



MERCURUISER SERVICE BULLETIN

Section: XII (Service Bulletins)
Number: ~~48~~ 63-13
Date : 12/30/63

Beaver Dam, Wis.
U.S.A.

- A. MerCr. I Model Designation - Service
- C** Exhaust Outlet Location - MerCr. II V-8's
- E. Service Protection - MerCruiser I
- B** Ride-Guide Steering Cable Tube - MerCr. I
- D. Universal Joint Repair
- F. Heavy Duty Water Pump Kit - MerCr. I
- G. Universal Carburetor Gauge

A. MERCUISER I MODEL DESIGNATION - SERVICE

(For Page 1 of General Information Section I)

MerCruiser IA - For 110 HP Engine

- Upper gears 21:23 ratio (1.85:1 overall reduction)
- Drive carton stamped "A(110 HP)"
- "A" stamped on drive shaft housing after serial number and on visible end of universal shaft.

MerCruiser IB - For 120 HP Engine

- Upper gears 20:24 ratio (2:1 overall reduction)
- Drive carton stamped "B(120 HP)"
- "B" stamped on drive shaft housing after serial number and on visible end of universal shaft.

MerCruiser IC - For 140 & 150 HP Engines

- Upper gears 24:24 ratio (1.7:1 overall reduction)
- Drive carton stamped "C(140/150 HP)"
- "C" stamped on drive shaft housing after serial number and on visible end of universal shaft.

B. RIDE-GUIDE STEERING CABLE TUBE - MERCUISER I

(For P. 6 of Installation Section II)

Late 1963 production MerCruiser I inner transom plates incorporate an aluminum steering cable tube. There is a possibility that this tube will bend slightly, when the 2 jam nuts are tightened excessively, and cause hard steering. (Figure 1) If this should occur, install the earlier steel steering tube (30706) to prevent bending. This cannot occur on 1964 production.

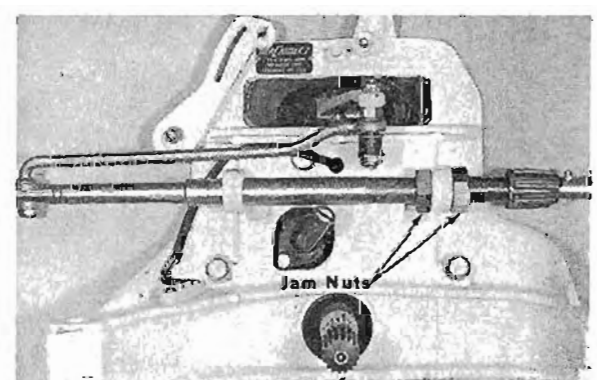
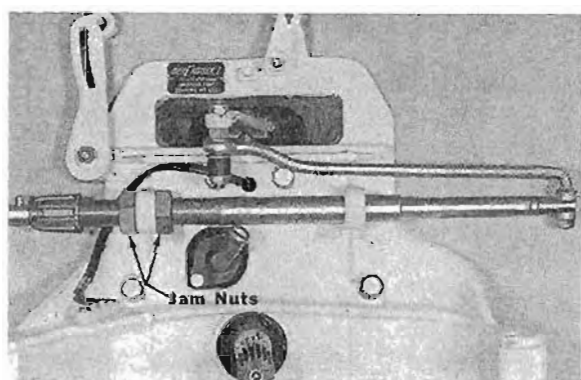


Figure 1. Jam Nuts Securing Ride-Guide Steering Cable Tube

C. EXHAUST OUTLET LOCATION - MERCUISER II V-8 MODELS

(For P. 44 of Installation Section II & P. 7 of Miscellaneous Section X)

We have received complaints from some customers that installation of some V-8 model MerCruiser Marine Engines -- especially in deep "V" boats -- permits sea water to run back into the exhaust manifolds, thereby causing damage to the engine.

A safe condition is determined by engine position in boat and by loading and movement within boat. To prevent water from entering engine thru exhaust manifold when boat is at rest, outside water level must be low enough, with respect to water trap in engine exhaust elbows, that water cannot run back into exhaust manifolds under any conditions of loading or rocking of the boat. Exhaust outlets must be located so that they always are lower than the exhaust manifold to assure proper draining of discharge water.

Always install Exhaust Flange Cover (34765A1) to help keep surging water from entering exhaust outlet. (Figure 2) These covers are deflectors only and do not function as seals.

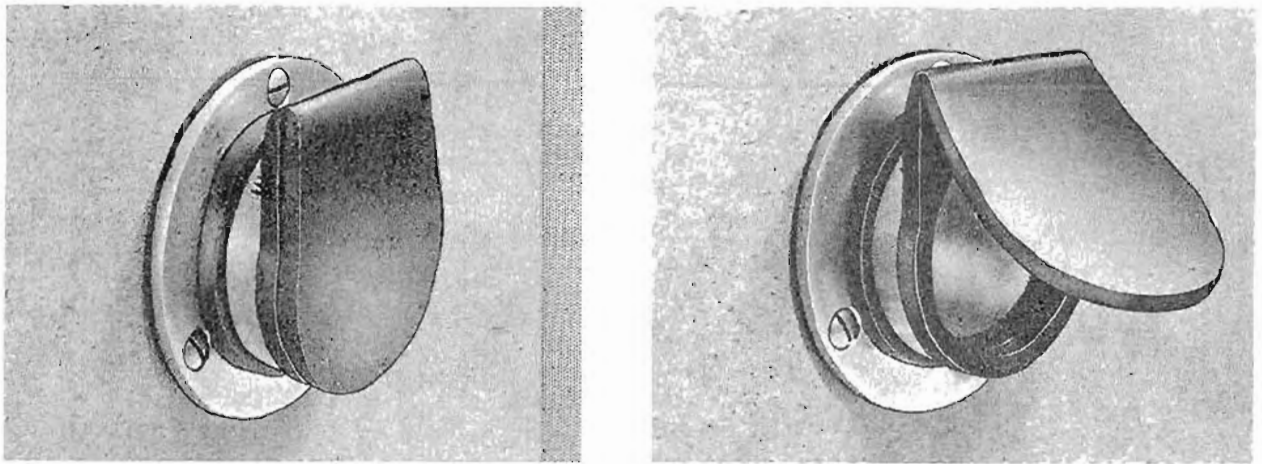


Figure 2. Exhaust Flange Cover Installed

D. UNIVERSAL JOINT REPAIR

(For P. 18 [MerCr. I] & P. 15 [MerCr. II] of Engine, Mechanical Section VIII)

The cross and bearing assemblies for both MerCruiser I and II universal joints are being made available. Instructions will accompany the packaged parts.

- 36311 Cross & Bearing Assy. for 32595 Universal Shaft, MerCr. I \$8.10 List (2 Req'd)
- 36312 Cross & Bearing Assy. for 32051 Universal Shaft, MerCr. II 8.55 List (2 Req'd)

E. SERVICE PROTECTION - MERCUISER I

(For P. 41 of Engine, Mechanical Sec. VIII)

When adjusting valve tappets in the service shop, steps can be taken to prevent the splattering of oil on clothes by reworking a used rocker arm cover, as shown in Figure 3.

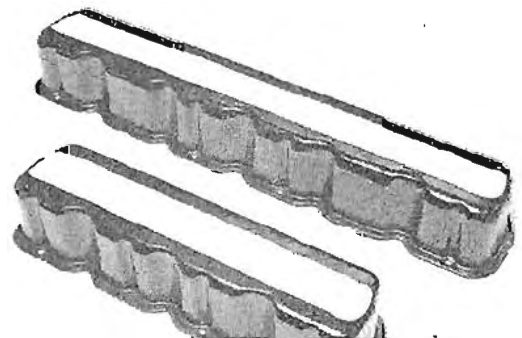


Figure 3. Reworked Rocker Arm Cover to Prevent Oil Splattering

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F. HEAVY DUTY WATER PUMP KIT (46-36087A2) - MERCUISER I

(For P. 5 of Drive Unit Section IX)

An excessive amount of silt in some rivers creates an extreme abrasive action on the water pump cartridge. Engineering has developed and tested a Heavy Duty Water Pump Kit which has tremendously increased the life of the water pump in silt laden waters. Complete installation instructions are included in this kit.

If this high abrasive silt condition exists in your area, order these kits now. . .keep your service stock up-to-date.

46-36087A2 Heavy Duty Water Pump Kit, MerCr. I \$21.45 List

G. UNIVERSAL CARBURETOR GAUGE (91-36392)

(For P. 2 of Tool Section XI)

Eliminates the need for special gauges for each make and model. This one, simple tool performs all the operations shown below, plus many other service operations.

Order the Universal Carburetor Gauge (91-36392) today to maintain your complete service tool department. (Figure 4)

91-36392 Universal Carburetor Gauge \$2.75

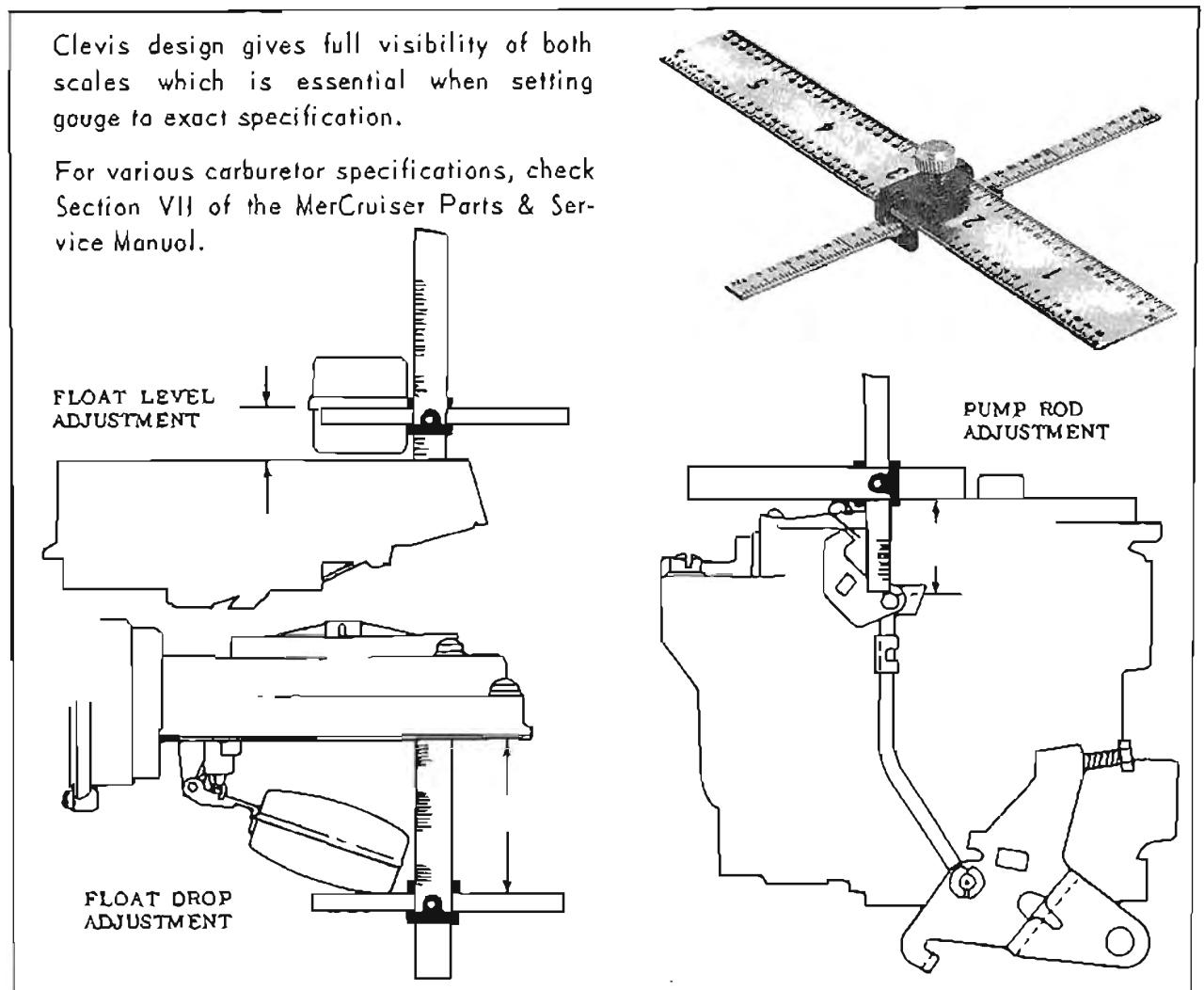


Figure 4. Universal Carburetor Gauge and Adjustments