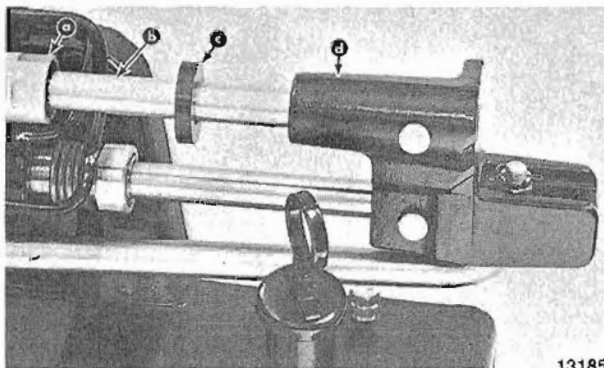


## POWER STEERING OPERATION CHECK On V-8 and IN-LINE ENGINES

It is recommended that, whenever servicing a MerCruiser engine package (equipped with Power Steering), you check the Power Steering for a lugging condition. If the steering system is installed so that Power Steering pump lugs when steering wheel is turned to end of its travel in either direction (hard right or left), damage to the drive and/or Power Steering pump could occur. Release steering wheel immediately, if pump lugs when performing the following checks. Pump lugging is identified by a drop in engine RPM, excessive noise from Power Steering pump and/or Power Steering pump belt slippage.

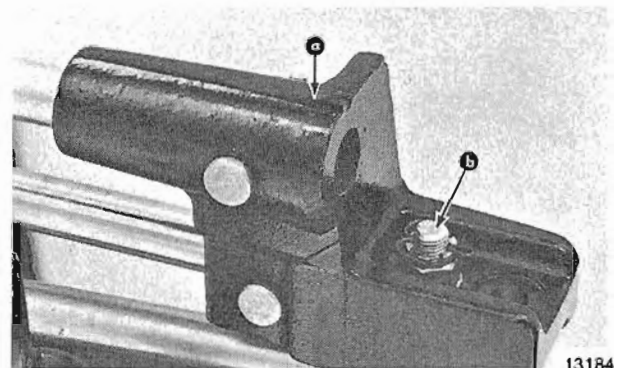
### CHECK for LUGGING CONDITION

1. Start engine and allow it to idle.
2. Turn steering wheel to hard left and observe engine RPM. If pump lugs while in hard left turn, check —
  - a. That steering lever is not contacting cutout in transom. If contact is being made, modify cutout.
  - b. If ("a"), above, is not the cause, then install spacer (C-12-62402) over steering cable so that spacer is between cable guide tube and cable end adaptor. (Figure 1)
  - c. On In-Line Power Steering ONLY, check that Power Steering unit mounting bracket is butted against inner transom plate, as shown in Figure 4. If not, redrill mounting holes and move bracket.



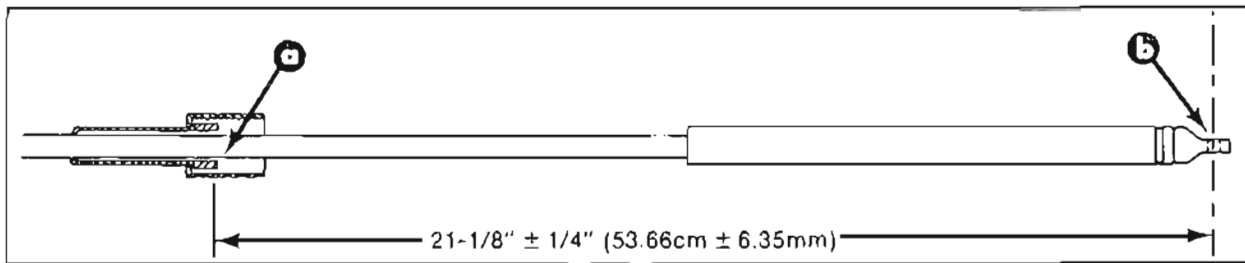
a - Cable Guide Tube      c - Spacer  
b - Steering Cable      d - Cable End Adaptor

Figure 1. Spacer Installed



a - Cable End Adaptor  
b - Steering Link Rod

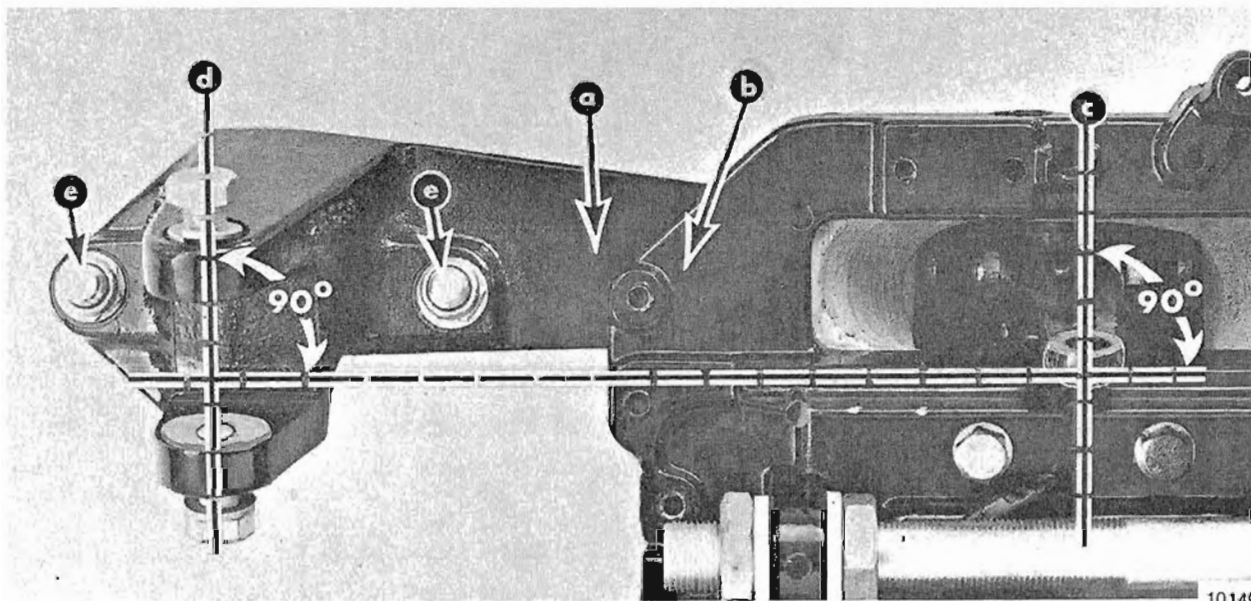
Figure 2. Proper Steering Link Rod Installation



- a - Steering Cable Mounting Flange
- b - Center of Hole in Steering Cable End

**Figure 3. Checking Steering Cable End Dimension (with Cable Fully Extended)**

3. Turn steering wheel to hard right and observe engine RPM. If pump lugs while in hard right turn, check —
  - a. That steering lever is not contacting cutout in transom. If contact is being made, modify cutout.
  - b. On V-8 Power Steering ONLY, check that steering link rod is installed in the inner-most hole of the cable end adaptor. (Figure 2)
  - c. If ("a" or "b"), preceding, is not the cause, remove steering cable from Power Steering unit and check steering cable end dimension with cable FULLY EXTENDED. (Figure 3) Dimension from steering cable mounting flange (that butts against guide tube) to center of hole in steering cable end MUST BE  $21\frac{1}{8}'' \pm \frac{1}{4}''$  ( $53.66\text{cm} \pm 6.35\text{mm}$ ). If dimension is incorrect, replace cable.



- a - Power Steering Unit Mounting Bracket
- b - Inner Transom Plate
- c - Imaginary Vertical Centerline of Engine
- d - Imaginary Line Running thru Center of Bolt Holes
- e - Mounting Bolts

**Figure 4. Correct Position of Power Steering Mounting Bracket**