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1995 FORD Taurus OEM Service and Repair Workshop Manual

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Positive Lead	Measurement / Action	Negative Lead
C2436-A	Ω	Ground
C2436-B	Ω	Ground

- For the Passenger Side Footwell (Floor) Air Discharge Temperature Sensor, measure:

Positive Lead	Measurement / Action	Negative Lead
C2437-A	Ω	Ground
C2437-B	Ω	Ground

- For the Driver Side Register (Panel) Air Discharge Temperature Sensor, measure:

Positive Lead	Measurement / Action	Negative Lead
C2438-1	Ω	Ground
C2438-3	Ω	Ground

- For the Passenger Side Register (Panel) Air Discharge Temperature Sensor, measure:

Positive Lead	Measurement / Action	Negative Lead
C2439-1	Ω	Ground

C2437-B	Ω	C228A-2

- For the Driver Side Register (Panel) Air Discharge Temperature Sensor, measure:

Positive Lead	Measurement / Action	Negative Lead
C2438-1	Ω	C228B-4

Positive Lead	Measurement / Action	Negative Lead
C2438-3	Ω	C228A-2

- For the Passenger Side Register (Panel) Air Discharge Temperature Sensor, measure:

Positive Lead	Measurement / Action	Negative Lead
C2439-1	Ω	C228B-10

Positive Lead	Measurement / Action	Negative Lead
C2439-3	Ω	C228A-2

Are the resistances less than 3 ohms?

Yes	GO to R5

No	REPAIR the circuit.

	CLEAR the Diagnostic Trouble Codes (DTCs). REPEAT the self-test. If the DTC (diagnostic trouble code) returns, GO to R6

No	REPAIR the circuit.

R6 CHECK FOR CORRECT HVAC (HEATING, VENTILATION AND AIR CONDITIONING) CONTROL MODULE OPERATION

- Ignition OFF.
- Disconnect and inspect all HVAC (heating, ventilation and air conditioning) control module electrical connectors.
- Repair:
  - corrosion (install new connector or terminal - clean module pins)
  - damaged or bent pins - install new terminals or pins
  - pushed-out pins - install new pins as necessary
- Connect all HVAC (heating, ventilation and air conditioning) control module electrical connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new HVAC (heating, ventilation and air conditioning) control module. REFER to: Heating, Ventilation and Air Conditioning (HVAC) Control Module (412-00 Climate Control System - General Information, Removal and Installation).

No	The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector. ADDRESS the root cause of any connector or pin issues.

PINPOINT TEST S : B1A61:11, B1A61:15, B1A69:11, B1A69:15, B1A69:92

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

S1 CHECK THE IN-VEHICLE TEMPERATURE AND HUMIDITY SENSOR CIRCUITS FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect HVAC (heating, ventilation and air conditioning) control module C228A and C228B .
- Ignition ON.
- Measure:

C228B

Positive Lead	Measurement / Action	Negative Lead
C228B-29	V⎓	Ground
C228B-27	V⎓	Ground
C228B-19	V⎓	Ground
C228B-9	V⎓	Ground

C228A

Positive Lead	Measurement / Action	Negative Lead
C228A-3	V⎓	Ground
C228A-2	V⎓	Ground

Is any voltage present?

Yes	REPAIR the circuit in question.

Yes	GO to S3

No	REPAIR the circuit in question.

S3 CHECK THE IN-VEHICLE TEMPERATURE AND HUMIDITY SENSOR CIRCUITS FOR AN OPEN CIRCUIT

- Disconnect In-vehicle temperature and humidity sensor C910 .
- Measure:

C228B

Positive Lead	Measurement / Action	Negative Lead
C228B-29	Ω	C910-1
C228B-27	Ω	C910-2
C228B-19	Ω	C910-4
C228B-9	Ω	C910-6

C228A

Positive Lead	Measurement / Action	Negative Lead
C228A-3	Ω	C910-3
C228A-2	Ω	C910-5

- damaged or bent pins - install new terminals or pins
- pushed-out pins - install new pins as necessary

- Connect all HVAC (heating, ventilation and air conditioning) control module electrical connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new HVAC (heating, ventilation and air conditioning) control module. REFER to: Heating, Ventilation and Air Conditioning (HVAC) Control Module (412-00 Climate Control System - General Information, Removal and Installation).

No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

PINPOINT TEST T : B1A63:11, B1A63:15, B1A64:11, B1A64:15

Refer to Wiring Diagrams Cell 55for schematic and connector information.
Normal Operation and Fault Conditions The sunload sensor supplies information to the HVAC (heating, ventilation and air conditioning) control module indicating the sunload intensity on the vehicle and the HVAC (heating, ventilation and air conditioning) control module adjusts the system based on that information. **DTC Fault Trigger Conditions**

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
HVAC (heating, ventilation and air conditioning) B1A63:11	Right Solar Sensor: Circuit Short To Ground	Module senses a short to ground from the right sunload sensor feedback circuit.
HVAC (heating, ventilation and air conditioning) B1A63:15	Right Solar Sensor: Circuit Short To Battery Or Open	Module senses an open or a short to voltage from the right sunload sensor feedback circuit.
HVAC (heating, ventilation and air conditioning) B1A64:11	Left Solar Sensor: Circuit Short To Ground	Module senses a short to ground from the left sunload sensor feedback circuit.

Is any voltage present?

Yes	REPAIR the circuit.

No	GO to T2

T2 CHECK THE SUNLOAD SENSOR CIRCUITS FOR A SHORT TO GROUND

- Ignition OFF.
- Measure:
  C286

Positive Lead	Measurement / Action	Negative Lead
C286-1	Ω	Ground
C286-2	Ω	Ground
C286-3	Ω	Ground
C286-4	Ω	Ground

Are the resistances greater than 10,000 ohms?

Yes	GO to T3

No	REPAIR the circuit.

Positive Lead	Measurement / Action	Negative Lead
C286-1	Ω	C286-2
C286-1	Ω	C286-3
C286-1	Ω	C286-4
C286-2	Ω	C286-3
C286-2	Ω	C286-4
C286-3	Ω	C286-4

Are the resistances greater than 10,000 ohms?

Yes	INSTALL a new sunload sensor. REFER to: Sunload Sensor (412-00 Climate Control System - General Information, Removal and Installation). TEST the system for normal operation. If the concern is still present, GO to T5

No	REPAIR the circuit.

T5 CHECK FOR CORRECT HVAC (HEATING, VENTILATION AND AIR CONDITIONING) CONTROL MODULE OPERATION

- Ignition OFF.

HVAC (heating, ventilation and air conditioning) B1B71:15	Evaporator Temperature Sensor: Circuit Short To Battery Or Open	Module senses greater than expected voltage on the sensor feedback circuit, indicating a short to voltage or an open circuit or sensor.

Possible Sources

- Wiring, terminals or connectors
- Evaporator temperature sensor
- HVAC (heating, ventilation and air conditioning) control module

NOTICE

Use the correct probe adapter(s) when making measurements. Failure to use the correct probe adapter(s) may cause damage to the connector.

U1 CHECK THE EVAPORATOR TEMPERATURE SENSOR CIRCUITS FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect HVAC (heating, ventilation and air conditioning) control module C228A and C228B .
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C228A-2	V	Ground
C228A-19	V	Ground

Is any voltage present?

Yes	REPAIR the circuit in question.

No	GO to U2