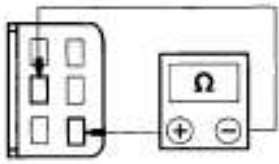
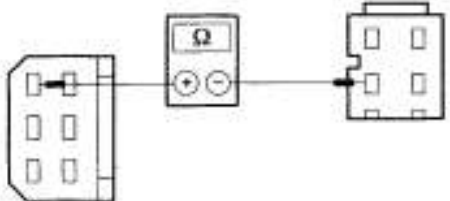
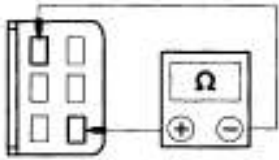


CONDITIONS	DETAILS/RESULTS/ACTIONS
	REPAIR circuit 31S-FA31 (BK/YE). TEST the system for normal operation.
<b>E7: CHECK OPERATION OF HEATER BLOWER SWITCH</b>	
	<ol style="list-style-type: none"> <li>1 Ensure that the heater blower switch is in speed 2 position.</li> <li>2 Measure the resistance between heater blower switch connector, pin 6, component side and heater blower switch connector, pin 2, component side.</li> </ol> <p>• Is the resistance less than 5 ohms?  → <b>Yes</b>  INSTALL a new heater blower series resistor. TEST the system for normal operation.</p> <p>→ <b>No</b>  INSTALL a new heater blower switch, TEST the system for normal operation.</p>
<b>E8: CHECK CIRCUIT 31S - FA32 (BK/BU) FOR OPEN</b>	
	<ol style="list-style-type: none"> <li>1 Key in OFF position.</li> <li>2 Disconnect Heater blower switch.</li> <li>3 Disconnect Heater blower resistor.</li> <li>4 Measure the resistance between heater blower switch, connector, pin 1, circuit 31S-FA32 (BK/BU), and heater blower resistor, connector, pin 4.</li> </ol> <p>• Is the resistance less than 5 ohms?  → <b>Yes</b>  GO to E9</p>

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**Fig. 8: Test E (4 Of 5 - Steps E7-E8)**  
Courtesy of FORD MOTOR CO.

CONDITIONS	DETAILS/RESULTS/ACTIONS
	→ No REPAIR circuit 31S-FA32 (BK/BU), TEST the system for normal operation.
<b>E9: CHECK OPERATION OF HEATER BLOWER SWITCH</b>	
	<ol style="list-style-type: none"> <li>1 Ensure that the heater blower switch is in speed 3 position.</li> <li>2 Measure the resistance between heater blower switch connector, pin 6, component side and heater blower switch connector, pin 1, component side.</li> </ol>
	<p>• Is the resistance less than 5 ohms?</p> <p>→ Yes INSTALL a new heater blower series resistor. TEST the system for normal operation.</p> <p>→ No INSTALL a new heater blower switch. TEST the system for normal operation.</p>

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**Fig. 9: Test E (5 Of 5 - Steps E8 Cont.-E9)**

Courtesy of FORD MOTOR CO.

**TEST F: BLOWER MOTOR OPERATES CONTINUOUSLY AT HIGH SPEED****NOTE:** For circuit reference, see WIRING DIAGRAMS .**Possible Causes**

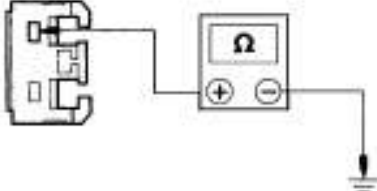
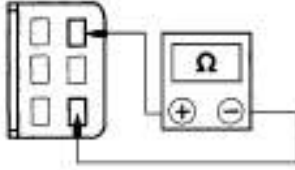
- Blower Motor Switch
- Circuits
- Blower Motor

**Diagnostic Procedure**For testing procedure, see Fig. 10 and Fig. 11 .

CONDITIONS	DETAILS/RESULTS/ACTIONS
F1: CHECK CIRCUIT 31S - FA32 (BK/RD) FOR SHORT TO GROUND	
	<div>1 Key in OFF position.</div> <div>2 Disconnect Heater Blower and heater blower switch connector.</div>

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**Fig. 10: Test C (1 Of 2 - Step F1)**  
**Courtesy of FORD MOTOR CO.**

CONDITIONS	DETAILS/RESULTS/ACTIONS
	<p>3 Measure the resistance between heater blower connector, pin 2, circuit 31-FA32 (BK/RD), harness side and ground.</p> <p>• Is the resistance less than 5 ohms?  → Yes  REPAIR short to ground on circuit 31-FA32 (BK/RD). TEST the system for normal operation.  → No  GO to F2</p>
<b>F2: CHECK OPERATION OF HEATER BLOWER SWITCH</b>	
	<p>1 Disconnect Heater Blower Switch.  2 Ensure that the heater blower switch is in speed 0 position.  3 Measure the resistance between heater blower switch connector, pin 6, component side and heater blower switch connector, pin 4, component side.</p> <p>• Is the resistance less than 5 ohms?  → Yes  INSTALL a new heater blower switch. TEST the system for normal operation.  → No  INSTALL a new heater blower. TEST the system for normal operation.</p>

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**Fig. 11: Test C (2 Of 2 - Step F1-F2)**  
 Courtesy of FORD MOTOR CO.

## REMOVAL & INSTALLATION

**WARNING:** Vehicle is equipped with Supplemental Inflatable Restraint (SIR) system.  
 When servicing vehicle, use care to avoid accidental air bag deployment.

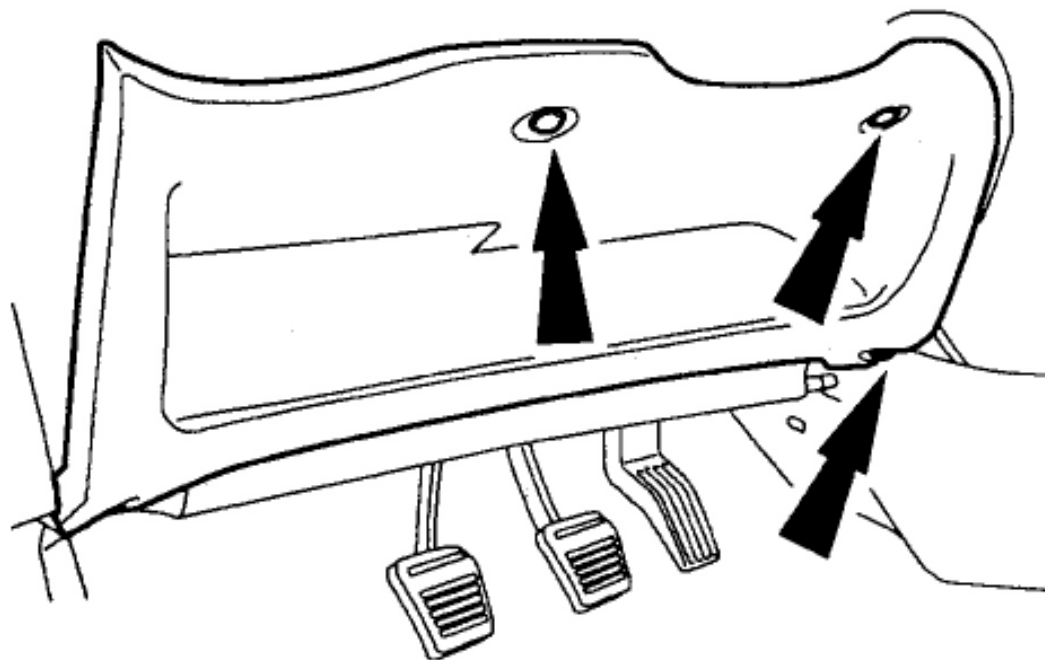
**SIR system-related components are located in various locations throughout interior and exterior of vehicle, depending on application. Do not use electrical test equipment on or near these circuits. If necessary, deactivate SIR system before servicing components. See appropriate AIR BAG RESTRAINT SYSTEMS article in RESTRAINTS.**

**CAUTION:** When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See **COMPUTER RELEARN PROCEDURES** article in **GENERAL INFORMATION** before disconnecting battery.

## **AIR DISTRIBUTION & TEMPERATURE CONTROL CABLES**

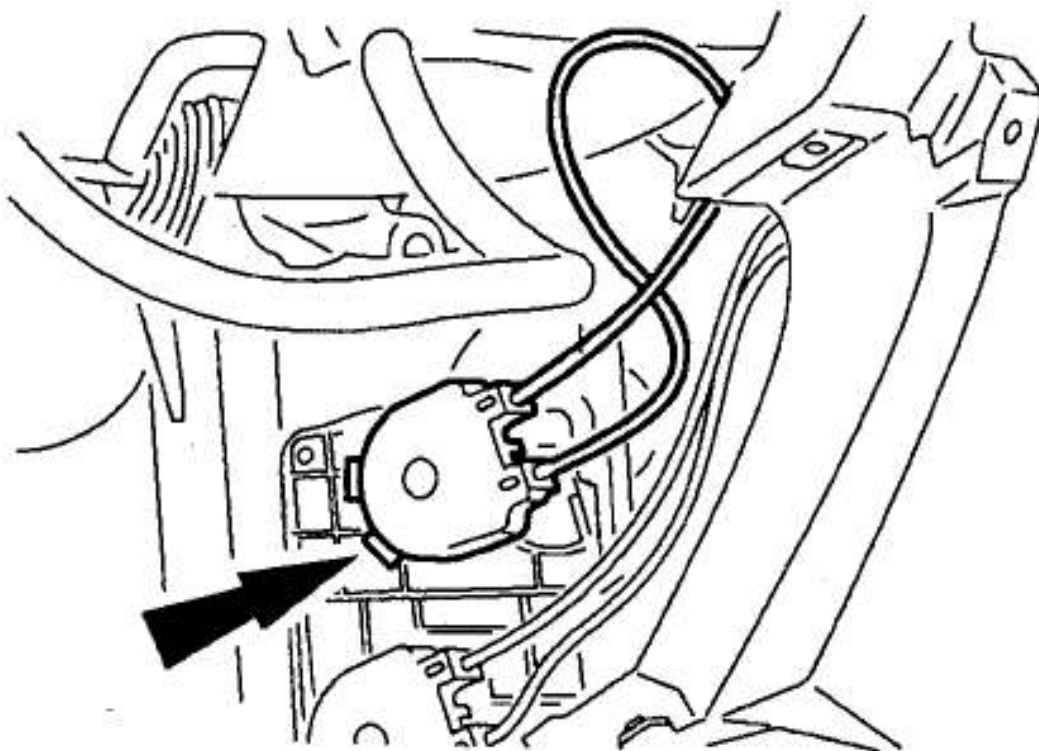
### **Removal & Installation**

1. Remove control panel assembly. See **CONTROL PANEL ASSEMBLY** . Remove lower instrument panel cover on drivers side. See **Fig. 12** . Unclip and remove air distribution and temperature control cables from blend door assembly. See **Fig. 13** and **Fig. 14** .
2. To install, turn air distribution and temperature control rotary switches to full left position and reverse removal procedure. Route cables so they are not kinked and do not interfere with other moving parts. To complete installation, reverse removal procedure. Check cable operation.



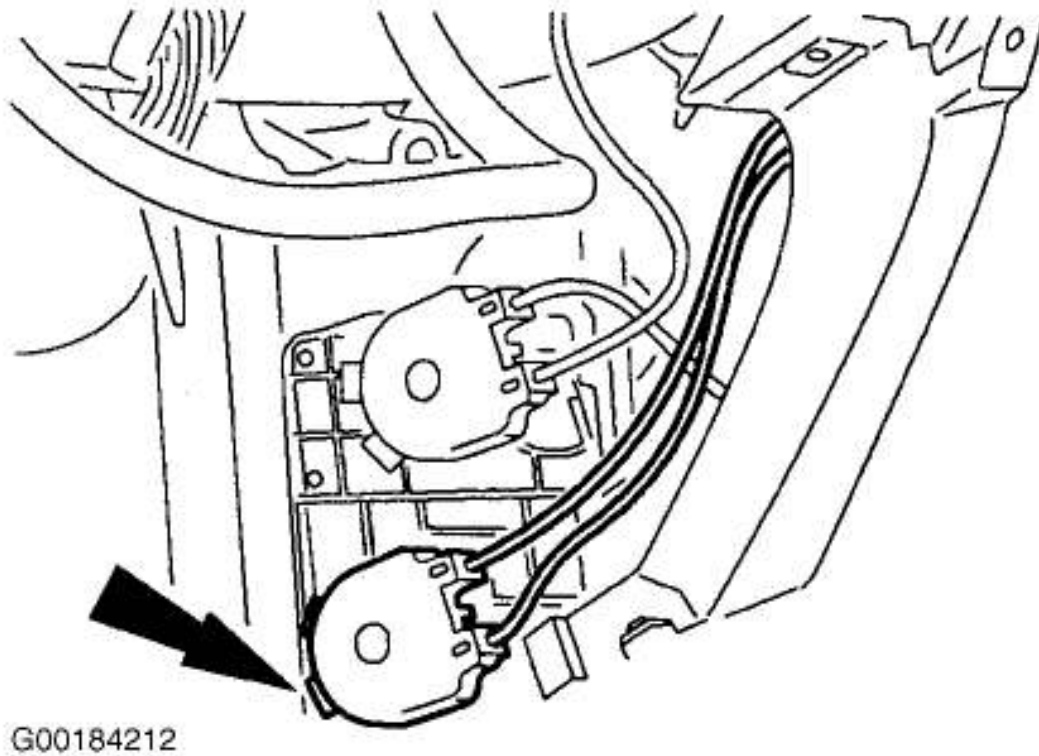
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**Fig. 12: Removing Lower Instrument Panel Cover**  
Courtesy of FORD MOTOR CO.



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**Fig. 13: Removing Air Distribution Cables**  
Courtesy of FORD MOTOR CO.



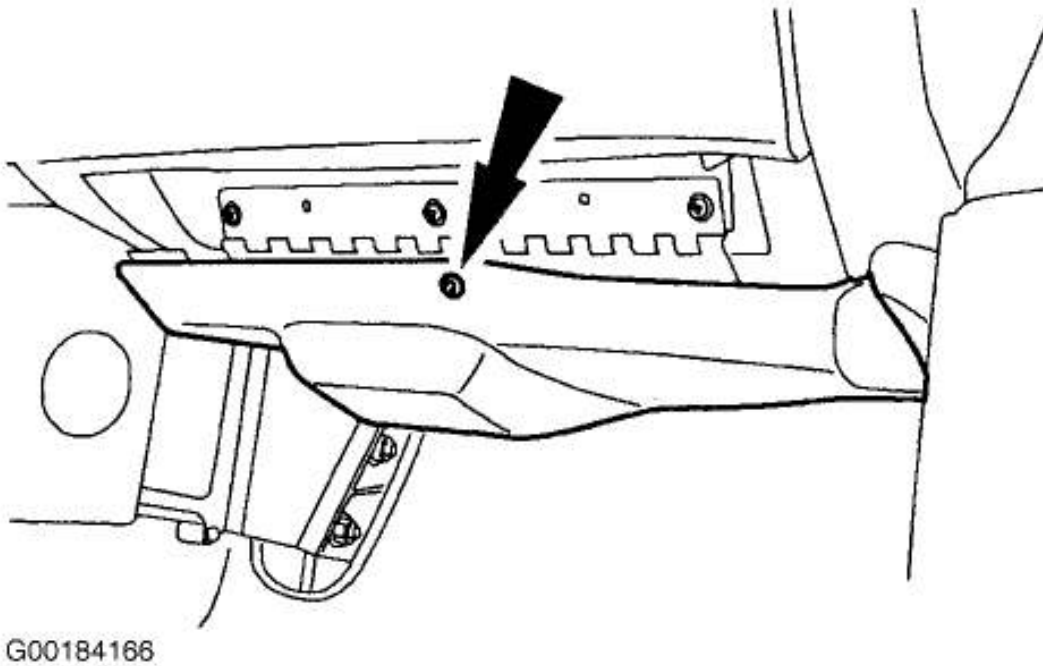
**Fig. 14: Removing Temperature Control Cables**  
Courtesy of FORD MOTOR CO.

## BLOWER MOTOR

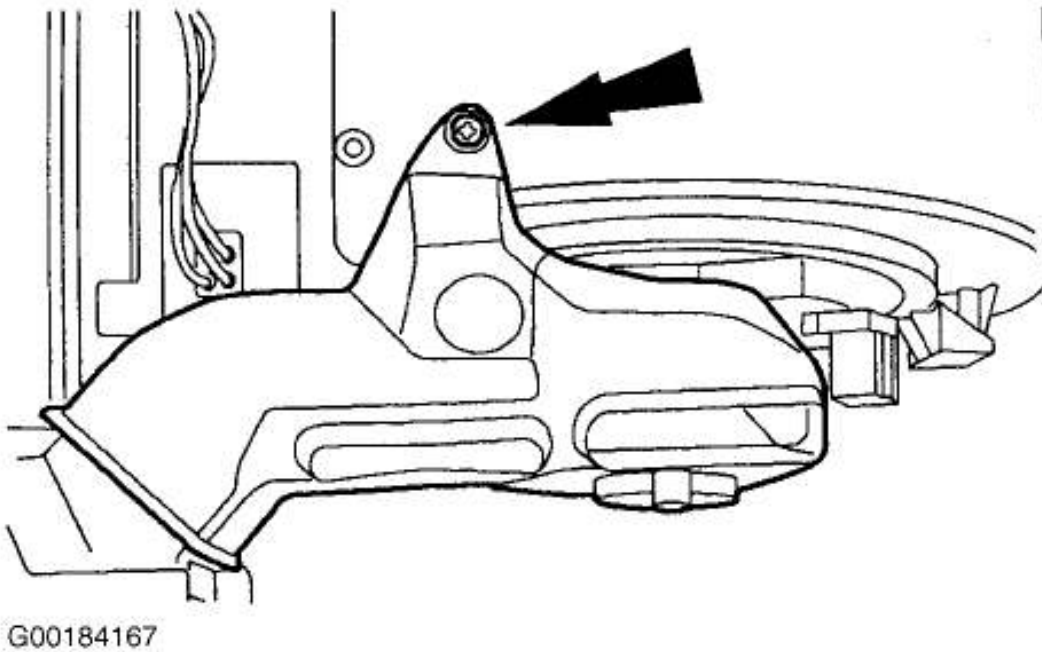
### Removal & Installation

Remove lower footwell trim on passengers side of instrument panel. See **Fig. 15** . Open glove box. Pull off hose and remove footwell vent air duct. See **Fig. 16** . Close glove box. Disconnect blower motor harness connector. See **Fig. 17** . Remove 3 blower motor mounting screws and remove blower motor. To install, reverse removal procedure.

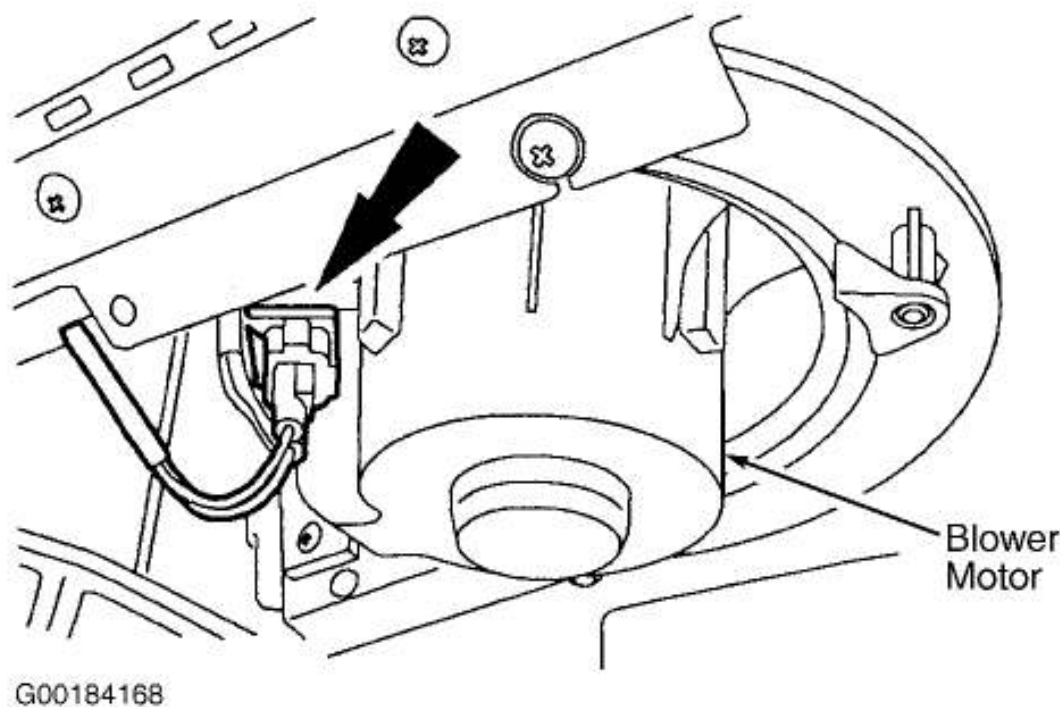




**Fig. 15: Removing Passengers Side Lower Footwell Trim**  
Courtesy of FORD MOTOR CO.



**Fig. 16: Removing Footwell Vent Air Duct**  
Courtesy of FORD MOTOR CO.



**Fig. 17: Removing & Installing Blower Motor**  
Courtesy of FORD MOTOR CO.

## CONTROL PANEL ASSEMBLY

### Removal & Installation

1. Disconnect negative battery cable. Remove audio unit, by inserting Audio Unit Removers 415-001 (T87P-19061-A) into holes on edge of audio unit face plate. See **Fig. 18** or **Fig. 20** . Disconnect audio unit connectors. See **Fig. 19** or **Fig. 21** .
2. Remove instrument panel console bezel retaining screws. See **Fig. 22** . Pull instrument panel console bezel forwards and disconnect electrical connectors. See **Fig. 23** . Turn air distribution and temperature control rotary switches to full left position. Detach temperature and air distribution blend door Bowden cables from climate control assembly. See **Fig. 24** . Remove climate control assembly. See **Fig. 25** .
3. To install, reverse removal procedure.