

PINPOINT TEST C: A/C BLOWER MOTOR SPEED CONTROL NOT OPERATING CORRECTLY**C1 CHECK BLOWER MOTOR SUPPLY VOLTAGE**

- Gain access to the blower motor control connector.
- Turn ignition switch to the ON position.
- Using a voltmeter, check voltage at Circuit 687 (GY/Y) at motor connector.
- **Is voltage 10 volts or more?**

→ **Yes**
GO to [C4](#).

→ **No**
GO to [C2](#).

C2 CHECK CIRCUIT 687 (GY/Y) FOR SHORT

- Remove blower Fuse 30A at primary junction block.
- Using an ohmmeter connected to a known good ground, connect second lead to Circuit 687 (GY/Y) at A/C blower motor.
- Measure resistance.
- **Is resistance 5 ohms or less?**

→ **Yes**
SERVICE Circuit 687 (GY/Y) for short. REPLACE fuse. RESTORE vehicle. RETEST system.

→ **No**
GO to [C3](#).

C3 CHECK CIRCUIT 687 (GY/Y) FOR OPEN

- Disconnect A/C blower motor control. Connect a jumper wire to Circuit 687 (GY/Y) at blower motor control connector. Connect other end to a known good ground.
- Using an ohmmeter connected to a known good ground, connect second lead to Circuit 687 (GY/Y).
- Measure resistance.
- **Is resistance 5 ohms or less?**

→ **Yes**
GO to [C4](#).

→ **No**
SERVICE Circuit 687 (GY/Y) for open. RESTORE vehicle. RETEST system.

C4 CHECK BLOWER MOTOR SPEED CONTROL GROUND

- Gain access to A/C blower motor speed control as outlined.
- Using an ohmmeter connected to a known good ground, connect second lead to Circuit 57 (BK) at A/C blower motor speed control connector, J1-2.
- Measure resistance.
- **Is resistance 5 ohms or less?**

→ **Yes**

GO to [C5](#).

→ **No**
SERVICE Circuit 57 (BK) for open. RESTORE vehicle. RETEST system.

C5 CHECK BLOWER MOTOR

- Reconnect A/C blower motor and blower Fuse 30A.
- Move heater blower motor switch to mid-position and connect a voltmeter between Circuits 515 (O/R) and 57 (BK).
- Push the A/C button.
- Measure voltage.
- **Is voltage greater than 7 volts?**

→ **Yes**
GO to [C6](#).

→ **No**
REPLACE A/C blower motor. RESTORE vehicle. RETEST system.

C6 CHECK CIRCUIT 246 (P)

- Leave voltmeter connected. Disconnect A/C blower motor speed control .
- Measure voltage of Circuit 246 (P).
- **Is voltage greater than 1 volt?**

→ **Yes**
REPLACE A/C blower motor speed control . RESTORE vehicle. RETEST system.

→ **No**
GO to [C7](#).

C7 CHECK CIRCUIT 246 (P) FOR OPEN

- Connect voltmeter to Circuit 246 (P) at SATC module Pin 23 and Circuit 57 (BK) Pin 24 at SATC module.
- Measure voltage.
- **Is voltage greater that 1 volt?**

→ **Yes**
SERVICE Circuit 246 (P) for open. RESTORE vehicle. RETEST system.

→ **No**
GO to [C8](#).

C8 CHECK CIRCUIT 246 (P) FOR SHORT

- Using an ohmmeter connected to a known good ground, connect second lead to Circuit 246 (P) at SATC module Pin 23.
- Measure resistance.
- **Is resistance 5 ohms or less?**

→ **Yes**
SERVICE Circuit 246 (P) for short. RESTORE vehicle. RETEST system.

→ **No**
REPLACE SATC control module. RESTORE vehicle. RETEST system.