

Circulate to: Sales Manager Accounting Service Manager Technician Parts Manager

Official Recall Notification US Federal Boat Safety Act—DTS Command Module Lever Fault

Models Affected

Models Covered	Command Module Version
Mercury MerCruiser with Digital Throttle and Shift (DTS)	72, 73, or 75

IMPORTANT: This recall does not apply to any Axius equipped boat.

All DTS boats with a hull identification number (HIN) of K7 to E8 in the ninth and tenth position, in conjunction with 07 or 08 in the eleventh and twelfth position, need the command module updated to version 76.

US ABC45678 A405 H2467 37412

a b
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a - Month and year of certification or manufacture

A–January	G–July
B–February	H–August
C–March	I–September
D–April	J–October
E–May	K–November
F–June	L–December

b - Model year

Because the recall is focused on remote control units and not on engines, no engine serial number range for the recall is available. Please check for participation under serial number history on MercNET.

Situation

Due to defects in the potentiometers of the electronic remote control (ERC), a single trace lever fault alarm can occur which will create an audible six second alarm tone and generate a fault pop-up on the VesselView screen or SmartCraft instrument, if so equipped. When this fault mode occurs, the Guardian strategy will limit throttle to 65% of available power and the shift position will remain in the gear location the engine was in when the fault was triggered.

The shift function will not be available when called for by the ERC when the above fault occurs and Guardian is active on command module software versions 75 and earlier. This issue has been reported on early usage, low hour applications, but may occur at other times.

The new software version 76 (P/N 891661R10) will limit throttle to 65% of available power and the shift demand will remain active allowing shifting of the engine, even when the lever fault is triggered.

The system can be reset to enable shifting by one of the following procedures:

For all DTS boat configurations:

- To clear the fault and reinstate shifting, if safe to do so, shut engine or engines off for 15 minutes and restart engine or engines as needed.

For single lever/single engine ERC or dual lever/dual engine ERC applications:

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- With the throttle/shift lever or levers in the neutral detent position, turn ignition key or keys to the off position.
- Position the ERC throttle/shift lever or levers to the full reverse–WOT position.
- Wait 15 seconds for the systems to shut down.
- Position the ERC throttle/shift levers to the neutral detent position.
- Restart engine or engines as needed.

For single engine zero effort two lever ERC or dual engine zero effort four lever ERC applications or triple engine zero effort six lever ERC or quad engine zero effort eight lever ERC applications:

- With the throttle lever or levers and shift lever or levers in the neutral detent position, turn ignition key or keys to the off position.
- Position the ERC throttle lever or levers to WOT.
- Position the ERC shift lever or levers to full reverse.
- Wait 15 seconds for the systems to shut down.
- Position the ERC throttle lever or levers to idle.
- Position the ERC shift lever or levers to the neutral detent position.
- Restart engine or engines as needed.

For triple engine dual lever ERC applications (Shadow Mode):

- With the throttle/shift levers in the neutral detent position, turn ignition key to the center engine to the off position, leaving the key switches on outer engines in the on position.
- Position both throttle/shift levers to the full reverse–WOT position.
- Wait 15 seconds for the center engine systems to shut down.
- Position the throttle/shift levers to the neutral detent position.
- Turn the outer two engines key switches to the off position.
- Position the throttle/shift levers to the full reverse–WOT position.
- Wait 15 seconds for the outer two engines systems to shut down.
- Position the throttle/shift levers to the neutral detent position.
- Restart engine or engines as needed.

For quad engine dual lever ERC applications (Shadow Mode):

- With the throttle/shift levers in the neutral detent position, turn ignition keys to the center two engines to the off position, leaving the key switches on outer two engines in the on position.
- Position both throttle/shift levers to the full reverse–WOT position.
- Wait 15 seconds for the center two engines systems to shut down.
- Position the throttle/shift levers to the neutral detent position.
- Turn the outer two engines key switches to the off position.
- Position the throttle/shift levers to the full reverse–WOT position.
- Wait 15 seconds for the outer two engines systems to shut down.
- Position the throttle/shift levers to the neutral detent position.
- Restart engine or engines as needed.

The corrective service should be performed as soon as possible because the potential loss of control could result in product damage or personal injury. If the vessel must be operated, avoid positioning the ERC at or above the throttle-and-shift positions that originally triggered the ERC fault code.

Notification and Correction

Owner Notification

A letter will be sent to every registered owner of an affected DTS boat. The letter will advise the owner to return their DTS boat to their selling dealer or any Mercury Marine authorized dealer for replacement of the command module. Mercury Marine dealers should also contact their customers to make them aware of this recall and to schedule an appointment for this repair. A copy of the customer letter is attached.

Dealer/OEM Inventory

The following items should be completed prior to installation of the ERC kit or prior to final delivery of the DTS equipped vessel to the customer to ensure proper customer satisfaction.

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- ERC kits with date codes of November 1, 2007 to May 14, 2008 in dealer stock should be returned to Mercury Marine accompanied by a Mercury Marine warranty claim.
- Command modules in dealer stock:
 - 891661T06 version 72
 - 891661T07 version 73
 - 891661T08 version 75

The above part numbers are to be replaced with part number 891661R10 version 76 command module from Mercury Marine Parts.

- For boats in the affected HIN range in dealer stock without the new version 76 software, a new command module will have to be installed. This will require the adaptation of the ERC levers using the Mercury computer diagnostic system (CDS).
- Not all of the boats recalled in the HIN range will be affected. Inspection of all boats in this recall HIN range is necessary to determine the command module version.
- For DTS boats in the affected HIN range that have been sold by the dealer, the dealer should contact Mercury MerCruiser Technical Service at 405-743-6555 for DTS boats with HIN and engine serial number information. Canadian dealers should contact their nearest Distribution Center in Canada.
- The selling dealer should also contact their customers to make them aware of this recall and to schedule an appointment for this repair. Mercury Marine will also send the DTS boat owner notification of the issue and the need for correction.

Part Interchangeability

- The new command module part number for this recall is 891661R10 and will have version 76 software.
- For all command modules with the orange designation; V.72, V.73, V.75 Mercury Marine will supersede to the new version 76 software (P/N 891661T10) for Gen I and Gen II engines.

Inventory and Repair ID

- ERC kits with date codes of November 1, 2007 to May 14, 2008, with the exception of ERC kits within that range that have been reworked, should be returned to Mercury Marine accompanied by a Mercury Marine warranty claim. See below for identifying reworked kits.

Command Module Boxes within Master Kits



37407

- a - Label is placed directly over the top of existing version label here
- b - Green dot

Kits with version 75 command modules will show "V.75" on the label.

Kits with the command modules will have a sticker over the top of the old V.75 label saying "Kit Contains Command Module Ver 76."

A green dot will be placed next to the box part number label.

NOTE: The command modules within the boxes should each have the new version 76 label.

Master Kits Labeling



37408

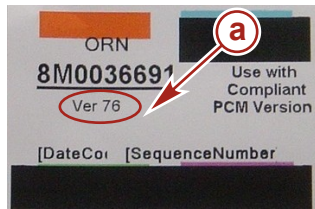
A label saying "Kit Contains Command Module Ver 76" will be placed just below the master box part number label, as shown.

A green dot will be on the master kit part number label in the position shown.

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Command Modules



a - Label is identified with new part number and software Ver 76

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The command modules within the boxes that are identified with the label on the outside of the box, should each have the new version 76 label.

Parts Required

- Mercury Marine is asking the complete kits to be returned via Mercury Marine Warranty for units not installed in boats. The replacement kit requirement is dependent on the dealer requirement.
- If only command module replacement is needed (not kits), order one (1) of P/N 891661R10 per engine.
- Please reference the 2008 Mercury Marine Accessories Guide – SmartCraft tab or for kit replacement part numbers.

Warranty

Mercury Marine will credit the dealer for the cost of the parts and labor.

Complete the warranty claim listing:

- MerCruiser engine serial number or check P&A claim box if the parts or kits are from inventory. There must be one claim per engine serial number. Include the boat HIN with the claim.
- Qty. ___ P/N 891661R10 command module as required or kit part number.
- 0.5 hours labor for visual inspection of the command module label for correct software version or for inspection using the Mercury CDS. List flat rate labor code SB05.
- 1.1 hours labor for inspection, command module replacement, and lever adaptation for single helm, single engine boats. List flat rate labor codes SB10 and SB01.
- 1.5 hours labor for inspection, command module replacement, and lever adaptation for dual helm, single engine boats. List flat rate labor codes SB10 and SB05.
- 1.3 hours labor for inspection, command module replacement, and lever adaptation for dual engine boats. List flat rate labor codes SB10 and SB03.
- 1.7 hours labor for inspection, command module replacement, and lever adaptation for dual station, dual engine boats. List flat rate labor codes SB10 and SB07.
- 1.5 hours labor for inspection, command module replacement, and lever adaptation for triple engine boats. List flat rate labor codes SB10 and SB05.
- 1.9 hours labor for inspection, command module replacement, and lever adaptation for dual station, triple engine boats. List flat rate labor codes SB10 and SB09.
- 1.7 hours labor for inspection, command module replacement, and lever adaptation for quad engine boats. List flat rate labor codes SB10 and SB07.
- 2.1 hours labor for inspection, command module replacement, and lever adaptation for dual station, quad engine boats. List flat rate labor codes SB20 and SB01.
- Part Code: 946
- Failure Code: 00

US

Complete and process the claim via MercNET or return a warranty claim form. Mail to:

Mercury MerCruiser Warranty Receiving
3003 N Perkins Rd.
Stillwater, OK 74075
+1 (405) 743 6555
Fax +1 (405) 743 6548

Canada

Complete and process the claim via MercNET.

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International

Follow instructions issued by Marine Power International Office or by an authorized Marine Power Distributor.

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