

PINPOINT TEST BI: P0ADA:00

- [Introduction](#)

Refer to Wiring Diagrams Cell [21](#) for schematic and connector information.

Normal Operation and Fault Conditions


When the ignition is turned on, the BECM makes various vehicle checks. If these checks are normal, the BECM sends a signal to the contactor to close and supply high-voltage power to the vehicle. The BECM monitors the resistance of contactors while driving to verify that they are free of internal damage. For DTC P0ADA:00, the wrench indicator will illuminate and the vehicle will have limited power.

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Condition
BECM P0ADA:00	Hybrid/EV Battery Positive Contactor Control Circuit Range/Performance: No Sub Type Information	Sets if BECM detects high internal resistance within the main positive contactor.

Possible Causes

- Wiring, terminals or connectors
- High voltage battery junction box
- BECM

 **WARNING:** To prevent the risk of high-voltage shock, always follow precisely all warnings and service instructions, including instructions to depower the system. The high-voltage system utilizes approximately 450 volts DC, provided through high-voltage cables to its components and modules. The high-voltage cables and wiring are identified by orange harness tape or orange wire covering. All high-voltage components are marked with high-voltage warning labels with a high-voltage symbol. Failure to follow these instructions may result in serious personal injury or death.

NOTICE: Use the correct probe adapter(s) from the Flex Probe Kit when taking measurements. Failure to use the correct probe adapter(s) may damage the connector.

NOTE: *If SOBDMC DTC P1A10:00 is present the ignition must be turned OFF for a minimum for 5 minutes after clearing all continuous DTC's to reset it prior to performing the next pinpoint test step.*

B11 REVIEW ALL BECM (BATTERY ENERGY CONTROL MODULE) DTCS

- Review all the BECM Diagnostic Trouble Codes (DTCs).

Are Diagnostic Trouble Codes (DTCs) P0563:00, P0AA1:00, P0AA2:00, P0AA4:00, P0AA5:00, P0C78:00, P0AD9:00, P0ADB:00, P0ADC:00, and/or U3012:00 present?

Yes	REFER to the BECM DTC chart and diagnose the Diagnostic Trouble Codes (DTCs) first.
No	GO to BI2

BI2 CHECK THE CONTACTOR VOLTAGE SENSE CIRCUIT CONNECTOR FOR BEING FULLY SEATED

- Ignition OFF.
- Depower the high voltage system.
REFER to: High Voltage System De-energizing (414-03A High Voltage Battery, Mounting and Cables, General Procedures).
- Remove the high voltage battery.
REFER to: High Voltage Battery (414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).
- Remove the high voltage battery cover.
REFER to: High Voltage Battery Cover - Vehicles With: NCM Extended Range Battery/NCM Standard Range Battery (414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).
- Disconnect all the BECM connectors in sequence.
REFER to: Battery Energy Control Module (BECM) - Vehicles With: NCM Extended Range Battery/NCM Standard Range Battery (414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).
- CHECK the High Voltage Battery Junction Box [C4815C](#) for being fully seated.

Was the connector fully seated?

Yes	<p>INSTALL a new high voltage battery junction box. REFER to: High Voltage Battery Junction Box - Vehicles With: NCM Extended Range Battery/NCM Standard Range Battery (414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).</p> <p>Re-install the high voltage battery cover and the high voltage battery into the vehicle. Repower the high voltage system. REFER to: High Voltage System De-energizing (414-03A High Voltage Battery, Mounting and Cables, General Procedures).</p> <p>GO to BI3</p>
No	<p>Reseat the connector. Re-install the high voltage battery cover and the high voltage battery into the vehicle. Repower the high voltage system. REFER to: High Voltage System De-energizing (414-03A High Voltage Battery,</p>

Mounting and Cables, General Procedures).
Operate the system to check for normal vehicle operation.

BI3 CLEAR ALL BECM (BATTERY ENERGY CONTROL MODULE) DIAGNOSTIC TROUBLE CODES

- Ignition ON.
- Using a diagnostic scan tool, CLEAR all BECM Diagnostic Trouble Codes (DTCs).
- Ignition OFF for a minimum of 1 minute.
- Using a diagnostic scan tool, perform BECM self-test.

Is DTC P0ADA:00 present?

Yes	CHECK OASIS for any applicable service articles: TSB , GSB , SSM or FSA . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new BECM . REFER to: Battery Energy Control Module (BECM) - Vehicles With: NCM Extended Range Battery/NCM Standard Range Battery (414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).
No	Using a diagnostic scan tool, clear the DTC occurrence counter. The repair is complete.