



MERCUISER SERVICE BULLETIN

Section: XII (Bulletins)

Number: ~~67~~ 66-19

Date : 11/18/66

Cut individual items along broken lines and attach in appropriate sections of your MerCruiser Service Manual.

- A. Special Service Tools - MerCr. 60 & 80 (Sec. XI)
- B. Hydraulic Pump Mounting Bracket Kit (Section II)
- C. Exhaust Water Shutter Kit - 4-&6-Cyl. (Sec. II)
- D. Torquing Cylinder Head Bolts - 6-Cyl. (Sec. VIII)
- E. Heavy Duty Water Pump Kit (Section II)

A. SPECIAL SERVICE TOOLS - MERCUISER "60" and "80" ENGINES

(For Tool Section XI)

The following special service tools are available for completing repairs on MerCruiser "60" and "80" models. Order your tools now from this list.

MerCruiser "60" Tools

- C-91-38835A1 - Flywheel Puller
- C-91-37023 - Wedge - Cylinder Head
- C-91-39284A1 - Mandrel - Valve Guide
- C-91-37002A1 - Reamer - Valve Guide Hole
- C-91-39288A1 - Removing-Install. Tool - Piston Pin
- C-91-39285A1 - Installation Tool - Rear Oil Seal

MerCruiser "80" Tools

- C-91-46771 - Piston Pin Extractor Tool
- C-91-46773 - Valve Guide Extractor Set
- C-91-46777 - Reamer Set - Valve Guide
- C-91-46778 - Reamer - Push Rod
- C-91-46803 - Wedge - Cylinder Head

In addition to the above listed special service tools, a number of hand tools are required in metric sizes. Socket, open end and box end wrenches are needed in sizes from 7mm thru 20mm. Metric wrenches are available from most hand tool manufacturers.

B. HYDRAULIC PUMP MOUNTING BRACKET KIT (B-46306A1) (For Installation Section II)

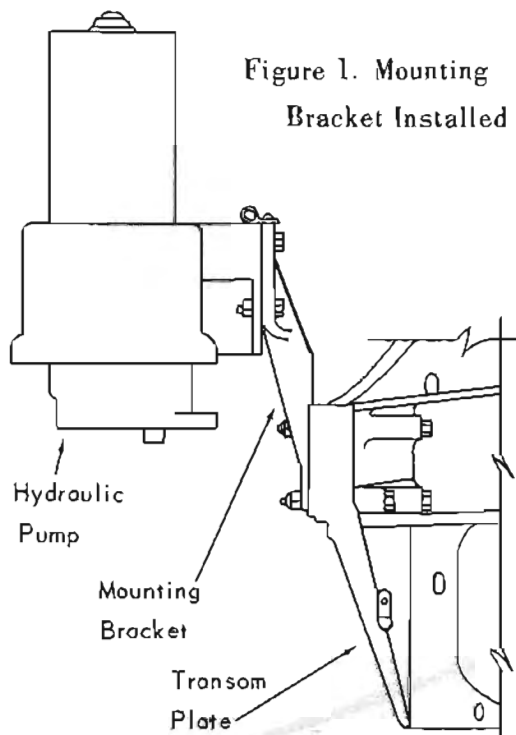


Figure 1. Mounting Bracket Installed

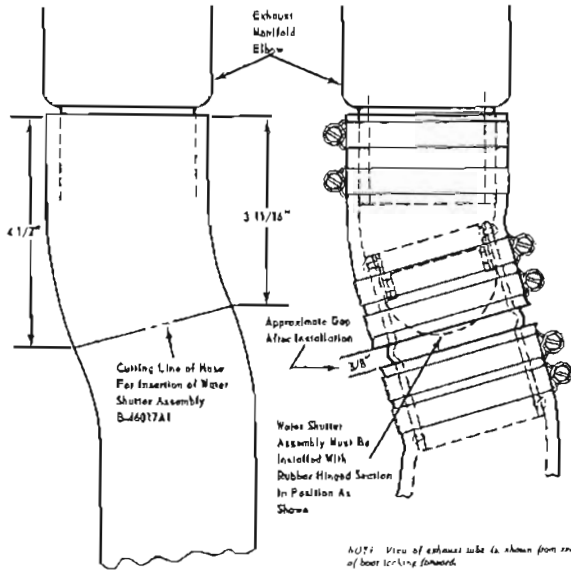
If boat construction will not permit mounting hydraulic pump on inner transom plate, or if inaccessible for servicing, use Pump Mounting Bracket (B-46306A1). Install hydraulic pump on mounting bracket as follows:

1. Units equipped with Power Trim will have hydraulic pump previously installed on inner transom plate.
 - a. Remove screw and "D" washer which holds harness wire to transom plate.
 - b. Remove 3 mounting screws and nuts and remove pump from transom plate. Do not remove hydraulic hose from pump.
2. Install mounting bracket to inner transom plate with same 3 screws and nuts previously used to mount hydraulic pump. (Figure 1)
3. Install hydraulic pump to mount bracket with 3 screws, washers and nuts supplied with bracket in kit. (Fig 1)
4. Install harness wire to pump bracket with screw, "D" washer and nylon clip.
5. Install hydraulic hose to pump on units equipped with Power Tilt.

C. EXHAUST WATER SHUTTER KIT - 4-and-6-Cylinder Models (For Installation Section II)

We now are offering the Exhaust Water Shutter Kit (B-46017A1), an accessory that is adaptable to all MerCruiser 4-and-6-cylinder models. When installed in the flexible neoprene exhaust discharge

hose just below the exhaust elbow, it helps keep water from entering the exhaust manifold and combustion chambers of the engine under the following conditions:



- *When stopping suddenly - thus hindering following waves
- *When shutting off throttle suddenly
- *When launching a boat from a trailer (back end first)

This Exhaust Water Shutter Kit can be installed easily and in a few minutes. (Figure 2)

B-46017A1

Exhaust Water Shutter Kit

Figure 2. Exhaust Water Shutter Kit Installed

D. TORQUING CYLINDER HEAD BOLTS - All 6-Cyl. Models (For Engine, Mechanical Section VIII)

Continuous testing has shown that it is necessary to torque the cylinder head on all 6-cylinder MerCruiser engines while performing the 20-hour free checkup. Failure to retorque could result in poor engine performance, blown cylinder head gaskets, burned valves, warped cylinder head or all four.

The 20-Hour Free Checkup Certificate includes the following statement: "Torque cylinder head bolts to factory specifications."

Warranty will not be honored for damaged parts and/or labor due to burned valves or cylinder head gasket failure.

E. HEAVY DUTY WATER PUMP KIT (For Installation Section II)

An excessive amount of silt in some rivers creates an extreme abrasive action on the water pump cartridge. Engineering has developed and tested Heavy Duty Water Pump Kits which have increased the life of the water pump tremendously in silt laden waters. Complete installation instructions are included in each kit. If this high abrasive silt condition exists in your area, order the Heavy Duty Water Pump Kits, below, now . . . keep your service stock up-to-date.

Kit Part No.	For MerCr. I Serial Nos.	Kit Part No.	For MerCr. I Serial Nos.
C-46-36087A2	1536617 and Below	C-46-38505A2	1684188 thru 1777798
B-46-36087A4	1536618 thru 1563353	C-46-37433A4	1777799 and Up
B-46-36087A5	1563354 thru 1684187	B-46-38958A5	MerCruiser "60" Only (2063735 & Below)