

## Official Notification - Federal Boat Safety Act Flywheel - 1991 & 1992 150 HP Models

**Models Affected:**

1991 150 HP Versions: B, D, F &amp; J

1992 150 HP Version: A - Serial Numbers Under 60,000

1992 150 HP Version: A - Serial Numbers Over 60,000

1992 150 HP Version: C

NOTE: Version letter is the last letter in the model number.

For a listing of complete model numbers affected by this campaign, refer to the end of this bulletin.

During the assembly process of the 819490A 3 flywheel, some fasteners which retain the emergency starter plates and hub plate to the outer rim of the flywheel were insufficiently torqued. This condition could lead to the fatiguing of these fasteners and ultimate flywheel failure. Such a failure would result in one of the emergency starter plates releasing from the flywheel. The engine cowl will provide protection from possible injury should this occur.

### **⚠ WARNING**

**DO NOT OPERATE THESE ENGINES WITHOUT THE COWL ON AND SECURELY LATCHED. SECURELY ASSEMBLE FLYWHEEL GUARD 819976A 1 TO THESE ENGINES BEFORE PERFORMING ANY SERVICE WORK THAT REQUIRES OPERATING THE ENGINE WITH THE COWL REMOVED.**

Re-torquing these fasteners can not be reliably performed for several reasons:

1. Fasteners are loctited.
2. Loctite must be completely removed from the threads of both the fasteners and outer rim of the flywheel.
3. Engineering has found that the removal of the fasteners requires a dynamic balance check of the flywheel.

For these reasons, the flywheel must be replaced.

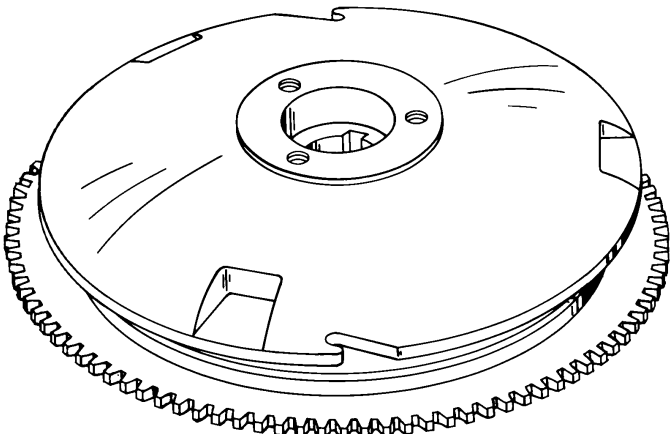
We will be conducting a field campaign to replace all flywheels for the models listed in this bulletin.

Engineering has re-evaluated the flywheel design. Improvements have been incorporated to make the flywheel easier to assemble and more reliable. The part number for the new flywheel is 819490A 6. This is the replacement flywheel which will be used in this campaign.

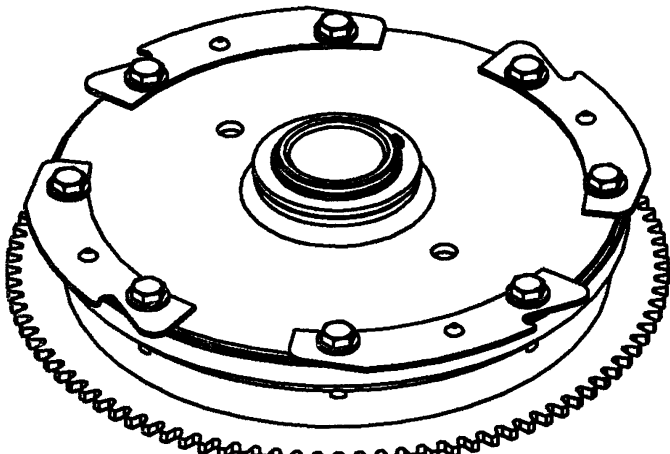
There is currently a campaign being conducted to replace the solid hub flywheel (p/n 817494A 2) with a rubber cushioned hub flywheel (p/n 819490A 3). That campaign is described in Service Bulletin #91-11. Since both the campaign described in SB 91-11 and this campaign will be running concurrently, we have four situations to be aware of:

1. Motors which have not been re-worked per Service Bulletin #SB 91-11.
  - a. These motors are #1 and #2 in the list of models affected at the start of this bulletin.
  - b. The procedures described in Service Bulletin #SB 91-11 must be followed.
  - c. Use flywheel part number 819490A 6 in place of the 819490A 3 flywheel.
2. Motors which have been re-worked per Service Bulletin #SB 91-11.
  - a. These motors require replacement of the flywheel part number 819490A 3 with the 819490A 6 flywheel.
  - b. Remove all grease, oil and dirt from crankshaft and flywheel taper with a solvent. Install flywheel on crankshaft.
  - c. Torque flywheel nut to **130 lb. ft. (176 N-m)**.
3. Motors which originally were built with the 819490A 3 flywheel.
  - a. These motors are #3 and #4 in the list of models affected at the start of this bulletin.
  - b. Follow same procedures as described in #2. ("Motors which have been re-worked per #SB 91-11.")
4. Motors which are presently being built with the 819490A 6 flywheel.
  - a. These motors are 1992 models - serial numbers starting with "OE".

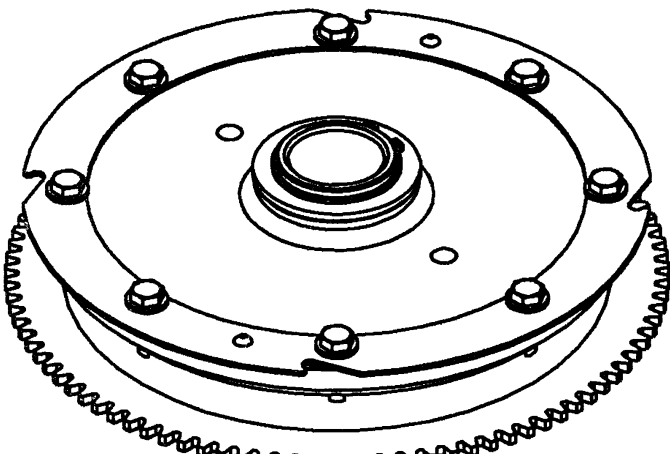
b. These motors are **not affected** by this campaign. To summarize, there are three flywheels involved in the two campaigns. Each one is distinctly different. See figures below.



817494A 2



819490A 3



819490A 6

The 817494A 2 flywheel is the solid hub design. This flywheel was being replaced by the 819490A 3 flywheel per Service Bulletin #SB 91-11.

The 819490A 3 flywheel is the original rubber cushioned hub flywheel. This design eliminated an engine harmonic vibration between 4150 and 4400 RPM's, as described in #SB 91-11.

The 819490A 6 flywheel is the improved version of the 819490A 3 flywheel. This flywheel has larger fasteners and other changes.

**WARRANTY**

Complete and submit a warranty claim. One warranty claim can be used for several outboards.

- List outboard serial number(s) and model number(s).
- 1.0 hour labor to replace each flywheel.
- Warranty Labor Rate Code: NJC
- Failure Code: 409 40
- Send the warranty claim and old flywheels to:

**For U.S. Dealers:**

Force Outboards  
 Warranty Receiving  
 W 6250 West Pioneer Rd.  
 Fond du Lac, WI 54936

**For Canadian Dealers:**

Mercury Marine LTD  
 8130 Winston Street  
 Burnaby, BC  
 Canada V5A 2H5

Mercury Marine LTD  
 2840 Boul le Corbusier  
 Ville de Laval, Quebec  
 Canada H7L 3S1

Mercury Marine LTD  
 1156 Dundas Highway East  
 Mississauga, Ontario  
 Canada L4Y 2C2

- Please return the flywheels via UPS prepaid. Include shipping costs on the warranty claim.

We have established a telephone number for U.S. dealers only to answer questions concerning this recall. The telephone number is (414) 929-5164. This number may also be used for placing orders for the flywheel and for Pre-Authorization. For Canadian Dealers, please call your Regional Service Center: Burnaby, BC – (604) 420-5630  
 Mississauga, Ont – (416) 270-4481  
 Ville de Laval, PQ – (514) 688-8210

Notification to registered owners will be sent one week after the date of this Service Bulletin by registered letter. There are two different letters being sent to your customers. One is for owners who were notified of the original recall last September. The other letter is for the owners with motors which were originally built with the rubber cushioned hub flywheel. Attached to this service bulletin are copies of each letter.

Thank you for your cooperation on this campaign.

**1991 MODELS**

1501A91B  
1501F91B  
1501X91B

1508A91B  
1508C91B  
1508E91B  
1508F91B  
1508X91B

1501A91D  
1501E91D  
1501F91D  
1501X91D

1508C91D  
1508E91D  
1508F91D  
1508P91D  
1508X91D

1501A91F  
1501X91F

1501A91J  
1501E91J  
1501F91J  
1501X91J

1508A91J  
1508C91J  
1508E91J  
1508F91J  
1508P91J  
1508X91J

**1992 MODELS**

1501A92A  
1501E92A  
1501F92A  
1501X92A

1508A92A  
1508C92A  
1508E92A  
1508F92A  
1508X92A

1501X92C  
1508A92C  
1508X92C