



STERN DRIVES/INBOARD ENGINES

service bulletin

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CIRCULATE TO:
SERVICE MANAGER
PARTS MANAGER
MECHANICS

A. In-Line Power Steering Control Valve Position
B. New Torquing Tool C-91-89035

A. IN-LINE POWER STEERING CONTROL VALVE POSITION

(Attach Bulletin Reference Sticker to P. 7B-11 of Your Service Manual.)

There is a possibility that some In-Line Power Steering kits have been shipped from the factory with the control valve assembly not properly aligned. This misalignment causes difficulty when installing the pressure hoses (coming from the pump) because of interference with steering cable mounting tube.

The control valve assembly **MUST BE** positioned so that the head of cross-screw contacts the Power Steering clamping collar, as shown in Figure 1.

Adjust control valve, using one of the following procedures:

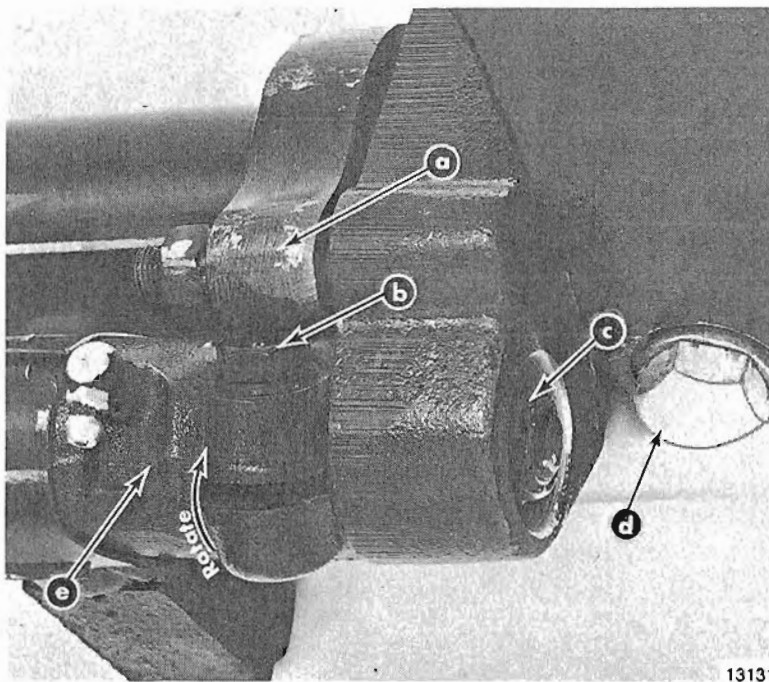
POWER STEERING NOT INSTALLED ON BOAT: Loosen (do not remove) both metal hydraulic tube nuts which are attached to control valve. (Figure 2) Loosen large retaining nut [located in clamping collar (Figure 1)] and rotate valve assembly until head of cross-screw contacts the clamping collar. Retorque the retaining nut to 30 ft. lbs. (4.15mkg) while holding control valve in position. Retighten hydraulic tube nuts securely.

POWER STEERING INSTALLED ON BOAT:

PROCEDURE A: Loosen (do not remove) both metal hydraulic tube nuts which are attached to control valve. (Figure 2) If boat construction will allow, loosen cross-screw (Figure 1) only enough to allow valve assembly to rotate, then rotate valve assembly until head of cross-screw contacts the clamping collar. Retorque cross-screw securely [25 ft. lbs. (3.46mkg)]. Retighten hydraulic tube nuts securely.

PROCEDURE B: Loosen (do not remove) both metal hydraulic tube nuts which are attached to control valve. (Figure 2) If boat construction does **NOT** allow the use of "procedure A", preceding, remove pivot screw (Figure 1 or 2) to allow loosening of retaining nut. Now loosen large retaining nut [located in clamping collar (Figure 1)] and rotate valve assembly until head of cross-screw contacts clamping collar. Retorque retaining nut to 30 ft. lbs. (4.15mkg) while holding control valve in position. Retighten hydraulic tube nuts securely.

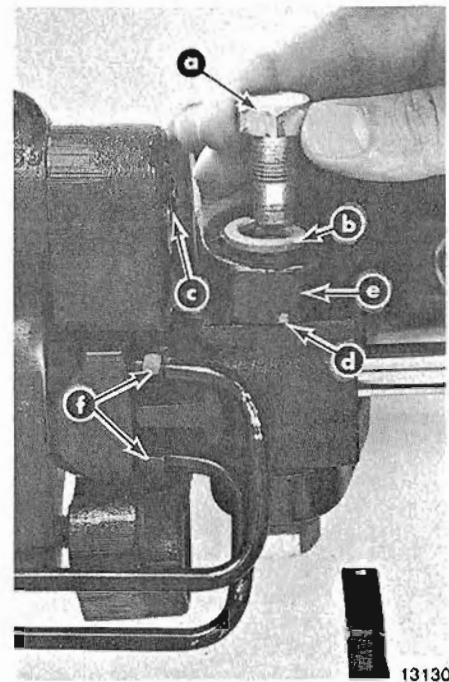
Clean threads of pivot screw that was removed earlier. Apply a light coat of Quicksilver 101 Lubricant (C-92-79214) on pivot end (unthreaded portion) of pivot screw, being careful not to get lubricant on screw threads. Apply Loctite Type "A" (C-92-32609) to threaded portion of pivot bolt. Install pivot bolt with lockwasher, making sure that flat washer is located under mounting bracket, as shown in Figure 2. Torque pivot bolt to 45 ft. lbs. (6.22mkg).



13131

- a - Clamping Collar
- b - Cross-Screw
- c - Retaining Nut
- d - Pivot Screw
- e - Control Valve Assembly

Figure 1. Alligning Control Valve



13130

- a - Pivot Screw
- b - Lockwasher
- c - Retaining Nut
- d - Flat Washer Location
- e - Mounting Bracket
- f - Hydraulic Tube Nuts

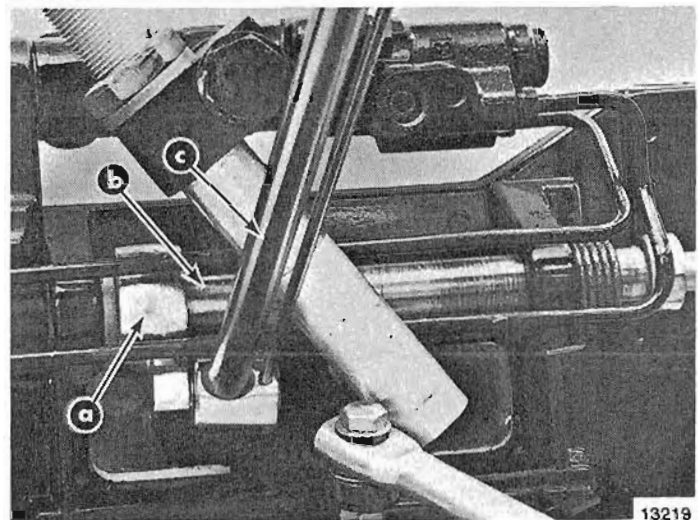
Figure 2. Pivot Bolt and Washers

B. NEW TORQUING TOOL C-91-89035

(Attach Bulletin Reference Sticker to P. 7B-11 of your Service Manual.)

Whenever it is necessary to torque the large nut on the V-8 Power Steering mounting tube, it is recommended to use Tool C-91-89035, as shown in Figure 3.

Tool is available now. Order yours today.



13219

- a - Tool C-91-89035 Installed on Nut
- b - Power Steering Mounting Tube
- c - Torque Wrench

Figure 3. Torquing V-8 Power Steering Mounting Nut