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Gas Assist Thrust Washer Replacement

Models Affected

Models Covered	Serial Number Or Year
60 HP EFI FourStroke	1C139538–1C207842
75 SeaPro	1B828336–1B913257

NOTE: This Service Bulletin only pertains to gas assist equipped engines. No power trim and tilt equipped engines are affected.

Scope

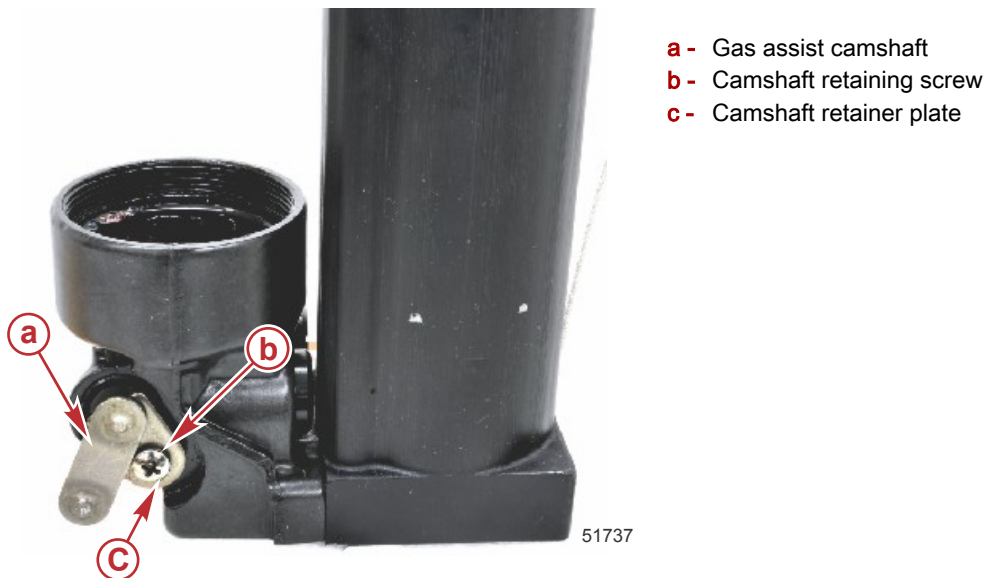
Worldwide

Situation

Some of the models mentioned above may experience a loss of gas assist tilt performance due to camshaft thrust washer failure. These engines may also exhibit a trim fluid leak in the area of the gas assist cam shaft. Engines that have been reworked will have a blue dot placed in the upper left corner of the caution decal located on the gas assist accumulator.

Correction

1. Following the service manual procedure, remove the gas assist unit from the outboard.
2. Following the service manual procedure, remove the accumulator from the gas assist unit.
3. Remove the screw that secures the camshaft retainer plate to the gas assist manifold.

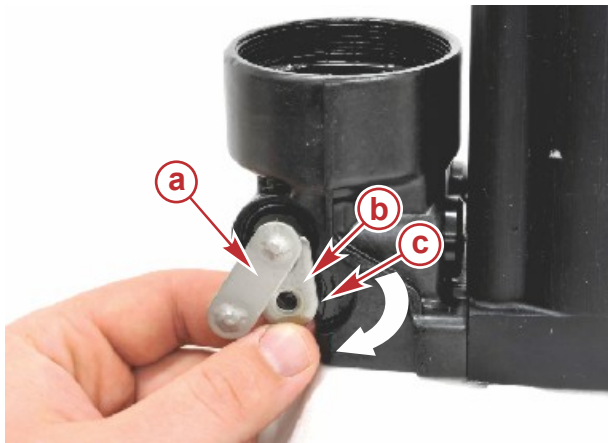


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4. Rotate the camshaft retainer and spacer down and remove them from the camshaft.

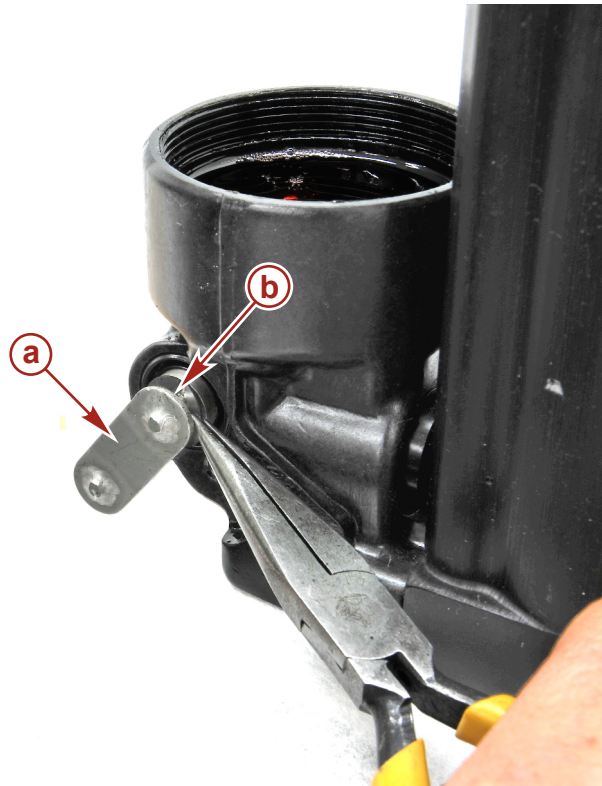


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- a - Gas assist camshaft
- b - Camshaft retainer plate
- c - Spacer

5. Slide the camshaft out of the gas assist unit approximately 1/8" to gain access to the camshaft thrust washer. Remove the camshaft thrust washer and discard.

NOTE: Do not slide the camshaft further than 1/8" out of the gas assist unit as fluid loss may result.



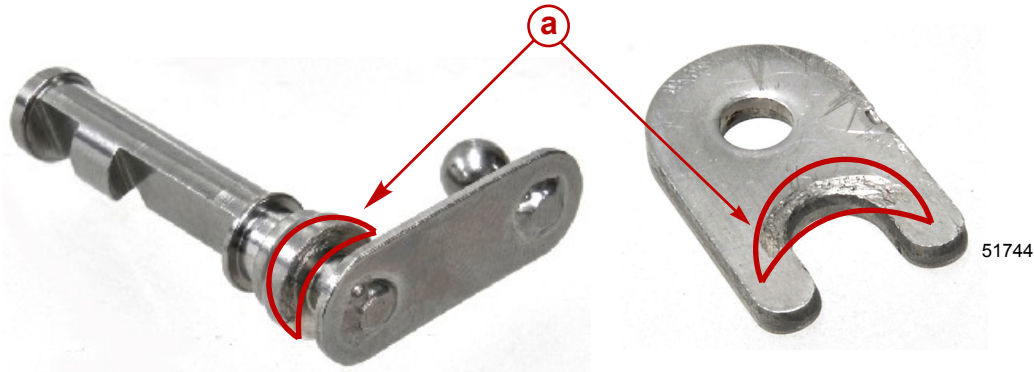
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6. Inspect the camshaft and camshaft retainer plate for signs of damage. If damage is present, replace the camshaft assembly. If no damage is found, proceed with thrust washer and spacer replacement. (Camshaft removed from manifold for clarity purpose only. Do not remove unless damage is evident).

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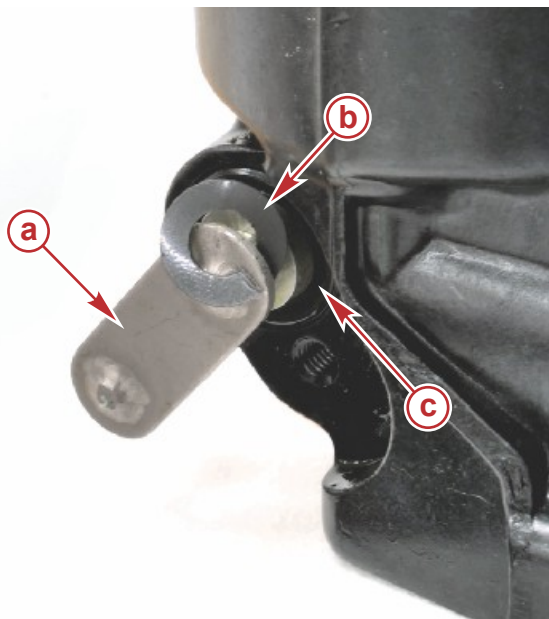
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NOTE: If using a camshaft assembly kit from your stock, ensure that the kit contains a black spacer. If the kit contains a white spacer, both the spacer and thrust washer should be discarded. The correct thrust washer will have a dark gray shiny appearance.



a - Damage to the camshaft and camshaft retainer plate

7. Install the replacement thrust washer on the camshaft. Using the slit in the thrust washer, spin the thrust washer onto the gas assist camshaft. Once the thrust washer is installed, apply 2-4-C with PTFE to the shoulder of the gas assist camshaft.

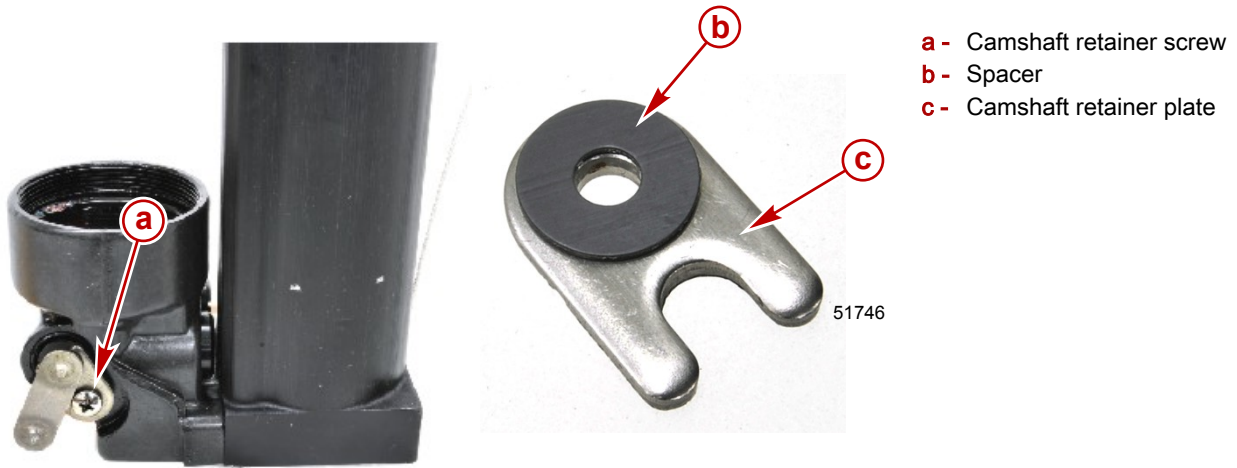


- a -** Gas assist camshaft
- b -** Thrust washer
- c -** Gas assist camshaft shoulder (area 2-4-C with PTFE needs to be applied to)

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8. Install the camshaft retainer plate and spacer. Torque the screw to specification.



- a - Camshaft retainer screw
- b - Spacer
- c - Camshaft retainer plate

Description	Nm	lb-in.	lb-ft
Retainer plate screw	3.6	32	-

9. Following the service manual procedure reinstall the accumulator and bleed the gas assist unit if required.
10. Following the service manual procedure reinstall the gas assist unit into the engine.
11. Check the gas assist unit for proper operation.
12. After a successful gas assist operation test, place a blue dot in the upper left hand corner of the caution decal located on the accumulator.

Dealer Outboard Inventory

Any affected engines in your dealer inventory within the serial number range listed above should also be addressed per this bulletin.

Owner Notification

A letter will be sent to every registered owner of an affected outboard. The letter will advise the owner to return the outboard to their selling dealer or any Mercury Outboard authorized dealer for the repair. As a selling or servicing dealer, you should also contact your customer to make them aware of this recall and to schedule an appointment for this repair. A copy of the customer letter is included with this service bulletin for your reference.

Parts Required

Qty.	Description	Part Number
1	Spacer/washer kit	8M0077141
2	Pin trilobe	821539

Warranty

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

Complete warranty claim listing:

- Outboard serial number
- Labor: 1.0 hour
- Warranty flat rate code: SB10
- Qty. 1, spacer/washer kit – P/N 8M0077141
- Qty. 2, pin trilobe – P/N 821539
- Part code: 199
- Fail code: 00

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Dear Mercury Outboard Owner:

Thank you for your purchase of a Mercury 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 your outboard must be recalled so that we can perform an inspection of the gas assist tilt system camshaft and replacement of the gas assist tilt system camshaft thrust washer.

What is the condition?

Mercury Marine has identified that the gas assist tilt system camshaft thrust washer on your outboard may be defective. The gas assist tilt system may develop an oil leak, or a lack of tilt assistance under these conditions.

What will Mercury Marine do?

Mercury Marine has also identified that we can have our dealers perform an inspection and replacement of the gas assist camshaft thrust washer. We have provided instructions to our dealers on the proper method of performing this inspection and gas assist camshaft thrust washer.

What should you do?

Please contact your Mercury Outboard dealer and mention Service Bulletin 2013-05 to schedule an appointment to have this inspection performed on your outboard. Your dealer will be able to determine how long this inspection/correction will take.

Please present this notice to your dealer when you bring your boat 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 AM and 5:30 PM 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