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2011 FORD Taurus SHO OEM Service and Repair Workshop Manual

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Climate Control System - Vehicles With: Dual Automatic Temperature Control (DATC)

412-00 Climate Control System - General Information	2022 F-150
Diagnosis and Testing	Procedure revision date: 11/14/2022

Climate Control System - Vehicles With: Dual Automatic Temperature Control (DATC)

Diagnostic Trouble Code (DTC) Chart

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.

REFER to: [Diagnostic Methods](#)

(100-00 General Information, Description and Operation).

Diagnostic Trouble Code Chart

Module	DTC (diagnostic trouble code)	Description	Action
ACCM (air conditioning control module)	B11EE:19	A/C Compressor: Circuit Current Above Threshold	GO to Pinpoint Test X
ACCM (air conditioning control module)	B11EE:41	A/C Compressor: General Checksum Failure	GO to Pinpoint Test AL
ACCM (air conditioning control module)	B11EE:4B	A/C Compressor: Over Temperature	GO to Pinpoint Test X
ACCM (air conditioning control module)	B11EE:92	A/C Compressor: Performance or Incorrect Operation	GO to Pinpoint

ACCM (air conditioning control module)	U3000:49	Control Module: Internal Electronic Failure	GO to Pinpoint Test AL
BCMC (body control module C)	P0EE3:00	A/C Refrigerant Distribution Valve "B" Control Circuit/Open: No Sub Type Information	GO to Pinpoint Test Z
BCMC (body control module C)	P0EE4:00	A/C Refrigerant Distribution Valve "B" Control Circuit Low: No Sub Type Information	GO to Pinpoint Test Z
BCMC (body control module C)	P0EE5:00	A/C Refrigerant Distribution Valve "B" Control Circuit High: No Sub Type Information	GO to Pinpoint Test Z
BCMC (body control module C)	P2611:00	A/C Refrigerant Distribution Valve "A" Control Circuit/Open: No Sub Type Information	GO to Pinpoint Test Y
BCMC (body control module C)	P2612:00	A/C Refrigerant Distribution Valve "A" Control Circuit Low: No Sub Type Information	GO to Pinpoint Test Y
BCMC (body control module C)	P2613:00	A/C Refrigerant Distribution Valve "A" Control Circuit High: No Sub Type Information	GO to Pinpoint Test Y
BCMC (body control module C)	P2CFC:00	A/C Clutch Control Circuit: No Sub Type Information	GO to Pinpoint Test C
BCMC (body control module C)	P2CFD:00	A/C Clutch Control Circuit Low: No Sub Type Information	GO to Pinpoint Test C
BCMC (body control module C)	P2CFE:00	A/C Clutch Control Circuit: No Sub Type Information	GO to Pinpoint Test C
HVAC (heating, ventilation and air conditioning)	B1081:07	Left Temperature Damper Motor: Mechanical Failure	GO to Pinpoint Test N

HVAC (heating, ventilation and air conditioning)	B1086:07	Air Distribution Damper Motor: Mechanical Failure	GO to Pinpoint Test E
HVAC (heating, ventilation and air conditioning)	B1086:11	Air Distribution Damper Motor: Circuit Short To Ground	GO to Pinpoint Test E
HVAC (heating, ventilation and air conditioning)	B1086:12	Air Distribution Damper Motor: Circuit Short To Battery	GO to Pinpoint Test E
HVAC (heating, ventilation and air conditioning)	B1086:13	Air Distribution Damper Motor: Circuit Open	GO to Pinpoint Test E
HVAC (heating, ventilation and air conditioning)	B10AF:11	Blower Fan Relay: Circuit Short To Ground	GO to Pinpoint Test P
HVAC (heating, ventilation and air conditioning)	B10AF:12	Blower Fan Relay: Circuit Short To Battery	GO to Pinpoint Test Q
HVAC (heating, ventilation and air conditioning)	B10AF:13	Blower Fan Relay: Circuit Open	GO to Pinpoint Test P
HVAC (heating, ventilation and air conditioning)	B10B3:11	Right Panel Air Discharge Temperature: Circuit Short To Ground	GO to Pinpoint Test R
HVAC (heating, ventilation and air conditioning)	B10B3:15	Right Panel Air Discharge Temperature: Circuit Short To Battery or Open	GO to Pinpoint Test R
HVAC (heating, ventilation and air conditioning)	B10B4:11	Right Floor Air Discharge Temperature: Circuit Short To Ground	GO to Pinpoint Test R
HVAC (heating, ventilation and air conditioning)	B10B4:15	Right Floor Air Discharge Temperature: Circuit Short To Battery or Open	GO to Pinpoint Test R

HVAC (heating, ventilation and air conditioning)	B11E6:15	Right HVAC Damper Position Sensor: Circuit Short To Battery or Open	GO to Pinpoint Test O
HVAC (heating, ventilation and air conditioning)	B11E7:11	Air Distribution Damper Position Sensor: Circuit Short To Ground	GO to Pinpoint Test E
HVAC (heating, ventilation and air conditioning)	B11E7:15	Air Distribution Damper Position Sensor: Circuit Short To Battery or Open	GO to Pinpoint Test E
HVAC (heating, ventilation and air conditioning)	B11F0:11	Air Intake Damper Position Sensor: Circuit Short To Ground	GO to Pinpoint Test D
HVAC (heating, ventilation and air conditioning)	B11F0:15	Air Intake Damper Position Sensor: Circuit Short To Battery or Open	GO to Pinpoint Test D
HVAC (heating, ventilation and air conditioning)	B1A61:11	Cabin Temperature Sensor: Circuit Short To Ground	GO to Pinpoint Test S
HVAC (heating, ventilation and air conditioning)	B1A61:15	Cabin Temperature Sensor: Circuit Short To Battery or Open	GO to Pinpoint Test S
HVAC (heating, ventilation and air conditioning)	B1A63:11	Right Solar Sensor: No Sub Type Information	GO to Pinpoint Test T
HVAC (heating, ventilation and air conditioning)	B1A63:15	Right Solar Sensor: Circuit Short To Battery or Open	GO to Pinpoint Test T
HVAC (heating, ventilation and air conditioning)	B1A64:11	Left Solar Sensor: No Sub Type Information	GO to Pinpoint Test T
HVAC (heating, ventilation and air conditioning)	B1A64:15	Left Solar Sensor: Circuit Short To Battery or Open	GO to Pinpoint Test T

HVAC (heating, ventilation and air conditioning)	U0253:00	Lost Communication With Accessory Protocol Interface Module: No Sub Type Information	GO to Pinpoint Test AG
HVAC (heating, ventilation and air conditioning)	U0401:00	Invalid Data Received from ECM/PCM A: No Sub-Type Information	GO to Pinpoint Test AH
HVAC (heating, ventilation and air conditioning)	U0401:82	Invalid Data Received from ECM/PCM A: Alive / Sequence Counter Incorrect / Not Updated	GO to Pinpoint Test AH
HVAC (heating, ventilation and air conditioning)	U0422:68	Invalid Data Received from Body Control Module: Event Information	GO to Pinpoint Test AH
HVAC (heating, ventilation and air conditioning)	U0422:81	Invalid Data Received from Body Control Module: Invalid Serial Data Received	GO to Pinpoint Test AH
HVAC (heating, ventilation and air conditioning)	U0452:82	Invalid Data Received From Restraints Control Module: Alive/Sequence Counter Incorrect/Not Updated	GO to Pinpoint Test AH
HVAC (heating, ventilation and air conditioning)	U1000:00	Solid State Driver Protection Active -Driver Disabled: No Sub Type Information	GO to Pinpoint Test AI
HVAC (heating, ventilation and air conditioning)	U2024:51	Control Module Cal-Config Data: Not Programmed	GO to Pinpoint Test AK
HVAC (heating, ventilation and air conditioning)	U2100:00	Initial Configuration Not Complete: No Sub Type Information	GO to Pinpoint Test AK
HVAC (heating, ventilation and air conditioning)	U3000:41	Control Module: General Checksum Failure	GO to Pinpoint Test AL
HVAC (heating, ventilation and air conditioning)	U3000:49	Control Module: Internal Electronic Failure	GO to Pinpoint Test AL

PCM (powertrain control module)	P2601:00	Coolant Pump "A" Control Circuit Performance/Stuck Off: No Sub Type Information	GO to Pinpoint Test AJ
PCM (powertrain control module)	P2602:00	Coolant Pump "A" Control Circuit Low: No Sub Type Information	GO to Pinpoint Test AJ
PCM (powertrain control module)	P2603:00	Coolant Pump "A" Control Circuit High: No Sub Type Information	GO to Pinpoint Test AJ
SOBDMC (secondary on-board diagnostic control module C)	P0D6D:00	A/C Compressor Motor Voltage "A" Low: No Sub Type Information	GO to Pinpoint Test X
SOBDMC (secondary on-board diagnostic control module C)	P0D6F:00	A/C Compressor Motor Current High: No Sub Type Information	GO to Pinpoint Test X
SOBDMC (secondary on-board diagnostic control module C)	P0D71:00	A/C Compressor Control Module Internal Temperature Sensor Performance: No Sub Type Information	GO to Pinpoint Test X
SOBDMC (secondary on-board diagnostic control module C)	P0EE3:00	A/C Refrigerant Distribution Valve "B" Control Circuit/Open: No Sub Type Information	GO to Pinpoint Test Z
SOBDMC (secondary on-board diagnostic control module C)	P0EE4:00	A/C Refrigerant Distribution Valve "B" Control Circuit Low: No Sub Type Information	GO to Pinpoint Test Z
SOBDMC (secondary on-board diagnostic control module C)	P0EE5:00	A/C Refrigerant Distribution Valve "B" Control Circuit High: No Sub Type Information	GO to Pinpoint Test Z
SOBDMC (secondary on-board diagnostic control module C)	P2611:00	A/C Refrigerant Distribution Valve "A" Control Circuit/Open: No Sub Type Information	GO to Pinpoint Test Y
SOBDMC (secondary on-board diagnostic control module C)	P2612:00	A/C Refrigerant Distribution Valve "A" Control Circuit Low: No Sub Type Information	GO to Pinpoint Test Y

Comfort & Entertainment > Climate Control > Function/Operation > Blows Warm	GO to Pinpoint Test I
Comfort & Entertainment > Climate Control > Function/Operation > Blows Warm	GO to Pinpoint Test L
Comfort & Entertainment > Climate Control > Function/Operation > Blows Warm	GO to Pinpoint Test X
Comfort & Entertainment > Climate Control > Function/Operation > Blows Warm	GO to Pinpoint Test AO
Comfort & Entertainment > Climate Control > Function/Operation > Inoperative	GO to Pinpoint Test P
Comfort & Entertainment > Noise > Climate Control > Always	GO to Pinpoint Test W
Safe & Secure > Smoke/Odor > Underhood > Hot	GO to Pinpoint Test H

Symptom Charts

Symptom Chart – Climate Control Systems

NOTE

Some Powertrain Control Module (PCM) Diagnostic Trouble Codes (DTCs) may inhibit Air Conditioning (A/C) operation. If any Powertrain Control Module (PCM) Diagnostic Trouble Codes (DTCs) are retrieved, diagnose those first. Refer to the Master Diagnostic Trouble Code (DTC) Chart.

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.

REFER to: [Diagnostic Methods](#)

(100-00 General Information, Description and Operation).

Condition	Actions
Externally Controlled Variable Displacement Compressor (EVDC) Performance Check With Or Without DTC (diagnostic trouble code) P06A0	GO to Pinpoint Test G
A Module Does Not Respond To The Diagnostic Scan Tool	REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
Insufficient Air Conditioning (A/C) Cooling	GO to Pinpoint Test I

Refer to Wiring Diagrams Cell 55 for schematic and connector information.

Normal Operation and Fault Conditions The A/C (air conditioning) pressure transducer receives a ground from the PCM (powertrain control module). A 5-volt reference voltage is supplied to the A/C (air conditioning) pressure transducer from the PCM (powertrain control module). The A/C (air conditioning) pressure transducer then sends a voltage to the PCM (powertrain control module) to indicate the A/C (air conditioning) pressure. **DTC Fault Trigger Conditions**

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
PCM (powertrain control module) P0531:00	A/C Refrigerant Pressure Sensor 'A' Circuit Range/Performance: No Sub Type Information	Sets if the pressure sensor falls below or exceeds a minimum or maximum calibrated value for a calibrated period of time.
PCM (powertrain control module) P0532:00	A/C Refrigerant Pressure Sensor 'A' Circuit Low: No Sub Type Information	Sets if the feedback voltage is less than 0.26 volt for at least 2 seconds and the ambient air temperature is greater than 0°C (32°F).
PCM (powertrain control module) P0533:00	A/C Refrigerant Pressure Sensor 'A' Circuit High: No Sub Type Information	Sets if the feedback voltage is greater than 4.95 volts for at least 2 seconds and the ambient air temperature is greater than 0°C (32°F).
PCM (powertrain control module) P0534:00	A/C Refrigerant System 'A' Charge Loss: No Sub Type Information	Sets if the pressure sensor signal is lower than the calibrated value.

Possible Sources

- A/C (air conditioning) system discharged or low refrigerant charge
- Wiring, terminals or connectors
- A/C (air conditioning) pressure transducer
- PCM (powertrain control module)

Visual Inspection and Pre-checks

- Inspect for loose or corroded A/C (air conditioning) pressure transducer connections.

NOTICE

Positive Lead	Measurement / Action	Negative Lead
C1260-1	\bar{V}	Ground
C1260-2	\bar{V}	Ground
C1260-3	\bar{V}	Ground

Is any voltage present?

Yes	REPAIR the circuit.
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No	GO to A3
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A3 CHECK THE A/C (AIR CONDITIONING) PRESSURE SENSOR CIRCUITS FOR A SHORT TO GROUND

- Ignition OFF.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C1260-1	Ω	Ground
C1260-2	Ω	Ground
C1260-3	Ω	Ground