



# MERCUISER SERVICE BULLETIN

Section: 2 (Installation)

Number: 65-38

Date : 7/27/65

## Attaching Shift Cable - MerCruiser IA-IB-IC with E-Z Shift

### ATTACHING SHIFT CABLE - MERCUISER IA-IB-IC with E-Z SHIFT

*NOTE: Before proceeding with the following instructions, install remote control and throttle and shift cables as outlined in the instructions which accompany the remote control.*

*IMPORTANT: Remote control shift cable may be installed in 2 different ways, depending upon location of remote control station. If remote control is mounted on right (starboard) side, proceed with instructions under "1" following. If remote control is mounted on left (port) side of boat, proceed with instructions under "2" following.*

#### 1. Remote Control Mounted on Right (Starboard) Side

*NOTE: To avoid pre-loading shift cable when making cable adjustments, it will be necessary to lock "out" shift cutout switch lever for correct attachment of shift cable. Place plain washer (C-12-22753) between shift cutout switch lever & inner transom plate. Place screw (C-10-25299) (5/16-18x3/4") and lockwasher (C-13-26993) thru hole in shift cutout switch lever (Figure 4) & tighten into inner transom plate.*

- a. Move shift lever to right (when viewing lever from inside boat) as far as it will go. (Figure 1) This shifts stern drive unit into forward gear. While shifting, turn propeller shaft counterclockwise until shaft stops, to insure full clutch engagement.

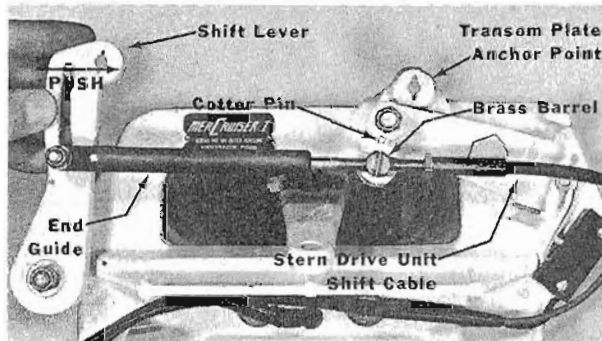


Figure 1. Shifting into Forward Gear

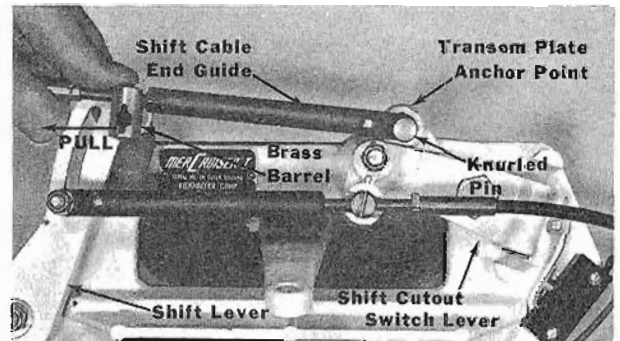


Figure 2. Adjusting Brass Barrel

- b. Move remote control handle to full forward position.
- c. Anchor remote control shift cable end guide to transom plate anchor point with knurled pin. Pull outer conduit away from cable guide, to eliminate slack in cable, and adjust brass barrel on remote control shift cable to align with mounting hole in shift lever. (Figure 2)
- d. Fasten brass barrel with cap screw, spacer, washers and nut. Tighten nut securely. (Figure 3)
- e. Disconnect knurled pin which fastens remote control shift cable end guide to transom plate anchor point.
- f. Move remote control handle to full reverse position.
- g. Manually move shift lever to left (when viewing lever from inside boat) as far as it will go. (Figure 4)

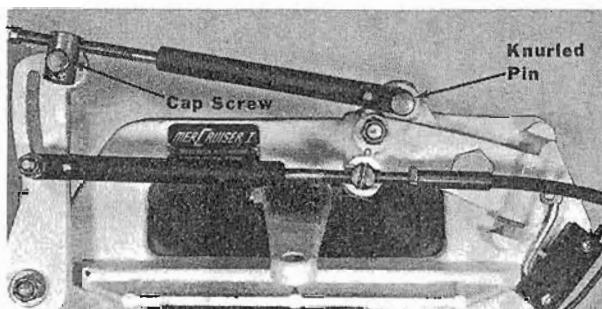


Figure 3. Shift Cable Installed

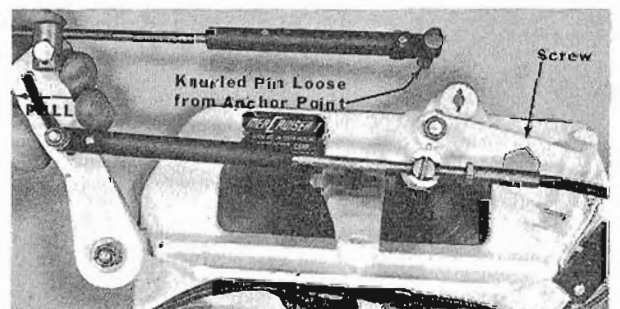


Figure 4. Shifting into Reverse Gear

(OVER)

This shifts stern drive unit into reverse. While shifting, rotate propeller shaft clockwise until shaft stops (to insure full clutch engagement).

- h. Move end guide of stern drive shift cable up slot in shift lever until knurled pin in cable end guide of remote control shift cable can be reinstalled. (Figure 5)
- i. Securely tighten nut on stud which fastens stern drive cable end guide to shift lever.

*NOTE: Remove screw and washers which previously were installed thru shift cutout switch lever. (Figure 5)*  
This completes installation of shift cable where the remote control is mounted on the right (starboard) side of the boat.

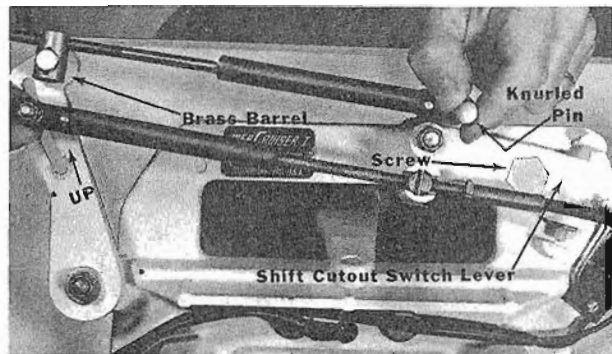


Figure 5. Locating Guide & Anchoring Cable

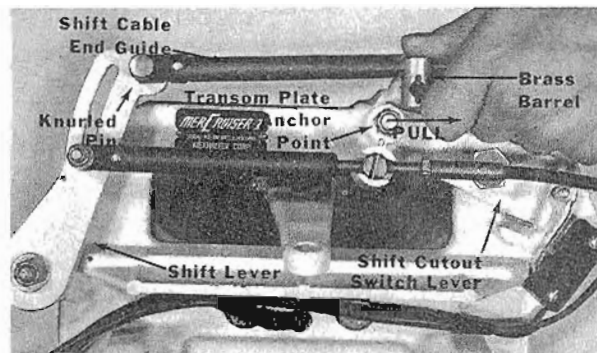


Figure 6. Adjusting Brass Barrel

## 2. Remote Control Mounted on Left (Port) Side of Boat

*NOTE: To avoid pre-loading shift cable when making cable adjustments, it will be necessary to lock "out" shift cutout switch lever for correct attachment of shift cable. Place plain washer (C-12-22753) between shift cutout switch lever & inner transom plate. Place screw (C-10-25299) (5/16-18x1/4") & lock-washer (C-13-26993) thru hole in shift cutout switch lever (Figure 8) & tighten into inner transom plate.*

- a. Move shift lever to right (when viewing lever from inside boat) as far as it will go. (Figure 1) This shifts stern drive unit into forward gear. While shifting, turn propeller shaft counterclockwise until shaft stops (to insure full clutch engagement).
- b. Move remote control to full forward.
- c. Anchor remote control shift cable end guide to shift lever with knurled pin. (Figure 6) Pull outer conduit away from cable guide, as far as possible, and adjust brass barrel on remote control shift cable to align with mounting hole in transom plate anchor point.

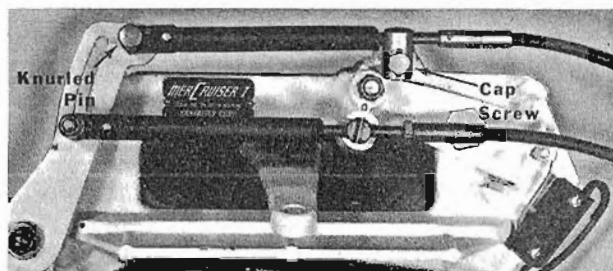


Figure 7. Shift Cable Installed

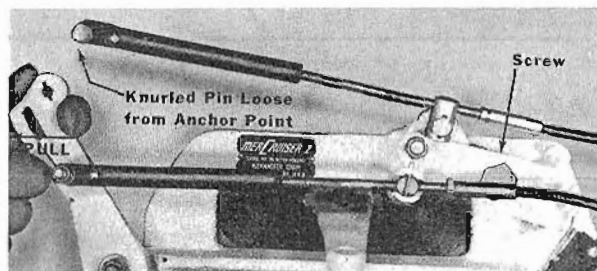


Figure 8. Shifting into Reverse Gear

- d. Fasten brass barrel with cap screw, spacer, washers and nut. Tighten nut securely. (Figure 7)
- e. Disconnect knurled pin which fastens remote control shift cable end guide to shift lever.
- f. Move remote control handle to full reverse.
- g. Manually move shift lever to left (when viewing lever from inside boat) as far as it will go. (Figure 8) This shifts stern drive unit into reverse. While shifting, rotate propeller shaft clockwise until shaft stops (to insure full clutch engagement).
- h. Move end guide of stern drive shift cable up slot in shift lever until knurled pin in cable end guide of remote control shift cable can be reinstalled. (Figure 9)
- i. Securely tighten nut on stud which fastens stern drive cable end guide to shift lever.

*NOTE: Remove screw and washers which were previously installed thru shift cutout switch lever. (Figure 5)*

This completes installation of shift cable where the remote control is mounted on the left (port) side of the boat.

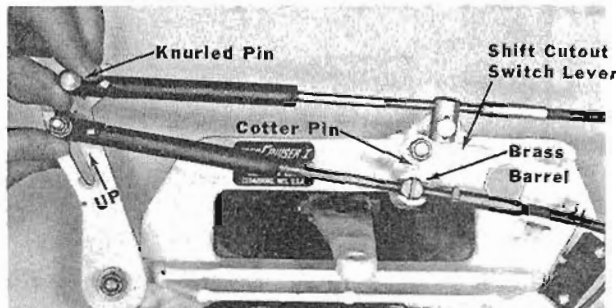


Figure 9. Locating Guide & Anchoring Cable