



STERN DRIVES/INBOARD ENGINES

NUMBER: 81-1

DATE: 2/4/81

CIRCULATE TO:
SERVICE MANAGER
PARTS MANAGER
MECHANICS

- A. MerCruiser 120 Thru 260 Lower Housing Gears
- B. MerCruiser 120 Thru 260 Heavy-Duty Gimbal Ring
- C. Propeller Hub Slippage

A. MERCUISER 120 thru 260 LOWER HOUSING GEARS

A new set of gears has been developed for the MerCruiser I drive gear housing. The pinion gear has 17 teeth and the forward/reverse gears have 28 teeth. Prior gears, which had 20/33 teeth, will be no longer available. If a replacement gear is needed, gear kit B-43-96084A4 (with 17/28 gears) must be ordered. This kit will contain the following:

Forward Gear & Needle Bearing Assembly	B-43-96084A3
Pinion Gear	B-43-92319
Reverse Gear	B-43-92320

Whenever this kit is installed, stamp or etch a "Z" in the gear housing trim tab cavity, to identify that gear housing assembly is equipped with new 17/28 gears.

Also available is a major repair kit (B-43-96084A2) which can be used to repair MerCruiser I drive gear housings. The kit has the same 17/28 gears and contains the following parts:

Forward Gear & Needle Bearing Assembly	B-43-96084A3
Bearing - Tapered Roller (Forward Gear)	C-31-35928A1
Pinion Gear	B-43-92319
Reverse Gear	B-43-92320
Bearing - Ball (Reverse Gear)	C-30-88957
Nut - Drive Shaft	C-11-35921
Seal - Propshaft (2)	C-26-76868
"O" Ring - Spool	C-25-31534
Thrust Ring	B-35915
Shim Assembly	C-15-31535A1
Shim Assembly	C-15-57007A1
Bearing - Roller (Drive Shaft)	C-31-92366
Spool Assembly - Shaft	B-66067A2

Whenever this kit is installed, also stamp or etch a "Z" in the gear housing trim tab cavity, to identify that gear housing assembly is equipped with new 17/28 gears.

Gear housing assembly, complete, Part No. 1623-5356A20 (with 17/28 gears) will be the only assembly available for MerCruiser 120 thru 260. This gear housing is identified by an "A20" etched in the gear housing trim tab cavity.

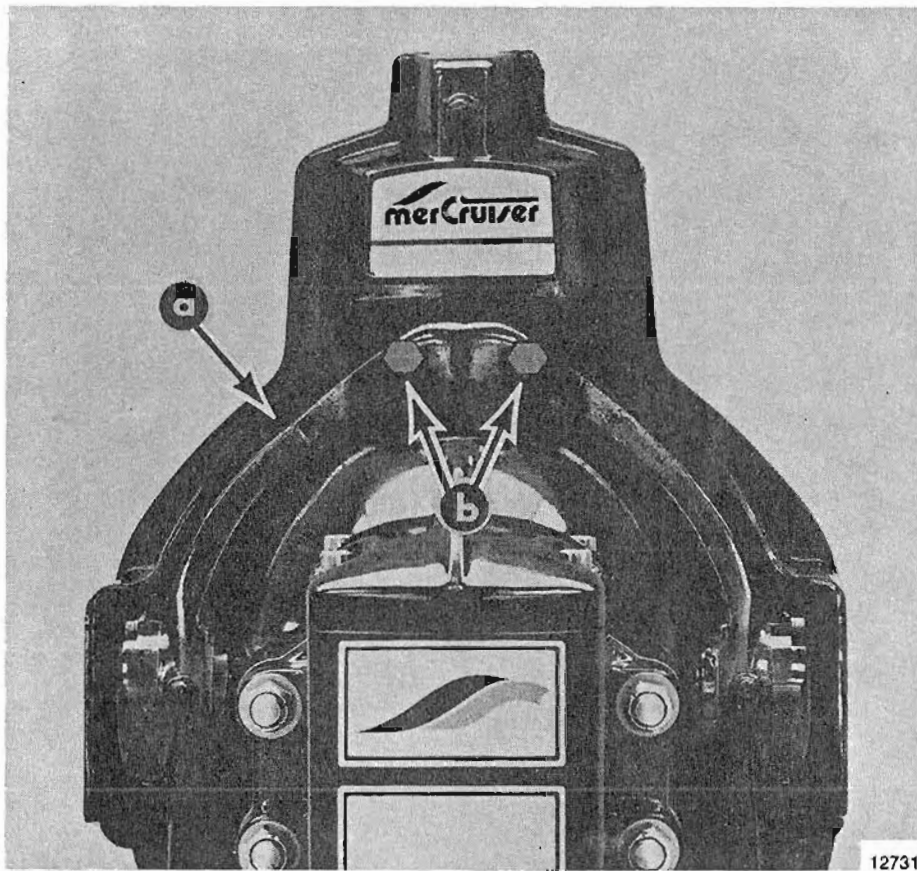
17/28 gears were used in production on 1.50:1 drives starting with Serial Number 5808719 and above. Other gear ratio drives in production will also use 17/28 gears when stock of 20/33 gears is depleted. These drives will also be identified by an "A20" in the trim tab cavity.

B. MERCUISER 120 thru 260 HEAVY-DUTY GIMBAL RING

Whenever servicing a MerCruiser 120 thru 260 with heavy-duty gimbal ring, check the torque of the gimbal ring screws (Figure 1).

Observe torque reading while using a torque wrench on the screw head but, do not hold the nut with a wrench. If screw turns before 20 lb. ft. (27.1 N.m) is obtained, then a NEW screw (10-88432) and NEW nut (11-34932) MUST BE installed. Torque to 25 lb. ft. (33.9 N.m).

Gimbal ring screws must be properly torqued or looseness in steering system can occur.



a - Gimbal Ring b - Gimbal Ring Screws

Figure 1. Heavy-Duty Gimbal Ring and Screws

C. PROPELLER HUB SLIPPAGE

If a dealer determines that a propeller hub is slipping due to a defect in material or workmanship, he should have it rehubbled by the nearest authorized Quicksilver Propeller Repair Station. Either the dealer or the Quicksilver Propeller Repair Station can submit a warranty claim for rehubbled the propeller. Mercury Marine will not issue credit or replace a propeller in which the hub is slipping, since it can be repaired. Any such propeller returned to a Regional Service Center or the factory for warranty credit will be forwarded to the nearest Quicksilver Propeller Repair Station, rehubbled and returned directly to the dealer.