service bulletin

TO: SERVICE MANAGER ☐ TECHNICIANS ☐
PARTS MANAGER ☐

No. 97-21

Required ECM Replacement

Models

1998 MCM 350 Mag MPI Sterndrive Engines: S/N 0L010019-0L012709

1998 MCM 7.4L MPI Sterndrive Engines: S/N 0L010003-0L014306

1998 MIE 350 Mag MPI Inboard Engines: S/N 0L002008-0L002348

1998 MIE 7.4L MPI Inboard Engines: S/N 0L002006-0L002826

Situation

The ECM on the affected engines above must be replaced. The reason for the replacement is shown under ‘a’ or ‘b’.

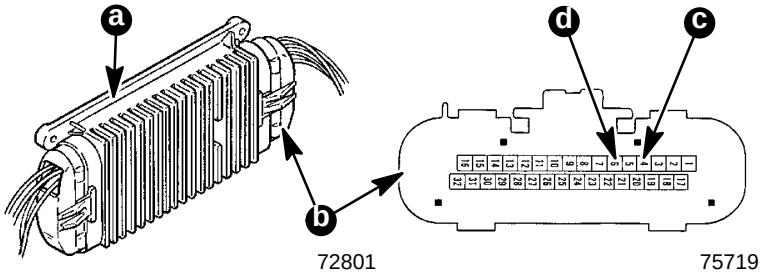
a. ECMs with check sum number ‘9383’ for 350 MPI or ‘A024’ for 7.4L MPI will not sound the alarm if the engine oil pressure is too low.

b. ECMs with check sum number ‘93C8’ for 350 MPI or ‘A069’ for 7.4L MPI will sound the alarm if the oil pressure is too low. The problem is that the alarm will continue to sound for 10-15 seconds after the engine is running. This will give the false impression that there is a problem when there is none.

Inspection

ECMs with check sum number ‘9371,’ ‘9375’ or ‘9361’ for 350 MPI or ‘A012’ for 7.4L MPI are good. Inspect the electrical harness J1 connector to make sure that the BRN wire is in the J1-6 pin location instead of the J1-4 location. Refer to drawing on page 4 for J1-6 location. Follow instructions outlined under ‘Changing Pin Location’ to change wire/pin location if BRN wire/pin is in the J1-4 location.

NOTE: *7.4L MPI ECMs with check sum number ‘A016’ will have the BRN wire/pin in the J1-6 pin location of the ECM’s J1 connector. All these models are good.*



72801 75719

a - Check Sum Number on White Tag.
b - J1 Harness Connector to ECM.
c - J1-4 Pin Location-Incorrect.
d - J1-6 Pin Location-Correct.

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Correction

Change any ECMs that have a check sum number listed in ‘a’ or ‘b’, preceding. Be sure the BRN wire/pin in the J1-6 location.

USA and Canada only: When an engine is registered at Mercury Marine, the serial number will be checked to see if this recall has been done. If our records do not show that the recall was done, the customer will be contacted by mail, telling them to have it done by a dealer.

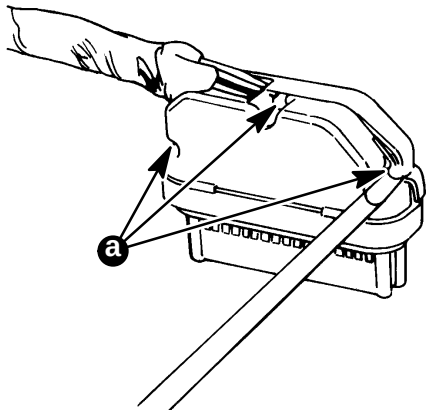
Parts Required

1998 350 MPI Engines: Order (1) 861265T 5 Engine Control Module (ECM).

1998 7.4L MPI Engines: Order (1) 861095T 4 Engine Control Module (ECM).

Changing Pin Location

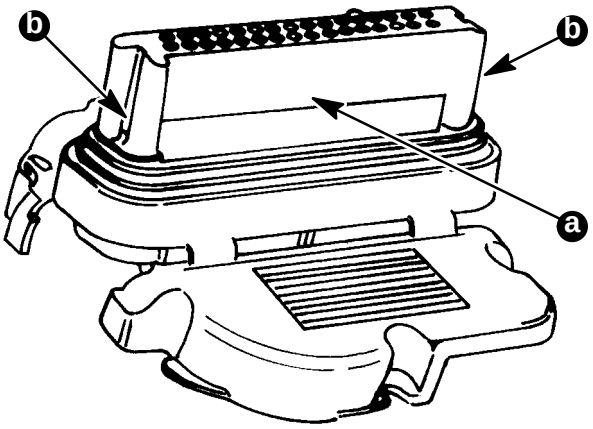
1. Remove the J1 connector from the ECM.
2. Open the connector housing by lifting the locking tabs.



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a - Housing Locking Tabs.

3. Remove the pin protector by pressing in on locking tabs on both ends of the protector.

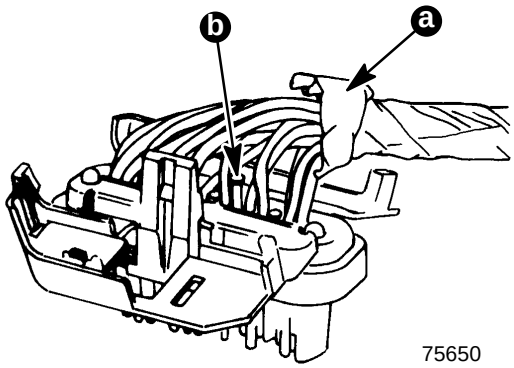


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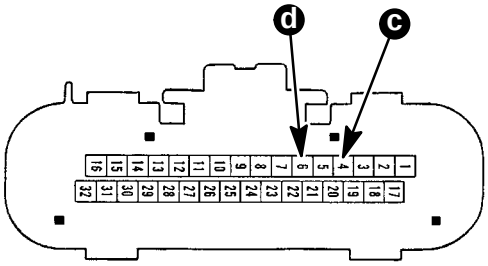
a - Pin Protector.
b - Protector Locking Tabs.

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4. Roll the electrical tape back far enough so that you can work with the wires.
5. Remove the plastic plug from the J1-6 pin location.
6. Move the harness wires so they are aligned straight with the connector holes. This will make it easier to push the BRN wire/pin up and out of its hole.



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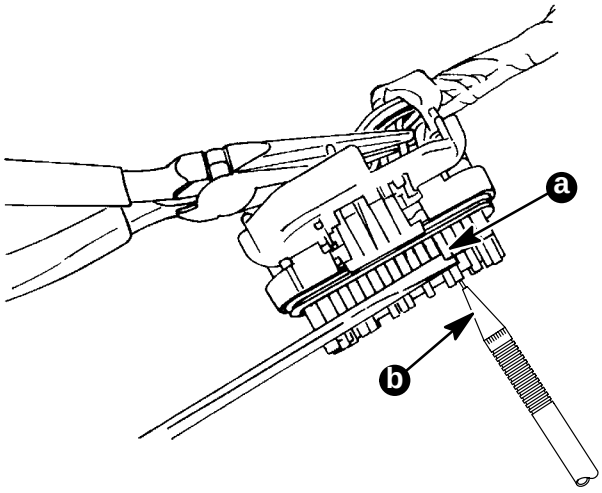
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a - Rolled Back Electrical Tape.
b - Plastic Plug in J1-6 Pin Location.
c - J1-4 Pin Location.
d - J1-6 Pin Location.

⚠ CAUTION

Avoid damage to BRN wire. If you have to use a needle nose pliers to aid in pulling the wire/pin out of the J1-4 location, be careful that you do not damage the wire's insulation.

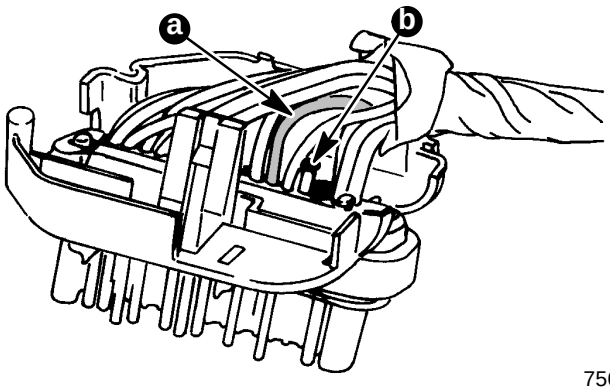
7. While lifting 'up' on the pin's locking tab, use the metal tip of a mechanical pencil to push the pin up and out of the J1-4 pin location. When first starting to push on the BRN wire/pin, lift the pin slightly toward you and push up.



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a - Pin Locking Tab.
b - Metal Tip of Mechanical Pencil.

8. Move the BRN wire/pin to the J1-6 pin location. Push down on the BRN wire/pin until it locks in place.
9. Insert the plastic plug into the J1-4 pin hole location.



75653

a - BRN Wire/Pin Inserted In J1-6 Pin Location.
b - J1-4 Pin Hole.

10. After pin relocation, slide electrical tape back over harness wires.
11. Close the connector housing. Make sure the locking tabs are locked in place.
12. Be sure that the tips of all the pins are at the same level in the J1 connector. Reinstall the pin protector, being sure the locking tabs snap in place.
13. Reconnect the J1 connector to the ECM.

Warranty

Fill out warranty claim and send it to your normal warranty processing center. More than one engine can be put on the warranty claim if you list the part number, engine model, serial number, warranty code and labor hours for each engine on separate lines on warranty claim.

Warranty Code and Labor: EXCP 1.1 Hours.

Old Part: USA and Canada: Return with warranty claim.
All Others: Retain for disposition by a Marine Power representative.

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