mercruiser STERN DRIVES & INBOARDS

service bulletin

TO: SERVICE MANAGER ☐ MECHANICS ☐
PARTS MANAGER ☐

Revised 4-29-91

No. 91-4

A. 815471A3 BRAVO SHIFT CABLE REPLACEMENT KIT

Models

5.7 l/7.4L/454 Mag./502 Mag./HP465/D183 Turbo AC/D219 Turbo AC/D254 Turbo AC

Changes

All Bravo Transom Assemblies serial number OD542204 and prior require enlarging the bell housing shift cable retainer hole from 3/8" (.375) (9.525mm) to 7/16" (.437) (11.113mm) explained following.

Tools Required

91-818836A1 Service Tool Kit

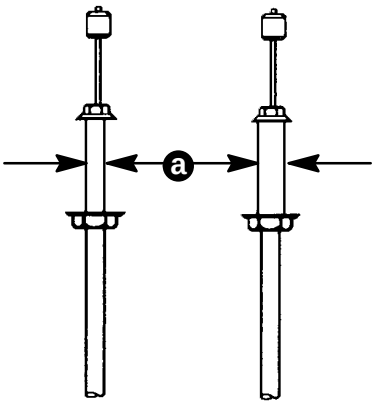
Explanation

This shift cable is designed for use as a replacement for all previous style shift cables on all Bravo Transom Assemblies.

NOTE: All Bravo Transom Assemblies, Serial Number OD542205 and above, will already have this latest style shift cable installed.

Instructions for Installation

1. Remove Stern Drive and Shift Cable as outlined in the appropriate sections of the Bravo Stern Drive Unit, Service Manual.
2. Compare the shift cable that was removed from the unit with the replacement shift cable.
   a. If diameter "a" is equal on both the removed cable, and the replacement cable, install the replacement cable as outlined in the Bravo Stern Drive Unit, Service Manual. Disregard all of the following instructions.
   b. If the diameter "a" is larger on the replacement shift cable than on the removed shift cable, proceed with the following instructions.



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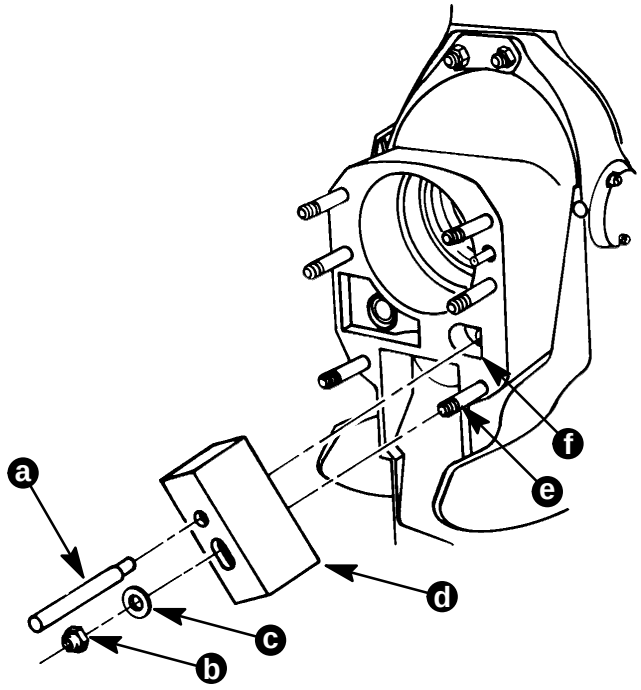
Bell Housing Preparation

1. Assemble the slotted hole of the drill bushing tool over the lowest stud closest to the Bell Housing shift cable bore.
2. Assemble the alignment rod through the round 7/16 in. hole of the bushing tool and into the Bell Housing shift cable bore. Make sure that it is seated fully into the bore.
3. Clamp these into place using one of the nuts and washers that hold the Stern Drive unit to the Bell Housing.



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a - Alignment Rod
b - Nut
c - Washer
d - Bushing Tool
e - Bell Housing Stud
f - Bell Housing

4. Using the 7/16 in. drill provided with the service tool kit, P/N 91-818836A-1, drill through the 7/16 in. hole of the bushing tool and through the Bell Housing shift cable bore.

The drill used to drill this hole must be sharp, without nicks, straight, and have a 118° point. Failure to use the proper drill may cause a rough surface in the newly drilled hole. This could cause water to leak through the Bell Housing and into the Drive Shaft Housing, which could cause premature failure to the shift components.

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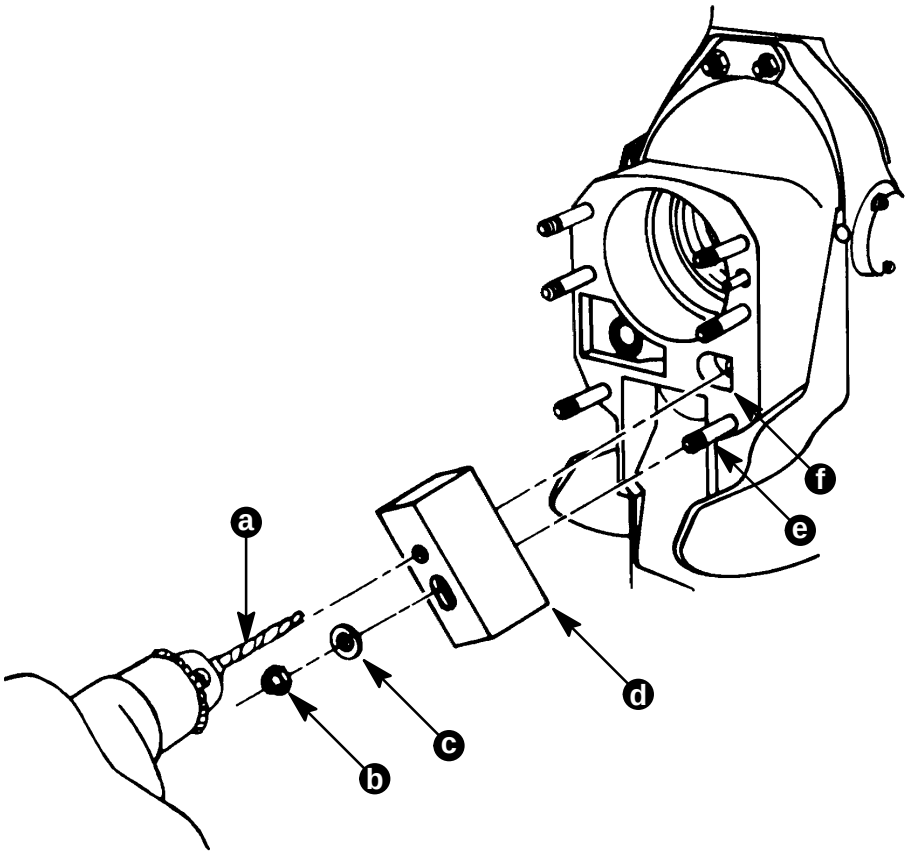

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a - Drill
b - Nut
c - Washer
d - Bushing Tool
e - Bell Housing Stud
f - Bell Housing

5. Remove bushing tool and clean Bell Housing of all debris. Grease the newly drilled hole with 2-4-C Marine Lubricant.

6. Install the new cable as outlined in the Bravo Stern Drive Unit, Service Manual.

Warranty:

This new shift cable is offered as a product improvement and is not covered by warranty to up-grade previous models.

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