



MERCURISER SERVICE BULLETIN

Section: XII (Bulletins)
Number: 68-867-15
Date: 10/3/67

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

- A. Heavy Duty Gear Housing Propeller Cover - MerCr. II (P. 30 Sec. IX)
- B. Exhaust Water Shutter Noise - MerCruiser 120 & 160 (P. 3 Sec. X)
- C. Propeller Thrust Hub - MerCr. 1, 120 & 160 (PP 7 & 14 of Sec. IX)
- D. Heli-Coil Insert - MerCruiser 60 & 80 (PP 77 & 96 of Section VIII)
- E. Valve Adjustment - MerCruiser 60 & 80 (PP 92 & 111 of Sec. VIII)
- F. Reverse Lock Valve Cover Breakage-Power Trim (For Section X)

A. HEAVY DUTY GEAR HOUSING PROPELLER COVER - MerCruiser II

(For P. 30 of Drive Unit Section IX)

It has been brought to our attention that water may be trapped in the propeller cover of MerCruiser II heavy-duty gear housing assemblies. There have been reports that this trapped water can freeze and crack the cover. To remedy, drill out the cover with a 3/16" (4.8mm) dia. drill in 3 places, as shown in Figure 1.

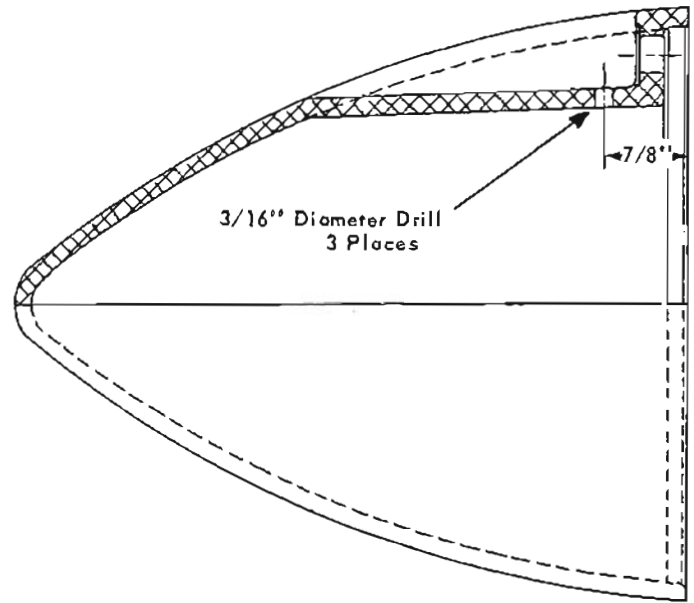


Figure 1. Drilling Locations

B. EXHAUST WATER SHUTTER NOISE - MerCruiser 120 & 160

(For P. 3 of Miscellaneous Section X)

We have received reports of engine noise or clatter in MerCruiser 120 and 160 engines when operated at low RPM. The noise is caused by the exhaust water shutter (B-45586) striking the sides of the aluminum exhaust tube. This is brought to your attention so that you are aware of the noise, should it occur.

C. PROPELLER THRUST HUB - MerCruiser I, 120 & 160

(For PP 7 & 14 of Drive Unit Section IX)

Propeller shaft thrust hubs and thrust washers between early and late models should not be intermixed. Thrust washer B-12-45450 must be used with thrust hub assembly B-45451A1, and thrust washer B-12-31013 used with thrust hub assembly B-35964A1. (Figures 2 & 3)

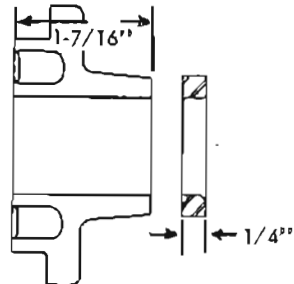


Figure 2. Thrust Washer B-12-45450 with Thrust Hub Assembly B-45451A1

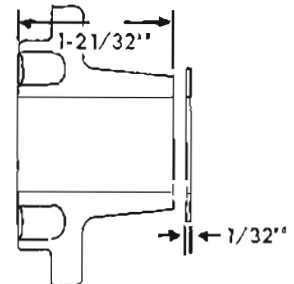


Figure 3. Thrust Washer B-12-31013 with Thrust Hub Assembly B-35964A1

D. HELI-COIL INSERT - MerCruiser 60 & 80 with Aluminum Cylinder Heads

(For P. 77 & 96 of Engine, Mechanical Section VIII)

The 14mm heli-coil insert (C-91-45831) can be installed in the spark plug hole if threads are stripped out in MerCruiser 60 and 80 aluminum cylinder heads.

E. VALVE ADJUSTMENT - MerCruiser 60 & 80

(For PP 92 & 111 of Engine, Mechanical Section VIII)

Use Valve Adjusting Tool (C-91-47160) for adjusting valves on MerCruiser 60 and 80 models as follows:

1. Allow engine to cool for one hour before adjusting valve clearances.
2. With tool C-91-47160, adjust valve clearances -

Model	Intake	Exhaust
MerCruiser "60"	.005" (.12mm)	.008" (.20mm)
MerCruiser Inboard "30" and "55"	.005" (.12mm)	.008" (.20mm)
MerCruiser "80"	.008" (.20mm)	.010" (.25mm)

3. Adjusting sequence

To Adjust Rocker Arms	Turn, with the Starting Handle to Fully Open Valve
Intake 3 - Exhaust 4	Exhaust 1 Open
Intake 4 - Exhaust 2	Exhaust 3 Open
Intake 2 - Exhaust 1	Exhaust 4 Open
Intake 1 - Exhaust 3	Exhaust 2 Open

F. REVERSE LOCK VALVE BREAKAGE - MerCruiser Power Trim

(For Section X)

When making installations or performing repairs on MerCruiser Units equipped with Power Trim, use caution so that up-and-down hydraulic hoses are not reversed. When operating Power Trim for the first time, push the down switch first, then, if the drive unit comes up, the hydraulic hoses are reversed on the valve housing assembly at the pump base. Switch hoses to correct this condition. If these precautions are taken and cover breakage still occurs, it will be necessary to replace the control valve body assembly (B-45764A2) on the hydraulic pump.

DO NOT overtighten hydraulic line fittings, or threads will be stripped out of tilt cylinders or pump hoses. Fittings should be "snugged up" until no leaking occurs at the fitting.