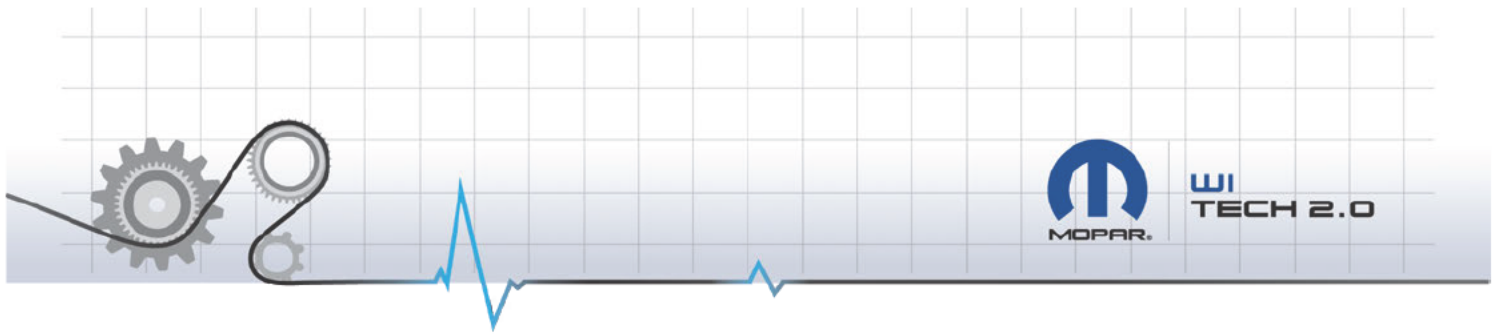


This file represents a consolidation of multiple files sent by the manufacturer. Please use the bookmarks to navigate to each file. (Each bookmark label is the name of the original file.)



## CUSTOM REPORT

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

**Odometer** 10885.5 miles  
**Publication Date** Sep 28, 2021, 1:50:52 PM

## DTC SUMMARY

| ECU  | DTC CODE | DTC DESCRIPTION                                          | STATUS |
|------|----------|----------------------------------------------------------|--------|
| EPS  | U148D-00 | Implausible Data Received from Forward Facing Camera-    | Stored |
| ACC  | C2225-00 | PCM Disabled ECU-                                        | Stored |
| ACC  | U148D-00 | Implausible Data Received from Forward Facing Camera-    | Stored |
| BPCM | P1AA2-00 | Hybrid/EV Battery Temperature Sensor 3 Out of Range Low- | Stored |
| BPCM | P1A21-00 | HV Battery Contactor Control Sequence Incorrect-         | Stored |
| BPCM | P1A9E-00 | Hybrid/EV Battery Temperature Sensor 2 Out of Range Low- | Stored |



## VEHICLE SCAN REPORT

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

**Odometer** 10885.5 miles  
**Publication Date** Sep 28, 2021, 1:51:09 PM

## ECU SUMMARY INFO

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

|       |                                    |       |            |  |  |  |
|-------|------------------------------------|-------|------------|--|--|--|
| Pa    |                                    |       |            |  |  |  |
| ACC   | Adaptive Cruise Control            | CAN-C | 68417813AF |  |  |  |
| RADIO | Radio                              | CAN-I |            |  |  |  |
| OCM   | Occupant Classification            | CAN-C | 68403127AA |  |  |  |
| HVACR | Heat, Ventilation and A/C Rear     | CAN-I |            |  |  |  |
| LBSS  | Left Blind Spot Sensor             | CAN-I |            |  |  |  |
| RBSS  | Right Blind Spot Sensor            | CAN-I |            |  |  |  |
| FFCM  | Forward Facing Camera Module       | CAN-C | 68493395AA |  |  |  |
| EDM   | External Disc Module               | CAN-I |            |  |  |  |
| APM   | Accessory Power Module             | CAN-C | 05185046AB |  |  |  |
| BPCM  | Battery Pack Control Module        | CAN-C | 05193166AD |  |  |  |
| HCP   | Hybrid Control Processor           | CAN-C | 05190289AC |  |  |  |
| OBCM  | On Board Charging Module           | CAN-C | 05185047AE |  |  |  |
| MSMP  | Memory Seat Module - Passenger     | CAN-I |            |  |  |  |
| DSM   | Display Screen Module              | CAN-I |            |  |  |  |
| VRM   | Video Routing Module               | CAN-I |            |  |  |  |
| RCCC  | Rear Cabin Comfort Controls        | CAN-I |            |  |  |  |
| CVPM  | Central vision processing module   | CAN-I |            |  |  |  |
| EAC   | Electric A/C Compressor            | CAN-C | 68237995AG |  |  |  |
| AHCP  | Auxiliary Hybrid Control Processor | CAN-C | 05190290AC |  |  |  |
| EBBM  | Electronic Brake Booster Module    | CAN-C | 68461813AB |  |  |  |
| ABSO  | Anti Lock Brakes OBD               | CAN-C | 68471122AD |  |  |  |
| SGW   | Security Gateway Module            | CAN-C | 68447193AB |  |  |  |

### ECU SUMMARY INFO (CONT...)

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

|       |                              |          |          |      |                                  |
|-------|------------------------------|----------|----------|------|----------------------------------|
| DDM   |                              |          |          |      |                                  |
| PDM   |                              |          |          |      |                                  |
| DMRL  |                              |          |          |      |                                  |
| DMRR  |                              |          |          |      |                                  |
| PSDML |                              |          |          |      |                                  |
| PSDMR |                              |          |          |      |                                  |
| MSM   |                              |          |          |      |                                  |
| PLGM  |                              |          |          |      |                                  |
| CSWM  |                              |          |          |      |                                  |
| AMP   |                              |          |          |      |                                  |
| IPC   | USA / USA                    | 12 06 00 | 14 0B 00 | 4704 |                                  |
| PTS   | USA                          | 0E 32 00 | 12 1F 00 | 4311 |                                  |
| SCCM  | USA                          | 13 28 00 | 13 29 00 | 4301 |                                  |
| BCM   | USA                          | 0D 11 00 | 14 1B 90 | 4415 |                                  |
| ACC   | USA / USA                    | 14 12 01 | 14 1D 01 | 4400 |                                  |
| RADIO |                              |          |          |      |                                  |
| OCM   | USA / USA                    | 11 1F 01 | 0E 2F 02 | 4030 |                                  |
| HVACR |                              |          |          |      |                                  |
| LBSS  |                              |          |          |      |                                  |
| RBSS  |                              |          |          |      |                                  |
| FFCM  | USA / USA                    | 11 06 00 | 13 1E 00 | 4102 |                                  |
| EDM   |                              |          |          |      |                                  |
| APM   | USA / USA                    | 11 32 00 | 11 32 00 | 4001 |                                  |
| BPCM  | Not programmed / COUNTRY_SNA | 0E 03 00 | 13 18 03 | 4005 | F5BC8401                         |
| HCP   | USA                          | 11 1D 07 | 13 30 01 | 4005 | 92BCF62B<br>04D8393A<br>050DC953 |
| OBCM  | USA                          | 0F 0D 00 | 12 02 00 | 4002 |                                  |
| MSMP  |                              |          |          |      |                                  |
| DSM   |                              |          |          |      |                                  |
| VRM   |                              |          |          |      |                                  |
| RCCC  |                              |          |          |      |                                  |
| CVPM  |                              |          |          |      |                                  |
| EAC   | USA                          | 0E 34 00 | 12 0F 00 | 4102 |                                  |
| AHCP  | USA                          | 11 1D 07 | 13 30 01 | 4000 |                                  |
| EBBM  | USA                          | 0E 19 02 | 14 0D 18 | 4000 | E5898FA5                         |
| ABSO  | USA                          | 0E 15 02 | 14 1B 26 | 4201 | 4F158D1B                         |
| SGW   |                              | 5        | 779      | 4103 |                                  |

## DTC SUMMARY

| ECU  | DTC CODE | DTC DESCRIPTION                                          | STATUS |
|------|----------|----------------------------------------------------------|--------|
| EPS  | U148D-00 | Implausible Data Received from Forward Facing Camera-    | Stored |
| ACC  | C2225-00 | PCM Disabled ECU-                                        | Stored |
| ACC  | U148D-00 | Implausible Data Received from Forward Facing Camera-    | Stored |
| BPCM | P1AA2-00 | Hybrid/EV Battery Temperature Sensor 3 Out of Range Low- | Stored |

|      |          |                                                          |        |
|------|----------|----------------------------------------------------------|--------|
| BPCM | P1A21-00 | HV Battery Contactor Control Sequence Incorrect-         | Stored |
| BPCM | P1A9E-00 | Hybrid/EV Battery Temperature Sensor 2 Out of Range Low- | Stored |

## ENVIRONMENTAL DATA SUMMARY

### EPS | U148D-00 | Stored | Implausible Data Received from Forward Facing Camera-

| NAME                                                                                             | VALUE    | UNITS  |
|--------------------------------------------------------------------------------------------------|----------|--------|
| DTC                                                                                              | D4 8D 00 |        |
| Test Failed                                                                                      | False    |        |
| Test Failed This Operation Cycle                                                                 | False    |        |
| Pending DTC                                                                                      | False    |        |
| Confirmed DTC                                                                                    | True     |        |
| Test Not Completed Since Last Clear                                                              | False    |        |
| Test Failed Since Last Clear                                                                     | True     |        |
| Test Not Completed This Operation Cycle                                                          | False    |        |
| Warning Indicator Requested                                                                      | False    |        |
| Occurrence flag                                                                                  | ERROR    |        |
| Original Odometer Value                                                                          | 10578    | miles  |
| Most Recent Odometer Value                                                                       | 10578    | miles  |
| Frequency Counter                                                                                | 1        |        |
| Ignition Cycle Counter                                                                           | 58       |        |
| Supplier Internal Fault Code                                                                     | 01 90 01 |        |
| EPS Internal Filtered Vehicle Speed                                                              | 1.359    | MPH    |
| EPS Internal Steering Wheel Angle (Sign convention is positive angle towards left steering lock) | -22.72   | Deg    |
| EPS Steering Wheel Velocity                                                                      | -0.09    | deg/s  |
| EPS System Current Draw                                                                          | 0        | A      |
| EPS Measured Module Voltage                                                                      | 14.22    | V      |
| EPS Steering Wheel Torque                                                                        | 0.5819   | Ft-Lbs |
| EPS Measured Module Temperature                                                                  | 101.9    | °F     |
| CAN Battery Voltage                                                                              | 14.1     | Volts  |

### ACC | C2225-00 | Stored | PCM Disabled ECU-

| 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                 | 10876 | miles |
| Most Recent Odometer Value              | 10876 | miles |

|                             |         |        |
|-----------------------------|---------|--------|
| Frequency Counter           | 1       |        |
| Operation Cycle Counter     | 7       |        |
| Vehicle Speed               | 71      | MPH    |
| Engine RPM                  | 1536    | rpm    |
| ACC Set Speed               | 77      | MPH    |
| Object of Interest Distance | 830     | FEET   |
| Engine Torque Request       | SNA     | Ft-Lbs |
| PRNDL Status                | D range |        |
| Ignition Voltage            | 14.3    |        |
| System Voltage              | 14.5    | Volts  |

#### ACC | U148D-00 | Stored | Implausible Data Received from Forward Facing Camera-

| 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                 | 10578   | miles  |
| Most Recent Odometer Value              | 10578   | miles  |
| Frequency Counter                       | 1       |        |
| Operation Cycle Counter                 | 59      |        |
| 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                            | R range |        |
| Ignition Voltage                        | 14.2    |        |
| System Voltage                          | 14.2    | Volts  |

#### BPCM | P1AA2-00 | Stored | Hybrid/EV Battery Temperature Sensor 3 Out of Range 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) | 26.4800  | seconds |
| FoM - for this DTC (lifetime longest fail on pass) | 4.000    | seconds |
| Battery Total Time Awake                           | 32894026 | seconds |
| Key in Ignition                                    | Key_Def  |         |

|                                                                |                        |       |
|----------------------------------------------------------------|------------------------|-------|
| Key Position                                                   | Ign_ Run               |       |
| EPT -WakeUp                                                    | Sourced                |       |
| HCP Contactor Command                                          | Open                   |       |
| Qualified Contactor Command - QCC                              | Open                   |       |
| Verified Contactor Command - VCC                               | Open                   |       |
| Contactor Status                                               | Open                   |       |
| Plug in Status                                                 | Not plugged in         |       |
| ChargingLevel                                                  | Plug in, but no charge |       |
| Balance Mode                                                   | 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)         | 10885.32               | miles |
| Battery Lifetime Miles                                         | 237.21                 | miles |
| Vehicle Speed                                                  | 37.0                   | MPH   |
| System (12) Volts at time of fault                             | 12.549                 | Volts |
| Battery Lifetime AmpHrs of Charge                              | 8700.4                 | AHr   |
| Battery Lifetime AmpHrs of DisCharge                           | 8689.0                 | AHr   |
| SOC at time of Fault                                           | 25.9                   | %     |
| Power Up SOC at time of Fault                                  | 24.7                   | %     |
| 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                        | 11.290                 | Volts |
| HVIL PWM peak voltage Sensed - Vehicle                         | 11.189                 | Volts |
| HVIL Source Voltage- Battery                                   | 1.370                  | Volts |
| HVIL Returned current - Battery                                | 30.40                  | mA    |
| HV Battery Current Sensor 1 Hall High                          | -1.05                  | Amps  |
| HV Battery Current Sensor 2 Hall Low                           | 0.00                   | Amps  |
| HV Battery Current HVBatCrnt                                   | 0.00                   | Amps  |
| HV Cooling Speed Pump 1 Target                                 | 150                    | rpm   |
| HV Cooling Speed pump 1 Speed                                  | 150                    | rpm   |
| Charge indicator Temp                                          | 95                     | °F    |
| BPCM temperature max                                           | 131                    | °F    |
| BPCM temperature min                                           | 127                    | °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                                         | 2.498                  | Volts |
| Isolation Circuitry Vb                                         | 2.501                  | Volts |
| Isolation Circuitry Vd                                         | 0.000                  | Volts |
| WC and Circuitry 2.5V Reference Voltage                        | 2.501                  | Volts |



|                                                                  |                |           |
|------------------------------------------------------------------|----------------|-----------|
| WC and Circuitry Vcc Voltage                                     | 5.029          | Volts     |
| WC and CircuitryISO 8V Reference Voltage                         | 7.980          | Volts     |
| WC and Circuitry Weld Contactor Sensor G (Pack Negative) Voltage | -207.2         | 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                                     | 3000           | watts     |
| HV Battery Charge Power 10sec                                    | 3000           | watts     |
| HV Battery Discharge Power 2sec                                  | 3000           | watts     |
| HV Battery Discharge Power 10sec                                 | 3000           | watts     |
| HV Battery Power                                                 | 007530         | watts     |
| Key - DriveRdy (CAN)                                             | True           |           |
| Battery Lifetime Number Of Closes                                | 2349           |           |
| Battery Full AmpHr Capacity                                      | 47             | AmpHrs    |
| Cell Impedance Max Discharge                                     | 0              | mOhms     |
| Cell Impedance Mim Discharge                                     | 0              | mOhms     |
| Battery Cell Voltage Maximum                                     | 3586           | mV        |
| Battery Cell Voltage Minimum                                     | 3582           | mV        |
| Battery Cell Voltage Average                                     | 3585           | mV        |
| Battery Cell Highest Cell number                                 | 80             |           |
| Battery Cell Lowest Cell number                                  | 02             |           |
| HV Battery Voltage (cell sum)                                    | 344.10         | Volts     |
| HV Battery Voltage (Module Sum)                                  | 343.50         | Volts     |
| HV Sensor A Pack Voltage                                         | 344.20         | Volts     |
| HV Sensor B Bus\Link (Pre-Fuse) Voltage                          | 71.60          | Volts     |
| HV Sensor C OBCM (HVOBC Fuse) Voltage                            | 71.50          | Volts     |
| HV Sensor D Heater (HVHTR Fuse) Voltage                          | 71.50          | Volts     |
| HV Sensor G Weld Contactor(Pack Negative) Voltage                | -207.2         | Volts     |
| Battery Temperature Maximum Module                               | 131            | °F        |
| Battery Temperature Minimum Module                               | 127            | °F        |
| Battery Temperature Average Module                               | 129            | °F        |
| Battery Temperature Highest Sensor number                        | 04             |           |
| Battery Temperature Lowest Sensor number                         | 12             |           |
| Battery Temperature Number of Failing Sensors                    | 00             |           |
| HV Cooling Pump Relay Drive                                      | Not Sourced    |           |
| HV Cooling Battery coolant inlet temp                            | 138            | °F        |
| HV Cooling Battery coolant outlet temp                           | 138            | °F        |
| HV Cooling OBCM temp inlet Temp                                  | 100            | °F        |
| Pump - Battery Coolant Level Low                                 | False          |           |
| Isolation Vehicle Diagnostic Status                              | Run and Passed |           |
| Isolation Vehicle Impedance                                      | 6.3260         | Mega Ohms |
| Isolation Battery Diagnostic Status                              | Run and Passed |           |

|                                         |                         |           |
|-----------------------------------------|-------------------------|-----------|
| Isolation Battery Impedance             | 0.8480                  | Mega Ohms |
| HV Bat SOH-R                            | 83.1                    | %         |
| HV Bat SOH-C                            | 89.8                    | %         |
| 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                    | 92.9                    | %         |
| Real time clock                         | 429496.7295             | seconds   |
| Real time clock-OS Task Delay Timer     | 1                       |           |
| Real Time Clock Validity                | True                    |           |
| DTC                                     | 1A A2 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                 | 10876                   | miles     |
| Most Recent Odometer Value              | 10876                   | miles     |
| DTC Extended Data Record Number - 2     | 64                      |           |

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

| NAME                                               | VALUE  | UNITS   |
|----------------------------------------------------|--------|---------|
| Frequency Counter                                  | 1      |         |
| Ignition Cycle Counter                             | 2      |         |
| 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                                       | 32894008               | 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                                               | 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)         | 10885.32               | miles   |
| Battery Lifetime Miles                                         | 237.21                 | miles   |
| Vehicle Speed                                                  | 41.0                   | MPH     |
| System (12) Volts at time of fault                             | 12.794                 | Volts   |
| Battery Lifetime AmpHrs of Charge                              | 8700.4                 | AHr     |
| Battery Lifetime AmpHrs of DisCharge                           | 8689.0                 | AHr     |
| SOC at time of Fault                                           | 25.9                   | %       |
| Power Up SOC at time of Fault                                  | 24.7                   | %       |
| 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                        | 11.601                 | Volts   |
| HVIL PWM peak voltage Sensed - Vehicle                         | 11.487                 | Volts   |
| HVIL Source Voltage- Battery                                   | 1.370                  | Volts   |
| HVIL Returned current - Battery                                | 30.40                  | mA      |
| HV Battery Current Sensor 1 Hall High                          | -1.05                  | Amps    |
| HV Battery Current Sensor 2 Hall Low                           | 0.00                   | Amps    |
| HV Battery Current HVBatCrnt                                   | 0.00                   | Amps    |
| HV Cooling Speed Pump 1 Target                                 | 600                    | rpm     |
| HV Cooling Speed pump 1 Speed                                  | 450                    | rpm     |
| Charge indicator Temp                                          | 95                     | °F      |
| BPCM temperature max                                           | 131                    | °F      |
| BPCM temperature min                                           | 127                    | °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                                         | 2.498                  | Volts   |
| Isolation Circuitry Vb                                         | 2.501                  | Volts   |

|                                                                  |                |         |
|------------------------------------------------------------------|----------------|---------|
| Isolation Circuitry Vd                                           | 0.000          | Volts   |
| WC and Circuitry 2.5V Reference Voltage                          | 2.501          | Volts   |
| WC and Circuitry Vcc Voltage                                     | 5.029          | Volts   |
| WC and Circuitry ISO 8V Reference Voltage                        | 7.980          | Volts   |
| WC and Circuitry Weld Contactor Sensor G (Pack Negative) Voltage | -183.6         | 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                                     | 3000           | watts   |
| HV Battery Charge Power 10sec                                    | 3000           | watts   |
| HV Battery Discharge Power 2sec                                  | 3000           | watts   |
| HV Battery Discharge Power 10sec                                 | 3000           | watts   |
| HV Battery Power                                                 | 007530         | watts   |
| Key - DriveRdy (CAN)                                             | True           |         |
| Battery Lifetime Number Of Closes                                | 2349           |         |
| Battery Full AmpHr Capacity                                      | 47             | AmpHrs  |
| Cell Impedance Max Discharge                                     | 0              | mOhms   |
| Cell Impedance Mim Discharge                                     | 0              | mOhms   |
| Battery Cell Voltage Maximum                                     | 3588           | mV      |
| Battery Cell Voltage Minimum                                     | 3583           | mV      |
| Battery Cell Voltage Average                                     | 3586           | mV      |
| Battery Cell Highest Cell number                                 | 80             |         |
| Battery Cell Lowest Cell number                                  | 53             |         |
| HV Battery Voltage (cell sum)                                    | 344.20         | Volts   |
| HV Battery Voltage (Module Sum)                                  | 343.70         | Volts   |
| HV Sensor A Pack Voltage                                         | 344.20         | Volts   |
| HV Sensor B Bus\Link (Pre-Fuse) Voltage                          | 220.00         | Volts   |
| HV Sensor C OBCM (HVOBC Fuse) Voltage                            | 196.80         | Volts   |
| HV Sensor D Heater (HVHTR Fuse) Voltage                          | 184.00         | Volts   |
| HV Sensor G Weld Contactor(Pack Negative) Voltage                | -183.6         | Volts   |
| Battery Temperature Maximum Module                               | 131            | °F      |
| Battery Temperature Minimum Module                               | 127            | °F      |
| Battery Temperature Average Module                               | 129            | °F      |
| Battery Temperature Highest Sensor number                        | 04             |         |
| Battery Temperature Lowest Sensor number                         | 12             |         |
| Battery Temperature Number of Failing Sensors                    | 00             |         |
| HV Cooling Pump Relay Drive                                      | Not Sourced    |         |
| HV Cooling Battery coolant inlet temp                            | 138            | °F      |
| HV Cooling Battery coolant outlet temp                           | 138            | °F      |
| HV Cooling OBCM temp inlet Temp                                  | 100            | °F      |
| Pump - Battery Coolant Level Low                                 | False          |         |
| Isolation Vehicle Diagnostic Status                              | Run and Passed |         |

|                                         |                         |           |
|-----------------------------------------|-------------------------|-----------|
| Isolation Vehicle Impedance             | 6.3260                  | Mega Ohms |
| Isolation Battery Diagnostic Status     | Run and Passed          |           |
| Isolation Battery Impedance             | 0.8480                  | Mega Ohms |
| HV Bat SOH-R                            | 83.1                    | %         |
| HV Bat SOH-C                            | 89.8                    | %         |
| 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                    | 7.8                     | %         |
| Real time clock                         | 429496.7295             | seconds   |
| Real time clock-OS Task Delay Timer     | 1                       |           |
| 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                 | 10876                   | miles     |
| Most Recent Odometer Value              | 10876                   | miles     |
| DTC Extended Data Record Number - 2     | 5D                      |           |

#### BPCM | P1A9E-00 | Stored | Hybrid/EV Battery Temperature Sensor 2 Out of Range 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)             | 10.2400                | seconds |
| FoM - for this DTC (lifetime longest fail on pass)             | 3.680                  | seconds |
| Battery Total Time Awake                                       | 32893978               | 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)         | 10884.85               | miles   |
| Battery Lifetime Miles                                         | 236.59                 | miles   |
| Vehicle Speed                                                  | 72.0                   | MPH     |
| System (12) Volts at time of fault                             | 14.537                 | Volts   |
| Battery Lifetime AmpHrs of Charge                              | 8700.3                 | AHr     |
| Battery Lifetime AmpHrs of DisCharge                           | 8689.0                 | AHr     |
| SOC at time of Fault                                           | 25.9                   | %       |
| Power Up SOC at time of Fault                                  | 24.7                   | %       |
| 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                        | 13.155                 | Volts   |
| HVIL PWM peak voltage Sensed - Vehicle                         | 13.086                 | Volts   |
| HVIL Source Voltage- Battery                                   | 1.370                  | Volts   |
| HVIL Returned current - Battery                                | 30.40                  | mA      |
| HV Battery Current Sensor 1 Hall High                          | -15.55                 | Amps    |
| HV Battery Current Sensor 2 Hall Low                           | -13.25                 | Amps    |
| HV Battery Current HVBatCrnt                                   | -13.00                 | Amps    |
| HV Cooling Speed Pump 1 Target                                 | 600                    | rpm     |
| HV Cooling Speed pump 1 Speed                                  | 600                    | rpm     |
| Charge indicator Temp                                          | 95                     | °F      |
| BPCM temperature max                                           | 131                    | °F      |
| BPCM temperature min                                           | 127                    | °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                                           | 2.446       | Volts   |
| Isolation Circuitry Vd                                           | 0.000       | Volts   |
| WC and Circuitry 2.5V Reference Voltage                          | 2.501       | Volts   |
| WC and Circuitry Vcc Voltage                                     | 5.039       | Volts   |
| WC and CircuitryISO 8V Reference Voltage                         | 7.980       | Volts   |
| WC and Circuitry Weld Contactor Sensor G (Pack Negative) Voltage | 0.2         | 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                                     | 3000        | watts   |
| HV Battery Charge Power 10sec                                    | 300         | watts   |
| HV Battery Discharge Power 2sec                                  | 3000        | watts   |
| HV Battery Discharge Power 10sec                                 | 300         | watts   |
| HV Battery Power                                                 | 00736E      | watts   |
| Key - DriveRdy (CAN)                                             | True        |         |
| Battery Lifetime Number Of Closes                                | 2349        |         |
| Battery Full AmpHr Capacity                                      | 47          | AmpHrs  |
| Cell Impedance Max Discharge                                     | 0           | mOhms   |
| Cell Impedance Mim Discharge                                     | 0           | mOhms   |
| Battery Cell Voltage Maximum                                     | 3586        | mV      |
| Battery Cell Voltage Minimum                                     | 3578        | mV      |
| Battery Cell Voltage Average                                     | 3582        | mV      |
| Battery Cell Highest Cell number                                 | 82          |         |
| Battery Cell Lowest Cell number                                  | 06          |         |
| HV Battery Voltage (cell sum)                                    | 343.80      | Volts   |
| HV Battery Voltage (Module Sum)                                  | 344.30      | Volts   |
| HV Sensor A Pack Voltage                                         | 344.80      | Volts   |
| HV Sensor B Bus\Link (Pre-Fuse) Voltage                          | 344.50      | Volts   |
| HV Sensor C OBCM (HVOBC Fuse) Voltage                            | 344.70      | Volts   |
| HV Sensor D Heater (HVHTR Fuse) Voltage                          | 344.70      | Volts   |
| HV Sensor G Weld Contactor(Pack Negative) Voltage                | 0.2         | Volts   |
| Battery Temperature Maximum Module                               | 131         | °F      |
| Battery Temperature Minimum Module                               | 127         | °F      |
| Battery Temperature Average Module                               | 129         | °F      |
| Battery Temperature Highest Sensor number                        | 04          |         |
| Battery Temperature Lowest Sensor number                         | 12          |         |
| Battery Temperature Number of Failing Sensors                    | 00          |         |
| HV Cooling Pump Relay Drive                                      | Not Sourced |         |
| HV Cooling Battery coolant inlet temp                            | 138         | °F      |
| HV Cooling Battery coolant outlet temp                           | 138         | °F      |
| HV Cooling OBCM temp inlet Temp                                  | 102         | °F      |

|                                         |                         |           |
|-----------------------------------------|-------------------------|-----------|
| Pump - Battery Coolant Level Low        | False                   |           |
| Isolation Vehicle Diagnostic Status     | Run and Passed          |           |
| Isolation Vehicle Impedance             | 6.2435                  | Mega Ohms |
| Isolation Battery Diagnostic Status     | Run and Passed          |           |
| Isolation Battery Impedance             | 0.8480                  | Mega Ohms |
| HV Bat SOH-R                            | 83.1                    | %         |
| HV Bat SOH-C                            | 89.8                    | %         |
| BPCM Sec Asic Reset Req                 | Not active              |           |
| BPCM Sec QA Error Counter               | 1                       | 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                            | 5250                    | rpm       |
| Accelerator position                    | 27.5                    | %         |
| Real time clock                         | 429496.7295             | seconds   |
| Real time clock-OS Task Delay Timer     | 1                       |           |
| Real Time Clock Validity                | True                    |           |
| DTC                                     | 1A 9E 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                 | 10876                   | miles     |
| Most Recent Odometer Value              | 10876                   | miles     |
| DTC Extended Data Record Number - 2     | 62                      |           |

## SNAPSHOT DATA SUMMARY

No Snapshot Data available for U148D-00

No Snapshot Data available for C2225-00



No Snapshot Data available for U148D-00

No Snapshot Data available for P1AA2-00

No Snapshot Data available for P1A21-00

No Snapshot Data available for P1A9E-00