

Diagnosis and Testing

Refer to Wiring Diagrams Cell 054-1, for schematic and connector information.Refer to Wiring Diagrams Cell 055-1, for schematic and connector information.

General Equipment

Ford diagnostic equipment
Refrigerant center

Inspection and Verification - Manual Climate Control

1. Verify the customer concern.
2. Visually inspect for obvious signs of mechanical or electrical damage.

Visual Inspection

Mechanical	Electrical
• Coolant level • Drive belt • Refrigerant line(s) • Thermostatic expansion valve • Receiver drier • Evaporator • Condenser • Cabin air filter • Heater core • Climate control housing • Air conditioning (A/C) compressor	• Fuse(s) • Relay(s) • Wiring harness • Electrical connector(s) • Blower motor • Blower motor control module • Temperature blend door actuator • Air distribution door actuator • Fresh/Recirculation door actuator • Driver side register air discharge temperature sensor • In-vehicle temperature and humidity sensor • Evaporator temperature sensor • Ambient air temperature sensor • A/C compressor control solenoid • A/C pressure transducer • Electric booster heater • Front controls interface module (FCIM) • Battery junction box (BJB) • Body control module (BCM) • Powertrain control module (PCM)

3. If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step.
4. If the cause is not visually evident, refer to the Ford diagnostic equipment to diagnose the system.

Inspection and Verification - Automatic Climate Control

1. Verify the customer concern.
2. Visually inspect for obvious signs of mechanical or electrical damage.

Visual Inspection

Mechanical	Electrical
• Coolant level • Drive belt • Refrigerant line(s) • Thermostatic expansion valve • Receiver drier • Evaporator • Condenser • Cabin air filter • Heater core • Climate control housing • Air conditioning (A/C) compressor	• Fuse(s) • Relay(s) • Wiring harness • Electrical connector(s) • Blower motor • Blower motor control module • Temperature blend door actuator(s) • Air distribution door actuator • Fresh/Recirculation door actuator • Driver side register air discharge temperature sensor • Passenger side register air discharge temperature sensor • Driver side footwell air discharge temperature sensor • Passenger side footwell air discharge temperature sensor • In-vehicle temperature and humidity sensor • Evaporator temperature sensor • Ambient air temperature sensor • A/C compressor control solenoid • Air quality sensor • DC to DC converter module • Sunload sensor • A/C pressure transducer

- Electric booster heater
- Front controls interface module (FCIM)
- Battery junction box (BJB)
- Body control module (BCM)
- Powertrain control module (PCM)

3. If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step.
4. If the cause is not visually evident, refer to the [Ford diagnostic equipment](#) to diagnose the system.

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