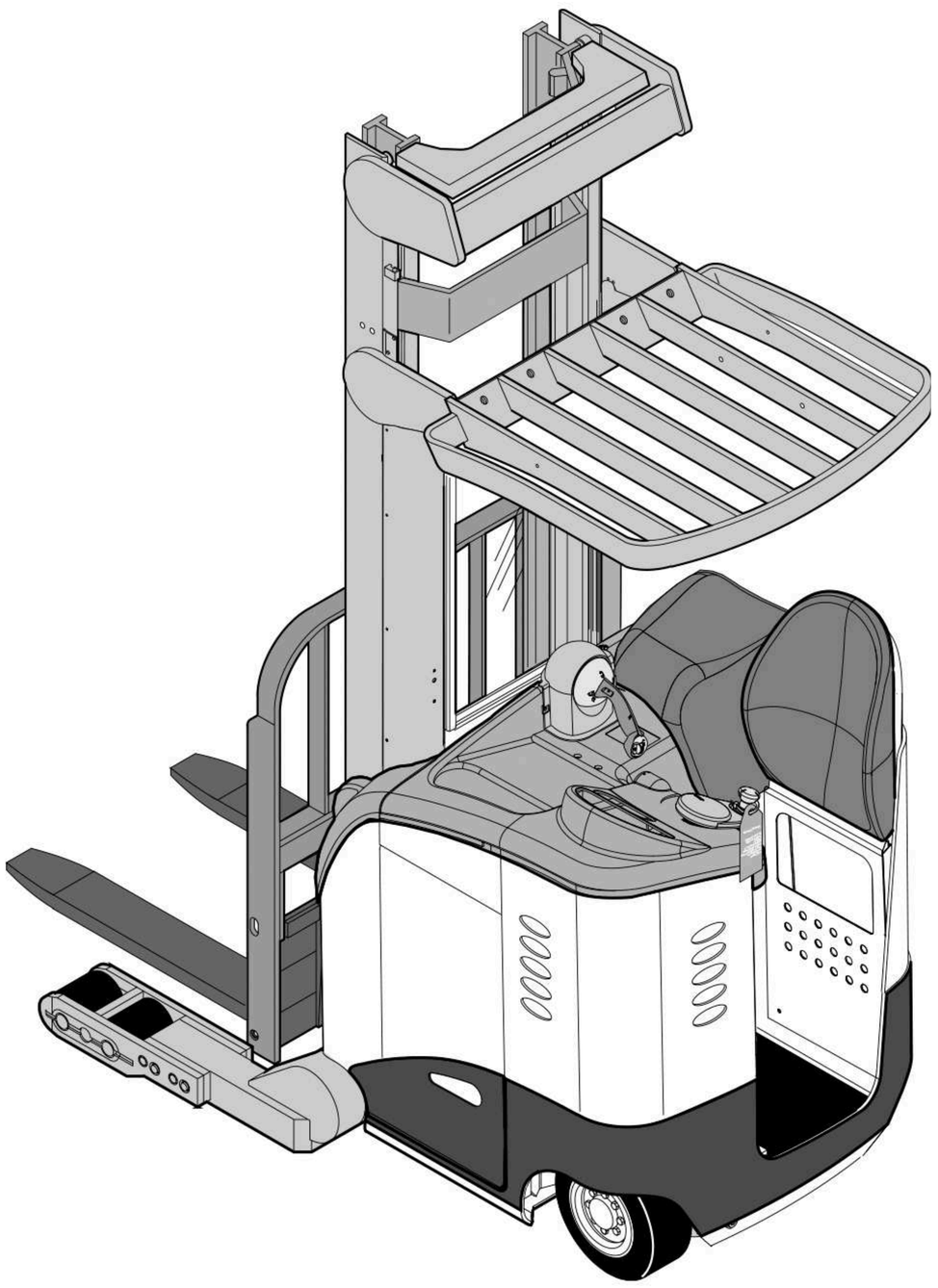
# RR 5000

## Service & Parts Manual



Crown PF11314-006

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## UNDER CARRIAGE INSPECTIONS AND ADJUSTMENTS (Refer to Illustrations 7 & 8)

1. Disconnect battery and remove from compartment; lift up and remove power unit door.
2. Disconnect all wiring to drive motor and electrical brake.
3. Disconnect hydraulic hoses to hydraulic steering motor and cap hose ends.
4. When removing undercarriage note the number and position of washers and replace in same position at assembly.
5. The four 0.75 in. diameter bolts that clamp pivot shaft to the power unit must be tightened to 225 - 250 ft. lbs. (305 - 340 Nm) at assembly.

**NOTE**

Under normal maintenance operations it is recommended the undercarriage not be removed completely from the power unit.

6. Inspect springs and mounting hardware on RR/RD 5000 Series.
7. Inspect caster and wheel assembly.
8. Inspect caster assembly bearings. The locknut that secures the caster to the undercarriage must be tightened to 22 - 32 ft. lbs. (30 - 43 Nm). Rotate caster assembly while tightening to insure centering of bearings.

### Articulation Adjustment

1. Truck must be on flat level floor and the trailing edge of caster pointing towards drive tire as shown in illustrations.

### RR/RD 5000 Series

2. Inspect wear plug on drive tire side of undercarriage and replace as necessary. Refer to Illustration 7.
3. Adjust the amount of undercarriage articulation on the left side (drive tire) to 0.06 in. +0.00 –0.02 in. (1.5 mm +0.0 –0.5 mm) between the top of the wear plug and the bottom of adjusting bolt, and tighten jam nut.
4. On the right side adjust distance between top of undercarriage and bottom of stops to 3.5 in. +0.00 –0.04 in. (89 mm +0.0 –1.0mm). Refer to Illustration 7.

### RR/RD 5000S Series

5. Inspect wear plugs on both ends of undercarriage and replace as neccessary. Refer to Illustration 8.
6. Adjust right side (caster) to 0.25 in +0.00 –0.04 in. (6.4 mm +0.0 –1.0 mm) from top of wear plug to bottom of adjusting bolt, and tighten jam nut. Refer to Illustration 8.
7. Adjust left side (drive tire) to 0.25 in. +0.00 –0.04 in. (6.4 mm +0.0 –1.0 mm) for mast heights to 321 in. (8155 mm) and below. For truck heights 322 in. (8180 mm) and above adjust to 0.12 in. +0.00 –0.04 (3.0 mm +0.0 –1.0mm). Refer to Illustration 8.

**NOTE**

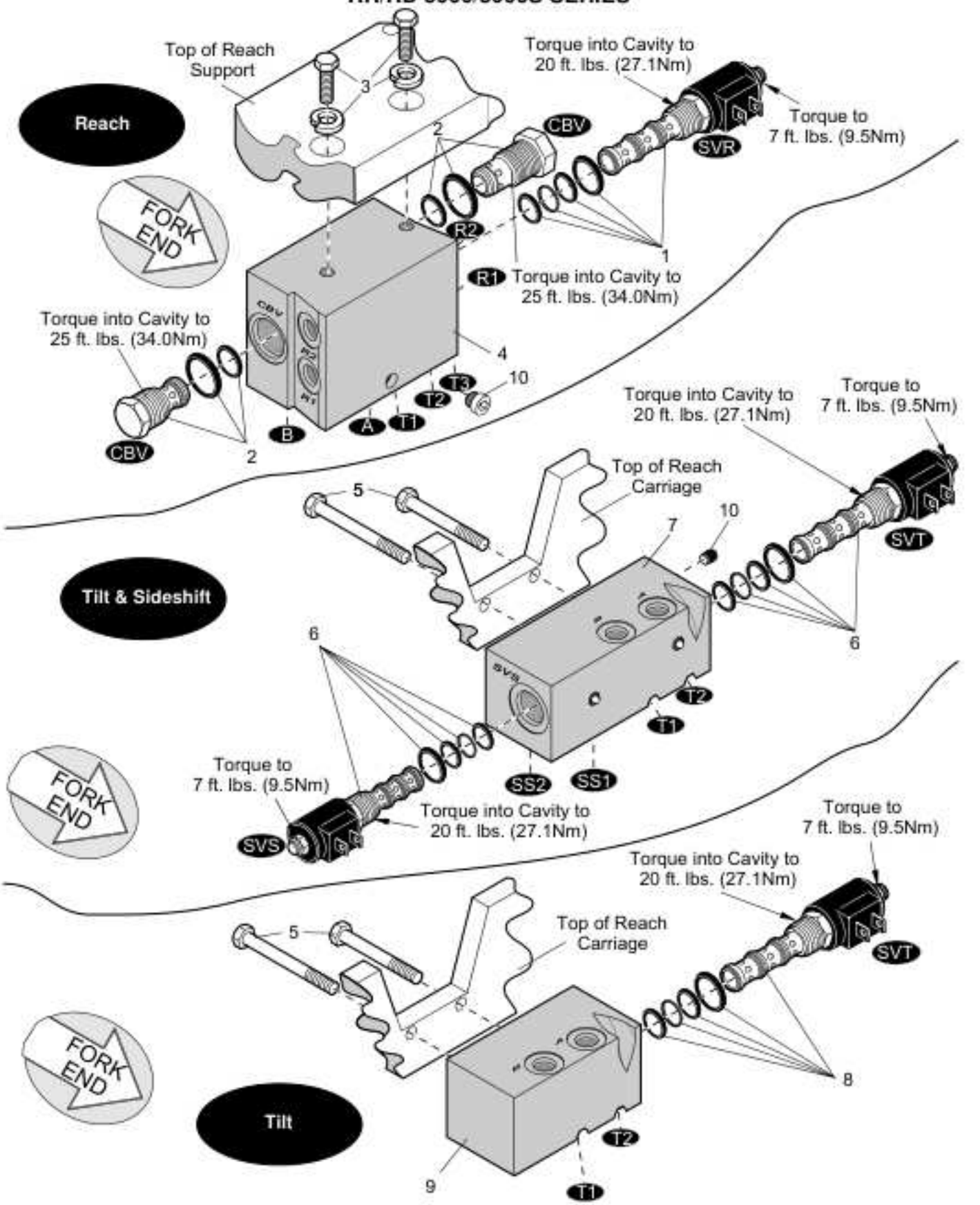
The articulation adjustment will change as drive and caster tires wear. The articulation adjustment affects the stability of the truck.



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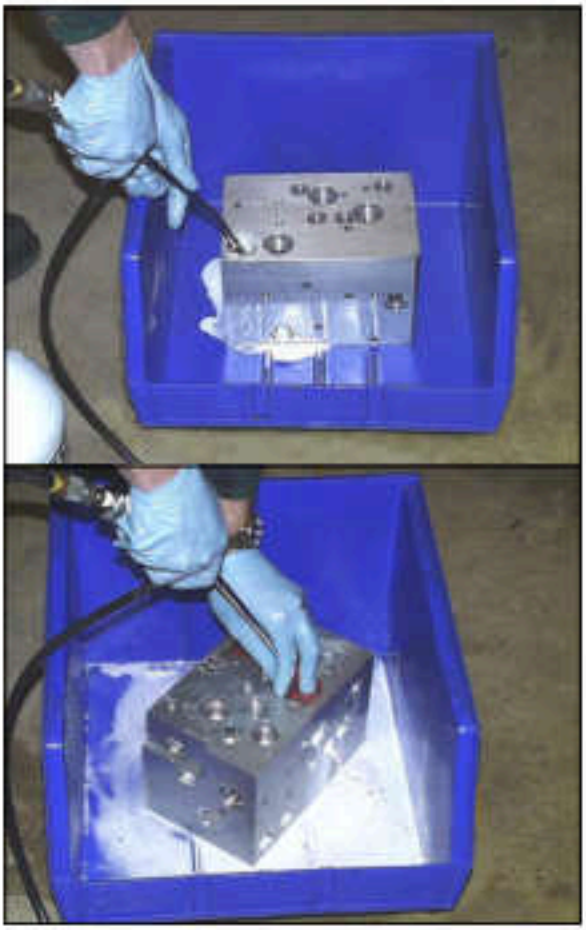
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## RR/RD 5000/5000S SERIES






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7937P ILLUSTRATION 10

22. Remove manifold block from container and place into clean container on top of clean block. Use compressed air nozzle to blow air over and through manifold block to completely remove any moisture, air pressure not to exceed 40 PSI. It is very important that the inside and outside of the block be totally dry and clean. See Illustration 11.



7938P ILLUSTRATION 11

23. Refer to Illustration 12 and look into each port with a flashlight and check for contamination that may not have been completely flushed out. If any is found flush block a second time as described in steps 21 and 22.



7939P ILLUSTRATION 12

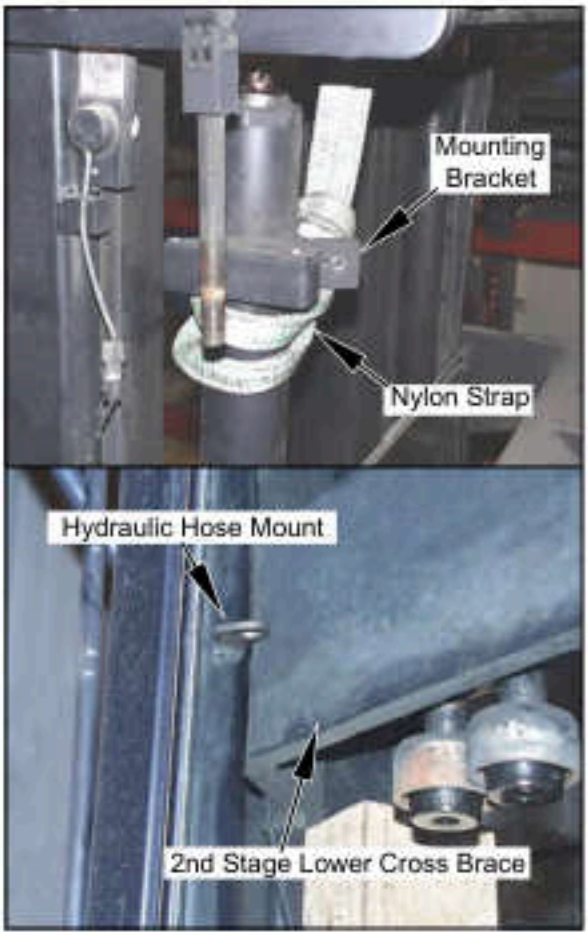
24. Remove top o-ring seal from each valve, cover threads on valve with sleeve or tape to prevent damage to new seal, and carefully replace top o-ring seal supplied in kit. The top o-ring seal will be the one closest to the outside surface of the manifold block after the valve is installed in the manifold block. Visually inspect all other o-ring seals and back up rings, replace as required. These o-rings are not supplied in kit, but are listed on page 02.4-1450-001 of this manual, and are available through Crown.

25. Apply a light film of hydraulic oil to the o-ring and threads of all the valves and plugs before installing back into manifold block. When installing ORF4 and SVP in cavity, spread a clean light grease on FLAT side of ORF4 and stick on nose of SVP, then carefully insert into cavity. This will properly orient ORF4 and prevent it from changing position during installation.

26. Screw each valve and plug into manifold block by hand until snug.

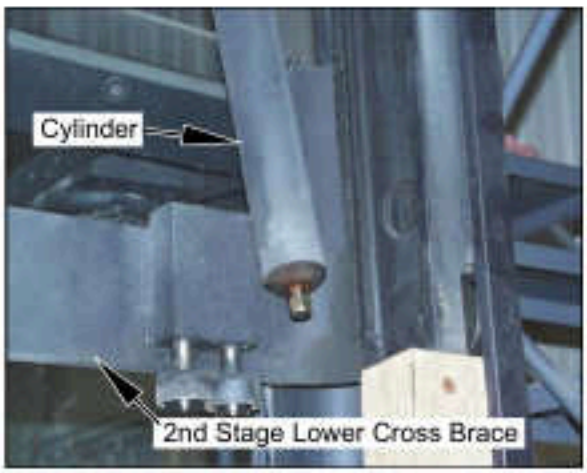


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81677P ILLUSTRATION 8

17. Once cylinder base is above 2nd stage cross brace bring cylinder out front, fork side, of mast.




81689P ILLUSTRATION 9

## CYLINDER REPLACEMENT

18. Put cap on fitting at bottom of lift cylinder, if one is not already present.

19. Put nylon strap around top of cylinder just below mounting bracket and connect to hoist.

**WARNING**

*Wear appropriate safety items, such as safety glasses and shoes, whenever performing maintenance work. To avoid injury, do not place fingers, hands, arms or feet through mast or position them at pinch points.*

*Make sure lifting device is sufficiently rated to lift various parts of the mast sections either individually or as a group. Make sure that the blocking material is strong enough to withstand the weight. Never work under or around a truck that is not properly blocked.*

20. Raise until bottom of cylinder is over top of 2nd stage lower cross brace and lower cylinder into position.

**WARNING**

*Make sure the platform the maintenance person rides on is secure and the individual is using an operator harness.*

21. Put pin back through main frame and cylinder mounting bracket. Install cotter pin through bottom of pin to secure in place. See Illustration 7 in Cylinder Removal. Then remove strap from cylinder.

22. Using two screws removed at disassembly remount height sensor back in position.

23. Remove cap and reattach hydraulic line to bottom of cylinder.

24. Put hose guide, at top of cylinder, and hoses back in position and secure using screw previously removed.

25. Connect hydraulic hoses, lines and spring (if left lift cylinder was removed) to bracket on cylinder. See Illustration 6 in Cylinder Removal.



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