

SERVICE BULLETIN



Number: 78-6

Date : 2/28/78

CIRCULATE TO:	SERVICE MGR.	PARTS MGR.	MECHANICS	Place in Your "Service Bulletins" Binder
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- A. MerCruiser I Drive Unit Seal and Water Pump Repair Kits
- B. Tightening Propeller Retaining Nut
- C. Trim Cylinder Rubber Bushing Installation
- D. Special Lubricant No. 101
- E. MerCruiser Transom Plate Assembly Serial Number

A. MERCUISER I DRIVE UNIT SEAL and WATER PUMP REPAIR KITS

(Attach Bulletin Reference Sticker to PP 6A-2 and 6A-14 of Your Service Manual.)

The following listed kits contain those fast-moving parts, that you use every day, with the following benefits:

- Savings in cost - less than you would pay if ordering the individual items.
- One part number to order - eliminates looking-up and picking 10-20 separate items.
- No longer a need to stock individual items - saves space - easier inventory control.
- Reduce service delays and increase shop production.
- Saves time with the Do-It-Yourselfer - sell him a complete repair kit.

Seal Kits

The seal kits contain all oil seals, "O" rings and washers needed to repair a complete drive shaft housing assembly or complete gear housing assembly for the MerCruiser I Drive Unit. Order the following kits:

- | | |
|---------------------|--|
| B-26-32511A1 | Drive Shaft Housing (Complete) Seal Kit for MerCruiser I (Serial No. 1684188 and Above) |
| B-26-33144A1 | Gear Housing (Complete) Seal Kit for MerCruiser I (Serial No. 1684188 and Above) |

Water Pump Kits

The Water Pump Kits contain base and body assembly, impeller, seals, "O" rings, gaskets and washers that are needed to repair water pump on the MerCruiser I Drive Unit. Order the following kits:

- | | |
|----------------------|--|
| B-46-60367A4 | Water Pump Kit for MerCruiser I Drive (Serial No. 1684188-thru-2495185) |
| B-46-64141A11 | Water Pump Kit for MerCruiser I Drive (Serial No. 2495186-thru-2763441) |
| B-46-57234A3 | Water Pump Kit for MerCruiser I Drive (Serial No. 2763442 and Above) |

(OVER)

B. TIGHTENING PROPELLER RETAINING NUT

(Attach Bulletin Reference Sticker to P. 1A-17 of Your Service Manual.)

Propeller retaining nuts must be tightened securely. Failure to do so will allow propeller to move forward-and-aft on propeller shaft while shifting gears and during acceleration and deceleration. Propeller forward-and-aft movement causes propeller damage and thrust hub wear with subsequent gear housing damage.

SAFETY WARNING: When installing or removing propeller retaining nut, place a block of wood between the anti-cavitation plate and propeller to protect the hands from propeller blades.

On small fishing engines, the propeller nut should be tightened securely and retightened after first use and the propeller checked for tightness periodically.

SAFETY WARNING: To prevent accidental starting of the engine while checking propellers, be sure that the remote control is in neutral position and that the ignition key is removed from the switch.

Stern drive [and larger outboard (Merc 402 and larger)] propeller nuts should be tightened securely [minimum of 55 ft. lbs. (7.6mkg) torque]. If tabwasher (tabwasher not used on all models) tabs do not align with slots, continue to tighten propeller nut to obtain alignment. (DO NOT loosen nut to align tabs.) Bend tabs into slots. After first use, retighten propeller nut and again secure with tabwasher, if applicable. Propeller should be checked periodically for tightness, particularly if stainless steel propellers are used.

DO NOT misinterpret propeller shaft movement with propeller movement. If propeller and propeller shaft together move forward-and-aft, this is normal; however, propeller should not move forward-and-aft on propeller shaft.

If propeller moves on shaft, retighten propeller nut.

C. TRIM CYLINDER RUBBER BUSHING INSTALLATION

(Attach Bulletin Reference Sticker to P. 7A-18 of Your Service Manual.)

Some dealers have been using grease or oil to assist the installation of Trim Cylinder Rubber Bushings (Part No. C-23-61290 for MerCruiser I Drive and C-23-61291 for MerCruiser IITR & TRS Drives). Bushings should be installed dry, or one part liquid soap to 80 parts water solution should be used. DO NOT use grease or oil when installing trim cylinder rubber bushings.

D. SPECIAL LUBRICANT NO. 101

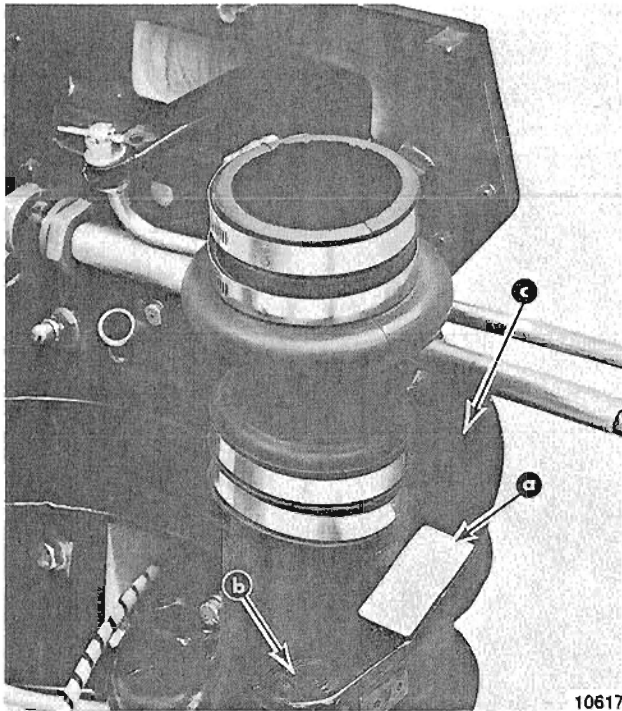
(Attach Bulletin Reference Sticker to P. 9A-9 of Your Service Manual.)

Special Lubricant No. 101 (Part No. C-92-79214) must be used on all MerCruiser Power Steering extension rods and Ride-Guide cable output shafts. Refer to Service Bulletin 78-4, dated 12/15/77, for clarification and lubricant application instructions. Special Lubricant No. 101 also is recommended as a service lubricant on all MerCruiser Power Steering units. Operation and Maintenance Manuals, Service Manuals, etc, will be updated when reprinted.

E. MERCUISER TRANSOM PLATE ASSEMBLY SERIAL NUMBER

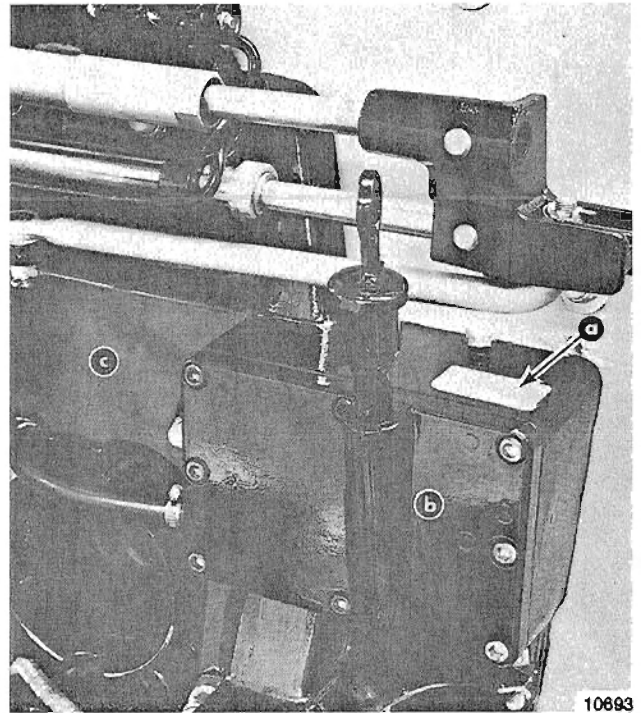
(Attach Bulletin Reference Sticker to P. 1A-4 of Your Service Manual.)

Mercury Marine is receiving many Warranty Registration Cards without transom plate serial numbers listed or with an incorrect number. In case of a recall, it is important to the customer, you as a dealer and to Mercury Marine to have all serial numbers (engine, drive and transom plate) recorded. A current example is the Factory-Installed Power Steering Program covered in Service Bulletin 78-4, dated 12/15/77. The serial number is located on the MerCruiser inner transom plate (not on boat transom), as outlined in Service Bulletin 77-9, dated 6/30/77, and shown in Figures 1 and 2. DO NOT list boat serial number in place of transom plate serial number. Your cooperation will help make record-keeping accurate.



- a - Serial Decal
- b - Engine Mounting Location
- c - Inner Transom Plate

Figure 1. MerCruiser 120/140/165/470/898/228/260 Serial No. Decal Location



- a - Serial Decal
- b - Stern Drive Oil Reservoir
- c - Inner Transom Plate

Figure 2. MerCruiser 228TR/330TR and 330 TRS Serial No. Decal Location