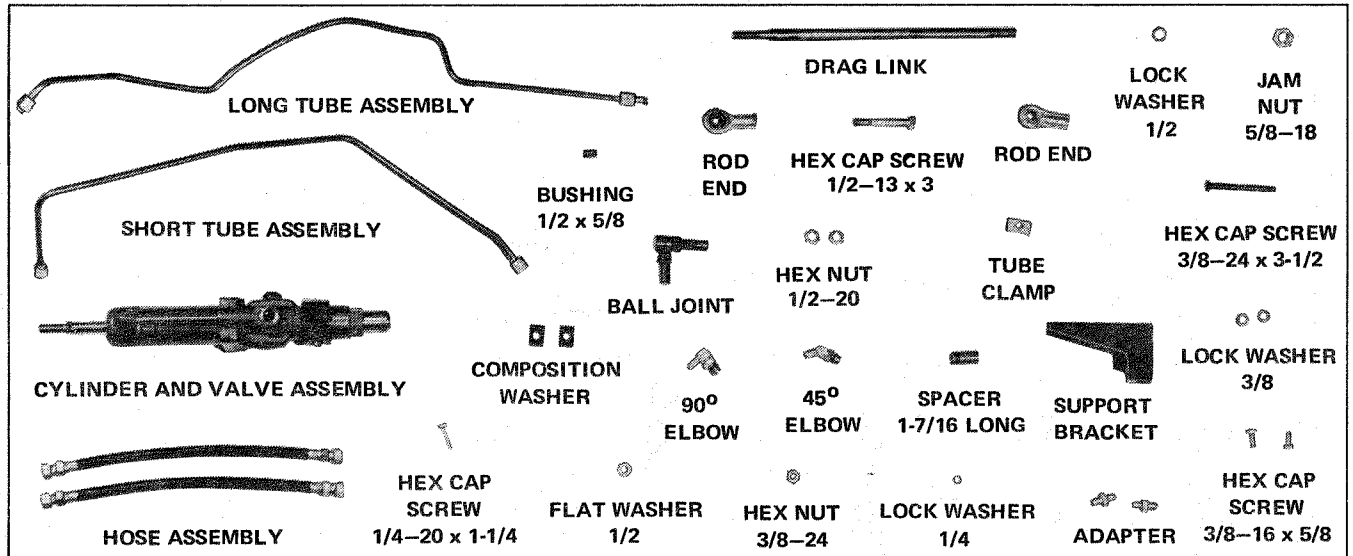


Installation Instructions



FOREWORD

This Power Steering Kit is shipped complete with all the parts required to mount it to your tractor.

NOTE: WHEEL SPACERS MUST BE USED WITH ALL TYPES OF FRONT WHEELS WHEN USING THIS KIT.

ASSEMBLY

Check toe-in of front wheels and correct if necessary.

1. Disconnect negative (-) battery cable.
2. Remove seat and fender assembly.

NOTE: IF TRACTOR HAS OIL COOLER KIT INSTALLED OMIT STEPS 3 THROUGH 6.

3. Remove discharge line from hydrostatic and control valve. See figure 1.

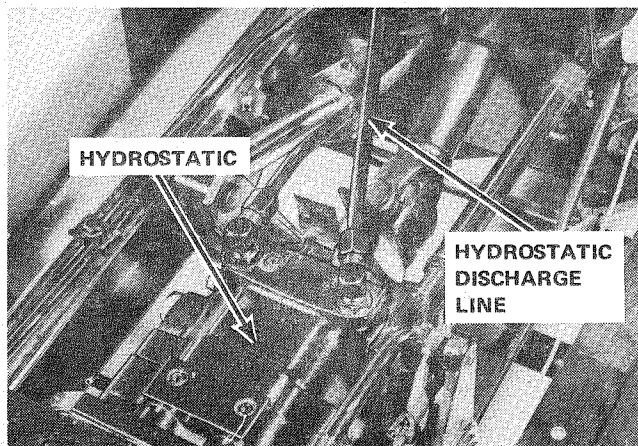


Figure 1

NOTE: A 11/16" CROW FOOT WRENCH WITH A 3/8" UNIVERSAL JOINT AND LONG EXTENSION MAY BE NEEDED TO REMOVE THE FITTING FROM THE CONTROL VALVE.

4. Position long oil tube assembly as shown in Figures 2 and 3. This tube runs along the right side of steering column.

NOTE: TO PREVENT THE FITTINGS FROM SLIDING DOWN THE TUBES DURING INSTALLATION, TAPE SHOULD BE WRAPPED AROUND THE TUBE BELOW THE FITTINGS.

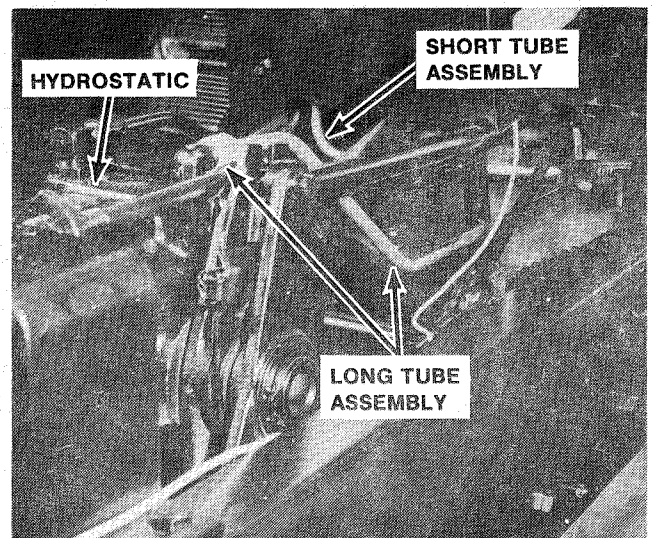


Figure 2

5. Install short tube assembly. Connect to port on control valve from which hydrostatic line was removed in step 3. See figures 3 and 4.

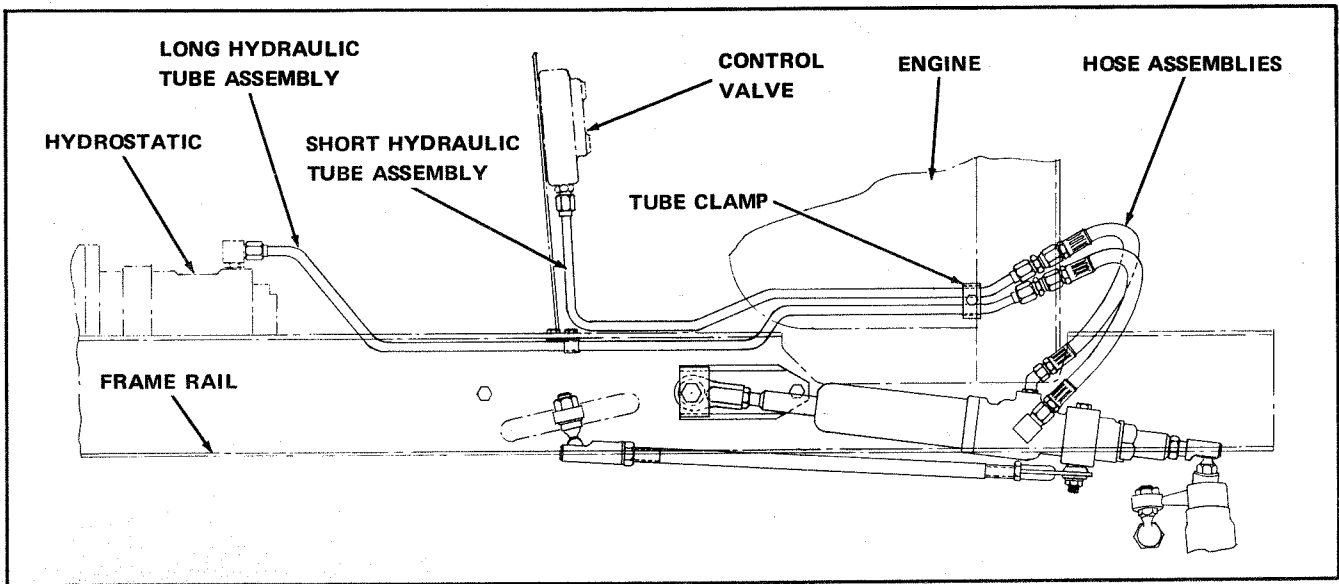


Figure 3

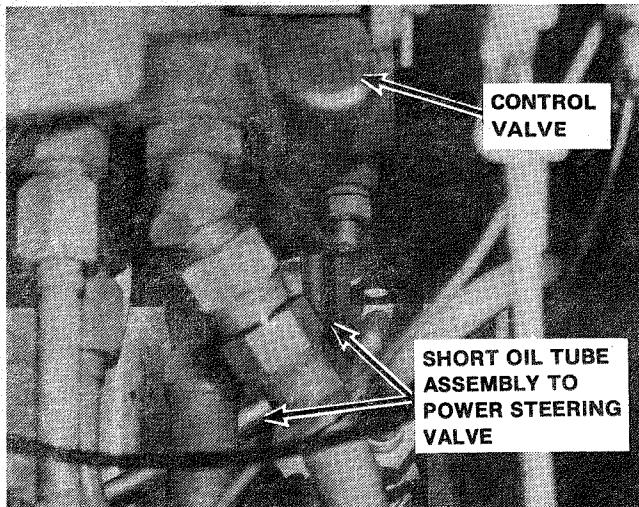


Figure 4

6. Remove hex capscrew from lower Right Hand corner of engine shroud; see figures 3, and 5. Place one composition washer under both tubes in a vertical position at this point. Place second composition washer over both tubes in a vertical position and secure with double tube clamp, hex capscrew 1/4—20 x 1-1/4 and lockwasher; see figures 3 and 5.

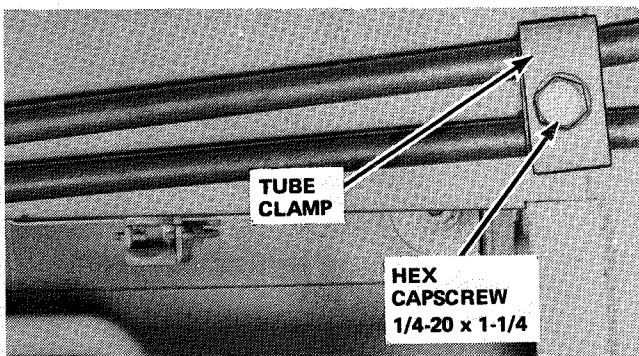


Figure 5

7. Loosen hex nut on drag link at rear ball joint. Remove front ball joint from front steering arm. Remove drag link from rear ball joint.

8. Install support bracket to tractor frame, and secure with two hex head capscrews 3/8—16 x 5/8 with lockwashers 3/8. See figure 6.

9. Install hex nut 1/2—20 and rod end onto piston rod of cylinder. See figure 6.

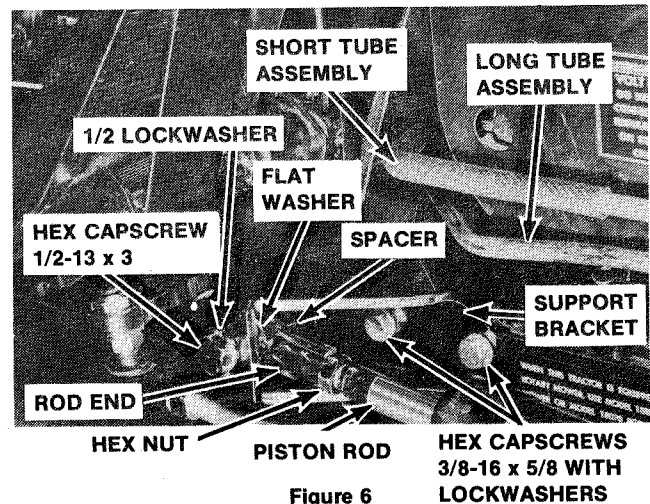


Figure 6

10. Secure rod end into support bracket with hex capscrew 1/2—13 x 3, lockwasher 1/2, flat washer 1/2 and spacer 1-7/16 long.

NOTE: SPACER IS PLACED BETWEEN ROD END AND FRAME SIDE OF BRACKET. FLAT WASHER IS BETWEEN ROD END AND OUTSIDE OF BRACKET. SEE FIGURE 6.

11. Install hex jam nut 5/8—18 onto new ball joint. Turn ball joint into valve end of power steering cylinder assembly 5/8 inches or more. See figures 7 and 9.

12. Secure ball joint into front steering arm. See figure 7.

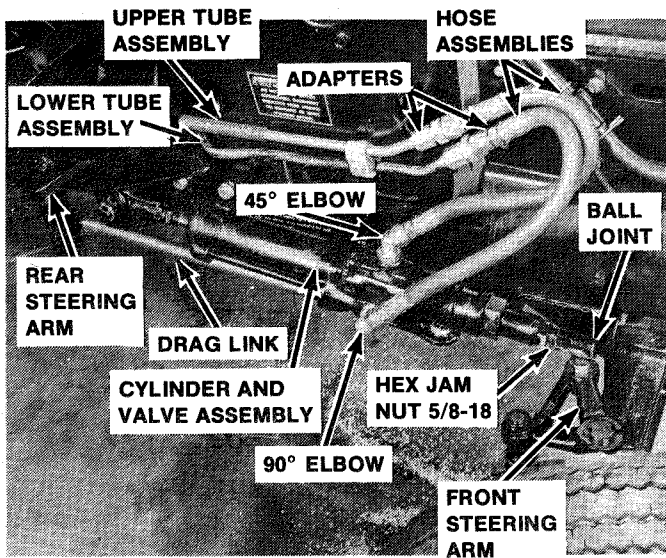


Figure 7

13. Install hex nut 1/2—20 and rod end onto new drag link. Install hex nut 5/8—18 onto other end of drag link. Turn drag link into ball joint on rear steering arm. Adjust to $20\text{-}3/4 \pm 1/16$ inches from the rear end of ball joint in steering arm to the center of self aligning bearing in the rod end. See figure 8.

14. Install hex capscrew 3/8-24 x 3-1/2 through power steering valve at front end. Place 1/2 x 5/8 bushing into rod end on drag link. Place rod end and bushing over bottom end of above capscrew and secure with hex jam nut 3/8-24. See sketch, figure 8.

15. Position front wheels so they are parallel to the tractor frame. With the wheels set as above the distance from the face of the cylinder to the start of the chamfer on the piston rod should be 2-1/4 inches. See figure 8. If adjustment is necessary loosen jam nuts both on the ball joint and rod end.

Remove ball joint from steering arm and rod end from bracket. Adjust both the rod end and the ball joint so rod is extended to the above dimension and both the rod end and ball joint align with their respective mounting holes. Tighten the jam nuts and reinstall ball joint and rod end securely.

16. Attach one hose assembly from the upper tube to the top connection of the power steering valve with 45° elbow and adapter. Attach the remaining hose assembly from the lower tube to the side connection of the power steering valve with 90° elbow and adapter. See figure 7.

NOTE: IF THE TRACTOR HAS AN OIL COOLER KIT INSTALLED, CONNECT THE HOSES AS FOLLOWS:

A. The hose from the lower tube assembly attaches to the side connection of the power steering valve with 90° elbow and adapter.

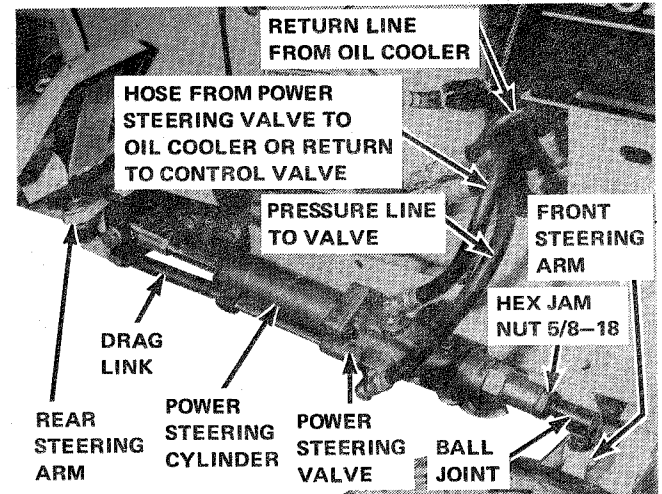


Figure 9

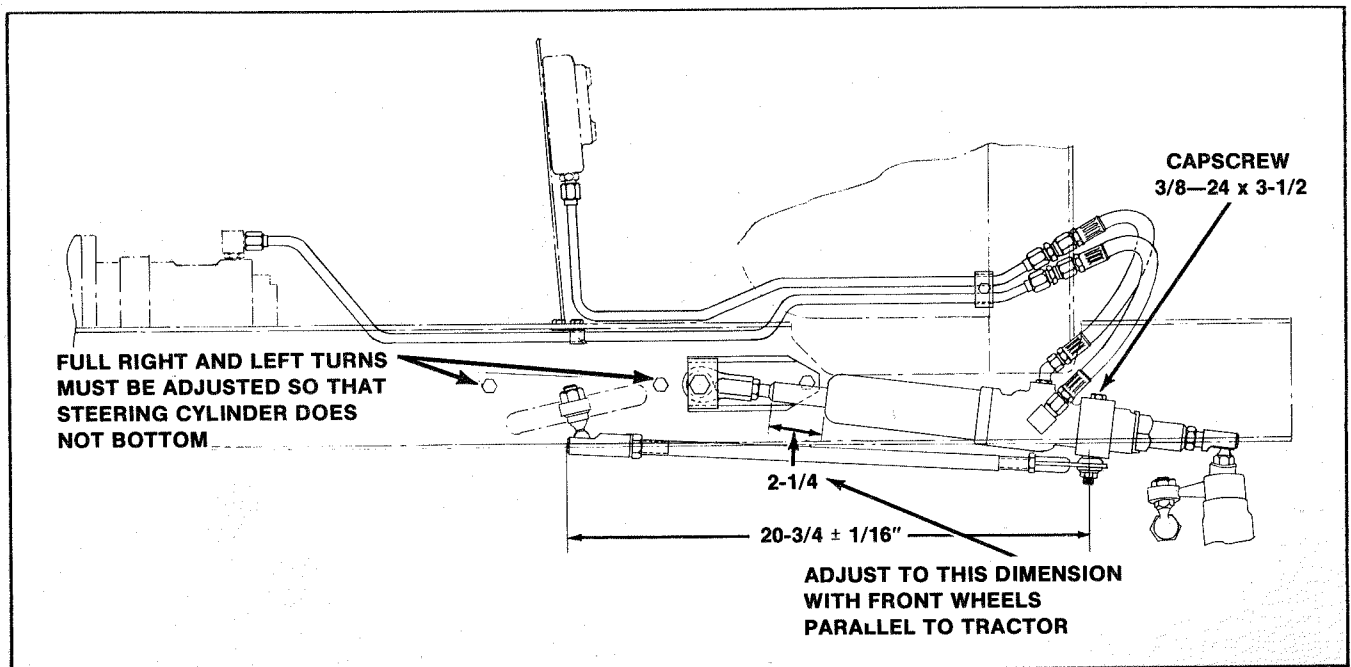


Figure 8

B. The hose from the top tube assembly attaches to the upper connection on the oil cooler.

C. The third hose attaches to the lower connection on the oil cooler and the top connection of the power steering valve with 45° elbow and adapter. See figure 9.

17. Reinstall ground (-) battery cable.

18. Start engine and operate power steering through several complete cycles to fill system; at the same time check for oil leaks. Check that on full Right and Left turns the steering stops are used to prevent the cylinder from bottoming. Readjust stops if necessary.

Damage to the cylinder could occur if the steering continually bottoms on the ends of the cylinder.



CAUTION

BE CAREFUL NOT TO COME INTO CONTACT WITH ROTATING COOLING FAN ON THE HYDROSTATIC INPUT SHAFT. INJURY COULD OCCUR.

19. Check fluid level in transmission and add oil to bring to operating level.

20. Replace fender and seat assembly and connect taillight.