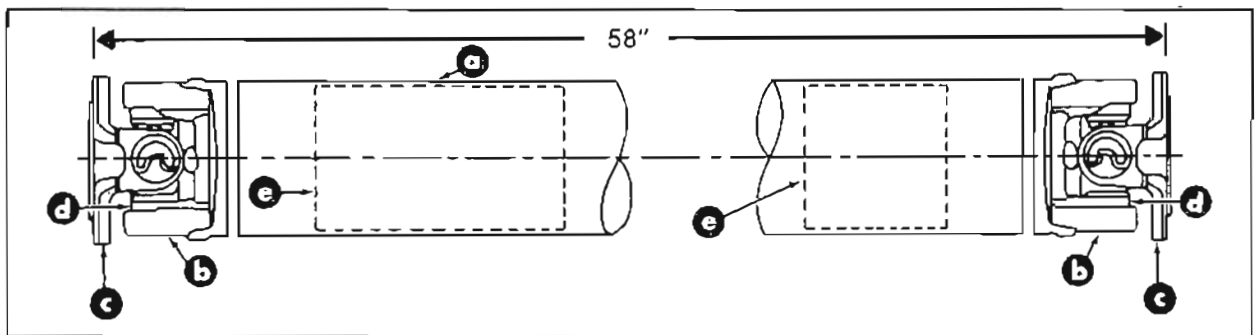


NUMBER: 83-26

- A. Replacement Drive Shafts - MCM 120R/140R/898R/228R/260R
With Extension Shaft Kit
- B. Engine Alignment Tool (91-57797A3) Modification

CIRCULATE TO:
SERVICE MANAGER
PARTS MANAGER
MECHANICS
"Place in a Service
Bulletin Binder"

A. REPLACEMENT DRIVE SHAFTS - MCM 120R/140R/898R/228R/260R WITH EXTENSION SHAFT KIT



a - Tube
b - Yoke - Tube

c - Yoke - Flange
d - Universal Joint

e - Sound Deadener (Cardboard Tube)

Figure 1. Extension Drive Shaft

Currently, MerCruiser is furnishing a standard 58" long drive shaft (Figure 1) with all Extension Shaft Models listed above. Some boat manufacturers modify the drive shafts to a shorter length. Because of this, use the following procedure to obtain replacement drive shafts.

58" Long (Standard Length) Drive Shaft:

1. The complete drive shaft or replacement universal joints and/or yoke flange can be ordered from Mercury Marine.

Drive Shafts Modified to Shorter Lengths:

⚠ CAUTION

If a boat manufacturer is currently having Extension Drive Shafts modified, they **MUST BE** modified by one of Dana Corporation - Spicer Regional Drive Shaft Centers to maintain Mercury Marine warranty. The modified drive shaft **MUST MEET** the following specifications.

- U-joints aligned radially within $0^\circ (\pm 1/2^\circ)$.
- U-joints greased after welding with Quicksilver 2-4-C Multi-Lube
- Assembly balanced to within 1.5 oz. in. to 4500 RPM.
- Tube to have .005" - .010" interference fit with tube yoke.
- Tube must be straight and round within .015" T.I.R.

IMPORTANT: Dana Corporation - Spicer Regional Drive Shaft Centers **WILL NOT** shorten replacement drive shafts for dealers or consumers.

1. The complete modified (shortened) drive shaft has to be ordered from the boat manufacturer that installed the MerCruiser Power Package.
2. Replacement universal joints and/or yoke flange (c & d - Figure 1) can be ordered from Mercury Marine.

B. ENGINE ALIGNMENT TOOL (91-57797A3) MODIFICATION

To ensure more engine coupler engagement during the alignment of MCM 470R and 488R model engines, please modify the alignment tool as shown in Figure 2. This modification will improve engine coupler engagement on the other model engines also.

IMPORTANT: DO NOT remove more than .560" from gimbal bearing area of alignment tool. This .560" dimension ensures that the gimbal bearing will straddle the existing "under cut" in alignment tool.

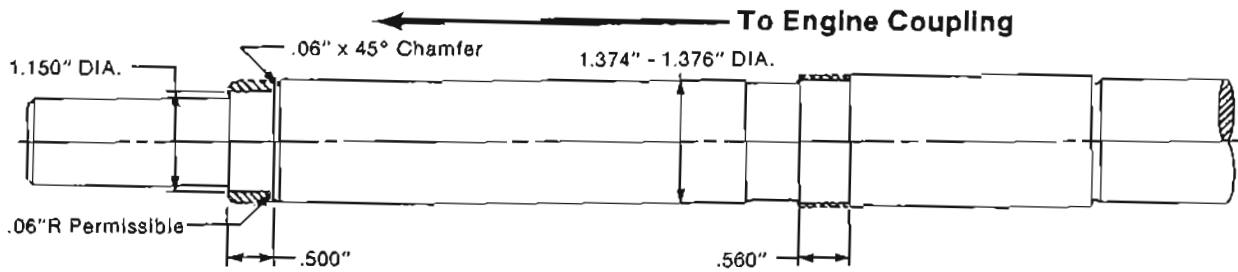


Figure 2. Alignment Tool Modification