11.459 | Volts   |
| HVIL Source Voltage- Battery                                     | 1.385  | Volts   |
| HVIL Returned current - Battery                                  | 30.90  | mA      |
| HV Battery Current Sensor 1 Hall High                            | -1.90  | Amps    |
| HV Battery Current Sensor 2 Hall Low                             | 0.00   | Amps    |
| HV Battery Current HVBatCmnt                                     | 0.00   | Amps    |
| HV Cooling Speed Pump 1 Target                                   | 0      | rpm     |
| HV Cooling Speed pump 1 Speed                                    | 0      | rpm     |
| Charge indicator Temp                                            | 147    | °F      |
| BPCM temperature max                                             | 99     | °F      |
| BPCM temperature min                                             | 93     | °F      |
| Pump - Wire Open\Short to Gnd                                    | PASS   |         |
| Pump - Dry Run Detection                                         | PASS   |         |
| Pump - Overcurrent                                               | PASS   |         |
| Pump - Overtemperature                                           | PASS   |         |
| Pump - Switch Power Shorted                                      | PASS   |         |
| Isolation Circuitry Va                                           | 2.497  | Volts   |
| Isolation Circuitry Vb                                           | 2.501  | Volts   |
| Isolation Circuitry Vd                                           | 0.000  | Volts   |
| WC and Circuitry 2.5V Reference Voltage                          | 2.500  | Volts   |
| WC and Circuitry Vcc Voltage                                     | 5.012  | Volts   |
| WC and CircuitryISO 8V Reference Voltage                         | 7.927  | Volts   |
| WC and Circuitry Weld Contactor Sensor G (Pack Negative) Voltage | -180.6 | Volts   |
| Cycles left to self heal                                         | 40     | No Unit |
| Fault trigger level 1                                            | False  |         |
| Fault trigger level 2                                            | False  |         |
| Fault trigger level 3                                            | False  |         |
| Fault Path                                                       | 01     |         |
| HV Battery Charge Power 2sec                                     | 94530  | watts   |
| HV Battery Charge Power 10sec                                    | 93168  | watts   |
| HV Battery Discharge Power 2sec                                  | 94428  | watts   |
| HV Battery Discharge Power 10sec                                 | 92475  | watts   |
| HV Battery Power                                                 | 007530 | watts   |
| Key - DriveRdy (CAN)                                             | True   |         |
| Battery Lifetime Number Of Closes                                | 788    |         |

|                                                   |                         |           |
|---------------------------------------------------|-------------------------|-----------|
| Battery Full AmpHr Capacity                       | 48                      | AmpHrs    |
| Cell Impedance Max Discharge                      | 0                       | mOhms     |
| Cell Impedance Mim Discharge                      | 0                       | mOhms     |
| Battery Cell Voltage Maximum                      | 3611                    | mV        |
| Battery Cell Voltage Minimum                      | 3605                    | mV        |
| Battery Cell Voltage Average                      | 3608                    | mV        |
| Battery Cell Highest Cell number                  | 80                      |           |
| Battery Cell Lowest Cell number                   | 72                      |           |
| HV Battery Voltage (cell sum)                     | 346.40                  | Volts     |
| HV Battery Voltage (Module Sum)                   | 346.20                  | Volts     |
| HV Sensor A Pack Voltage                          | 346.50                  | Volts     |
| HV Sensor B Bus\Link (Pre-Fuse) Voltage           | 98.30                   | Volts     |
| HV Sensor C OBCM (HVOBC Fuse) Voltage             | 97.30                   | Volts     |
| HV Sensor D Heater (HVHTR Fuse) Voltage           | 191.70                  | Volts     |
| HV Sensor G Weld Contactor(Pack Negative) Voltage | -180.6                  | Volts     |
| Battery Temperature Maximum Module                | 99                      | °F        |
| Battery Temperature Minimum Module                | 93                      | °F        |
| Battery Temperature Average Module                | 95                      | °F        |
| Battery Temperature Highest Sensor number         | 06                      |           |
| Battery Temperature Lowest Sensor number          | 10                      |           |
| Battery Temperature Number of Failing Sensors     | 00                      |           |
| HV Cooling Pump Relay Drive                       | Not Sourced             |           |
| HV Cooling Battery coolant inlet temp             | 106                     | °F        |
| HV Cooling Battery coolant outlet temp            | 106                     | °F        |
| HV Cooling OBCM temp inlet Temp                   | 142                     | °F        |
| Pump - Battery Coolant Level Low                  | False                   |           |
| Isolation Vehicle Diagnostic Status               | Run and Passed          |           |
| Isolation Vehicle Impedance                       | 7.7142                  | Mega Ohms |
| Isolation Battery Diagnostic Status               | Run and Passed          |           |
| Isolation Battery Impedance                       | 0.8480                  | Mega Ohms |
| HV Bat SOH-R                                      | 99.2                    | %         |
| HV Bat SOH-C                                      | 92.2                    | %         |
| BPCM Sec Asic Reset Req                           | Not Active              |           |
| BPCM Sec QA Error Counter                         | 0                       | cnts      |
| BPCM Sec MM Hw Reset Error Counter                | 0                       | cnts      |
| BPCM Sec Asic Fault Input                         | Not 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 L2 Contactor Dslb Req                        | Undetermined            |           |
| BPCM L2 ASIC Diagnostic Flt Rsn                   | ADCTest                 |           |
| BPCM Sec HW Timer Status                          | Not Active              |           |
| BPCM Sec Contactor State                          | Open                    |           |
| BPCM Main HW Timer Status                         | Not Active              |           |

|                                         |             |         |
|-----------------------------------------|-------------|---------|
| BPCM Sec Asic Fault State               | NOTASSERTED |         |
| BPCM L2 SM Hw Reset Error Counter       | 0           | No Unit |
| Engine Speed                            | 0           | rpm     |
| Accelerator position                    | 0.0         | %       |
| Real time clock                         | 429496.7295 | seconds |
| Real time clock-OS Task Delay Timer     | 0           |         |
| Real Time Clock Validity                | True        |         |
| DTC                                     | 1A 21 00    |         |
| Test Failed                             | False       |         |
| Test Failed This Operation Cycle        | False       |         |
| Pending DTC                             | False       |         |
| Confirmed DTC                           | True        |         |
| Test Not Completed Since Last Clear     | False       |         |
| Test Failed Since Last Clear            | True        |         |
| Test Not Completed This Operation Cycle | False       |         |
| Warning Indicator Requested             | False       |         |
| DTC Extended Data Record Number - All   | 01          |         |
| Occurrence flag                         | Error       |         |
| Original Odometer Value                 | 6592        | miles   |
| Most Recent Odometer Value              | 6592        | miles   |
| DTC Extended Data Record Number - 2     | 5D          |         |

#### HCP | P084F-00 | Stored | Park/Neutral Switch Output-

| NAME                                    | VALUE       | UNITS |
|-----------------------------------------|-------------|-------|
| DTC                                     | 08 4F 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                         | Occurrence  |       |
| Original Odometer Value                 | 6800.7      | miles |
| Most Recent Odometer Value              | 6800.7      | miles |
| Frequency Counter                       | 2           |       |
| Ignition Cycle Counter                  | 0           |       |
| Real time clock                         | 11290182    | sec   |
| RAM stamps keyOn                        | 0           | sec   |
| RAM Stamps                              | 3           | Min   |
| Accelerator Pedal Position              | 0           | %     |
| Brake Switch Status                     | Not Applied |       |
| PHEV Charging Status                    | No Charging |       |

|                                      |                                    |        |
|--------------------------------------|------------------------------------|--------|
| Engine Speed                         | 0                                  | rpm    |
| HV Battery SOC                       | 85                                 | %      |
| Ignition State                       | Ignition Lock                      |        |
| PRND Position Display                | P                                  |        |
| Propulsion System Active             | False                              |        |
| Vehicle Speed                        | 0.0000                             | MPH    |
| Barometric Pressure                  | 15                                 | PSI    |
| Engine Coolant Temperature           | 176                                | °F     |
| PP Actuator Position Sensor Voltage  | 3.96                               | Volts  |
| Shift Lock Status                    | Locked                             |        |
| Reverse Shift Lock Status            | Unlocked                           |        |
| PRND Blink                           | Initialization                     |        |
| Auto Correction Request              | APCM Off                           |        |
| Park Pawl Motor PWM1                 | 0                                  | %      |
| Park Pawl Motor Direction            | Out of Park/Move Towards Disengage |        |
| Park Pawl Motor Enable Feedback      | Disabled                           |        |
| Park Pawl Motor Current              | 0.1                                | AMP    |
| Park Pawl Motor Counts               | 396                                | Counts |
| Park Pawl Status Feedback            | Segment Two Complete               |        |
| Park Gated Switch                    | In Park                            |        |
| Failure Reasons for Level 2 eShift   | Reserved                           |        |
| Battery Feed Voltage 2 Sense         | 11.664                             | Volts  |
| Battery Feed Voltage 3 Sense         | 11.736                             | Volts  |
| Internal EPS Voltage Sense A         | 0.000                              | Volts  |
| Internal EPS Voltage Sense B         | 0.000                              | Volts  |
| Battery Feed Voltage 1 Sense         | 11.664                             | Volts  |
| Hybrid System State                  | Determine Hybrid System State      |        |
| Actual Torque - Motor A              | 0.000                              | Ft-Lbs |
| Actual Torque - Motor B              | 0.000                              | Ft-Lbs |
| Available Motor Torque - Motor A     | 43.603                             | Ft-Lbs |
| Available Motor Torque - Motor B     | 116.150                            | Ft-Lbs |
| Available Regen Torque - Motor A     | -43.603                            | Ft-Lbs |
| Available Regen Torque - Motor B     | -116.150                           | 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 | -4                                 | AMP    |
| Motor A - Inverter Current - phase C | 0                                  | AMP    |
| Motor B - Inverter Current - phase A | -4                                 | AMP    |
| Motor B - Inverter Current - phase B | 0                                  | AMP    |
| Motor B - Inverter Current - phase C | -4                                 | AMP    |
| Motor A Resolver Angle               | 74                                 | Degree |
| Motor B Resolver Angle               | 308                                | Degree |
| Motor A Temp Sensor                  | 77                                 | °F     |



|                                         |                               |         |
|-----------------------------------------|-------------------------------|---------|
| Motor B Temp Sensor                     | 75                            | °F      |
| Outside Air Temperature                 | 77.9                          | °F      |
| HCP ePT Wake-Up Output                  | On                            |         |
| CBC Wake-Up Input                       | On                            |         |
| EPT LOC Diag Enable                     | Enable Limited LOC Diagnostic |         |
| HV Contactor Status                     | Open                          |         |
| HV Battery Voltage from BPCM            | 180.00                        | Volts   |
| Electric Motor A Speed                  | 0.5                           | rpm     |
| Electric Motor B Speed                  | 0.0                           | rpm     |
| PIM DC Link Voltage - A                 | 2                             | Volts   |
| PIM DC Link Voltage - B                 | 2                             | Volts   |
| Inverter A IGBT Temperature for phase A | 73                            | °F      |
| Inverter A IGBT Temperature for phase B | 73                            | °F      |
| Inverter A IGBT Temperature for phase C | 73                            | °F      |
| Inverter B IGBT Temperature for phase A | 73                            | °F      |
| Inverter B IGBT Temperature for phase B | 73                            | °F      |
| Inverter B IGBT Temperature for phase C | 73                            | °F      |
| APM Status                              | Idle                          |         |
| Impact Event                            | False                         |         |
| HCP System Shutdown Command             | Default                       |         |
| Distance Travelled with Light ON        | 0                             | miles   |
| Motor A Torque                          | 0.000                         | Ft-Lbs  |
| Motor B Torque                          | 0.000                         | Ft-Lbs  |
| OBCM Operating Mode                     | UTC                           |         |
| J1772 Prox Detected State               | Prox Out                      |         |
| HV Battery Sleep Time                   | 2                             | 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                      | 2                             | seconds |
| ECU Time - Milliseconds                 | 619                           | ms      |

#### 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      |

**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                         |          |        |
| 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     |
| 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 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

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

Hybrid System State

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

HV Contactor Status

Inverter B Status Feedback

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

HCP ePT Wake-Up Output

CBC Wake-Up Input

EPT LOC Diag Enable

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

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   |
| 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

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                         |          |       |
| 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     |
| Actual Torque - Motor B                                             |  | Ft-Lbs |
| Available Motor Torque - Motor B                                    |  | Ft-Lbs |
| Inverter B Input DC Current                                         |  | AMP    |
| Electric Motor B Speed                                              |  | rpm    |
| Commanded Inverter B State                                          |  |        |
| Motor B - Inverter Current - phase A                                |  | AMP    |
| Motor B - Inverter Current - phase B                                |  | AMP    |
| Motor B - Inverter Current - phase C                                |  | AMP    |
| 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                     |  |        |
| 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  |
| Hybrid System State                                                 |  |        |
| 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     |
| 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    |
| 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   |
| 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  |  |         |
| 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 | Stored | MCPA HV Battery System Voltage High-

| NAME                                    | VALUE       | UNITS |
|-----------------------------------------|-------------|-------|
| DTC                                     | 1A EE 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                         | Occurrence  |       |
| Original Odometer Value                 | 6800.7      | miles |
| Most Recent Odometer Value              | 6800.7      | miles |
| Frequency Counter                       | 1           |       |
| Ignition Cycle Counter                  | 0           |       |
| Real time clock                         | 11051378    | sec   |
| RAM stamps keyOn                        | 240         | sec   |
| RAM Stamps                              | 39770       | Min   |
| Accelerator Pedal Position              | 0           | %     |
| Brake Switch Status                     | Not Applied |       |
| PHEV Charging Status                    | No Charging |       |
| Engine Speed                            | 4118        | rpm   |

|                                                                     |          |        |
|---------------------------------------------------------------------|----------|--------|
| HV Battery SOC                                                      | 85       | %      |
| Ignition State                                                      | Reserved |        |
| PRND Position Display                                               | N        |        |
| Propulsion System Active                                            | False    |        |
| Vehicle Speed                                                       | 64.3508  | MPH    |
| Barometric Pressure                                                 | 12       | PSI    |
| Engine Coolant Temperature                                          | 88       | °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                                              | 8662.5   | rpm    |
| Motor A - Inverter Current - phase A                                | -4       | AMP    |
| Motor A - Inverter Current - phase B                                | 0        | AMP    |
| Motor A - Inverter Current - phase C                                | 0        | AMP    |
| 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                         | False    |        |
| 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                          | False    |        |
| 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 | False    |        |
| Motor A Phase V Comm Error Low Voltage Regulator Fault - High-Side  | False    |        |
| Motor A Phase V SPI Error Fault - High-Side                         | False    |        |
| 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                         | False                         |        |
| 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 | False                         |        |
| Motor A Phase W SPI Error Fault - High-Side                        | False                         |        |
| 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  | False                         |        |
| Motor A Phase W SPI Error Fault - Low-Side                         | False                         |        |
| Motor A Phase W Hardware Error Fault - Low-Side                    | False                         |        |
| Motor A Resolver Supply Voltage Value                              | 15.75                         | Volts  |
| Battery Feed Voltage 2 Sense                                       | 13.536                        | Volts  |
| Battery Feed Voltage 3 Sense                                       | 13.392                        | Volts  |
| Internal EPS Voltage Sense A                                       | 8.136                         | Volts  |
| Internal EPS Voltage Sense B                                       | 8.064                         | Volts  |
| Hybrid System State                                                | Determine Hybrid System State |        |
| PIM DC Link Voltage - A                                            | 2                             | Volts  |
| PIM DC Link Voltage - B                                            | 193                           | Volts  |
| Passive Pump Coolant Temp In Sensor                                | 84                            | °F     |
| Low Temp Active Pump Speed                                         | 0                             | rpm    |
| High Temp Aux Pump - Actual Speed                                  | 3000                          | rpm    |
| Outside Air Temperature                                            | 75.2                          | °F     |
| HV Contactor Status                                                | Closed                        |        |
| Inverter B Status Feedback                                         | Inverter Faulted              |        |
| Battery Feed Voltage 1 Sense                                       | 13.536                        | Volts  |
| Actual Torque - Motor B                                            | -1.567                        | 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                               | 204                           | AMP    |
| Motor B - Inverter Current - phase B                               | -12                           | AMP    |
| Motor B - Inverter Current - phase C                               | -208                          | AMP    |
| Motor B Resolver Angle                                             | 212                           | Degree |
| Motor B Temp Sensor                                                | 108                           | °F     |
| HCP ePT Wake-Up Output                                             | On                            |        |

|                                                                    |                       |        |
|--------------------------------------------------------------------|-----------------------|--------|
| CBC Wake-Up Input                                                  | Off                   |        |
| EPT LOC Diag Enable                                                | Enable LOC Diagnostic |        |
| HV Battery Voltage from BPCM                                       | 180.00                | Volts  |
| Electric Motor B Speed                                             | 7050.5                | rpm    |
| Inverter A IGBT Temperature for phase A                            | 95                    | °F     |
| Inverter A IGBT Temperature for phase B                            | 93                    | °F     |
| Inverter A IGBT Temperature for phase C                            | 93                    | °F     |
| Inverter B IGBT Temperature for phase A                            | 93                    | °F     |
| Inverter B IGBT Temperature for phase B                            | 93                    | °F     |
| Inverter B IGBT Temperature for phase C                            | 97                    | °F     |
| APM Status                                                         | Buck CV               |        |
| Impact Event                                                       | False                 |        |
| HCP System Shutdown Command                                        | Default               |        |
| Distance Travelled with Light ON                                   | 0                     | miles  |
| Motor A Torque                                                     | 0.000                 | Ft-Lbs |
| Motor B Torque                                                     | -1.567                | Ft-Lbs |
| OBCM Operating Mode                                                | UTC                   |        |
| J1772 Prox Detected State                                          | Prox Out              |        |
| HV Battery Sleep Time                                              | 0                     | Days   |
| Commanded Inverter A State                                         | Torque Control        |        |
| 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 |         |
| GPS Date - Year                                                     | 2022             | Year    |
| GPS Date - Month                                                    | 8                |         |
| GPS Date - Day                                                      | 12               | Days    |
| UTC Time - Hours                                                    | 21               | Hours   |
| UTC Time - Minutes                                                  | 41               |         |
| UTC Time - Seconds                                                  | 1                | seconds |
| ECU Time - Milliseconds                                             | 588              | ms      |

#### HCP | P1AEF-00 | Stored | MCPB High Voltage Battery System Voltage High-

| NAME                                    | VALUE      | UNITS |
|-----------------------------------------|------------|-------|
| DTC                                     | 1A EF 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                         | Occurrence |       |
| Original Odometer Value                 | 6800.7     | miles |
| Most Recent Odometer Value              | 6800.7     | miles |
| Frequency Counter                       | 1          |       |



|                                                                     |                  |        |
|---------------------------------------------------------------------|------------------|--------|
| Ignition Cycle Counter                                              | 0                |        |
| Real time clock                                                     | 11051378         | sec    |
| RAM stamps keyOn                                                    | 240              | sec    |
| RAM Stamps                                                          | 39770            | Min    |
| Accelerator Pedal Position                                          | 0                | %      |
| Brake Switch Status                                                 | Not Applied      |        |
| PHEV Charging Status                                                | No Charging      |        |
| Engine Speed                                                        | 3976             | rpm    |
| HV Battery SOC                                                      | 85               | %      |
| Ignition State                                                      | Reserved         |        |
| PRND Position Display                                               | N                |        |
| Propulsion System Active                                            | False            |        |
| Vehicle Speed                                                       | 64.1517          | MPH    |
| Barometric Pressure                                                 | 12               | PSI    |
| Engine Coolant Temperature                                          | 88               | °F     |
| Actual Torque - Motor B                                             | -1.291           | Ft-Lbs |
| Available Motor Torque - Motor B                                    | 0.000            | Ft-Lbs |
| Inverter B Input DC Current                                         | 0.0              | AMP    |
| Electric Motor B Speed                                              | 7072.0           | rpm    |
| Commanded Inverter B State                                          | Torque Control   |        |
| Motor B - Inverter Current - phase A                                | 64               | AMP    |
| Motor B - Inverter Current - phase B                                | -232             | AMP    |
| Motor B - Inverter Current - phase C                                | 160              | AMP    |
| 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 | 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 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  | False            |        |
| 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                      | 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 | False                         |        |
| 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                       | 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  | False                         |        |
| 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                      | False                         |        |
| Motor B Phase W Thermal Warning Fault - High-Side                   | False                         |        |
| Motor B Phase W Comm Error High Voltage Regulator Fault - High-Side | False                         |        |
| 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                       | 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  | False                         |        |
| 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                         |        |
| Motor B Resolver Supply Voltage Value                               | 15.75                         | Volts  |
| Battery Feed Voltage 2 Sense                                        | 13.392                        | Volts  |
| Internal EPS Voltage Sense A                                        | 8.136                         | Volts  |
| Internal EPS Voltage Sense B                                        | 8.064                         | Volts  |
| Battery Feed Voltage 1 Sense                                        | 13.392                        | Volts  |
| Battery Feed Voltage 3 Sense                                        | 13.248                        | Volts  |
| Hybrid System State                                                 | Determine Hybrid System State |        |
| Actual Torque - Motor A                                             | -0.369                        | 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                               | 0                     | AMP    |
| Motor A - Inverter Current - phase B                               | 0                     | AMP    |
| Motor A - Inverter Current - phase C                               | -4                    | AMP    |
| Motor A Resolver Angle                                             | 268                   | Degree |
| Motor A Temp Sensor                                                | 104                   | °F     |
| Outside Air Temperature                                            | 75.2                  | °F     |
| HCP ePT Wake-Up Output                                             | On                    |        |
| CBC Wake-Up Input                                                  | Off                   |        |
| EPT LOC Diag Enable                                                | Enable LOC Diagnostic |        |
| HV Contactor Status                                                | Closed                |        |
| HV Battery Voltage from BPCM                                       | 189.90                | Volts  |
| Electric Motor A Speed                                             | 7702.5                | rpm    |
| PIM DC Link Voltage - A                                            | 2                     | Volts  |
| PIM DC Link Voltage - B                                            | 193                   | Volts  |
| Inverter A IGBT Temperature for phase A                            | 95                    | °F     |
| Inverter A IGBT Temperature for phase B                            | 93                    | °F     |
| Inverter A IGBT Temperature for phase C                            | 93                    | °F     |
| Inverter B IGBT Temperature for phase A                            | 93                    | °F     |
| Inverter B IGBT Temperature for phase B                            | 93                    | °F     |
| Inverter B IGBT Temperature for phase C                            | 97                    | °F     |
| APM Status                                                         | Buck CV               |        |
| Impact Event                                                       | False                 |        |
| HCP System Shutdown Command                                        | Default               |        |
| Distance Travelled with Light ON                                   | 0                     | miles  |
| Motor A Torque                                                     | -0.369                | Ft-Lbs |
| Motor B Torque                                                     | -1.291                | Ft-Lbs |
| OBCM Operating Mode                                                | UTC                   |        |
| J1772 Prox Detected State                                          | Prox Out              |        |
| HV Battery Sleep Time                                              | 0                     | Days   |
| 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 Comm Error Low Voltage Regulator Fault - 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 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 |         |
| GPS Date - Year                                     | 2022  | Year    |
| GPS Date - Month                                    | 8     |         |
| GPS Date - Day                                      | 12    | Days    |
| UTC Time - Hours                                    | 21    | Hours   |
| UTC Time - Minutes                                  | 41    |         |
| UTC Time - Seconds                                  | 1     | seconds |
| ECU Time - Milliseconds                             | 738   | ms      |

**DSM | B2199-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold**

| NAME                                    | VALUE    | UNITS |
|-----------------------------------------|----------|-------|
| DTC                                     | A1 99 16 |       |
| Test Failed                             | False    |       |
| Pending DTC                             | False    |       |
| Test Failed This Operation Cycle        | 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            | Occurrence |       |
| Original Odometer Value    | 6800       | miles |
| Most Recent Odometer Value | 6800       | miles |
| Frequency Counter          | 1          |       |
| Ignition Cycle Counter     | 5          |       |

**DSM | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range**

| NAME                                    | VALUE      | UNITS |
|-----------------------------------------|------------|-------|
| DTC                                     | A1 DD 84   |       |
| Test Failed                             | False      |       |
| Pending DTC                             | False      |       |
| Test Failed This Operation Cycle        | 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                         | Occurrence |       |
| Original Odometer Value                 | 6800       | miles |
| Most Recent Odometer Value              | 6800       | miles |
| Frequency Counter                       | 1          |       |
| Ignition Cycle Counter                  | 5          |       |

**RCCC | B2199-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold**

| NAME                                    | VALUE      | UNITS |
|-----------------------------------------|------------|-------|
| DTC                                     | A1 99 16   |       |
| Test Failed                             | False      |       |
| Test Failed This Operation Cycle        | False      |       |
| Pending DTC                             | False      |       |
| Confirmed DTC                           | True       |       |
| Test Not Completed Since Last Clear     | False      |       |
| Test Failed Since Last Clear            | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| DTC Extended Data Record Number - All   | 01         |       |
| Occurrence flag                         | Occurrence |       |
| Original Odometer Value                 | 6800       | miles |
| Most Recent Odometer Value              | 6800       | miles |
| Frequency Counter                       | 1          |       |
| Ignition Cycle Counter                  | 4          |       |

**RCCC | B21DD-84 | Stored | System Voltage-Signal Below Allowable Range**

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

|                                         |            |       |
|-----------------------------------------|------------|-------|
| DTC                                     | A1 DD 84   |       |
| Test Failed                             | False      |       |
| Test Failed This Operation Cycle        | False      |       |
| Pending DTC                             | False      |       |
| Confirmed DTC                           | True       |       |
| Test Not Completed Since Last Clear     | False      |       |
| Test Failed Since Last Clear            | True       |       |
| Test Not Completed This Operation Cycle | False      |       |
| Warning Indicator Requested             | False      |       |
| DTC Extended Data Record Number - All   | 01         |       |
| Occurrence flag                         | Occurrence |       |
| Original Odometer Value                 | 6800       | miles |
| Most Recent Odometer Value              | 6800       | miles |
| Frequency Counter                       | 1          |       |
| Ignition Cycle Counter                  | 4          |       |

**ABSO | C2222-00 | Active | Improper Powerdown-**

| NAME                                    | VALUE      | UNITS |
|-----------------------------------------|------------|-------|
| DTC                                     | 62 22 00   |       |
| Test Failed                             | True       |       |
| Test Failed This Operation Cycle        | False      |       |
| Pending DTC                             | True       |       |
| Confirmed DTC                           | True       |       |
| 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                         | Error      |       |
| Controller Event                        | No         |       |
| Mirror Memory                           | No         |       |
| Undervoltage Suspected                  | No         |       |
| Original Odometer Value                 | 0          | miles |
| Most Recent Odometer Value              | 6800       | miles |
| Frequency Counter                       | 1          |       |
| Ignition Cycle Counter                  | 0          |       |
| Fault Time                              | 0.00       | S     |
| Current System Mode                     | CAN active |       |
| Previous System Mode                    | CAN active |       |
| System Condition                        | ABS fault  |       |
| Supply Voltage Valves                   | 11.7       | V     |
| Brake Pedal Status                      | Released   |       |
| Supply voltage Pump                     | 10.0       | V     |
| Brake Pedal Travel Sensor Position      | 0          | %     |
| Ignition Unfiltered                     | 0.0        | V     |

|                                     |                                 |       |
|-------------------------------------|---------------------------------|-------|
| Wheel Speed Left Front              | 0.000                           | MPH   |
| Rotation Direction Left Front       | Forward                         |       |
| Wheel Speed Right Front             | 0.000                           | MPH   |
| Rotation Direction Right Front      | Forward                         |       |
| Wheel Speed Left Rear               | 0.000                           | MPH   |
| Rotation Direction Left Rear        | Forward                         |       |
| Wheel Speed Right Rear              | 0.000                           | MPH   |
| Rotation Direction Right Rear       | Forward                         |       |
| Steering Wheel Angle                | 0.00                            | °     |
| Longitudinal Acceleration           | 0.00                            | m/s^2 |
| Lateral Acceleration                | 0.00                            | m/s^2 |
| Yaw Rate                            | 0.000                           | °/s   |
| Primary Circuit Pressure            | 0.00                            | PSI   |
| Engine Speed                        | 0.0                             | rpm   |
| Accelerator Pedal Position          | 0.0                             | %     |
| ABS control                         | Not Active                      |       |
| ASR control                         | Not Active                      |       |
| MSR control                         | Not Active                      |       |
| EBV control                         | Not Active                      |       |
| ESP Control                         | Not Active                      |       |
| HSA control                         | Not Active                      |       |
| HBA control                         | Not Active                      |       |
| Hold                                | No                              |       |
| Braking assistance system           | No assistance system is braking |       |
| Plant Mode                          | No                              |       |
| EPB Mode Status                     | Limp Home                       |       |
| BLS High                            | No                              |       |
| BLS Low                             | Yes                             |       |
| Park Brake                          | Not Activated                   |       |
| ESP-OFF mode                        | No                              |       |
| Clutch                              | Not Activated                   |       |
| Stop Coordinator Active             | No                              |       |
| Actual Gear                         | N                               |       |
| Transmission selector lever setting | P                               |       |
| Status Parking Brake Left           | Brake is in an Unknown State    |       |
| Status Parking Brake Right          | Brake is in an Unknown State    |       |
| EPB Switch Status                   | Idle                            |       |
| Supplier Internal Code              | 140                             |       |

**SGW | B2199-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold**

| NAME                              | VALUE | UNITS |
|-----------------------------------|-------|-------|
| Test Failed                       | False |       |
| Test Failed This Monitoring Cycle | False |       |
| Pending DTC                       | False |       |

|                                          |                                                                                                                                     |  |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--|
| Confirmed DTC                            | True                                                                                                                                |  |
| Test Not Completed This Monitoring Cycle | False                                                                                                                               |  |
| Warning Indicator Requested              | False                                                                                                                               |  |
| DTCExtendedDataRecordNumber              | Record \$01-\$8f                                                                                                                    |  |
| Event Counter                            | Event counter for clear DTC memory                                                                                                  |  |
| Cycle to Switch Warning Lamp OFF         | 3 = error present (3 cycle consecutive for switch MIL OFF) 0 = error Not present 1..2 = number cycle consecutive for switch MIL OFF |  |

#### IDCM | P1ABD-00 | Stored | APM HV Battery System Voltage High-

| NAME                                        | VALUE            | UNITS |
|---------------------------------------------|------------------|-------|
| DTC                                         | 1A BD 00         |       |
| Test Failed                                 | False            |       |
| Test Failed This Operation Cycle            | False            |       |
| Pending DTC                                 | True             |       |
| Confirmed DTC                               | True             |       |
| Test Not Completed Since Last Clear         | False            |       |
| Test Failed Since Last Clear                | True             |       |
| Test Not Completed This Operation Cycle     | True             |       |
| Warning Indicator Requested                 | False            |       |
| DTC Extended Data Record Number - All       | 01               |       |
| Occurrence flag                             | Error            |       |
| Original Odometer Value                     | 6800             | miles |
| Most Recent Odometer Value                  | 6800             | miles |
| Frequency Counter                           | 1                |       |
| Ignition Cycle Counter                      | 18               |       |
| APM High Voltage DC Current Set Point       | 7.0000           | AMP   |
| APM Low Voltage DC Current Set Point        | 100.0000         | AMP   |
| HCP Commanded APM Operating Mode            | Buck CV          |       |
| APM High Voltage DC Voltage Set Point       | 14.0000          | Volt  |
| Low voltage battery voltage from HCP        | 13.1600          | Volt  |
| APM Low Voltage DC Voltage Set Point        | 14.56            | Volt  |
| APM Internal Mode                           | Not in Buck Mode |       |
| APM Wake Up Status                          | APM Awake        |       |
| APM Wake Up Reason                          | Wake up 1        |       |
| HV Contactor Status                         | Closed           |       |
| HV Battery Voltage from BPCM                | 186.70           | Volt  |
| APM Estimated Power                         | 0                | Watt  |
| APM HV side Current Feedback                | 0.1000           | AMP   |
| APM LV side Current Feedback                | 0.1000           | AMP   |
| APM Operation Mode Status Reported from APM | Idle             |       |
| APM HV Side Voltage Feedback                | 185.8750         | Volt  |
| APM LV Side Voltage Feedback                | 13.0750          | Volt  |
| APM Current Limit Mode                      | No               |       |
| APM Power Limit Mode                        | No               |       |



|                                             |                                                  |       |
|---------------------------------------------|--------------------------------------------------|-------|
| APM HV Over V Status                        | No                                               |       |
| APM LV High I Status                        | No                                               |       |
| APM LV High V Status                        | No                                               |       |
| APM LV Low V Status                         | No                                               |       |
| CurrentFailSts_APM                          | Yes                                              |       |
| GenericFailSts_APM                          | Yes                                              |       |
| APM Derating Mode Status                    | No de-rating                                     |       |
| APM Derating Reason                         | Default (Normal Operation)                       |       |
| APM Failure Mode Status                     | Failure Mode                                     |       |
| APM Failure Reason                          | Failure because of high voltage at HV / Failure1 |       |
| APM Temp One                                | 102                                              | °F    |
| APM Temp Cold Plate                         | 77                                               | °F    |
| APM Temp Two                                | 86                                               | °F    |
| APM Util Pct of DC/DC                       | 0                                                | %     |
| APM Derating Power                          | 0                                                | Watt  |
| APM Batt Feed Volt                          | 13.1020                                          | Volt  |
| APM I DC HV Set P Feedback                  | 7                                                | AMP   |
| APM LV I Set P Feedback                     | 100.0000                                         | AMP   |
| APM HV V Set P Feedback                     | 300.0000                                         | Volt  |
| APM V DC LV Set P Feedback                  | 14.56                                            | Volt  |
| APM Input Power                             | 0.00                                             | Watt  |
| APM Output Power                            | 0.00                                             | Watt  |
| APM_CurrentOperTime                         | 260                                              | sec   |
| APM_TotalOperTime                           | 682                                              | Hours |
| DTC Extended Data Record Number - Record #2 | 00                                               |       |
| OBCM Status AC Present                      | AC Not OK                                        |       |
| AC Line Low                                 | Not Valid                                        |       |
| AC Line High                                | Not Valid                                        |       |
| AC Side Current                             | 0.00                                             | Amps  |
| AC Side Volt                                | 0.0                                              | Volts |
| HCP (EVCU) AC Current Max Cal               | -32.00                                           | Amps  |
| HCP (EVCU) Voltage Request                  | 9                                                | Volts |
| HCP (EVCU) Current Request                  | 0.00                                             | AMP   |
| Battery Not Detected                        | False                                            |       |
| Battery Voltage Under Min                   | Not Valid                                        |       |
| Battery Voltage Over Max                    | Not Valid                                        |       |
| Battery Side Current                        | 0.10                                             | Amps  |
| Battery Side Voltage                        | 188.3                                            | Volts |
| OBCM Charge Current Available               | 0.00                                             | AMP   |
| BPCM HV Battery Contactor Open              | False                                            |       |
| HV OC                                       | False                                            |       |
| HV OV                                       | False                                            |       |
| SBC Bus Off                                 | False                                            |       |
| CANSIP Bus Off                              | False                                            |       |

|                                       |                                 |       |
|---------------------------------------|---------------------------------|-------|
| HCP (EVCU) HV Current Max Cal         | 20.00                           | Amps  |
| HCP (EVCU) HV Volt Max Cal            | 408                             | Volt  |
| HCP (EVCU) HV Volt Min Cal            | 244                             | Volt  |
| OBCM Temperature 1                    | 90                              | °F    |
| OBCM Temperature 2                    | 84                              | °F    |
| OBCM Temperature 3                    | -38                             | °F    |
| OBCM Temperature 4                    | 75                              | °F    |
| NTC1 OT                               | False                           |       |
| NTC2 OT                               | False                           |       |
| NTC3 OT                               | True                            |       |
| NTC4 OT                               | False                           |       |
| External OBCM Inlet Temperature (CAN) | 77                              | °F    |
| J1772 ICA                             | 0                               | AMP   |
| J1772 S2 Close                        | Open                            |       |
| J1772 Stat                            | State Not Programmed            |       |
| J1772 S2 Status                       | Open                            |       |
| Control Pilot Amplitude               | 8.210                           | Volts |
| Control Pilot Duty Cycle              | 0.00                            | %     |
| Control Pilot Frequency               | No Signal                       | Hz    |
| EVSE Pilot Stat                       | NO EVSE                         |       |
| Prox Stat                             | Prox Out                        |       |
| Prox Voltage                          | 4.436                           | Volt  |
| OBC Charge Time                       | 0                               | sec   |
| OBC Charge Tml                        | 506                             | hrs   |
| OBC Idle Time                         | 57                              | sec   |
| OBC Idle Tml                          | 0                               | hrs   |
| Watt-Hours of AC Power                | 40235                           | W-Hrs |
| Watt Hours of Charge the HV Bus       | 52255                           | W-Hrs |
| OBCM Mode                             | UTC                             |       |
| OBCM Charger Ready                    | Off                             |       |
| OBCM WU Status                        | Off                             |       |
| Charge Enable Status                  | Chrg Disable                    |       |
| HCP (EVCU) Shutdown Command           | EVCU Operational                |       |
| HCP (EVCU) Enable Charge Command      | Charge disable                  |       |
| HCP (EVCU) OBC Mode Request           | Idle                            |       |
| Generic Fail Sts                      | At Least One DTC set on Sys Mem |       |
| Chrg Fail Sts                         | No Faults detected              |       |
| OBCM Wake Up Reason                   | Master Wake Up                  |       |
| OBC Control Mth                       | Current                         |       |
| OBCM Deraing Reason                   | AC Voltage Limit Derating       |       |
| Close Chrgr Cntctr                    | Open                            |       |
| Chrgr Cntctr Stat                     | Closed                          |       |
| Chrg Mode                             | Charge Mode                     |       |
| OBCM Fault Reason                     | No Faults detected              |       |

|                                                  |                       |     |
|--------------------------------------------------|-----------------------|-----|
| EPT LOC Diag Enable                              | Enable LOC Diagnostic |     |
| HCP Shutdown Command                             | No Shutdown           |     |
| HV Battey Contactor Open                         | False                 |     |
| BPCM Request for HV Contactor                    | False                 |     |
| HV Contactor Status                              | Closed                |     |
| Ignition on Time for DTC                         | 255                   | sec |
| OBCM - HV Over Voltage Protect                   | False                 |     |
| OBCM - LLC Over Voltage Protect                  | False                 |     |
| OBCM - LLC Under Voltage Protect                 | False                 |     |
| OBCM - PFC Over Voltage Protect                  | False                 |     |
| OBCM - PFC Under Voltage Protect                 | False                 |     |
| OBCM - AC Under Voltage Protect                  | False                 |     |
| OBCM - AC Over Voltage Protect                   | False                 |     |
| OBCM - AC Over Current Protect                   | False                 |     |
| OBCM - HV Voltage Over MaxCal Protect            | False                 |     |
| OBCM - HV Over Current Protect                   | False                 |     |
| OBCM - Power Stage Over Voltage Protect          | False                 |     |
| OBCM - Internal Memory Fault                     | False                 |     |
| OBCM - Over Temperature Protect                  | False                 |     |
| OBCM - HCP Loss of Communication Protect         | False                 |     |
| OBCM - CAN Bus Off                               | False                 |     |
| OBCM - Pilot Duty Fault                          | False                 |     |
| OBCM - Loss BPCM Communication Protect           | False                 |     |
| OBCM - Prox Range To Low                         | False                 |     |
| OBCM - Prox Range To High                        | False                 |     |
| OBCM - HV Voltage Under MinCal Protect           | False                 |     |
| OBCM - SPI Communication Fault                   | False                 |     |
| OBCM - WakeUp Output Stuck Low                   | False                 |     |
| OBCM - Pilot Short To Battery                    | False                 |     |
| OBCM - WakeUp Output Stuck High                  | False                 |     |
| OBCM - HV Battery Not Contact                    | False                 |     |
| OBCM - Loss Communication Protect                | False                 |     |
| OBCM - Receive HV Battery Contact Open From BPCM | False                 |     |
| OBCM - Stuck Shutdown                            | False                 |     |
| OBCM - Cycle Shutdown                            | False                 |     |
| OBCM - HV Under Voltage Protect                  | False                 |     |
| OBCM - Vehicle Impact                            | False                 |     |
| OBCM - ARC/CRC Fault                             | False                 |     |
| OBCM - AC Contact Welded Fault                   | False                 |     |
| Prox open fault                                  | False                 |     |
| OBCM - Internal S2 Switch Low Fault              | False                 |     |
| OBCM - Internal S2 Switch High Fault             | False                 |     |
| OBCM - Pilot Range Fault                         | False                 |     |
| OBCM - Prox Range Fault                          | False                 |     |

|                                                               |           |         |
|---------------------------------------------------------------|-----------|---------|
| force shutdown fault                                          | False     |         |
| pilot signal wake up issue because of EVSE                    | False     |         |
| HCP stuck low fault                                           | False     |         |
| HCP stuck High fault                                          | False     |         |
| Plant mode flag                                               | False     |         |
| Retry fault flag                                              | False     |         |
| Loss SBC communication (SPI)                                  | False     |         |
| pilot input short to battery fault in Driver mode detecting   | False     |         |
| pilot input short to ground fault                             | False     |         |
| pilot short to ground fault in driver mode detecting          | False     |         |
| Charging ready line open fault                                | False     |         |
| Pilot frequency range fault                                   | False     |         |
| OBCM - Internal S2 Switch High Fault in Driver mode detecting | False     |         |
| GPS Date - Year                                               | 0         | Year    |
| GPS Date - Month                                              | Undefined |         |
| GPS Date - Day                                                | None      | Days    |
| UTC Time - Hours                                              | 0         | Hours   |
| UTC Time - Minutes                                            | 0         |         |
| UTC Time - Seconds                                            | 0         | seconds |
| ECU Time - Milliseconds                                       | 0         | ms      |
| PFC Choke Temperature                                         | 25        | °F      |
| PFC MOS Temperature                                           | 106       | °F      |
| LLC MOS Temperature                                           | -40       | °F      |
| Ambient Temperature                                           | 75        | °F      |
| AC1 Volt                                                      | 0.0       | Volts   |
| AC2 Volt                                                      | 0.0       | Volts   |
| AC3 Volt                                                      | 188.2     | Volts   |
| AC1 Current                                                   | 0.00      | Amps    |
| AC2 Current                                                   | 0527      | Amps    |
| AC3 Current                                                   | -49.90    | Amps    |
| LLC Output Voltage                                            | 0.0       | Volts   |
| LLC1 Output_Current                                           | -48.50    | Amps    |
| LLC2 Output_Current                                           | 8200      | Amps    |
| LLC3 Output_Current                                           | 075C      | Amps    |
| PFC1_Bus_Voltage                                              | 50.1      | Volts   |
| PFC2_Bus_Voltage                                              | 0.0       | Volts   |
| PFC3_Bus_Voltage                                              | 0.0       | Volts   |
| OBCM - ORC Loss of Communication Protect                      | False     |         |
| OBCM - LLC Aux Over Voltage Protect by LV side                | False     |         |
| OBCM - LLC Aux Under Voltage Protect by LV side               | False     |         |
| OBCM - PFC Aux Over Voltage Protect by LV side                | False     |         |
| OBCM - PFC Aux Under Voltage Protect by LV side               | False     |         |
| Pilot Open fault                                              | False     |         |
| OBCM - Turn On States                                         | False     |         |

|                                          |       |  |
|------------------------------------------|-------|--|
| OBCM - Shutdown States                   | False |  |
| OBCM - Standby Mode                      | False |  |
| OBCM - Operate Mode                      | False |  |
| OBCM - Shutdown Mode                     | False |  |
| OBCM - PFC Power Limit                   | False |  |
| OBCM - Ambient High Temperature Derating | False |  |
| OBCM - AC Input Voltage Derating         | False |  |
| OBCM - HV Output Voltage Derating        | False |  |
| PFC Choke Hot warning                    | False |  |
| PFC MOS Hot warning                      | False |  |
| LLC MOS Hot warning                      | False |  |
| Ambient Hot warning                      | False |  |
| PFC Choke Over Temperature Protect       | False |  |
| PFC MOS Over Temperature Protect         | False |  |
| LLC MOS Over Temperature Protect         | False |  |
| Ambient Over Temperature Protect         | False |  |
| Loss Communication PFC Protect           | False |  |
| Loss Communication LLC Protect           | False |  |
| OBCM - LLC Aux Over Voltage Protect      | False |  |
| OBCM - LLC Aux Under Voltage Protect     | False |  |
| OBCM - PFC Aux Under Voltage Protect     | False |  |
| LLC UVP                                  | False |  |
| LLC HW OVP                               | False |  |
| LLC SW OVP                               | False |  |
| AC1 UVP                                  | False |  |
| AC1 OVP                                  | False |  |
| AC1 Loss                                 | False |  |
| PFC1 OK                                  | False |  |
| PFC1 OUTPUT HW OVP                       | False |  |
| PFC1 OUTPUT SW OVP                       | False |  |
| LLC1 Softstart End                       | False |  |
| LLC1 Rsnt OCP                            | False |  |
| LLC1 HW OCP                              | False |  |
| LLC1 SW OCP                              | False |  |
| LLC1 Trans - Hot warning                 | False |  |
| LLC1 Trans - Over Temperature Protect    | False |  |
| AC2 UVP                                  | False |  |
| AC2 OVP                                  | False |  |
| AC2 Loss                                 | False |  |
| PFC2 OK                                  | False |  |
| PFC2 OUTPUT HW OVP                       | False |  |
| PFC2 OUTPUT SW OVP                       | False |  |
| LLC2 Softstart End                       | False |  |
| LLC2 Rsnt OCP                            | False |  |

|                                       |               |  |
|---------------------------------------|---------------|--|
| LLC2 HW OCP                           | False         |  |
| LLC2 SW OCP                           | False         |  |
| LLC2 Trans - Hot warring              | False         |  |
| LLC2 Trans - Over Temperature Protect | False         |  |
| AC3 UVP                               | False         |  |
| AC3 OVP                               | False         |  |
| AC3 Loss                              | False         |  |
| PFC3 OK                               | False         |  |
| PFC3 OUTPUT HW OVP                    | False         |  |
| PFC3 OUTPUT SW OVP                    | False         |  |
| LLC3 Softstart End                    | False         |  |
| LLC3 Rsnt OCP                         | False         |  |
| LLC3 HW OCP                           | False         |  |
| LLC3 SW OCP                           | False         |  |
| LLC3 Trans - Hot warring              | False         |  |
| LLC3 Trans - Over Temperature Protect | False         |  |
| EvccHwDiagResult                      | No_Fault      |  |
| EvccSwDiagResult                      | SPI_Read_Fail |  |
| ADC_3V3_PWR_PLG_CHIP                  | 8401          |  |
| ADC_KL15_V_CHK                        | 0231          |  |
| ADC_NTC                               | 001C          |  |
| ADC_VDD_3V3_PWR_EVCC_BOARD            | 0000          |  |

## IDCM | P1ABC-00 | Active | APM HV Battery System Voltage Low-

| NAME                                    | VALUE    | UNITS |
|-----------------------------------------|----------|-------|
| DTC                                     | 1A BC 00 |       |
| Test Failed                             | True     |       |
| Test Failed This Operation Cycle        | False    |       |
| Pending DTC                             | True     |       |
| Confirmed DTC                           | True     |       |
| Test Not Completed Since Last Clear     | False    |       |
| Test Failed Since Last Clear            | True     |       |
| Test Not Completed This Operation Cycle | True     |       |
| Warning Indicator Requested             | False    |       |
| DTC Extended Data Record Number - All   | 01       |       |
| Occurrence flag                         | Error    |       |
| Original Odometer Value                 | 6800     | miles |
| Most Recent Odometer Value              | 6800     | miles |
| Frequency Counter                       | 1        |       |
| Ignition Cycle Counter                  | 0        |       |
| APM High Voltage DC Current Set Point   | 7.0000   | AMP   |
| APM Low Voltage DC Current Set Point    | 100.0000 | AMP   |
| HCP Commanded APM Operating Mode        | Buck CV  |       |
| APM High Voltage DC Voltage Set Point   | 14.0000  | Volt  |

|                                             |                                                  |       |
|---------------------------------------------|--------------------------------------------------|-------|
| Low voltage battery voltage from HCP        | 13.2800                                          | Volt  |
| APM Low Voltage DC Voltage Set Point        | 14.56                                            | Volt  |
| APM Internal Mode                           | Not in Buck Mode                                 |       |
| APM Wake Up Status                          | APM Awake                                        |       |
| APM Wake Up Reason                          | Wake up 1                                        |       |
| HV Contactor Status                         | Closed                                           |       |
| HV Battery Voltage from BPCM                | 189.90                                           | Volt  |
| APM Estimated Power                         | 0                                                | Watt  |
| APM HV side Current Feedback                | 0.2000                                           | AMP   |
| APM LV side Current Feedback                | 0.1000                                           | AMP   |
| APM Operation Mode Status Reported from APM | Idle                                             |       |
| APM HV Side Voltage Feedback                | 189.1250                                         | Volt  |
| APM LV Side Voltage Feedback                | 13.1150                                          | Volt  |
| APM Current Limit Mode                      | No                                               |       |
| APM Power Limit Mode                        | No                                               |       |
| APM HV Over V Status                        | No                                               |       |
| APM LV High I Status                        | No                                               |       |
| APM LV High V Status                        | No                                               |       |
| APM LV Low V Status                         | No                                               |       |
| CurrentFailSts_APM                          | No                                               |       |
| GenericFailSts_APM                          | No                                               |       |
| APM Derating Mode Status                    | No de-rating                                     |       |
| APM Derating Reason                         | Default (Normal Operation)                       |       |
| APM Failure Mode Status                     | Failure Mode                                     |       |
| APM Failure Reason                          | Failure because of high voltage at HV / Failure1 |       |
| APM Temp One                                | 102                                              | °F    |
| APM Temp Cold Plate                         | 77                                               | °F    |
| APM Temp Two                                | 86                                               | °F    |
| APM Util Pct of DC/DC                       | 0                                                | %     |
| APM Derating Power                          | 0                                                | Watt  |
| APM Batt Feed Volt                          | 13.1313                                          | Volt  |
| APM I DC HV Set P Feedback                  | 7                                                | AMP   |
| APM LV I Set P Feedback                     | 100.0000                                         | AMP   |
| APM HV V Set P Feedback                     | 300.0000                                         | Volt  |
| APM V DC LV Set P Feedback                  | 14.56                                            | Volt  |
| APM Input Power                             | 0.00                                             | Watt  |
| APM Output Power                            | 0.00                                             | Watt  |
| APM_CurrentOperTime                         | 260                                              | sec   |
| APM_TotalOperTime                           | 682                                              | Hours |
| DTC Extended Data Record Number - Record #2 | 00                                               |       |
| OBCM Status AC Present                      | AC Not OK                                        |       |
| AC Line Low                                 | Not Valid                                        |       |
| AC Line High                                | Not Valid                                        |       |
| AC Side Current                             | 0.00                                             | Amps  |

|                                       |                      |       |
|---------------------------------------|----------------------|-------|
| AC Side Volt                          | 0.0                  | Volts |
| HCP (EVCU) AC Current Max Cal         | -32.00               | Amps  |
| HCP (EVCU) Voltage Request            | 9                    | Volts |
| HCP (EVCU) Current Request            | 0.00                 | AMP   |
| Battery Not Detected                  | False                |       |
| Battery Voltage Under Min             | Not Valid            |       |
| Battery Voltage Over Max              | Not Valid            |       |
| Battery Side Current                  | 0.10                 | Amps  |
| Battery Side Voltage                  | 191.5                | Volts |
| OBCM Charge Current Available         | 0.00                 | AMP   |
| BPCM HV Battery Contactor Open        | False                |       |
| HV OC                                 | False                |       |
| HV OV                                 | False                |       |
| SBC Bus Off                           | False                |       |
| CANSIP Bus Off                        | False                |       |
| HCP (EVCU) HV Current Max Cal         | 20.00                | Amps  |
| HCP (EVCU) HV Volt Max Cal            | 408                  | Volt  |
| HCP (EVCU) HV Volt Min Cal            | 244                  | Volt  |
| OBCM Temperature 1                    | 90                   | °F    |
| OBCM Temperature 2                    | 84                   | °F    |
| OBCM Temperature 3                    | -38                  | °F    |
| OBCM Temperature 4                    | 75                   | °F    |
| NTC1 OT                               | False                |       |
| NTC2 OT                               | False                |       |
| NTC3 OT                               | True                 |       |
| NTC4 OT                               | False                |       |
| External OBCM Inlet Temperature (CAN) | 77                   | °F    |
| J1772 ICA                             | 0                    | AMP   |
| J1772 S2 Close                        | Open                 |       |
| J1772 Stat                            | State Not Programmed |       |
| J1772 S2 Status                       | Open                 |       |
| Control Pilot Amplitude               | 8.210                | Volts |
| Control Pilot Duty Cycle              | 0.00                 | %     |
| Control Pilot Frequency               | No Signal            | Hz    |
| EVSE Pilot Stat                       | NO EVSE              |       |
| Prox Stat                             | Prox Out             |       |
| Prox Voltage                          | 4.436                | Volt  |
| OBC Charge Time                       | 0                    | sec   |
| OBC Charge Tml                        | 506                  | hrs   |
| OBC Idle Time                         | 57                   | sec   |
| OBC Idle Tml                          | 0                    | hrs   |
| Watt-Hours of AC Power                | 40235                | W-Hrs |
| Watt Hours of Charge the HV Bus       | 52255                | W-Hrs |
| OBCM Mode                             | UTC                  |       |



|                                          |                            |     |
|------------------------------------------|----------------------------|-----|
| OBCM Charger Ready                       | Off                        |     |
| OBCM WU Status                           | Off                        |     |
| Charge Enable Status                     | Chrg Disable               |     |
| HCP (EVCU) Shutdown Command              | EVCU Operational           |     |
| HCP (EVCU) Enable Charge Command         | Charge disable             |     |
| HCP (EVCU) OBC Mode Request              | Idle                       |     |
| Generic Fail Sts                         | No Functional Fail Present |     |
| Chrg Fail Sts                            | No Faults detected         |     |
| OBCM Wake Up Reason                      | Master Wake Up             |     |
| OBC Control Mth                          | Current                    |     |
| OBCM Deraing Reason                      | AC Voltage Limit Derating  |     |
| Close Chrgr Cntctr                       | Open                       |     |
| Chrgr Cntctr Stat                        | Closed                     |     |
| Chrg Mode                                | Charge Mode                |     |
| OBCM Fault Reason                        | No Faults detected         |     |
| EPT LOC Diag Enable                      | Enable LOC Diagnostic      |     |
| HCP Shutdown Command                     | No Shutdown                |     |
| HV Battey Contactor Open                 | False                      |     |
| BPCM Request for HV Contactor            | False                      |     |
| HV Contactor Status                      | Closed                     |     |
| Ignition on Time for DTC                 | 255                        | sec |
| OBCM - HV Over Voltage Protect           | False                      |     |
| OBCM - LLC Over Voltage Protect          | False                      |     |
| OBCM - LLC Under Voltage Protect         | False                      |     |
| OBCM - PFC Over Voltage Protect          | False                      |     |
| OBCM - PFC Under Voltage Protect         | False                      |     |
| OBCM - AC Under Voltage Protect          | False                      |     |
| OBCM - AC Over Voltage Protect           | False                      |     |
| OBCM - AC Over Current Protect           | False                      |     |
| OBCM - HV Voltage Over MaxCal Protect    | False                      |     |
| OBCM - HV Over Current Protect           | False                      |     |
| OBCM - Power Stage Over Voltage Protect  | False                      |     |
| OBCM - Internal Memory Fault             | False                      |     |
| OBCM - Over Temperature Protect          | False                      |     |
| OBCM - HCP Loss of Communication Protect | False                      |     |
| OBCM - CAN Bus Off                       | False                      |     |
| OBCM - Pilot Duty Fault                  | False                      |     |
| OBCM - Loss BPCM Communication Protect   | False                      |     |
| OBCM - Prox Range To Low                 | False                      |     |
| OBCM - Prox Range To High                | False                      |     |
| OBCM - HV Voltage Under MinCal Protect   | False                      |     |
| OBCM - SPI Communication Fault           | False                      |     |
| OBCM - WakeUp Output Stuck Low           | False                      |     |
| OBCM - Pilot Short To Battery            | False                      |     |

|                                                               |           |         |
|---------------------------------------------------------------|-----------|---------|
| OBCM - WakeUp Output Stuck High                               | False     |         |
| OBCM - HV Battery Not Contact                                 | False     |         |
| OBCM - Loss Communication Protect                             | False     |         |
| OBCM - Receive HV Battery Contact Open From BPCM              | False     |         |
| OBCM - Stuck Shutdown                                         | False     |         |
| OBCM - Cycle Shutdown                                         | False     |         |
| OBCM - HV Under Voltage Protect                               | False     |         |
| OBCM - Vehicle Impact                                         | False     |         |
| OBCM - ARC/CRC Fault                                          | False     |         |
| OBCM - AC Contact Welded Fault                                | False     |         |
| Prox open fault                                               | False     |         |
| OBCM - Internal S2 Switch Low Fault                           | False     |         |
| OBCM - Internal S2 Switch High Fault                          | False     |         |
| OBCM - Pilot Range Fault                                      | False     |         |
| OBCM - Prox Range Fault                                       | False     |         |
| force shutdown fault                                          | False     |         |
| pilot signal wake up issue because of EVSE                    | False     |         |
| HCP stuck low fault                                           | False     |         |
| HCP stuck High fault                                          | False     |         |
| Plant mode flag                                               | False     |         |
| Retry fault flag                                              | False     |         |
| Loss SBC communication (SPI)                                  | False     |         |
| pilot input short to battery fault in Driver mode detecting   | False     |         |
| pilot input short to ground fault                             | False     |         |
| pilot short to ground fault in driver mode detecting          | False     |         |
| Charging ready line open fault                                | False     |         |
| Pilot frequency range fault                                   | False     |         |
| OBCM - Internal S2 Switch High Fault in Driver mode detecting | False     |         |
| GPS Date - Year                                               | 0         | Year    |
| GPS Date - Month                                              | Undefined |         |
| GPS Date - Day                                                | None      | Days    |
| UTC Time - Hours                                              | 0         | Hours   |
| UTC Time - Minutes                                            | 0         |         |
| UTC Time - Seconds                                            | 0         | seconds |
| ECU Time - Milliseconds                                       | 0         | ms      |
| PFC Choke Temperature                                         | 25        | °F      |
| PFC MOS Temperature                                           | 106       | °F      |
| LLC MOS Temperature                                           | -40       | °F      |
| Ambient Temperature                                           | 75        | °F      |
| AC1 Volt                                                      | 0.0       | Volts   |
| AC2 Volt                                                      | 0.0       | Volts   |
| AC3 Volt                                                      | 191.4     | Volts   |
| AC1 Current                                                   | 0.00      | Amps    |
| AC2 Current                                                   | 0527      | Amps    |

|                                                 |        |       |
|-------------------------------------------------|--------|-------|
| AC3 Current                                     | -49.90 | Amps  |
| LLC Output Voltage                              | 0.0    | Volts |
| LLC1 Output_Current                             | -48.50 | Amps  |
| LLC2 Output_Current                             | 8200   | Amps  |
| LLC3 Output_Current                             | 077C   | Amps  |
| PFC1_Bus_Voltage                                | 50.1   | Volts |
| PFC2_Bus_Voltage                                | 0.0    | Volts |
| PFC3_Bus_Voltage                                | 0.0    | Volts |
| OBCM - ORC Loss of Communication Protect        | False  |       |
| OBCM - LLC Aux Over Voltage Protect by LV side  | False  |       |
| OBCM - LLC Aux Under Voltage Protect by LV side | False  |       |
| OBCM - PFC Aux Over Voltage Protect by LV side  | False  |       |
| OBCM - PFC Aux Under Voltage Protect by LV side | False  |       |
| Pilot Open fault                                | False  |       |
| OBCM - Turn On States                           | False  |       |
| OBCM - Shutdown States                          | False  |       |
| OBCM - Standby Mode                             | False  |       |
| OBCM - Operate Mode                             | False  |       |
| OBCM - Shutdown Mode                            | False  |       |
| OBCM - PFC Power Limit                          | False  |       |
| OBCM - Ambient High Temperature Derating        | False  |       |
| OBCM - AC Input Voltage Derating                | False  |       |
| OBCM - HV Output Voltage Derating               | False  |       |
| PFC Choke Hot warring                           | False  |       |
| PFC MOS Hot warring                             | False  |       |
| LLC MOS Hot warring                             | False  |       |
| Ambient Hot warring                             | False  |       |
| PFC Choke Over Temperature Protect              | False  |       |
| PFC MOS Over Temperature Protect                | False  |       |
| LLC MOS Over Temperature Protect                | False  |       |
| Ambient Over Temperature Protect                | False  |       |
| Loss Communication PFC Protect                  | False  |       |
| Loss Communication LLC Protect                  | False  |       |
| OBCM - LLC Aux Over Voltage Protect             | False  |       |
| OBCM - LLC Aux Under Voltage Protect            | False  |       |
| OBCM - PFC Aux Under Voltage Protect            | False  |       |
| LLC UVP                                         | False  |       |
| LLC HW OVP                                      | False  |       |
| LLC SW OVP                                      | False  |       |
| AC1 UVP                                         | False  |       |
| AC1 OVP                                         | False  |       |
| AC1 Loss                                        | False  |       |
| PFC1 OK                                         | False  |       |
| PFC1 OUTPUT HW OVP                              | False  |       |

|                                       |               |  |
|---------------------------------------|---------------|--|
| PFC1 OUTPUT SW OVP                    | False         |  |
| LLC1 Softstart End                    | False         |  |
| LLC1 Rsnt OCP                         | False         |  |
| LLC1 HW OCP                           | False         |  |
| LLC1 SW OCP                           | False         |  |
| LLC1 Trans - Hot warring              | False         |  |
| LLC1 Trans - Over Temperature Protect | False         |  |
| AC2 UVP                               | False         |  |
| AC2 OVP                               | False         |  |
| AC2 Loss                              | False         |  |
| PFC2 OK                               | False         |  |
| PFC2 OUTPUT HW OVP                    | False         |  |
| PFC2 OUTPUT SW OVP                    | False         |  |
| LLC2 Softstart End                    | False         |  |
| LLC2 Rsnt OCP                         | False         |  |
| LLC2 HW OCP                           | False         |  |
| LLC2 SW OCP                           | False         |  |
| LLC2 Trans - Hot warring              | False         |  |
| LLC2 Trans - Over Temperature Protect | False         |  |
| AC3 UVP                               | False         |  |
| AC3 OVP                               | False         |  |
| AC3 Loss                              | False         |  |
| PFC3 OK                               | False         |  |
| PFC3 OUTPUT HW OVP                    | False         |  |
| PFC3 OUTPUT SW OVP                    | False         |  |
| LLC3 Softstart End                    | False         |  |
| LLC3 Rsnt OCP                         | False         |  |
| LLC3 HW OCP                           | False         |  |
| LLC3 SW OCP                           | False         |  |
| LLC3 Trans - Hot warring              | False         |  |
| LLC3 Trans - Over Temperature Protect | False         |  |
| EvccHwDiagResult                      | No_Fault      |  |
| EvccSwDiagResult                      | SPI_Read_Fail |  |
| ADC_3V3_PWR_PLC_CHIP                  | 8401          |  |
| ADC_KL15_V_CHK                        | 0231          |  |
| ADC_NTC                               | 001C          |  |
| ADC_VDD_3V3_PWR_EVCC_BOARD            | 0000          |  |

## SNAPSHOT DATA SUMMARY

No Snapshot Data available for B21DD-16

No Snapshot Data available for B2199-16

No Snapshot Data available for B210D-16

No Snapshot Data available for B21DD-84

No Snapshot Data available for B2199-16

No Snapshot Data available for B21DD-84

No Snapshot Data available for P1C8B-16

No Snapshot Data available for P1C8C-16

No Snapshot Data available for U0154-00

No Snapshot Data available for C2129-16

No Snapshot Data available for C212A-84

No Snapshot Data available for B210D-84

No Snapshot Data available for B21DD-84

No Snapshot Data available for B10EB-00

No Snapshot Data available for B210C-16

No Snapshot Data available for B21DD-84

No Snapshot Data available for B210C-16

No Snapshot Data available for B21DD-84

No Snapshot Data available for B2199-16

No Snapshot Data available for B21DD-84

No Snapshot Data available for B2199-16

No Snapshot Data available for B21DD-84

No Snapshot Data available for B2199-16

No Snapshot Data available for B21DD-84

No Snapshot Data available for B2199-16

No Snapshot Data available for B21DD-84

No Snapshot Data available for B222D-00

No Snapshot Data available for B210D-21

No Snapshot Data available for B210A-84

No Snapshot Data available for B11C1-13

No Snapshot Data available for B2199-16

No Snapshot Data available for B21DD-84

No Snapshot Data available for B1612-00

No Snapshot Data available for B2199-16

No Snapshot Data available for B21DD-84

No Snapshot Data available for B21DD-16

No Snapshot Data available for B210C-16

No Snapshot Data available for C212A-16

No Snapshot Data available for C2129-16

No Snapshot Data available for U0140-00

No Snapshot Data available for C212A-84

#### **RADIO | B210A-00 | Stored | System Voltage Low-Record 0**

| NAME                             | VALUE    | UNITS |
|----------------------------------|----------|-------|
| DTC                              | A1 0A 00 |       |
| Test Failed                      | False    |       |
| Test Failed This Operation Cycle | False    |       |
| Pending DTC                      | False    |       |
| Confirmed DTC                    | True     |       |

#### **Record 1**

| NAME                             | VALUE    | UNITS |
|----------------------------------|----------|-------|
| DTC                              | A1 0A 00 |       |
| Test Failed                      | False    |       |
| Test Failed This Operation Cycle | False    |       |
| Pending DTC                      | False    |       |
| Confirmed DTC                    | True     |       |

#### **Record 2**

| NAME                             | VALUE    | UNITS |
|----------------------------------|----------|-------|
| DTC                              | A1 0A 00 |       |
| Test Failed                      | False    |       |
| Test Failed This Operation Cycle | False    |       |
| Pending DTC                      | False    |       |
| Confirmed DTC                    | True     |       |

#### **Record 3**

| NAME                             | VALUE    | UNITS |
|----------------------------------|----------|-------|
| DTC                              | A1 0A 00 |       |
| Test Failed                      | False    |       |
| Test Failed This Operation Cycle | False    |       |
| Pending DTC                      | False    |       |
| Confirmed DTC                    | True     |       |

No Snapshot Data available for B222C-00

No Snapshot Data available for B210A-00

No Snapshot Data available for B2199-16

No Snapshot Data available for B21DD-84

No Snapshot Data available for B21DD-84

No Snapshot Data available for B2199-16

No Snapshot Data available for B21DD-84

No Snapshot Data available for B2199-16

No Snapshot Data available for P0562-00

No Snapshot Data available for P0A95-00

No Snapshot Data available for P1A21-00

No Snapshot Data available for P084F-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 B2199-16

No Snapshot Data available for B21DD-84

No Snapshot Data available for B2199-16

No Snapshot Data available for B21DD-84

No Snapshot Data available for C2222-00

#### SGW | B2199-16 | Stored | Battery Voltage-Circuit Voltage Below Threshold

##### Record 0

| NAME                                      | VALUE     | UNITS |
|-------------------------------------------|-----------|-------|
| TestFailed                                | False     |       |
| TestFailedThisMonitoringCycle             | False     |       |
| Pending DTC                               | False     |       |
| Confirmed DTC                             | True      |       |
| Test Not Completed This Monitoring Cycle  | False     |       |
| Warning Indicator Requested               | False     |       |
| DTC Snapshot Record Number                | Record #1 |       |
| DTC Snapshot Record Number Of Identifiers | 5         |       |
| Key On Counter                            | 603       |       |
| DTC Failure Type Byte                     | 2F        |       |
| Battery Voltage (+30)                     | 8.90      | V     |

No Snapshot Data available for P1ABD-00

No Snapshot Data available for P1ABC-00