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Propulsion Control Module (PCM) Recalibration – 135/150/175 Verado and 200/225/250/275 Verado

NOTICE

The procedures outlined in this service bulletin are to be completed by Verado Qualified Mercury Outboard dealers equipped with a CDS Recalibration Kit and a Computer Diagnostic System (CDS).

Models Affected

Models Covered	Serial Number
135/150/175 Verado	USA 1B460633 and Below
200/225/250/275 Verado	USA 1B460633 and Below
135/150 Verado	Belgium 0P481104 and Below
200/225/250/275 Verado	Belgium 0P481104 and Below

Situation

Mercury Marine has identified a potential problem within the calibration of the Propulsion Control Module (PCM), which impacts the control system on the Verado outboards listed at the beginning of this bulletin. The possibility exists for the calibration to become unstable, which can cause the diagnostic system to falsely activate the Guardian program and inaccurately store faults. This results in the engine operating at reduced power and the sounding of the warning horn. The fault that is typically stored is Fault 237 (Excessive Knock); however, other faults may also be stored. Mercury Marine has revised this portion of the PCM calibration to prevent any possibility of this happening in the future. All affected product will require a new calibration to be programmed into the PCM.

Mercury Marine is also taking this opportunity to respond to the voice of our valued customers. Since the introduction of the Verado product, Mercury Marine has received concerns regarding the warning horn system. These concerns have centered on the complexity of the warning horn system, as well as the frequency of non-critical nuisance horns. As part of the PCM calibration upgrade program, the Verado warning horn system has also been updated to address these concerns. Please refer to the attached warning horn instructions. These instructions supersede and replace the table published in the customer's Outboard Operation, Maintenance, & Warranty manual. These revised warning horn instructions will also be supplied to customers along with their customer notification letter.

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Correction

Verado Qualified dealerships will need to recalibrate the PCMs on affected Verado engines. Verado engines located at dealerships other than those that are Verado Qualified will need to be directed to the nearest Verado Qualified dealership.

Verado Qualified dealerships will use the CDS Recalibration Kit, in conjunction with the Computer Diagnostic System (CDS), to upgrade the PCM calibration files on the affected Verado engines listed at the beginning of this bulletin. To use the contents of the kit, follow the instruction provided within the kit.

Tools Required

All Verado Qualified dealerships will receive a CDS Recalibration Kit from Mercury Marine shortly after they receive this bulletin. This will enable their existing CDS to complete this PCM recalibration. The software's recalibration capability was distributed via DVD with the Version 7 update, released in early June 2006. Once the Version 7 update has been completed, a WebSync will be required to unlock the recalibration feature in the software. This kit, along with unlocked software, will allow a technician to update each engine's PCM calibration to complete this and any future calibration updates that may be needed. This kit is currently available to Verado Qualified dealers **only**.

IMPORTANT: Retain the CDS Recalibration Kit components in a secure location for any future calibration updates that may be required.

CDS RECALIBRATION KIT COMPONENTS

Qty.	Description	Part Number
1	USB security token ¹ .	NA
1	Reflash cable (connects to SmartComms)	84-822560A15
1	PCM adapter cable (connects to PCM)	84-884358T01
1	Set of Avery 8160 white labels	Avery 8160
1	Set of Avery 8662 clear labels (covers the white label)	Avery 8662
1	Instruction sheet	90-899959

Dealer Outboard Inventory

All affected outboards in dealer inventory should have their PCMs recalibrated prior to customer delivery. Outboards brought in for other service work may also be inspected and/or corrected as required.

Owner Notification

All registered owners within the affected serial number range will receive a letter from Mercury Marine. The letter will explain the situation and request that they contact their nearest Verado Qualified dealer to set up an appointment to have their Verado outboard's PCM calibration upgraded. The service to upgrade the PCM calibration will be performed at no cost to the customer. A revised warning horn instruction insert will be printed and supplied to customers along with their notification letter. The customer will be advised to place this insert at the warning horn table page of their Operation Manual.

1. The USB security token is pre-programmed with your dealer number and will only work with the CDS unit registered with the same dealer number.

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Warranty

SPECIAL INSTRUCTIONS

Model	Serial Number	Instructions
200/225/250/275	USA 0T980000 through 1B206109	Call Mercury Technical Service at (920) 929-5884 for a Pre-Authorization prior to performing procedures.
200/225/250/275	USA 1B206110 through 1B460633	Submit a Warranty Claim as directed below. Consult MercNET product history for completion of Outboard Service Bulletin: 2006-05. Visually inspect outboard for completion of Outboard Service Bulletins: 2006-06, and 2006-23
135/150/175	USA 1B460633 and Below	Submit a Warranty Claim as directed below.
200/225/250/275	Belgium 0P481104 and Below	Submit a Warranty Claim as directed below.
135/150	Belgium 0P481104 and Below	Submit a Warranty Claim as directed below.

IMPORTANT: All units of a multiple outboard boat should be listed on the same warranty claim. Enter the serial number of the first outboard in the Serial No: field of the claim. List the remaining outboard serial numbers of the boat at the beginning of the Description of Failure: field of the claim.

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

Complete a warranty claim listing:

- Outboard(s) serial number

Single Outboard Package

- 0.6 hour labor
- Warranty Flat Rate Code: SB06
- Part Code: 731
- Failure Code: 00

-or-

Dual Outboard Package

- 0.9 hour labor
- Warranty Flat Rate Code: SB09
- Part Code: 731
- Failure Code: 00

-or-

Triple Outboard Package

- 1.2 hour labor
- Warranty Flat Rate Code: SB10 and SB02
- Part Code: 731
- Failure Code: 00

-or-

Quad Outboard Package

- 1.5 hour labor
- Warranty Flat Rate Code: SB10 and SB05

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- Part Code: 731
- Failure Code: 00

US AND CANADA

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

INTERNATIONAL

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

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