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1995 FORD Mondeo Hatchback OEM Service and Repair Workshop Manual

Go to manual page

BECM (battery energy control module)	P0ADC:00	Hybrid Battery Positive Contactor Control Circuit High: No Sub Type Information	GO to Pinpoint Test X
BECM (battery energy control module)	P0ADD:00	Hybrid/EV Battery Negative Contactor Control Circuit/Open: No Sub Type Information	GO to Pinpoint Test Y
BECM (battery energy control module)	P0ADF:00	Hybrid/EV Battery Negative Contactor Control Circuit Low: No Sub Type Information	GO to Pinpoint Test Y
BECM (battery energy control module)	P0AE0:00	Hybrid Battery Negative Contactor Control Circuit High: No Sub Type Information	GO to Pinpoint Test Y
BECM (battery energy control module)	P0AE4:00	Hybrid/EV Battery Precharge Contactor Control Circuit "A" Open: No Sub Type Information	GO to Pinpoint Test AA
BECM (battery energy control module)	P0AE6:00	Hybrid/EV Battery Precharge Contactor Control Circuit "A" Low: No Sub Type Information	GO to Pinpoint Test AA
BECM (battery energy control module)	P0AE7:00	Hybrid/EV Battery Precharge Contactor Control Circuit "A" High: No Sub Type Information	GO to Pinpoint Test AA
BECM (battery energy control module)	P0AE9:00	Hybrid/EV Battery Temperature Sensor D Circuit Range/Performance: No Sup Type Information	GO to Pinpoint Test N
BECM (battery energy control module)	P0AEA:00	Hybrid Battery Temperature Sensor D Circuit Low: No Sup Type Information	GO to Pinpoint Test N
BECM (battery energy control module)	P0AEB:00	Hybrid Battery Temperature Sensor D Circuit High: No Sub Type Information	GO to Pinpoint Test N

BECM (battery energy control module)	P0B54:00	Hybrid/EV Battery Voltage Sense "F" Circuit: No Sub Type Information	GO to Pinpoint Test AD
BECM (battery energy control module)	P0B59:00	Hybrid/EV Battery Voltage Sense "G" Circuit: No Sub Type Information	GO to Pinpoint Test AD
BECM (battery energy control module)	P0B5E:00	Hybrid/EV Battery Voltage Sense "H" Circuit: No Sub Type Information	GO to Pinpoint Test AD
BECM (battery energy control module)	P0BA9:00	Hybrid/EV Battery Voltage Sense "W" Circuit: No Sub Type Information	GO to Pinpoint Test AE
BECM (battery energy control module)	P0BB3:00	Hybrid/EV Battery Voltage Sense "Y" Circuit: No Sub Type Information	GO to Pinpoint Test AE
BECM (battery energy control module)	P0BB4:00	Hybrid/EV Battery Voltage Sense "Y" Circuit Range/Performance: No Sub Type Information	GO to Pinpoint Test AE
BECM (battery energy control module)	P0BB8:00	Hybrid/EV Battery Voltage Sense "Z" Circuit: No Sub Type Information	GO to Pinpoint Test AE
BECM (battery energy control module)	P0BC3:00	Hybrid/EV Battery Temperature Sensor E Circuit Range/Performance: No Sup Type Information	GO to Pinpoint Test N
BECM (battery energy control module)	P0BC4:00	Hybrid Battery Temperature Sensor E Circuit Low: No Sup Type Information	GO to Pinpoint Test N
BECM (battery energy control module)	P0BC5:00	Hybrid Battery Temperature Sensor E Circuit High: No Sub Type Information	GO to Pinpoint Test N

BECM (battery energy control module)	P0C4B:00	Hybrid/EV Battery Pack Coolant Pump "A" Supply Voltage Circuit/Open: No Sub Type Information	GO to Pinpoint Test AH
BECM (battery energy control module)	P0C73:00	Motor Electronics Coolant Pump "A" Control Performance: No Sub Type Information	GO to Pinpoint Test F
BECM (battery energy control module)	P0C78:00	Hybrid/EV Battery System Precharge Time Too Long: No Sub Type Information	GO to Pinpoint Test Z
BECM (battery energy control module)	P0C7D:00	Hybrid/EV Battery Temperature Sensor "G" Circuit Range/Performance: No Sub Type Information	GO to Pinpoint Test N
BECM (battery energy control module)	P0C7E:00	Hybrid/EV Battery Temperature Sensor "G" Circuit Low: No Sub Type Information	GO to Pinpoint Test N
BECM (battery energy control module)	P0C7F:00	Hybrid/EV Battery Temperature Sensor "G" Circuit High: No Sub Type Information	GO to Pinpoint Test N
BECM (battery energy control module)	P0C82:00	Hybrid/EV Battery Temperature Sensor "H" Circuit Range/Performance: No Sub Type Information	GO to Pinpoint Test N
BECM (battery energy control module)	P0C83:00	Hybrid/EV Battery Temperature Sensor "H" Circuit Low: No Sub Type Information	GO to Pinpoint Test N
BECM (battery energy control module)	P0C84:00	Hybrid/EV Battery Temperature Sensor "H" Circuit High: No Sub Type Information	GO to Pinpoint Test N
BECM (battery energy control module)	P0C89:00	Hybrid/EV Battery Temperature Sensor "I" Circuit Range/Performance: No Sub Type Information	GO to Pinpoint Test N

BECM (battery energy control module)	P0DB1:00	Hybrid/EV Battery Cell Balancing Circuit "B" Stuck On: No Sub Type Information	GO to Pinpoint Test AP
BECM (battery energy control module)	P0DB2:00	Hybrid/EV Battery Cell Balancing Circuit "B" Stuck Off: No Sub Type Information	GO to Pinpoint Test AP
BECM (battery energy control module)	P0DB5:00	Hybrid/EV Battery Cell Balancing Circuit "C" Stuck On: No Sub Type Information	GO to Pinpoint Test AP
BECM (battery energy control module)	P0DB6:00	Hybrid/EV Battery Cell Balancing Circuit "C" Stuck Off: No Sub Type Information	GO to Pinpoint Test AP
BECM (battery energy control module)	P0DB9:00	Hybrid/EV Battery Cell Balancing Circuit "D" Stuck On: No Sub Type Information	GO to Pinpoint Test AP
BECM (battery energy control module)	P0DBA:00	Hybrid/EV Battery Cell Balancing Circuit "D" Stuck Off: No Sub Type Information	GO to Pinpoint Test AP
BECM (battery energy control module)	P0DBD:00	Hybrid/EV Battery Cell Balancing Circuit "E" Stuck On: No Sub Type Information	GO to Pinpoint Test AP
BECM (battery energy control module)	P0DBE:00	Hybrid/EV Battery Cell Balancing Circuit "E" Stuck Off: No Sub Type Information	GO to Pinpoint Test AP
BECM (battery energy control module)	P0DC1:00	Hybrid/EV Battery Cell Balancing Circuit "F" Stuck On: No Sub Type Information	GO to Pinpoint Test AP
BECM (battery energy control module)	P0DC2:00	Hybrid/EV Battery Cell Balancing Circuit "F" Stuck Off: No Sub Type Information	GO to Pinpoint Test AP

BECM (battery energy control module)	P1A42:00	Propulsion System Status Signal Performance: No Sub Type Information	GO to Pinpoint Test I
BECM (battery energy control module)	P1A43:00	Hybrid/EV Battery Contractor Request Signal Performance: No Sub Type Information	GO to Pinpoint Test J
BECM (battery energy control module)	P262B:00	Control Module Power Off Timer Performance: No Sub Type Information	GO to Pinpoint Test AN
BECM (battery energy control module)	P29FF:00	Hybrid/EV Battery Thermal Runaway Detected: No Sub Type Information	GO to Pinpoint Test AO
BECM (battery energy control module)	P2B29:00	Hybrid/EV Battery Pack Coolant Pump "A" Overspeed /Air in System: No Sub Type Information	GO to Pinpoint Test AH
BECM (battery energy control module)	P2BC5:00	Battery Charging System Positive Contactor "B" Stuck Closed: No Sub Type Information	GO to Pinpoint Test AI
BECM (battery energy control module)	P2BC6:00	Battery Charging System Positive Contactor "B" Stuck Open: No Sub Type Information	GO to Pinpoint Test AI
BECM (battery energy control module)	P2BC7:00	Battery Charging System Positive Contactor "B" Control Circuit/Open: No Sub Type Information	GO to Pinpoint Test AJ
BECM (battery energy control module)	P2BC9:00	Battery Charging System Positive Contactor "B" Control Circuit Low: No Sub Type Information	GO to Pinpoint Test AJ
BECM (battery energy control module)	P2BCA:00	Battery Charging System Positive Contactor "B" Control Circuit High: No Sub Type Information	GO to Pinpoint Test AJ

BECM (battery energy control module)	P2D02:00	Motor Electronics Coolant Pump "A" Underspeed: No Sub Type Information	GO to Pinpoint Test F
BECM (battery energy control module)	P2D03:00	Motor Electronics Coolant Pump "A" Supply Voltage Circuit: No Sub Type Information	GO to Pinpoint Test F
BECM (battery energy control module)	P2D04:00	Motor Electronics Coolant Pump "A" Control Module Overtemperature: No Sub Type Information	GO to Pinpoint Test F
BECM (battery energy control module)	P2D9F:00	High Voltage System Voltage High: No Sub Type Information	GO to Pinpoint Test F
BECM (battery energy control module)	U0100:00	Lost Communication With ECM/PCM "A": No Sub Type Information	GO to Pinpoint Test AR
BECM (battery energy control module)	U0140:00	Lost Communication With Body Control Module "A": No Sub Type Information	GO to Pinpoint Test AS
BECM (battery energy control module)	U0151:00	Lost Communication With Restraints Control Module: No Sub Type Information	GO to Pinpoint Test AT
BECM (battery energy control module)	U0155:00	Lost Communication With Instrument Panel Cluster (IPC) Control Module: No Sub Type Information	GO to Pinpoint Test AU
BECM (battery energy control module)	U019B:00	Lost Communication With Battery Charger Control Module "A": No Sub Type Information	GO to Pinpoint Test AV
BECM (battery energy control module)	U027C:00	Lost Communication With Off-Board Charger Control Module: No Sub Type Information	GO to Pinpoint Test AW

BECM (battery energy control module)	U0599:00	Invalid Data Received From DC/DC Converter Control Module "A": No Sub Type Information	GO to Pinpoint Test BF
BECM (battery energy control module)	U1030:00	Software Incompatibility With Hybrid/EV Battery: No Sub Type Information	GO to Pinpoint Test BG
BECM (battery energy control module)	U2100:00	Initial Configuration Not Complete: No Sub Type Information	GO to Pinpoint Test BH
BECM (battery energy control module)	U2101:00	Control Module Configuration Incompatible: No Sub Type Information	GO to Pinpoint Test BH
BECM (battery energy control module)	U2200:00	Control Module Configuration Memory Corrupt: No Sub Type Information	GO to Pinpoint Test BH
BECM (battery energy control module)	U3000:04	Control Module: System Internal Failure	GO to Pinpoint Test BI
BECM (battery energy control module)	U3000:49	Control Module: Internal Electronic Failure	GO to Pinpoint Test BI
BECM (battery energy control module)	U3003:16	Battery Voltage: Circuit Voltage Below Threshold	GO to Pinpoint Test AQ
BECM (battery energy control module)	U3003:17	Battery Voltage: Circuit Voltage Above Threshold	GO to Pinpoint Test AQ
BECM (battery energy control module)	U3003:64	Battery Voltage: Signal Plausibility Failure	GO to Pinpoint Test AQ

board diagnostic control module C)			Rear Electric Drive Assembly, Diagnosis and Testing).
SOBDMC (secondary on-board diagnostic control module C)	U351F:00	High Voltage System Interlock Circuit "E" Low: No Sub Type Information	REFER to: Rear Electric Drive Assembly (302-02 Rear Electric Drive Assembly, Diagnosis and Testing).

Symptom Chart

Symptom	Possible Sources	Action
• The low-voltage battery is discharged or voltage is low	• 12-volt main battery • Direct Current/Direct Current (DC/DC) converter control module • 12-volt battery cables	• REFER to: Direct Current/Direct Current (DC/DC) Converter Control Module - Electric(414-05 Voltage Converter/Inverter, Diagnosis and Testing).

Pinpoint Tests

PINPOINT TEST A : B11D5:00

Refer to Wiring Diagrams Cell 46for schematic and connector information.
Normal Operation and Fault Conditions The BECM (battery energy control module) monitors the impact notification output from the RCM (restraints control module) . The RCM (restraints control module) outputs a PWM (pulse width modulation) voltage on the circuit based on status. If an fuel cutoff/crash event is indicated, the BECM (battery energy control module) will initiate shutdown of the high voltage battery system. **DTC Fault Trigger Conditions**

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
BECM (battery energy control module) B11D5:00	Restraints Event - Vehicle Disabled: No Sub Type Information	This DTC (diagnostic trouble code) indicates the RCM (restraints control module) is outputting a fuel cutoff/crash event.

BECM (battery energy control module) B11D8:11	Restraint Event Notification: Circuit Short To Ground	Sets when BECM (battery energy control module) detects a short to ground on the event notification signal circuit for 10 seconds or more.

Possible Sources

- Wiring, terminals or connectors
- BCM (body control module)
- RCM (restraints control module)
- BECM (battery energy control module)

> **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.

B1 RETRIEVE BECM (BATTERY ENERGY CONTROL MODULE) DTCS

- Ignition ON.
- Using the scan tool, clear the BECM (battery energy control module) Diagnostic Trouble Codes (DTCs).
- Using a diagnostic scan tool, perform BECM (battery energy control module) self-test.

Is DTC (diagnostic trouble code) B11D8:11 present?

Yes	GO to B2

No	The concern is not present at this time.

B2 CHECK THE EVENT NOTIFICATION SIGNAL CIRCUIT FOR SHORT TO GROUND

- Ignition OFF.
- Depower the SRS (supplemental restraint system) .
  REFER to: Supplemental Restraint System (SRS) Depowering(501-20B Supplemental Restraint System, General Procedures).
- Disconnect RCM (restraints control module) C310A and C310B .
- Disconnect High Voltage Battery C144 .
- Disconnect TCU (telematic control unit module) C4802A .
- Disconnect PCM (powertrain control module) C1915B .