MERCURY MerCruiser

Service Bulletin

Bulletin No. 2013-03
OEM No. 2013-02

Circulate to: ☐ Sales Manager ☐ Accounting ☑ Service Manager ☑ Technician ☑ Parts Manager

Official Recall Notification U.S. Federal Boat Safety Act - Possible Incorrect Routing of Engine Wire Harness on 5.0L, 350 Mag, and 6.2L

Models Affected

Models Covered	Serial Number Or Year
5.0L, 350 Mag, and 6.2L Non-EC DTS sterndrive engines	2A014073–2A050912

Scope

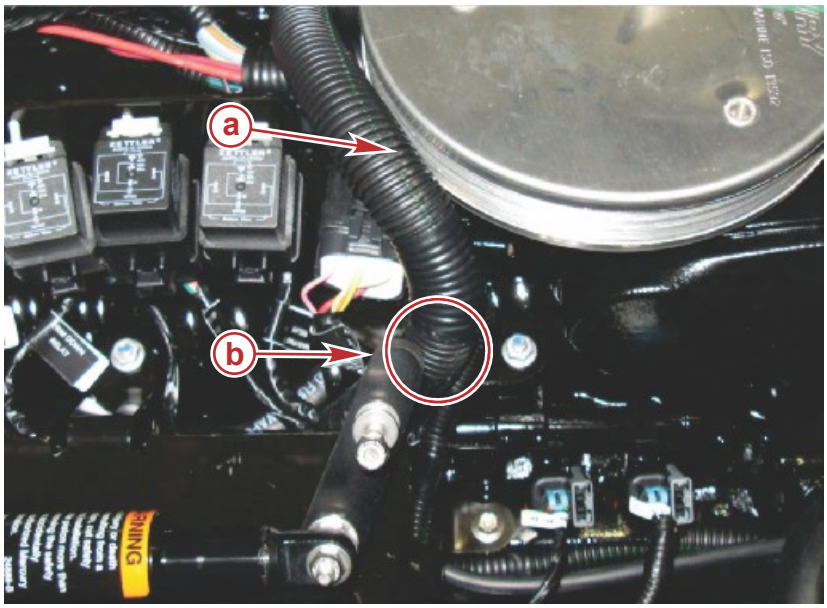
Worldwide

Situation

The main engine wire harness may be incorrectly routed too close to the DTS shift actuator. Repeated movement of the DTS shift actuator arm may cause the engine wire harness shielding to wear though, exposing the wires and causing a direct short circuit to ground, which could create an ignition source prior to the fuses interrupting the circuit.

Correction

1. Remove the plastic engine flame arrestor cover.
2. Inspect the harness for incorrect routing.



52546

Example of incorrect routing

a - Wire harness routed along the side of the flame arrestor

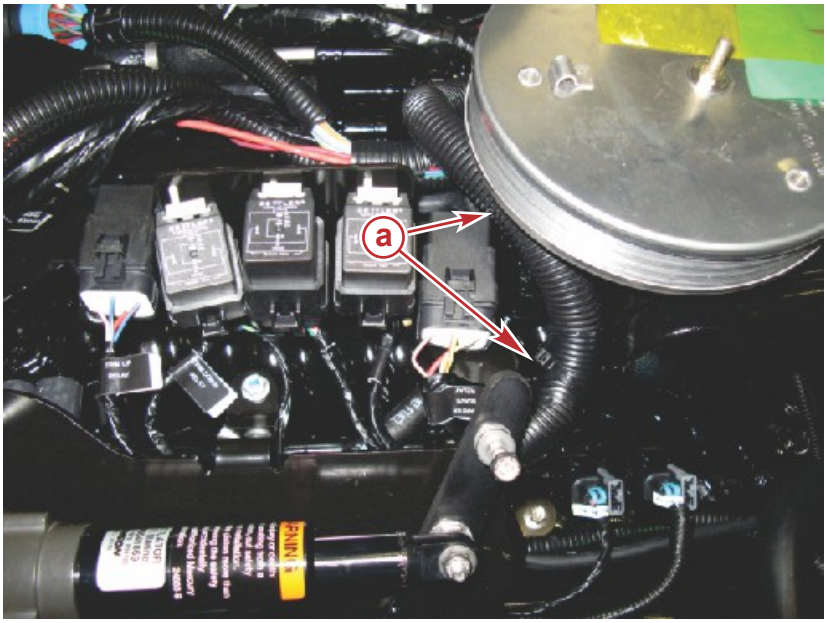
b - Wire harness not secured to electrical plate, possibly contacting the shift arm

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3. If the harness is routed correctly:

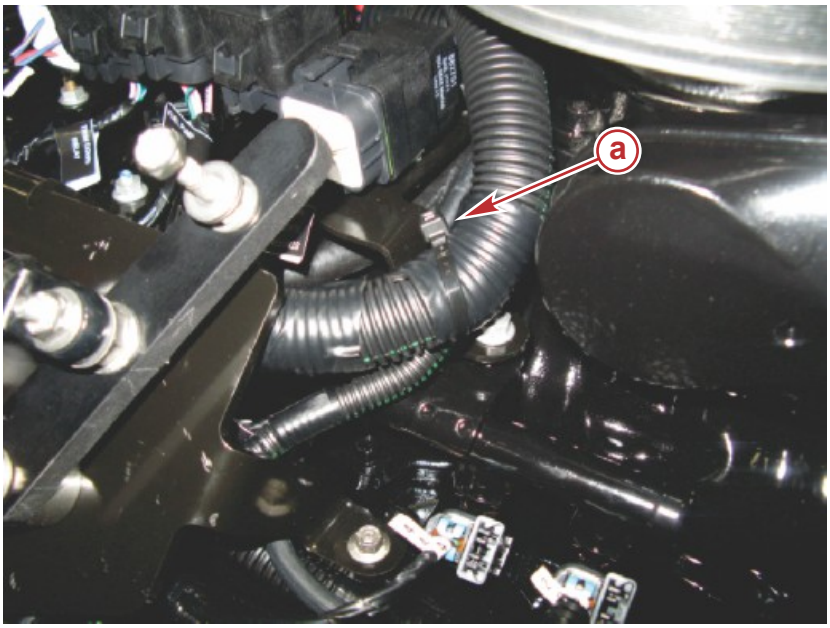


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Example of a correctly routed harness

a - Correctly routed under flame arrestor and secured to foot of electrical plate

   a. Verify that the cable tie is installed around the base of the electrical bracket, securing the harness and preventing it from contacting the shift actuator arm.



52549

Example of the cable tie installed correctly

a - Secured with cable tie to the foot of the electrical bracket

   b. If the cable tie is not installed, install the cable tie around the harness, securing it to the foot of the electrical plate.

4. If the wire harness is routed incorrectly, carefully inspect the harness for damage in the area where the shift actuator arm contacts the harness.
   a. If damage is present, proceed to step 5
   b. If no damage is present, proceed to step 7.
5. If the harness is chaffed or scuffed but the insulation appears intact:
   a. Securely tape the chaffed area with at least two layers of electrical tape.
   b. Route the wire harness to match the routing of the harness in step 7.

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6. If the wire harness was chaffed and the insulation is damaged or revealing the copper wire:

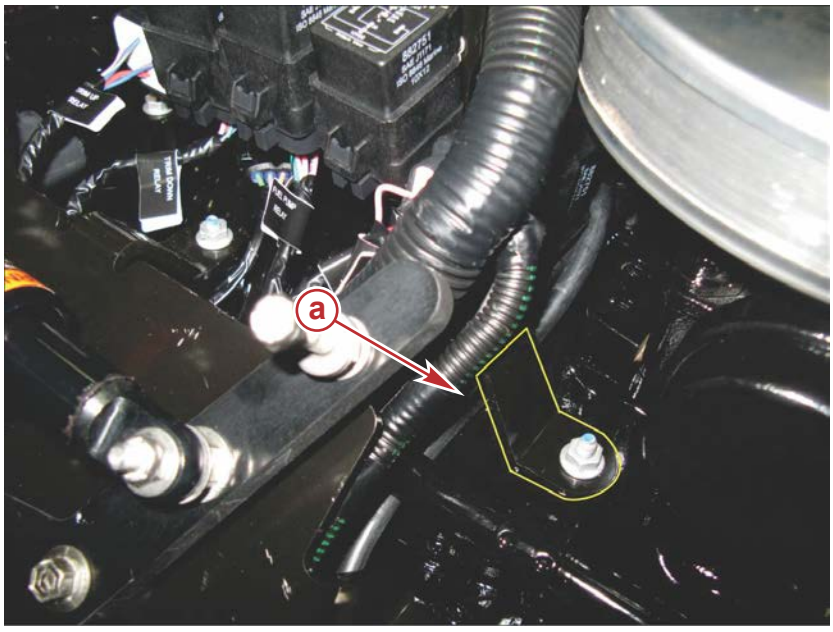


52550

Example of damaged insulation and bare wire

   a. Replace the complete wire harness. Order the part number listed in the Replacement Parts section.
   b. Route the replacement wire harness to match the routing of the harness in step 7.

7. Correct routing of the harness:
   a. Remove engine flame arrestor
   b. Secure the harness to the foot of the electrical plate bracket with a cable tie matching the second image in step 3.



52551

a - Secure harness to this bracket using a tie-wrap

   c. Route the harness under the rear edge of the flame arrestor, matching the first image in step 3.
   d. Install the flame arrestor and the plastic flame arrestor cover.

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e. When properly routed and secured, the wire harness will not contact the shift actuator arm during full extension.

Replacement Parts

Order the following parts to replace the engine wire harness.

Qty.	Description	Part Number
1	Cable tie	37-816311T
1	5.0L, 350 Mag, 6.2L DTS wire harness	84-8M0050326

Owner Notification

A letter will be sent to every registered owner of the engine packages within the affected serial number range. The letter will advise the owner to take the boat to any Mercury MerCruiser–authorized dealer for inspection and possible repair, rerouting, or replacement of the engine wiring harness.

Dealers: You should also contact affected customers to make them aware of this recall and to schedule an appointment for the repair. A copy of the customer letter is attached.

Boat builders: Please complete this correction on any affected engines within your inventory (uninstalled or already installed).

Warranty

United States and Canada: Mercury Marine will credit a dealer for the cost of parts and labor. Submit the appropriate warranty claim through your normal warranty processing channel:

- For complete harness replacement:
  - MerCruiser engine serial number
  - Flat rate code: SB22
  - Part code: 331
  - Fail code: 40
- For inspection of harness with or without relocation of wiring:
  - MerCruiser engine serial number
  - Flat rate code: SB05
  - Part code: 331
  - Fail code: 40

Outside the United States and Canada: Follow the instructions issued by your local office or distributor.

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NOTICE FOR RECALL UNDER THE U.S. FEDERAL BOAT SAFETY ACT

Dear Mercury Marine Customer,

Thank you for your purchase of a new boat powered by a Mercury MerCruiser engine. We appreciate your business and hope your engine is performing up to your expectations.

As part of our commitment to superior customer satisfaction, we have determined that it is necessary to inspect and possibly replace the main engine wiring harness to ensure the safety and reliability of your MerCruiser package. The engine wiring harness may be routed incorrectly, and if it is, it may become damaged from contact with the electric shift actuator arm. If the harness is damaged, it may short, and if it does, the short may create an ignition source in the engine compartment.

Inspection and possible replacement of the wiring harness should be scheduled and completed as soon as possible. This notification is being provided pursuant to the provisions of the United States Federal Boat Safety Act.

What should you do?
Contact your Mercury MerCruiser dealer and make arrangements for the inspection and possible repair. There will be no cost to you for the inspection or repair. If you have questions or no longer own this boat, contact Mercury MerCruiser Customer Service at +1 920-929-5040. The dealer will refer to Mercury MerCruiser Service Bulletin 2013-03 for instructions on inspecting and replacing the engine wiring harness.

Mercury Marine will reimburse the dealer for performing this recall in accordance with the instructions outlined in the service bulletin.

Mercury Marine apologizes for the inconvenience this recall may cause you. However, we have taken this action to ensure that your boating experience will be safe, enjoyable, and trouble-free.

Sincerely,

Mercury Marine Customer Service

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