

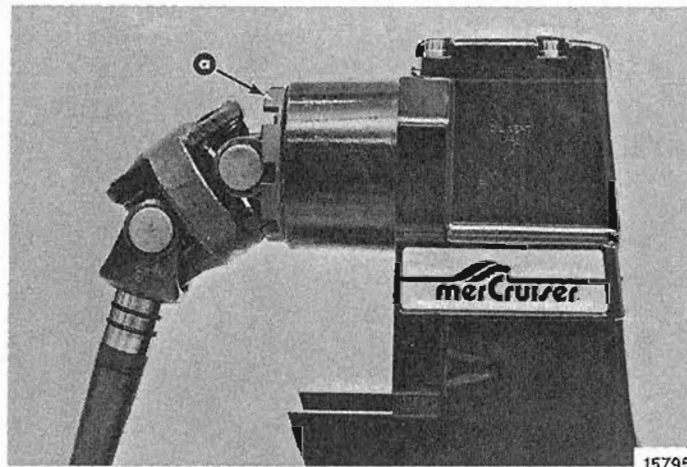
NUMBER: 83-15

- A. Torquing Universal Joint Bearing Retainer on MerCruiser I Stern Drive Units
- B. New Universal Joint Cross and Bearing Assembly for MerCruiser I, TR and TRS Models
- C. MerCruiser I Water Pocket Cover Screws Sealant Recommendation
- D. MerCruiser I Drive Shaft Housing Lower Oil Seal Supercession

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 SERVICE MANAGER
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 MECHANICS
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A. TORQUING UNIVERSAL JOINT BEARING RETAINER on MERCRUISER I STERN DRIVE UNITS

The universal joint bearing retainer (Figure 1) should be torqued to 200 lbs. ft. (271 N.m). Use the following procedure to allow torquing retainer with a torque wrench.

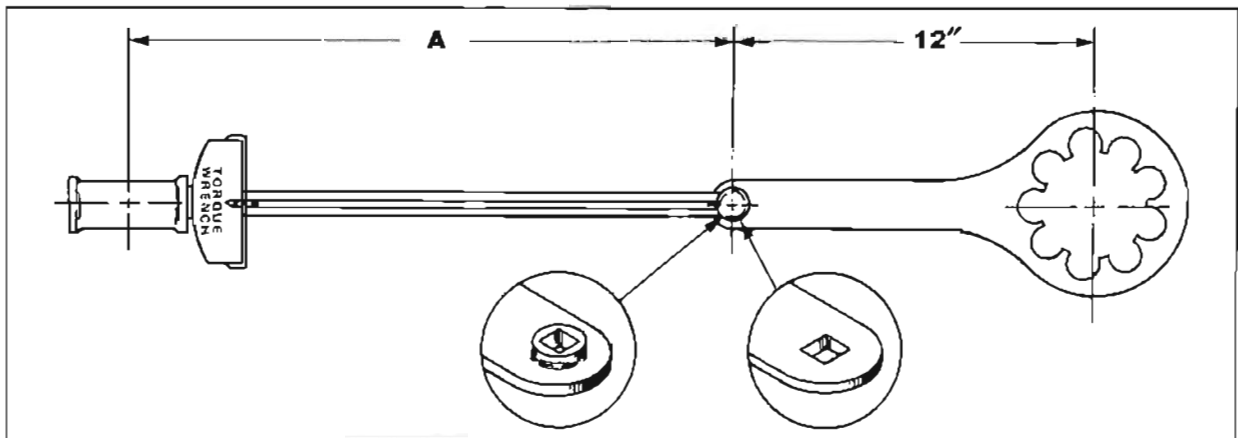


a - Retainer

Figure 1. Universal Joint Bearing Retainer

1. Machine a 1/2" (12.7mm) square in Retainer Wrench (91-36235), at location shown in Figure 2. Square MUST BE machined so that wrench will be in-line with torque wrench when installed, as shown. Square can be machined in wrench with conventional tools by first drilling a 7/16" (11.1mm) hole and then squaring out the corners with a file.

NOTE: A square can also be placed in retainer wrench by grinding off a 1/2" drive socket and welding the drive end to the wrench. (Figure 2) This method will provide a more durable connection.



a - Torque Wrench Length

Figure 2. Machining Square in Retainer Wrench (91-36235)

2. Measure length of torque wrench as follows (Figure 2):
 - On beam-type torque wrenches, measure from square drive to fulcrum (pivot) point of handle.
 - On click-stop or dial type torque wrenches, measure from square drive to reference mark on handle (2 bands, etc.).
3. Torque wrench reading will be less than actual torque being applied to retainer, due to torque reading being taken thru retainer wrench. Use the following chart to determine torque wrench reading required to properly torque retainer.

TORQUE CONVERSION CHART

Torque Wrench Length (Inches)	Torque Wrench Reading (Lbs. Ft.)
15	111
16	114
17	117
18	120
19	123
20	125
21	127
22	129
23	131
24	133
25	135
26	136
27	138
28	140
29	141
30	143
31	144
32	145
33	147
34	148
35	149
36	150

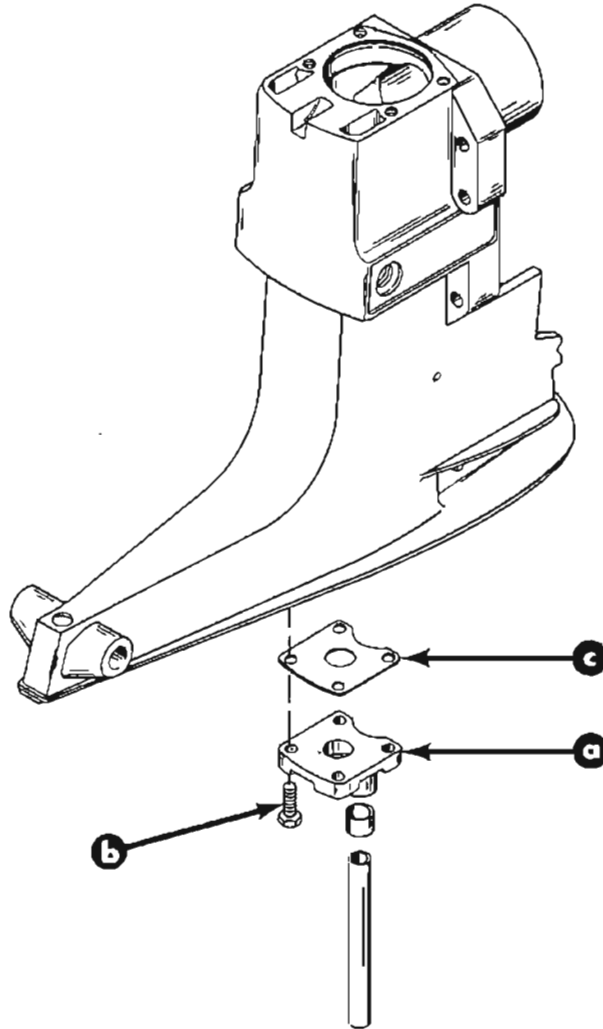
4. Torque retainer until prescribed reading is attained on torque wrench.

B. NEW UNIVERSAL JOINT CROSS and BEARING ASSEMBLY for MERCUISER I, TR and TRS MODELS

A new cross and bearing assembly (41431) has been released for use on the above models. The new assembly supersedes cross and bearing assembly (75832) and should provide improved durability. Lubricate the new cross and bearing assembly with a liberal amount of 2-4-C Multi-Lube (92-86154) prior to installation.

C. MERCUISER I WATER POCKET COVER SCREWS SEALANT RECOMMENDATION

The water pocket cover attaching screws (Figure 3) can be extremely difficult to remove when stern drives are operated in salt, polluted or mineral-laden waters. To facilitate easier removal of these screws, the screw threads are now being coated with Quicksilver Perfect Seal (92-34227) at the factory. This also should be done as a normal service practice whenever water pocket cover is removed.



- a - Water Pocket Cover
- b - Screw
- c - Gasket

Figure 3. Water Pocket Cover

D. MERCUISER I DRIVE SHAFT HOUSING LOWER OIL SEAL SUPERCESSION

The MerCruiser I drive shaft housing lower oil seal (26-37259) was superseded to seal (26-89237). This seal has now been superseded to seal (26-96503). All 3 seals are satisfactory for use in this application.