

Service Bulletin

					Bulletin No. 2011-17
Circulate to:	Sales Manager	Accounting	Service Manager	Technician	Parts Manager

Propulsion Control Module (PCM) Recalibration For Float Switch Vibration - 135–350 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 Or Year		
135/150/175/200 Verado 4 Cylinder	1B812286 and below		
200/225/250/300 Verado 6 Cylinder	1B812284 and below		
350 SCi	1B828489 and below		

Situation

Mercury Marine has developed a new calibration in the propulsion control module (PCM) for engines experiencing float switch vibration problems. This new calibration changes the refill frequency of the fuel supply module (FSM) of the above listed models. The previous calibration refilled the FSM after the engine consumed 150 grams of fuel. When that volume of fuel is consumed, the fuel float switch can momentarily be suspended in the air and, due to certain conditions described below, may vibrate up the float switch stem and provide an inaccurate float switch "high" reading. When this occurs, the FSM will not refill and the engine will momentarily run out of fuel. The new calibration refills the FSM after the engine consumes 60 grams of fuel. This change ensures that the float switch always remains in contact with fuel.

Under conditions that create higher levels of vibration, the engine may experience a loss of performance at or above 3000 RPM. The customer may report that the engine appears to be running out of fuel, stalling, or low on power. If the engine is being monitored when the situation is happening, the float switch will read "high," but the observed fuel pressure on a mechanical gauge will be lower than the calculated fuel pressure displayed on the CDS.

Some vessel situations that can cause a false float reading are as follows:

- Propeller imbalance
- · Harmonics between the outboard and the boat
- Operation in rough or choppy bodies of water

NOTE: Correct any propeller imbalance if found, perform this recalibration before replacing the FSM float switch.

Correction

The revised PCM calibration will refill the FSM when the engine has consumed 60 grams of fuel. This revised refill rate will keep the FSM float switch in contact with fuel, isolating it from vibration.

Qualified dealerships will need to perform this recalibration on affected engines. The recalibration will be done by using the CDS recalibration kit and CDS version 9.05 or above (8M0063115).

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The revised ECM calibration sticker will indicate that the PCM is calibrated with the 60 gram refill rate. Below is an example of how the sticker will look after it is printed. Engines that are below the serial numbers listed previously should be inspected for this calibration sticker if the engine is exhibiting the previously mentioned issue.

225 Verado DTS - EPA 2.6 Liter - 60g FSM 8M0048302-R

47004

Dealer Outboard Inventory

Outboards in dealer stock do not need to be reworked prior to sale. Only outboards with the previously mentioned issue require recalibration.

Warranty

Special Instructions

If the engine being recalibrated is covered under regular warranty or Mercury Product Protection (MPP), complete a claim on MercNET and file it with the appropriate warranty flat rate codes listed below. If the engine is not covered under regular warranty or an extended service contract (MPP), please contact Mercury Technical Service at 920-929-5884.

NOTE: If one engine on a multiple engine boat is exhibiting the previously mentioned issue, upgrade the PCM calibration of all outboards on the boat.

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 labor. Complete a warranty claim listing:

· Outboard serial number

Single Outboard Package

Labor: 0.6 hour

Warranty flat rate code: SB06

Part code: 731Failure code: 00

- or -

Dual Outboard Package

Labor: 0.9 hour

Warranty flat rate code: SB09

Part code: 731Failure code: 00

- or -

Triple Outboard Package

· Labor: 1.2 hours

Warranty flat rate code: SB10 and SB02

Part code: 731Failure code: 00

- or -

Quad Outboard Package

Labor: 1.5 hours

Warranty flat rate code: SB10 and SB05

Part code: 731Failure code: 00

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U.S. and Canada

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

International

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

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