



CIRCULATE TO:	SERVICE MGR.	PARTS MGR.	MECHANICS	Place in Your "Service Bulletins Binder"
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A. Power Trim Limit Switch and Indicator Sender Operation on MerCruiser 120-thru-233

B. Trim Tab Length on MerCruiser 120-thru-233

A. POWER TRIM LIMIT SWITCH and INDICATOR SENDER OPERATION on MERCRUISER 120-thru-233

(Attach Bulletin Reference Sticker to PP 7A-13 and 10-60 of Your Service Manual.)

If there is erratic operation or no-function of the trim limit switch or trim indicator sender on Power Trim, check the following:

ELECTRICAL TEST

Trim Limit Switch B-63115A2

1. Connect continuity meter to switch leads. Meter should read continuity.
2. Actuate Power Trim. At approximately 1/3rd Power Trim travel, switch should open and meter should show NO continuity. If switch does not operate, remove switch from gimbal ring and operate manually. If switch still shows a short, replace switch. Also be sure that the "Mechanical Check", below, is satisfactory.

Trim Indicator Sender B-63115A12 (Single Station) and B-63115A13 (Dual Station)

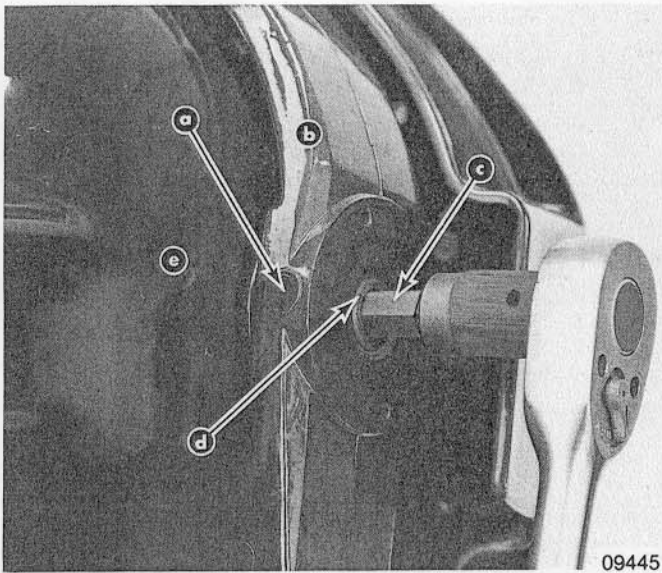
1. Connect continuity meter to sender leads.
2. Meter should indicate an even movement between zero and approximately 160 ohms for single station sender and between zero and approximately 80 ohms for dual station sender. Further rotation will carry resistance value beyond 160 ohms (this is normal). If erratic or no needle movement is noted, remove the sender from the gimbal ring and operate manually. If meter movement still is erratic or has no meter movement, replace and adjust a new sender. Also be sure that mechanical check, below, is satisfactory.

MECHANICAL TEST

For Trim Limit Switch AND Trim Indicator Sender

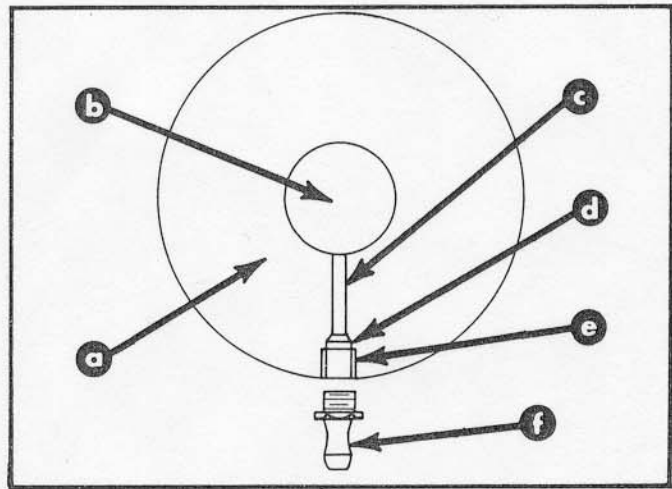
1. Remove trim limit switch or trim sender from gimbal ring.
2. Trim drive unit and observe the hinge pin. Hinge pin should move with the bell housing assembly. If the hinge pin does not move, complete the following:
 - a. Use heat directly on hinge pin to aid in removal from bell housing and gimbal ring (one each side, Figure 1)
 - b. Following drilling instructions in Figure 2 to install grease fittings (C-22-74036) in gimbal ring (one each side).

(OVER)



- a - Locate and Drill Hole for Grease Fitting in Center of Round Boss on Each Side of Gimbal Ring
- b - Gimbal Ring
- c - Hex Driver
- d - Hinge Pin (One Each Side)
- e - Bell Housing

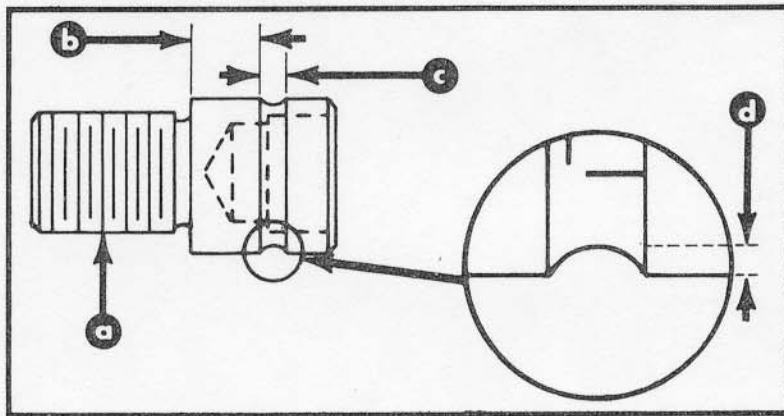
Figure 1. Removing Hinge Pin; Location for Grease Fitting Hole



- a - Rotary Switch Mounting Area
- b - Hinge Pin
- c - .093" (3/32") Dia. Drill thru One Wall
- d - No. 3 (.213", 7/32" Dia.) Drill - 9/32" (7.1mm) Deep
- e - 1/4-28 UNF - 2B Tap - 7/32" (5.6mm) Deep (2 Places)
- f - C-22-74036 Grease Fitting

Figure 2. Drilling Hole for Grease Fitting (C-22-74036)

- c. After grease fitting is installed, use a 5/8"-18 tap to clean threads in bell housing, then spray with Locquic Primer "T" (C-92-59327) or equivalent.
- d. Grind a groove in hinge pin, not to exceed dimensions shown in Figure 3, to allow grease to flow around the hinge pin. Wire brush the hinge pin threads and spray with Locquic Primer "T" or equivalent, then apply Loctite No. 35 (C-92-59328) or equivalent.
- e. Reinstall hinge pin(s) and torque to 40-to-50 ft. lbs. (5.5-to-6.9mkg).
- f. Grease hinge pins with Anti-Corrosion Grease (C-92-73760) or equivalent.



- a - Hinge Pin
- b - 23/64" (9.1mm)
- c - 1/8" (3.2mm)
- d - 1/32" (0.8mm) Max.

Figure 3. Groove in Hinge Pin

B. TRIM TAB LENGTH on MERCUISER 120-thru-233

(Attach Bulletin Reference Sticker to P. 1A-15 of Your Service Manual.)

All MerCruiser 120-thru-233 drive units now are being shipped with the short trim tab [approximately 2 1/4" (57mm) long]. This length has proven to be the best in the majority of boat applications.

If the longer trim tab [approximately 4" (10cm) long] is required for a given installation, order the following number:

C-34127A1

Long Trim Tab (Approx. 4")