

# Service Bulletin

Bulletin No. 2009-08 OEM No. 2009-07

Circulate to:	Colos Managar	☐ Accounting	Sorvice Manager	Technician	Parts Manager
Circulate to:	☐ Sales Manager	☐ Accounting	Service Manager	Technician	Parts Manager

# Wire Chafing 2.5 Liter OptiMax

## **Models Affected**

Models Covered	Serial Number		
135/150/175 OptiMax	1B722240–1B747511		
175 Pro XS OptiMax	1B714266–1B715213		

## Situation

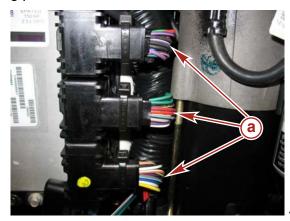
The 2.5 Liter OptiMax engines in the above serial number range may have an incorrectly routed wire harness. This could result in unprotected wires rubbing against the starter motor, causing the wires to chafe/fray and, subsequently, short out. A short can result in potential loss of various engine functions, depending on which wire is shorted.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

## Inspection

Some engines in the listed serial number range have had the harness routing corrected prior to shipping. First, check engine history on MercNET or contact Mercury Outboard Technical Service at 920-929-5884. If the engine history indicates the harness routing has been corrected and the fix campaign closed, no further action is required. Engines reworked at the factory will have a GREEN dot on the engine carton near the serial number label. If the engine is no longer in the engine carton, remove the top cowl and look for a GREEN paint dot on the propulsion control module (PCM). If a GREEN dot is found on the engine carton, or on the PCM, no further action is required. If the engine history indicates an open campaign and there is no GREEN dot on the engine carton or PCM, check for 6.35 mm (1/4 in.) of clearance between the PCM wire bundles and the starter motor. If there is insufficient clearance between the wires and the starter, reposition the wires using the following procedure.



a - PCM wire bundles - center bundle contacting starter motor

## Correction

1. Remove the three PCM harness connectors from the PCM and remove the harness from the J-clip above the PCM.



a - J-clip above PCM

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

Page 2 / 4 © 2009 Mercury Marine APRIL 2009 2009-08

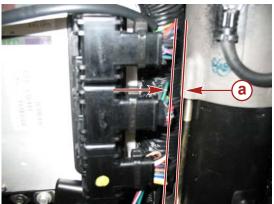
2. Twist the harness to the left so that the PCM wire bundles are pulled away from the starter and faces toward the PCM connectors. Position the harness back between the PCM and starter, as shown. This is a critical part of the routing procedure.



41015

3. Position the harness back into the J-clip and roll the J-clip down around the harness to hold it securely and still allow for cowl clearance.

**NOTE:** Using a 6.35 mm (1/4 in.) thick plastic or wood spacer to check for clearance of the wire bundles may be helpful. When the spacer is inserted between the wires and the starter, the spacer should not push on the wires to fit the opening.



41017

a - 6.35 mm (1/4 in.) clearance between wire bundles and starter

# **Repair Identification**

Place a GREEN paint dot on the PCM near the harness connectors.

# Dealer/OEM Inventory

Dealer/OEM inventory of affected engines should be inspected and/or corrected prior to customer delivery.

## **Owner Notification**

All registered owners within the affected serial number range will receive a letter from Mercury Marine. This letter will explain the situation and request that they contact their local dealer to set up a time to have the wire harness routing inspected and/or corrected.

# Warranty

Mercury Marine will credit the dealer for the cost of labor. Complete a warranty claim listing:

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

- Outboard engine serial number
- · Labor: 0.2 hour for inspection only
- Warranty flat rate code: SB02 for inspection of harness

or

- Outboard engine serial number
- · Labor: 0.5 hour for inspection and correction of harness routing
- Warranty flat rate code: SB05 for inspection and correction of harness routing
- Part code: 331Failure code: 00

#### **US AND CANADA**

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

#### INTERNATIONAL

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

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

Page 4 / 4 © 2009 Mercury Marine APRIL 2009 2009-08

#### Dear Mercury Outboard Owner

Thank you for your purchase of a Mercury 2.5 Liter OptiMax Outboard engine. Mercury Marine is dedicated to providing superior product reliability and customer satisfaction. As part of our commitment to superior customer satisfaction, we have determined that it is necessary to have your engine wire harness routing inspected to ensure the reliability of your Mercury Outboard.

## What is the condition?

Mercury Marine has identified a potential for unprotected wires rubbing against the starter motor. This could result in potential loss of various engine functions depending on which wire is shorted.

#### What will Mercury Marine do?

Mercury Marine (through an authorized dealer) will inspect, and if necessary, correct the wire harness routing at no charge.

## What should you do?

Please contact your authorized Mercury Outboard dealer and mention Service Bulletin 2009-08 to schedule an appointment to have your engine wire harness inspected and corrected (if necessary). To locate your nearest authorized Mercury Outboard dealer, please use the Dealer Locator in the Mercury Marine Website:

http://northamerica.mercurymarine.com/ If you do not have access to the Internet, please call Mercury Outboard Customer Service at 1-920-929-5040 to locate your nearest authorized Mercury Outboard dealer.

Please present this notice to your dealer when you bring your boat/engine in for your service appointment.

## What if you have other questions or if you no longer own this engine?

Please contact your Mercury Outboard dealer or call Mercury Outboard Customer Service at 1-920-929-5040 between 7:30 a.m. and 5:30 p.m., CST.

We have sent this notice in the interest of your continued satisfaction with our product, and we sincerely regret any inconvenience this may cause you.

Thank you for boating with Mercury Marine

Mercury Marine Service