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A. MERCURISER 255II-TR and 280II-TRS SHIFT ACTUATOR MOTOR

(Attach Bulletin Reference Sticker to P. 7C-23 of Your New Service Manual.)

Some MerCruiser 255TR and 280TRS shift actuator motors do not have proper end play adjustment, which could cause shift actuator switch assembly life to be reduced.

Inspect all 255II-TR and 280II-TRS units with Serial No. 4175500 thru 4176704 during the 20-hour check or when performing normal maintenance.

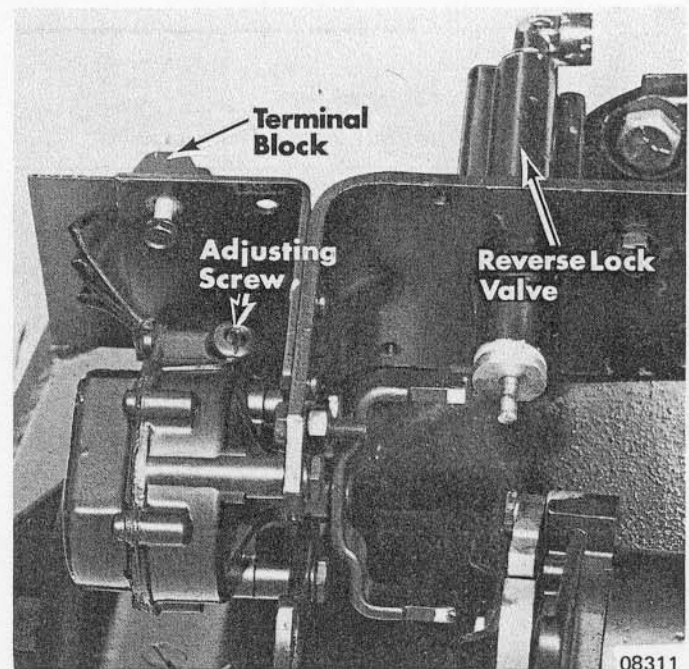
INSPECTION

1. Remove shift motor cover.
2. Adjusting screw (Figure 1) must be below or flush with housing. If screw protrudes above housing, use the following adjusting procedures.

ADJUSTMENT

1. Turn adjusting screw in until tight, then back off screw ½-turn. (Figure 1)
2. Coat adjusting screw with Liquid Neoprene (C-92-25711) to prevent adjusting screw from moving.
3. Install shift motor cover.

Figure 1. Adjusting Screw Location



B. NEUTRAL START BUTTON on SHIFT CONTROLS C-68831A1 and C-68832A1

(Attach Bulletin Reference Sticker to Updated P. 7C-16 [375R1] of Your New Service Manual.)

The neutral start button (C-62231) on shift controls C-68831A1 and C-68832A1 may not depress enough to disengage shift cam and allow throttle operation ONLY. If this occurs, replace neutral start button C-62231 with new button C-74326.

Neutral start button C-62231 still can be used on older style shift controls.

C. MERCURISER STERN DRIVE OIL RESERVOIR KIT (B-69622A2)

(Attach Bulletin Reference Sticker to P. 1C-6 of Your New Service Manual.)

INSTALLATION

Before installing Oil Reservoir Kit (B-69622A2), inspect drive shaft housing to determine on which side of housing oil vent hole is located. Use dimensions on Installation Instructions (C-90-71348) to locate and drill hole for inlet cover in transom on the same side as the oil vent hole. If there is an oil vent hole on both sides of drive shaft housing, oil reservoir kit can be installed on either side.

FILLING STERN DRIVE UNIT

When filling stern drive unit with Oil Reservoir Kit B-69622A2 installed, the oil reservoir cap first must be removed. Drive unit must be filled thru "Fill" plug in gear housing until oil level reaches "Full" mark on oil reservoir, then re-install reservoir cap.

Drive unit CANNOT be filled thru oil reservoir, because air will be trapped in gear housing, thus preventing drive unit from being filled completely.

D. POWER TRIM and TILT CYLINDER REPAIR KITS

(Attach Bulletin Reference Sticker to P. 7A-15 of Your New Service Manual.)

The following is a list of repair parts available for MCM 60-80-90-120-140 and 160 tilt cylinders. Instructions are included.

NOTE: Early MCM I, IA, IB, IC and IA-IB-IC EZ Shift and MCM II tilt cylinders cannot be repaired and must be replaced as an assembly.

Part No.	Description
B-38592A1	"O" Ring & Scraper Kit (All Models)
B-38599A1	Shock Piston Assembly (All Models)
B-38591	End Cap (All Models)
B-38595	Seal Retainer (All Models)
B-38589	Pivot End (MCM 80 to 160 Only)
B-45375A3	Outer Tube Assembly (MCM 80 & 90 Only)
B-45595A3	Outer Tube Assembly (MCM 120-140-160 Only)

The following parts are for repair of all MCM 120 thru 233 trim cylinders B-45706A1, B-45706A3, and B-45706A6.

Part No.	Description
B-45522A3	Overhaul Kit
B-25-60342A2	"O" Ring Kit
B-45523	End Cap
B-45522	Pivot End
B-45726	Bearing, Piston Rod
B-45706A4	Outer Tube Assembly

The following is a list of kits and parts available for MCM II (1.78:1), 215H, 215E, III, 225-255II-TR and 255-280TRS Power Trim Cylinders B-47342A1, A2, A3, A4, A6, A7 and A12. Trim cylinders, that require piston rod replacement, must be considered totally damaged and beyond economical repair.

Part No.	Description
B-25-47389A1	"O" Ring Kit, Includes "O" Ring, Scraper and Instructions
B-47348A1	Shock Piston Assembly, Does Not Include "O" Rings
B-47342A9	Outer Cylinder Assembly, Long for A1, A3, A6, A7 and A12 Cylinders
B-32-47387A1	Inner Cylinder, Tube, Long (12-31/64" [31.7cm]) for A1, A3, A6 and A7 Cylinders
B-47342A10	Outer Cylinder Assembly, Short for A2 and A4 Cylinders
B-32-49275A1	Inner Cylinder Tube, Short, (10-7/64" [25.7cm]) for A2 and A4 Cylinders
B-55824	Piston Rod Bearing
B-55825A1	End Cap Assembly
B-47343	Pivot End
B-23-57093A1	Bushing Kit

E. HYDRAULIC and PNEUMATIC REPAIR KITS

(Attach Bulletin Reference Sticker to P. 7A-15 of Your New Service Manual.)

Kit Part No.	Description
C-25-38893A1	Sender Repair Hydraulic Shift (MCM 60, 80, 90)
C-25-38894A1	Receiver Repair Hydraulic Shift (MCM 60, 80, 90)
C-25-48177A1	Hydraulic Trim Indicator Sender (MCM 120 thru 233)
C-25-48283A1	Hydraulic Trim Indicator Sender (MCM III)
C-25-36324A1	Power Steering Cylinder (B-36259A1)
C-25-58224A1	Power Steering Cylinder (B-52777A1 and A2)
C-25-58226A1	Power Steering Control Valve
C-25-36125A2	Power Shift Assembly

F. NEW UNIVERSAL JOINT GREASE and GREASE GUN

(Attach Bulletin Reference Sticker to P. 9A-6 and 9A-8 of Your New Service Manual.)

A special grease has been developed to extend the life of universal joints on MerCruiser Stern Drives. A plunger type grease gun and cartridges with universal joint grease will be color-coded silver, because universal joint greases are not compatible with other lubricants.

C-91-74057A1	Universal Joint Grease Gun & Grease (3 cartridges)
C-92-74058A1	Universal Joint Grease (package of 3 cartridges)

G. ERRATIC IGNITION TIMING - MCM 280 (Serial No. 4176549 and Below)

(Attach Bulletin Reference Sticker to P. 3B-1 of Your New Service Manual.)

If tachometer and dwell on MCM 280 (Serial No. 4176549 and below) fluctuate at wide-open throttle, the problem could be breaker point spring tension. Published specifications are 17 to 21 oz. (.48 to .59kg). New service stock breaker points (B-87-71831) should measure 28 to 32 oz. (.79 to .91kg) of spring tension, a reading that is considered the new spring tension specification for new replacement part B-87-71831 now in stock. The new breaker assembly will prevent point float.

B-87-71831	Breaker Points, MCM 280 (Serial No. 4176549 and Below)
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