

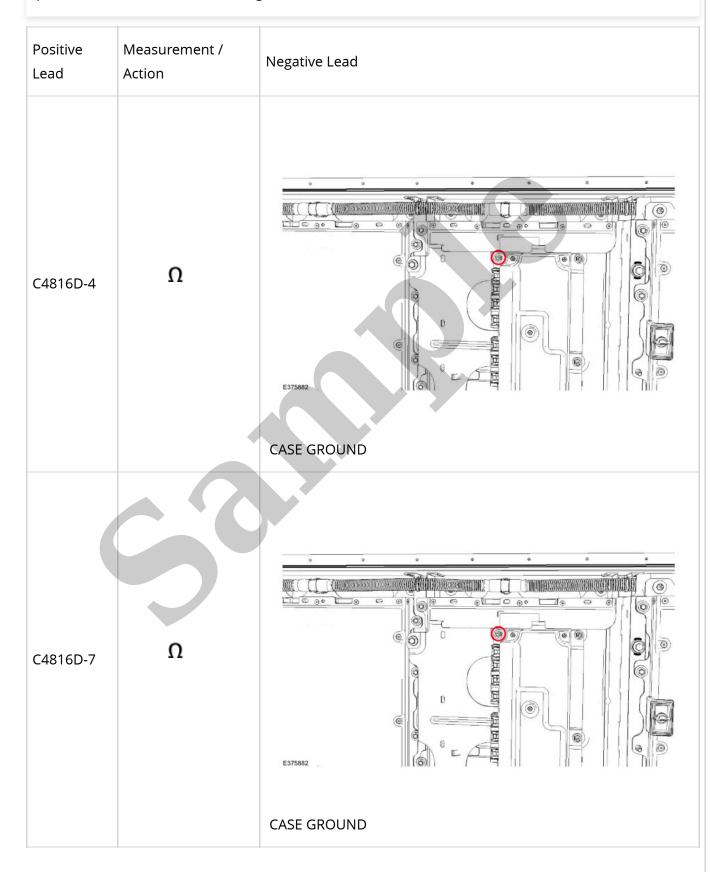
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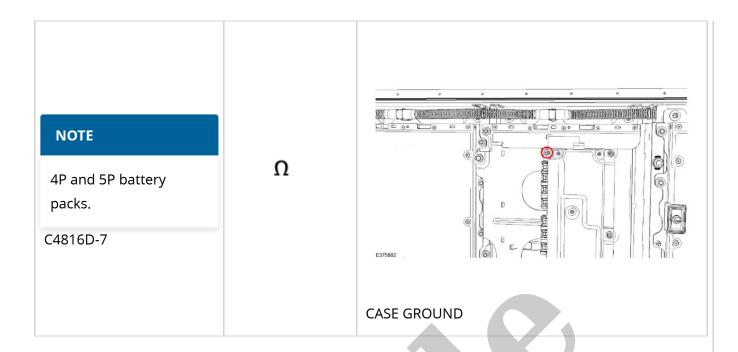
FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

1996 FORD Mondeo Hatchback OEM Service and Repair Workshop Manual

Go to manual page

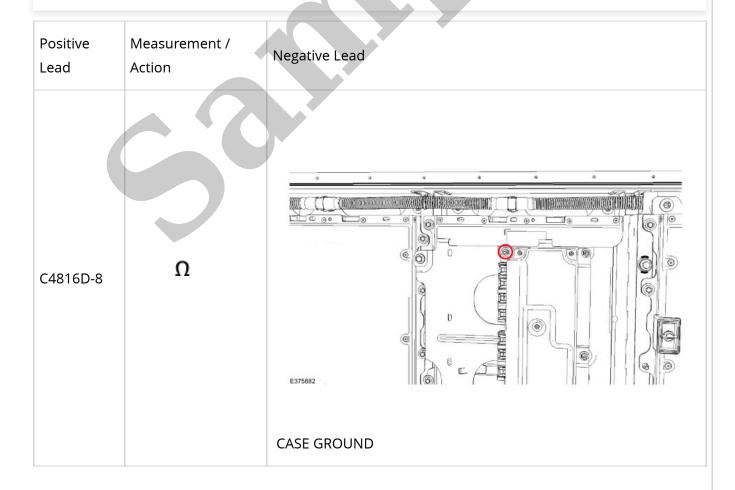
NOTE

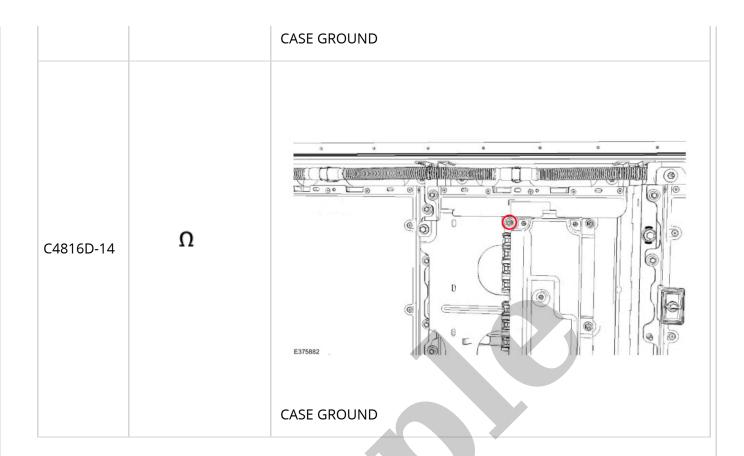




Temperature Sensor F

NOTE

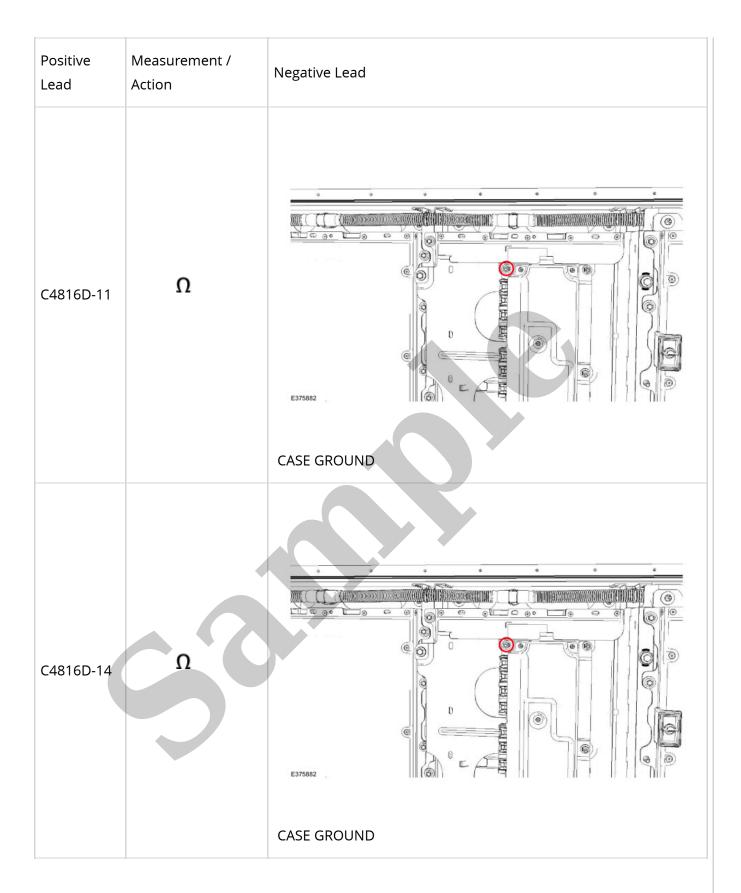




Temperature Sensor H

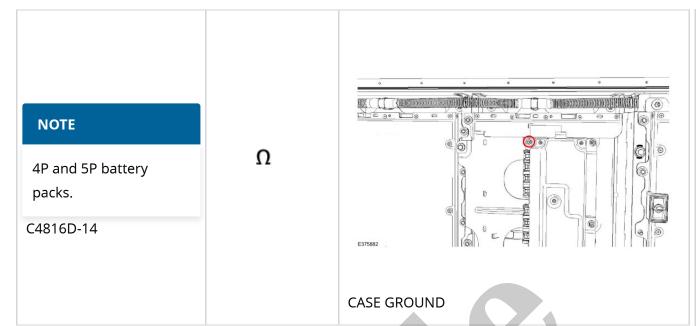
NOTE

Positive Lead	Measurement / Action Negative Lead	



Temperature Sensor J

NOTE



Are the resistances greater than 10,000 ohms?

Yes GO to N6

No

For Temperature Sensor C ONLY, GO to N5

For all others, INSTALL a new wiring harness.

REFER to: High Voltage Battery Wiring Harness - Electric

(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

Re-install the high voltage battery cover and the high voltage battery. Repower the high voltage

system. REFER to: High Voltage System De-energizing - Electric

(414-03A High Voltage Battery, Mounting and Cables, General Procedures).

Clear the BECM (battery energy control module)

DTC's. Repeat the self-test.

N5 CONFIRM THE LOCATION OF THE GROUNDED CIRCUIT

- Disconnect High Voltage battery module no. 4 inline C4804.
- Temperature Sensor C

NOTE

Clear the BECM (battery energy control module) DTC's. Repeat the self-test.

INSTALL a new wiring harness.

REFER to: High Voltage Battery Wiring Harness - Electric

(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

Re-install the high voltage battery cover and the high voltage battery. Repower the high voltage

system. REFER to: High Voltage System De-energizing - Electric

(414-03A High Voltage Battery, Mounting and Cables, General Procedures).

Clear the BECM (battery energy control module)

DTC's. Repeat the self-test.

N6 CHECK THE FAULTED THERMISTORS CIRCUITS FOR AN OPEN

NOTE

No

Only test the faulted temperature sensors.

NOTE

The measurement tables below that display C47XX connector numbers function the same for both the C47XX (5P) and C48XX (4P) battery pack connector numbers. The last 2 digits of the connector numbers represents the module number identification in reference to its location in the battery pack.

• Measure:

Temperature Sensor A

Positive Lead	Measurement / Action	Negative Lead
C4816D-1	Ω	C4709-20
C4816D-7	Ω	C4709-21

Temperature Sensor B

4P base battery pack only.		
NOTE 5P base battery pack only. C4816D-6	Ω	C4706-7
C4816D-7	Ω	C4706-8

Temperature Sensor F

Positive Lead	Measurement / Action	Negative Lead
C4816D-8	Ω	C4708-7
C4816D-14	Ω	C4708-8

Temperature Sensor G

Positive Lead	Measurement / Action	Negative Lead
C4816D-9	Ω	C4805-20
C4816D-14	Ω	C4805-21

Temperature Sensor H

C4816D-14	Ω	C4709-8

Are the resistances less than 3 ohms?

Yes	GO to	N8

No

For a fault with temperaure sensor C ONLY, GO to N7

For all others, INSTALL a new wiring harness.

REFER to: High Voltage Battery Wiring Harness - Electric

(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

Re-install the high voltage battery cover and the high voltage battery. Repower the high voltage

system. REFER to: High Voltage System De-energizing - Electric

(414-03A High Voltage Battery, Mounting and Cables, General Procedures).

Clear the BECM (battery energy control module)

DTC's. Repeat the self-test.

N7 CONFIRM THE LOCATION OF THE OPEN CIRCUIT

- Disconnect High Voltage battery module 4 inline C4904.
- Temperature Sensor C

NOTE

Only test the faulted temperature sensors.

Positive Lead	Measurement / Action	Negative Lead
C4816D-3	Ω	C4904-3 (male side)
C4816D-7	Ω	C4904-14 (male side)

Are the resistances less than 3 ohms?

- CONNECT the Midtronics XMB-9640 to one of the suspect modules.
- Turn on the Midtronics XMB-9640 and select module diagnostics the follow the on screen instructions to connect and monitor the cell voltage values for the suspect module.

Is the temperature value within 10°F (6°C) of the ambient temperature?

INSTALL a new wiring harness.

Yes

REFER to: High Voltage Battery Wiring Harness - Electric

(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

No INSTALL a new module that contains a faulted temperature sensor.

REFER to: First Row High Voltage Battery Module - Electric, Vehicles With: Standard Range Battery

(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

REFER to: First Row High Voltage Battery Module - Electric, Vehicles With: Extended Range

Battery

(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

REFER to: Second Row High Voltage Battery Module - Electric, Vehicles With: Standard Range

Battery

(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

REFER to: Second Row High Voltage Battery Module - Electric, Vehicles With: Extended Range Battery

(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

REFER to: Third Row High Voltage Battery Module - Electric, Vehicles With: Standard Range Battery

(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

REFER to: Third Row High Voltage Battery Module - Electric, Vehicles With: Extended Range Battery

(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

REFER to: Fourth Row High Voltage Battery Module - Electric, Vehicles With: Standard Range Battery

(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

REFER to: Fourth Row High Voltage Battery Module - Electric, Vehicles With: Extended Range Battery

(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

REFER to: Fourth Row Upper High Voltage Battery Module - Electric, Vehicles With: Standard Range Battery

(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

REFER to: Fourth Row Upper High Voltage Battery Module - Electric, Vehicles With: Extended Range Battery

(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

REFER to: Fifth Row High Voltage Battery Module - Electric, Vehicles With: Standard Range

Battery