



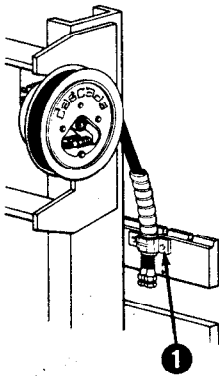
Technical Bulletin

THINLINE™ Hose Reel Service Kit 672563 Installation Instructions

- 1 Remove the twinline hoses from the hose terminal.

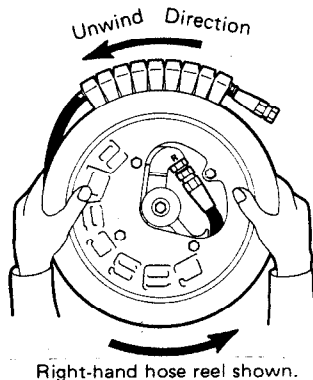


WARNING: Hold hoses firmly while disconnecting them from the carriage. Allow the reel spring to unwind slowly while maintaining tension on the loose hose ends. Note the number of prewinds while unwinding the hose reel. For reassembly, tighten the hose terminal clamp capscrews to 15–20 ft.-lbs.(20–27 N·m).



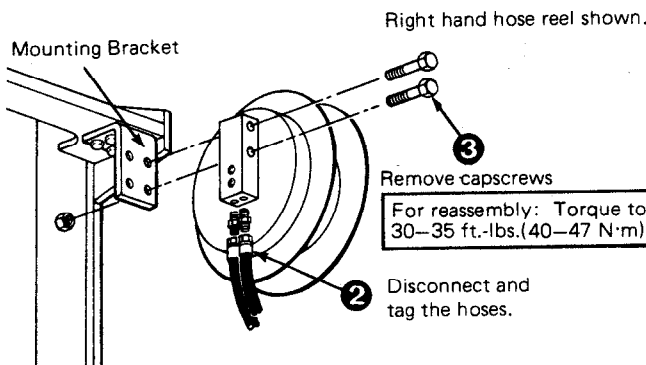
Remove capscrews

For reassembly: Torque to 15–20 ft.-lbs. (20–27 N·m)



Right-hand hose reel shown.

- 2 Disconnect the truck valve hoses from the hose reel mounting block. Note hose connections to prevent switching of hydraulic functions on reconnection.
- 3 Remove the capscrews and self-locking nuts fastening the reel to the mounting bracket. Remove the reel from the mast. For reassembly, tighten the capscrews to 30–35 ft.-lbs. (40–47 N·m).



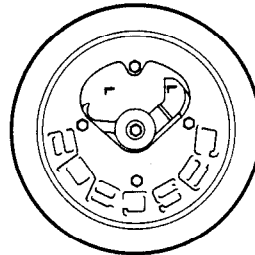
Right hand hose reel shown.

Remove capscrews

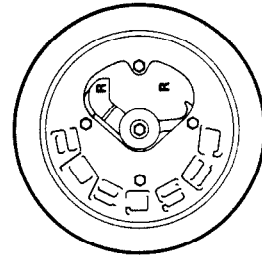
For reassembly: Torque to 30–35 ft.-lbs.(40–47 N·m)

Disconnect and tag the hoses.

- 4 Determine whether the reel is a right or left hand model (viewed from the flange side of the reel). **This must be noted for future reference.** If the reel is left-handed, an "L" will show on the hub casting. If the reel is right-handed, an "R" will show on the hub casting.

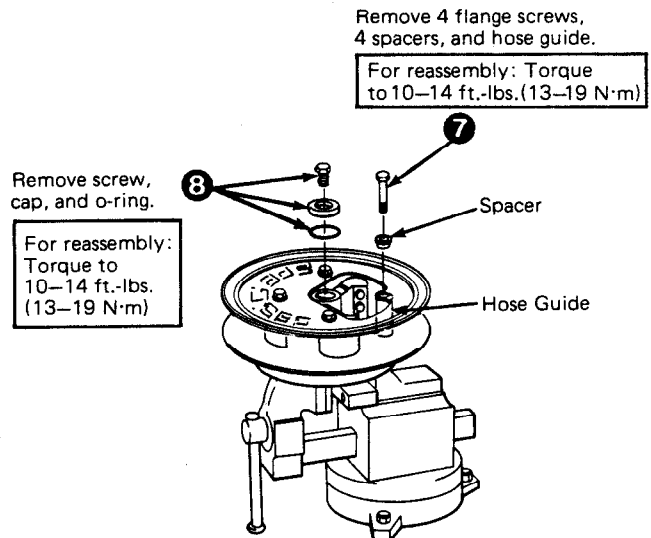


Left Hand Reel



Right Hand Reel

- 5 Clamp the reel mounting block in a vice.
- 6 Remove the twinline hose.
- 7 Remove the four (4) capscrews attaching the flanges and hub to the spring/shaft assembly. For reassembly, tighten the capscrews to 10–14 ft.-lbs.(13–19N·m).
- 8 Remove the capscrew, end cap and O-ring from the shaft end. For reassembly, tighten the capscrews to 10–14 ft.-lbs.(13–19N·m).



Remove 4 flange screws, 4 spacers, and hose guide.

For reassembly: Torque to 10–14 ft.-lbs.(13–19 N·m)

Remove screw, cap, and o-ring.

For reassembly: Torque to 10–14 ft.-lbs. (13–19 N·m)

Hose Guide

Part No. 673836 R-1



For Technical Assistance . . .

Call: 1-800-CASCADE or 503-669-6300

OR

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

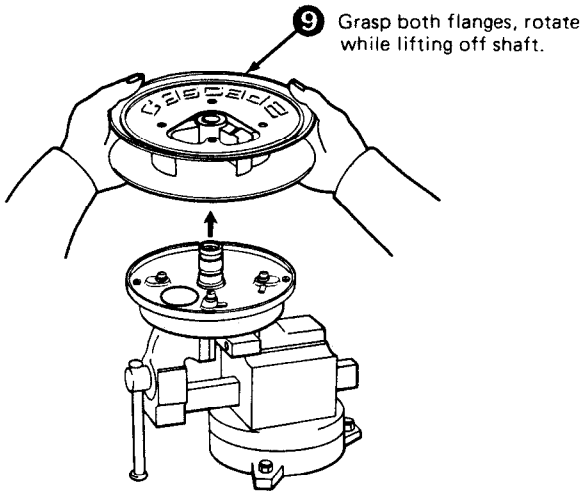
To Order Parts . . .

Call: 513-322-1199

OR

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

- 9 Grasp both flanges and the hub as an assembly, then slowly rotate as you pull them off the shaft.

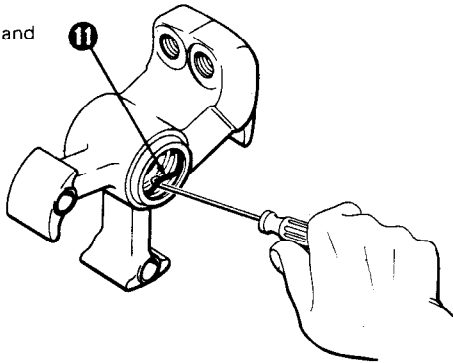


- 9 Grasp both flanges, rotate while lifting off shaft.

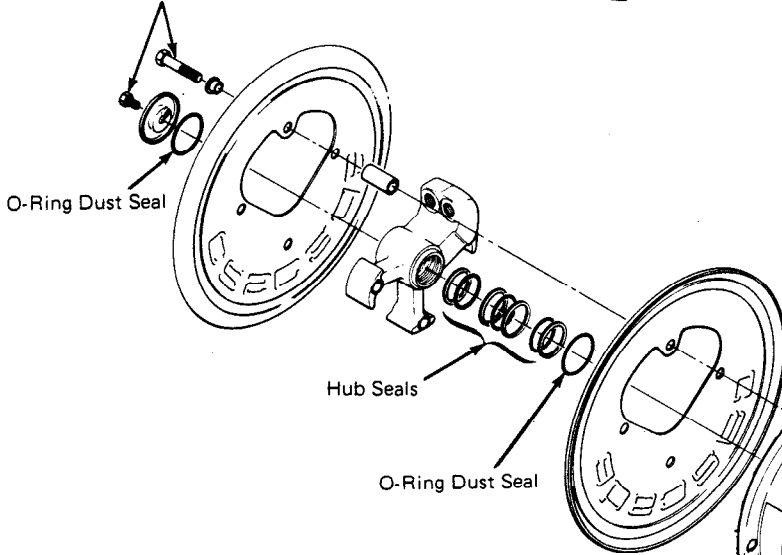
- 10 Separate the hub from the flanges.

- 11 Remove the seals from the hub bore. Remove the O-rings by prying them out with a hook-type dental tool (Cascade part no. 674424) or a small flat screwdriver. Use the same tool to remove the back-up rings. Do not scratch or damage the groove surfaces.

Remove o-rings and back-up rings.



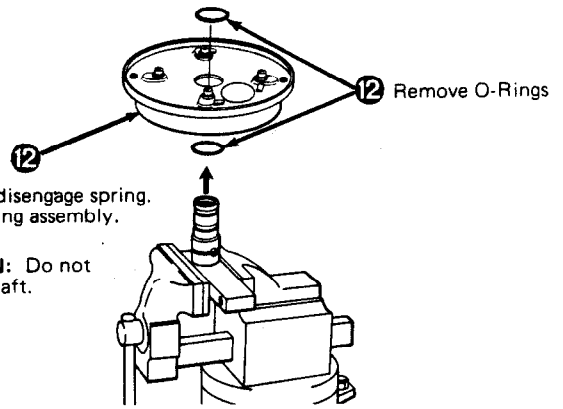
Torque to 10–14 ft.-lbs. (13–19 N·m)



- 12 Rotate the spring assembly to disengage the de-clutching pin. Slide the O-rings and spring assembly off the shaft, being careful not to damage the shaft.



WARNING: Do not disassemble the spring assembly.



Rotate to disengage spring. lift off spring assembly.

CAUTION: Do not damage shaft.

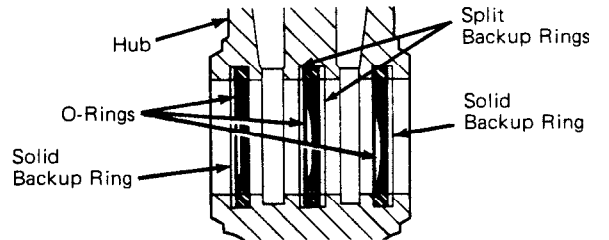
- 13 Remove the shaft from the mounting block. Replace the shaft end seals. Reassemble the shaft and mounting block.

- 14 Clean the hub and shaft with cleaning solvent. Inspect the following areas:

- The sealing surface on the shaft is nickel plated. If minor surface imperfections are found, use emery cloth (320 grit) to remove. If sharp edges or grooves are found, replace the shaft.
- Hub grooves must be free of sharp nicks or projections to prevent cutting the O-rings during installation.
- If the O-ring seal nearest the spring assembly was damaged and leaked hydraulic oil into the spring can, drain the spring can. If oil is left in the spring assembly, it will seep out after reassembly and appear as though there is an oil leak.

- 15 Apply hydraulic oil to the shaft, seals and hub grooves.

- 16 Install the split back-up rings in the hub center groove, then the solid back-up rings in the outer hub grooves. Install the three hub O-rings.



- 17 Reverse the above steps for reassembly. Rotate the hub slowly as you push it onto the shaft to prevent seal damage. Be sure the O-ring dust seals are in place.

