



MII: CU:Y Outboards

No. 93-2

Official Notification - Federal Boat Safety Act Flywheel Replacement 1991 100 thru 200 HP Models

1991 Mariner and Mercury

100 and 115 hp Models

S/N 0D042760 thru 0D043796 S/N 0D048920 thru 0D050022 S/N 0D055208 thru 0D056273

135 thru 200 hp Models

S/N 0D050023 thru 0D051185 S/N 0D077026 thru 0D078175

Cracked ring gears have been found on some 1991 100 thru 200 hp outboards. The outboards listed require replacement of the cast iron flywheel with non welded ring gear. The flywheel ring gear could crack and become detached from the flywheel. Not all 1991 100 thru 200 hp outboards are affected. Replacement is required only within the serial number ranges specified.

The crack will usually begin at one of the four welds and move outward.

Figure 1 illustrates how a cracked ring gear may appear just before it separates from the flywheel.



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a - Ring Gear Crack b - Weld (4)

Figure 1. Cast Iron Flywheel with Cracked Ring Gear

V-6 outboards within the serial number range that are equipped with flex-plate style flywheels, as shown in Figure 2. are not affected.



Figure 2. 135-200 Flex-Plate Flywheel (Not Affected)

Replacement flywheels will not have welded ring gears. Welding of flywheel ring gears has been discontinued. As of July 1992 all 50 thru 200 hp flywheel ring gears are shrunk-on the flywheel.

OWNER NOTIFICATION (US AND CANADA):

A combination letter/claim will be sent to every registered owner of a model within the above listed serial number range. The letter will advise the owner to return their outboard to the selling dealer or authorized dealer for warranty replacement of the flywheel. A copy of the letter/claim is attached to this service bulletin.

DEALER SERVICE PARTS STOCK:

Dealer service parts stock is not affected by this campaign.

DEALER OUTBOARD INVENTORY:

Outboards listed, which are in dealer inventory must be reworked prior to customer delivery.

PARTS REQUIRED:

Qty. 1 P/N 261-9008A9 Flywheel Assembly (100/115hp)

or Qty. 1 P/N 271-817632A4 Flywheel Assembly (V6 16 amp)

or

Qty. 1 P/N 271-817632A2 Flywheel Assembly (V6 40 amp)

CORRECTION:

A CAUTION

Flywheel taper and crankshaft taper must be free of all grease and oil.

- Replace cast iron flywheel with new cast iron flywheel. Refer to Section 2A of Service Manual P/N 90-13645--2 (100-115-hp) or 90-816249--1 (135 thru 200 hp) for flywheel removal and installation instructions. Torque flywheel nut to 120 lb.ft. (163 N·m).
- Refer to Section 2C of service manual and perform steps as listed under "Timing/Synchronizing/Adjusting".
- US and Canada return cast iron flywheel with completed warranty claim. International - follow instructions issued by Marine Power International office or by your distributor.

INSPECT ALSO:

200HP S/N 0D077248 thru 0D078175 for removal of spark advance module and installation of idle stabilizer and correct timing decal. Refer to service bulletin 91-35.

WARRANTY:

Complete warranty claim listing:

Outboard Serial Number Qty. 1 P/N_____ Flywheel Assembly One (1) hour labor Warranty labor rate code: NJC Failure code 409 40

or

Complete and return the pre-printed warranty claim form sent to the customer.

Return the flywheel with the warranty claim.

February, 1993

Dear Customer:

Our records indicate that you are the owner of an outboard motor that is included in a recall being performed in compliance with the Federal Boat Safety Act. The flywheel ring gear used on the cast iron flywheels could break and become detached from the flywheel.

WHAT YOU SHOULD DO

Contact your authorized dealer, preferably the one who sold you the engine. Make an appointment to have the flywheel inspected and, if necessary, replaced--some engines are equipped with a different type of flywheel that does not need to be replaced. Then, deliver your boat and this letter to your dealer at the appointed time. The reverse side of this letter comprises a pre-printed warranty claim form that the dealer needs to send to us for reimbursement.

WHAT WE WILL DO

We will reimburse the dealer for replacing the flywheel. You will not be charged for either parts or labor.

We apologize for inconveniencing you. We are notifying you so that you can avoid a malfunction at a future date. Please take care of this as soon as possible.

Sincerely, Mercury Marine

Bob Kachelak

Bob Kachelek Director, Outboard Service



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JTBOARDS

service bulletin

No. 93-2 Insert

Insert this page with Service Bulletin 93-2.

Inaccurate Information

The preprinted warranty claim on the reverse side of the customer letter that was sent to the registered owners contained some inaccurate information.

- 135 thru 200 owners The part number of the 16 amp. flywheel should be 271–817632A–4 as stated in the service bulletin. DO NOT order the A–9 part number as listed on the preprinted warranty claim. The A–9 part number is a flywheel kit and contains a flywheel and stator.
- All Owners The preprinted warranty claim refers to Bulletin Number 92–23. It should state "Refer to Bulletin 93–2".

Additional Information

We have received calls asking how to determine if a 16 amp. flywheel or a 40 amp. flywheel is to be ordered for the 135 thru 200 product. In the parts manual, we show an illustration of the flywheel cover to make the identification of the systems easy. The outboards with the solid flywheel cover have the 16 amp. charging system. The outboards with the louvered flywheel cover have the 40 amp. charging system.



Solid Flywheel Cover for 16 Amp. system. Order 271-817632A-4 Flywheel



Louvered Flywheel Cover for 40 Amp. system. Order 271-817632A-2 Flywheel