



Technical Bulletin

30D QFM™ Linkage Assembly Shim Service Kit 676071

Model: 30D QFM™ Push/Pulls

Symptom: The linkage assembly may have excessive looseness.

Solution: Install Shim Service Kit 676071 as instructed below.

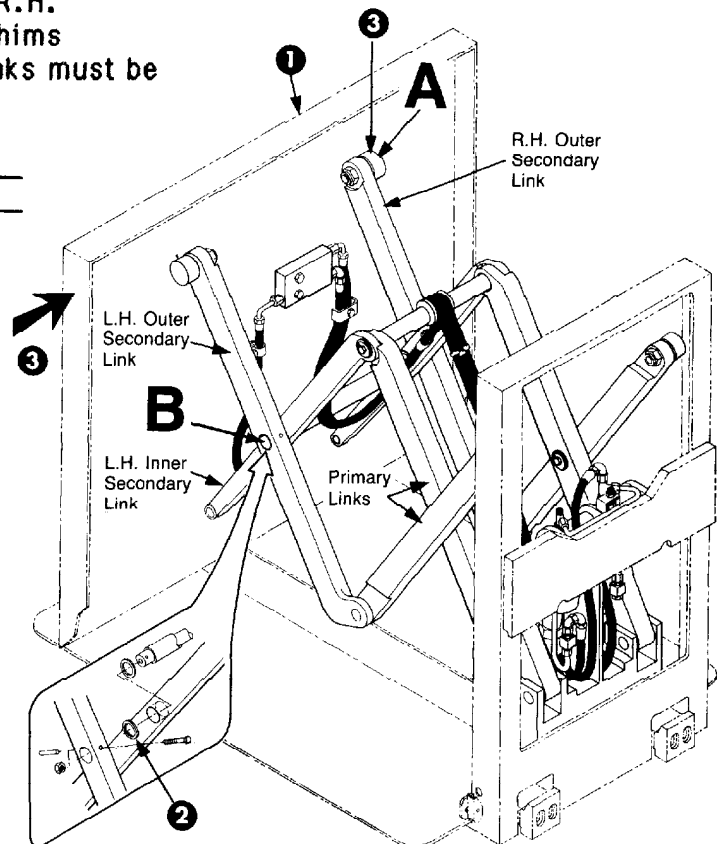
1. Fully extend the faceplate.
2. Measure the clearances at the L.H. secondary link pivot location marked **B**. Determine the number of .030 in. or .060 in. thick shims required to provide .030 in. maximum clearance **between** the inner and outer secondary link. Note the shims required below for future reference. Repeat for the R.H. secondary links. The amount of shims between both sets of secondary links must be **equal**.

Shims required on left side _____

Shims required on right side _____

3. Push the faceplate to the right and measure the gap at location **A** between the faceplate channel and link roller. Determine the thickness required to provide .030 in. clearance. **Half** of the measured thickness (not to exceed .12 in. total shim thickness per side) will be installed between each roller and secondary link. Note the shims required below for future reference.

Shims required per side _____
(not to exceed .12 in. total shim thickness per side)



cascade® corporation

For Technical Assistance . . .

Call: 1-800-CASCADE or 503-666-1518

OR

Write: Cascade Corporation, P.O. Box 20187, Portland, OR 97220

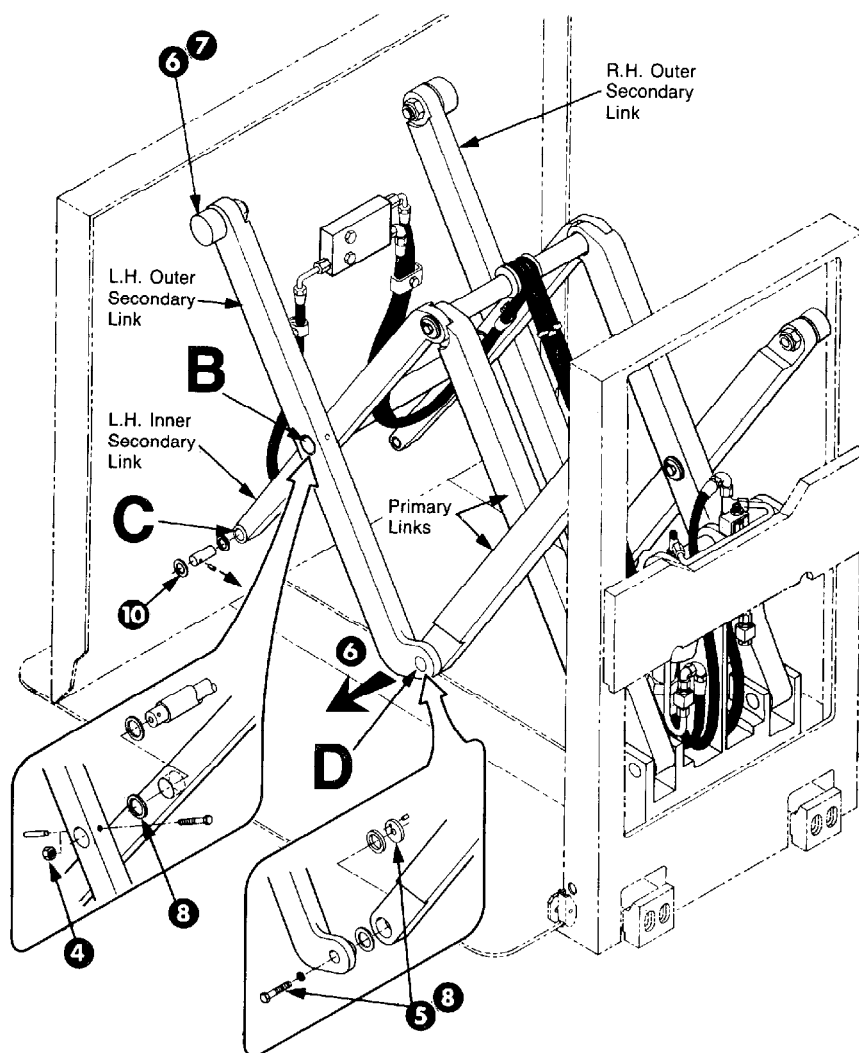
To Order Parts . . .

Call: 513-322-1199

OR

Write: Cascade Corporation, P.O. Box 360 Springfield, OH 45505

4. Remove the retaining capscrew or pin at location **B**.
5. Remove the capscrew and cap at location **D**.
6. Pull the outer secondary link out of the lower pivot point. Remove the roller end of the outer secondary link from the faceplate channel.
7. Remove the cam follower from the outer secondary link. Install the shims determined in step 3. Reinstall the nut to a torque of 130-150 ft.-lbs.
8. Reinstall the outer secondary link using the shims determined in step 2 for location **B** and the new cap provided for location **D**. Tighten the capscrews to a torque of 20-30 ft.-lbs.
9. Repeat steps 4 through 8 for the R.H. outer secondary link pivot points.
10. Measure the clearance at the L.H. inner secondary link pivot location marked **C**. Determine the number of .030 in. or .060 in. thick shims required to provide .030 in. maximum clearance. Drive out the keeper pin from the front side of the faceplate. Install additional shims on the **outside** of the link only. Repeat for the R.H. inner secondary link.



NOTE: This information should not be interpreted as the basis for warranty claims unless so designated.