

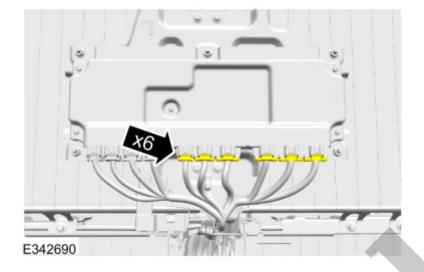
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2009 FORD Mondeo Hatchback OEM Service and Repair Workshop Manual

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• Inspect the BECM (battery energy control module) module sense circuit connectors and make sure they are fully seated.



- DISCONNECT all BECM (battery energy control module) connectors in sequence.

 REFER to: Battery Energy Control Module (BECM) Electric (414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).
- Inspect the module sense circuit connectors and the BECM (battery energy control module) pins for:
- For:
 - corrosion
 - damaged or bent pins
 - pushed-out pins

Are any concerns present?

If the connectors were NOT fully seated reseat the connector(s). GO to AD4

If wiring harness module sense circuit connector or pin concerns are present install new high voltage battery wiring harness and/or BECM (battery energy control module).

Yes

REFER to: High Voltage Battery Wiring Harness - Electric

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

REFER to: Battery Energy Control Module (BECM) - Electric

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

No GO to AD4

AD4 INSPECT THE HIGH VOLTAGE BATTERY MODULES

No INSTALL a new module.

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

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

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

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

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

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

4P Battery Packs

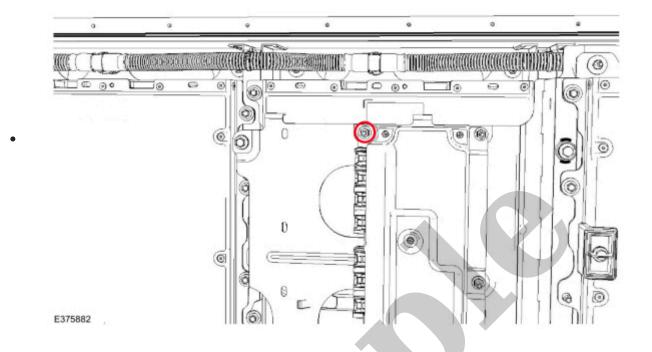
- Cell 0 (cell 1 negative) C4816J-17
- Cell 1 C4816J-7
- Cell 2 C4816J-16
- Cell 3 C4816J-6
- Cell 4 C4816J-15
- Cell 5 C4816J-5
- Cell 6 C4816J-14
- Cell 7 C4816J-4
- Cell 8 C4816J-13
- Cell 9 C4816J-3
- Cell 10 C4816J-12
- Cell 11 C4816J-2
- Cell 12 C4816J-11
- Cell 13 C4816J-1
- Cell 14 C4816I-20
- Cell 15 C4816I-10
- Cell 16 C4816I-19
- Cell 17 C4816I-9
- Cell 18 C4816I-18
- Cell 19 C4816I-8
- Cell 20 C4816I-17
- Cell 21 C4816I-7
- Cell 22 C4816I-16
- Cell 23 C4816I-6
- Cell 24 C4816I-15
- Cell 25 C4816I-5
- Cell 26 C4816I-14
- Cell 27 C4816I-4
- Cell 28 C4816I-13
- Cell 29 C4816I-3
- Cell 30 C4816I-12
- Cell 31 C4816I-2
- Cell 32 C4816I-11

- Cell 62 C4816G-14
- Cell 63 C4816G-4
- Cell 64 C4816G-13
- Cell 65 C4816G-3
- Cell 66 C4816G-12
- Cell 67 C4816G-2
- Cell 68 C4816G-11
- Cell 69 C4816G-1
- Cell 70 C4816F-16
- Cell 71 C4816F-8
- Cell 72 C4816F-15
- Cell 73 C4816F-7
- Cell 74 C4816F-14
- Cell 75 C4816F-6
- Cell 76 C4816F-13
- Cell 77 C4816F-5
- Cell 78 C4816F-12
- Cell 79 C4816F-4
- Cell 80 C4816F-11
- Cell 81 C4816F-3
- Cell 82 C4816F-10
- Cell 83 C4816F-2
- Cell 84 C4816F-9
- Cell 85 C4816F-1
- Cell 86 C4816E-12
- Cell 87 C4816E-6
- Cell 88 C4816E-11
- Cell 89 C4816E-5
- Cell 90 C4816E-10
- Cell 90 C4816E-4
- Cell 90 C4816E-9

5P Battery Packs

- Cell 0 (cell 1 negative) C4816J-17
- Cell 1 C4816J-7

- Cell 35 C4816H-10
- Cell 36 C4816H-19
- Cell 37 C4816H-9
- Cell 38 C4816H-18
- Cell 39 C4816H-8
- Cell 40 C4816H-17
- Cell 41 C4816H-7
- Cell 42 C4816H-16
- Cell 43 C4816H-6
- Cell 44 C4816H-15
- Cell 45 C4816H-5
- Cell 46 C4816H-14
- Cell 47 C4816H-4
- Cell 48 C4816H-13
- Cell 49 C4816H-3
- Cell 50 C4816H-12
- Cell 51 C4816H-2
- Cell 52 C4816H-11
- Cell 53 C4816H-1
- Cell 54 C4816G-20
- Cell 55 C4816G-10
- Cell 56 C4816G-19
- Cell 57 C4816G-9
- Cell 58 C4816G-18
- Cell 59 C4816G-8
- Cell 60 C4816G-17
- Cell 61 C4816G-7
- Cell 62 C4816G-16
- Cell 63 C4816G-6
- Cell 64 C4816G-15
- Cell 65 C4816G-5
- Cell 66 C4816G-14
- Cell 67 C4816G-4



Are the resistances greater than 10,000 ohms?

Yes GO to AD7

INSTALL a new wiring harness.

REFER to: High Voltage Battery Wiring Harness - Electric

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

No

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.

AD7 CHECK THE FAULTED CELL SENSE CIRCUITS FOR AN OPEN

NOTE

Use the correct measurement table for the 4P or 5P battery pack.

Cell 8 C4816J-13	Ω	C4801-10
Cell 9 C4816J-3	Ω	C4801-16
Cell 10 C4816J-12	Ω	C4801-11
Cell 11 C4816J-2	Ω	C4802-4
Cell 12 C4816J-11	Ω	C4802-2
Cell 13 C4816J-1	Ω	C4802-13
Cell 14 C4816I-20	Ω	C4802-1
Cell 15 C4816I-10	Ω	C4802-14
Cell 16 C4816I-19	Ω	C4802-9
Cell 17 C4816I-9	Ω	C4802-15
Cell 18 C4816I-18	Ω	C4802-10

Cell 30 C4816I-12	Ω	C4803-11
Cell 31 C4816I-2	Ω	C4804-4
Cell 32 C4816I-11	Ω	C4804-2
Cell 33 C4816I-1	Ω	C4804-13
Cell 34 C4816H-20	Ω	C4804-1
Cell 35 C4816H-10	Ω	C4804-14
Cell 36 C4816H-19	Ω	C4804-9
Cell 37 C4816H-9	Ω	C4804-15
Cell 38 C4816H-18	Ω	C4804-10
Cell 39 C4816H-8	Ω	C4804-16
Cell 40 C4816H-17	Ω	C4804-11

Cell 50 C4816H-11	Ω	C4805-11
Cell 51 C4816H-1	Ω	C4806-4
Cell 52 C4816G-20	Ω	C4806-2
Cell 53 C4816G-10	Ω	C4806-13
Cell 54 C4816G-19	Ω	C4806-1
Cell 55 C4816G-9	Ω	C4806-14
Cell 56 C4816G-17	Ω	C4806-9
Cell 56 C4816G-8	Ω	C4806-9
Cell 56 C4816G-18	Ω	C4806-9
Cell 57 C4816G-7	Ω	C4806-15
Cell 58 C4816G-16	Ω	C4806-10