



Service Bulletin

Bulletin No. 2015-05R1
OEM No. 2015-04R1

Circulate to: Sales Manager Accounting Service Manager Technician Parts Manager

Verado Product Improvement

NOTICE
Revised June 2015. This bulletin supersedes the previous bulletin number 2015-05 March 2015.

Models Affected

Models Covered	Serial Number or Year
200–300 Verado	2B144123 and above

Scope

Worldwide

Situation

The purpose of this bulletin is to highlight product enhancements to the Verado 200–300 engine family.

- G3 diagnostic tool version compatibility
- Gearcase changes
- Steering head change
- Fuel system changes
- Engine harness changes
- Engine mounting screw recommendation (300 HP only)
- Maintenance decals
- Maintenance reminder
- RPM strategy for low battery voltage
- Cowl improvements
- Cowl decals
- Repower compatibility

CDS G3 Diagnostic Tool Version Compatibility

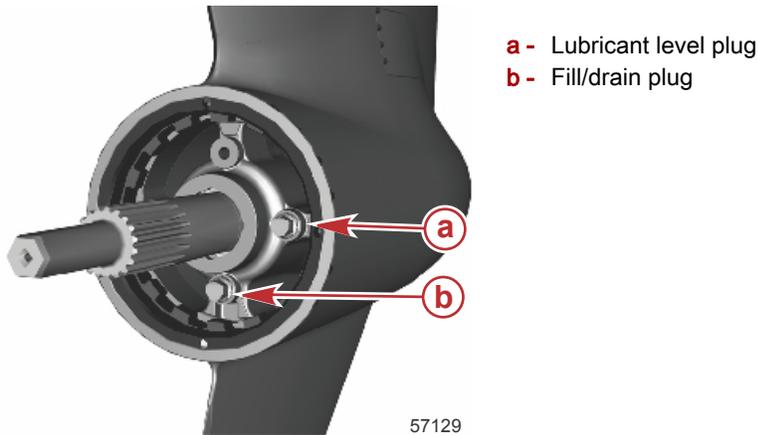
CDS G3 release 1.6.1 is compatible and has similar functionality as experienced with previous Verado models using CDS.

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Gearcase Changes

1. **300 HP only:** 1.75:1 heavy-duty gearcase has a lower lubrication level. Gearcase lubricant capacity is approximately 510 ml (17.2 fl oz). **Do not overfill.** Overfilling the gearcase will cause a reduction in power.



2. Gearcase mounting hardware and torque specification change.
 - On L and XL models, the aft mounting screw has changed, and the torque has increased to 100 Nm (73.7 lb-ft).
 - The gearcase mounting nut is taller. The new mounting nut exposes fewer threads on the mounting stud.
 - The torque for the mounting nut has changed from 61 Nm (45 lb-ft) to 75 Nm (55 lb-ft).



Steering Head Change

1. The steering head has been changed to utilize a larger steering arm fastener. The larger fastener size is more robust and has a 70% clamp load increase.



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2. Heavy-duty tie bar kits are available. These kits have larger pinned connections, larger bushings, a solid coupler, and larger tie rod threaded ends, increasing the overall strength of the steering components.



Dual-engine tie bar

Dual-Engine Tie-Bar Length	Recommended Distance Center to Center	Kit Part Number
66.04 cm (26 in.)	66.04–67.95 cm (26–26.75 in.)	8M0096314
71.12 cm (28 in.)	67.95–73.03 cm (26.75–28.75 in.)	8M0096315
76.2 cm (30 in.)	73.03–78.11 cm (28.75–30.75 in.)	8M0096316
81.28 cm (32 in.)	78.11–83.19 cm (30.75–32.75 in.)	8M0096317
86.36 cm (34 in.)	83.19–88.27 cm (32.75–34.75 in.)	8M0096319
91.44 cm (36 in.)	88.27–92.08 cm (34.75–36.25 in.)	8M0097267

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Add a tie bar

Add a Tie Bar Length	Recommended Distance Center to Center	Kit Part Number
66.04 cm (26 in.)	66.04–67.95 cm (26–26.75 in.)	8M0096320
71.12 cm (28 in.)	67.95–73.03 cm (26.75–28.75 in.)	8M0096321
76.2 cm (30 in.)	73.03–78.11 cm (28.75–30.75 in.)	8M0096322
81.28 cm (32 in.)	78.11–83.19 cm (30.75–32.75 in.)	8M0096323
86.36 cm (34 in.)	83.19–88.27 cm (32.75–34.75 in.)	8M0096324
91.44 cm (36 in.)	88.27–92.08 cm (34.75–36.25 in.)	8M0097268

3. A tie bar bracket for single engine applications utilizing a kicker motor for steering is available (8M0097850).
4. A bracket for the joystick piloting is also available (8M0098927).

Fuel System Changes

1. There is a new fuel supply module (FSM) based on the 150 FourStroke fuel system architecture. Refer to the operation manual or installation manual for priming the FSM.
2. A new boat-mounted water-separating fuel filter is included with the engine. This filter has a larger media area for capturing contaminants and an increased water separating capability with a removable water sensor. This filter has replaced the engine-mounted fuel filter.
3. An in-line fuel filter is located inside the engine side fuel line connector, and it is required when a boat-mounted fuel filter is installed. This filter captures debris that may be in the fuel line between the boat-mounted filter and the fuel line connection on the engine. This filter can be removed or replaced after one year or 100 hours of operation.



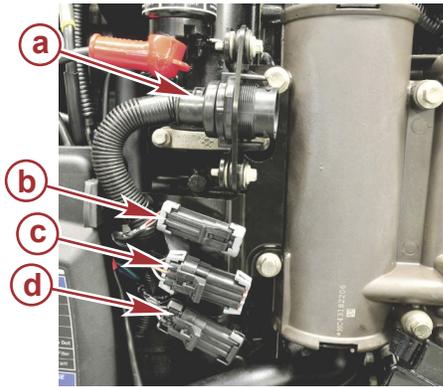
4. A fuel demand valve (FDV) is no longer required on the fuel supply hose. The vent and purge valves are not used with this fuel delivery system; therefore, a primer bulb can be utilized, if desired.

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Engine Harness Changes

The engine harness has been changed to allow easy access to the clean power connector, power steering signal harness connector, and boat sensor harness connector. The water-in-fuel harness connector is inside the electrical box and is long enough that it can be connected outside of the electrical box.

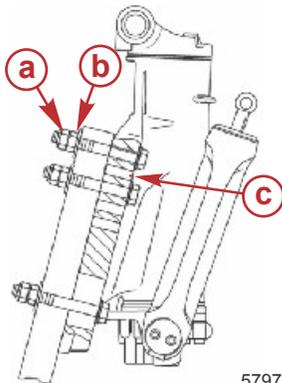


57980

- a - 14-pin connector
- b - Clean power
- c - 6-pin boat sensor
- d - Power steering signal

Engine Mounting Screw Recommendation (300 HP Only)

This engine requires six mounting screws secured with two nuts on each screw. The top screws must have one vacant transom mounting bracket hole between the screws. Only one locknut per screw is allowed.



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- a - Locknut
- b - Nut
- c - Vacant hole

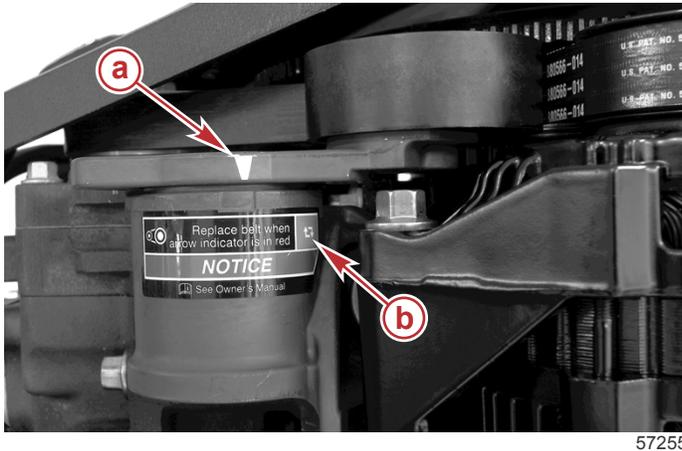
Maintenance Decals

1. **Maintenance schedule**—The maintenance decal on the electrical cover now incorporates the maintenance schedule inspection and replacement items.

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2. **Accessory drive belt**—A decal placed on the accessory drive belt tensioner base allows for a quick evaluation of the overall belt length. When the arrow on the tensioner is pointing to the red target window on the decal, the belt should be replaced.



- a - Tensioner arrow
b - Red target window (replace the belt)

57255

Maintenance Reminder

Verado L6 engines starting with serial number 1B144123 have the maintenance reminder enabled. There are a number of SmartCraft gauges capable of displaying this reminder.

RPM Strategy for Low Battery Voltage

The engine RPM strategy for low battery voltage has changed. During low-speed engine operation, the PCM will gradually increase the RPM incrementally when the battery is below a specific voltage. When the battery voltage is above the threshold, the PCM will gradually decrease the RPM.

Cowl Improvements

- Latch cables have been improved and are more resistant to corrosion.
- Improved cowl seals.
- Improved cowl and panel alignment.

Cowl Decals

Cowl decals have changed on all models.

Repower Compatibility

The following list shows important differences when replacing a Verado engine, serial number 2B144122 and below, with a Verado engine, serial number 2B144123 and above:

- A vessel-mounted water-separating fuel filter is required for serial number 2B144123 and above engines.
- On engines with serial numbers 1B390143 and below, update the command module to version 77.
- Engines with serial number 2B144123 and above use kicker motor tie bar bracket (8M0097850).
- Decals are different on the non-Pro 4-stroke models.
- If a single engine is replaced on a multiengine application that has serial number 2B144122 and below, the earlier steering head should be replaced with a steering head for the serial number 2B144123 and above application. The new heavy-duty tie-bar system should also be installed.
- Gear lubrication level has changed between models.

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