

### ZR grabber finger - spherical bearing installation instructions

Date: July 14, 2022  
Bulletin Name: ZR-TSIB-013  
Model: Zero Radius 48  
Model Year: 2020 production units

#### Purpose:

The procedures in this bulletin detail the process of replacing connex bushings with spherical bearings in the cylinder pin holes on ZR finger weldments.

#### Notice:

- This bulletin should be read and understood in its entirety before performing this procedure.
- All procedures outlined in the bulletin must be performed by skilled service personnel. Refer to the product service manual for descriptions of maintenance procedures.

#### SAFETY NOTICE

Perform your company's Lockout/Tagout procedure. If your company does not have a Lockout/Tagout procedure, follow OSHA 1910.147 and 1910.146 Confined Space as appropriate.

#### SAFETY NOTICE

Use appropriate Personal Protective Equipment (PPE) as required by your company.

#### Tools and Equipment Required:

Customer to supply:

- Torque wrench
- Wrenches
- Drill with #3 or 7/32" bit
- 7/8" reamer
- 1/4" - 28 hole tap
- Loctite® 242 (Blue)

#### Parts Required:

Item	PN	Description	Qty.
1	1626467	Spherical bearing, ZR grabber finger	2
2	1244725	Screw, SHD, SOC .50X1.75 A574 BO	2
3	1245250	Nut, Hex, LKDT .38-16 G9 ZY	2
4	0120277	Washer, flat .38X.81X.06 ZY HDN	2
5	0120279	Washer, flat .50X1.06X.12 ZY HDN	2
6	1626466	Spacer, spherical bearing, ZR grabber finger	4
7	0002017	90 degree zerk fitting	2

**Procedure:**

1. Perform your company's Lockout/Tagout procedure. If your company does not have a Lockout/Tagout procedure, follow OSHA 1910.147 and 1910.146 Confined Space as appropriate. Apply wheel chocks, enable the parking brake.
2. Lower the grabber to its lowest position.

***Finger spherical bearings***

1. Remove rod-end cylinder pins to disconnect the finger cylinders from the fingers.
2. Remove single-finger side upper mounting block.
3. Remove single finger assembly.
4. Remove double-finger upper mounting block.
5. Remove double finger assembly.
6. The existing hole in each finger weldment will need to be bored out to 7/8" to fit the new spacers and bearings.

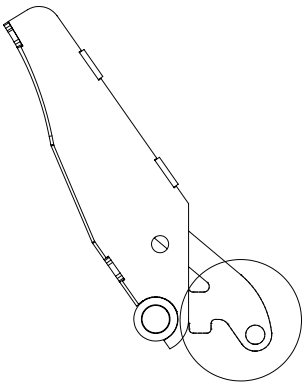


Figure 1

7. If the existing finger weldments do not have grease zerks installed, holes will need to be drilled and tapped in each finger as specified. Drill and tap 1/4-28 threaded hole for 90° grease zerk fitting (PN 0002017) on finger cylinder rod end pin hole on finger weldments. See Figures 2 and 3.

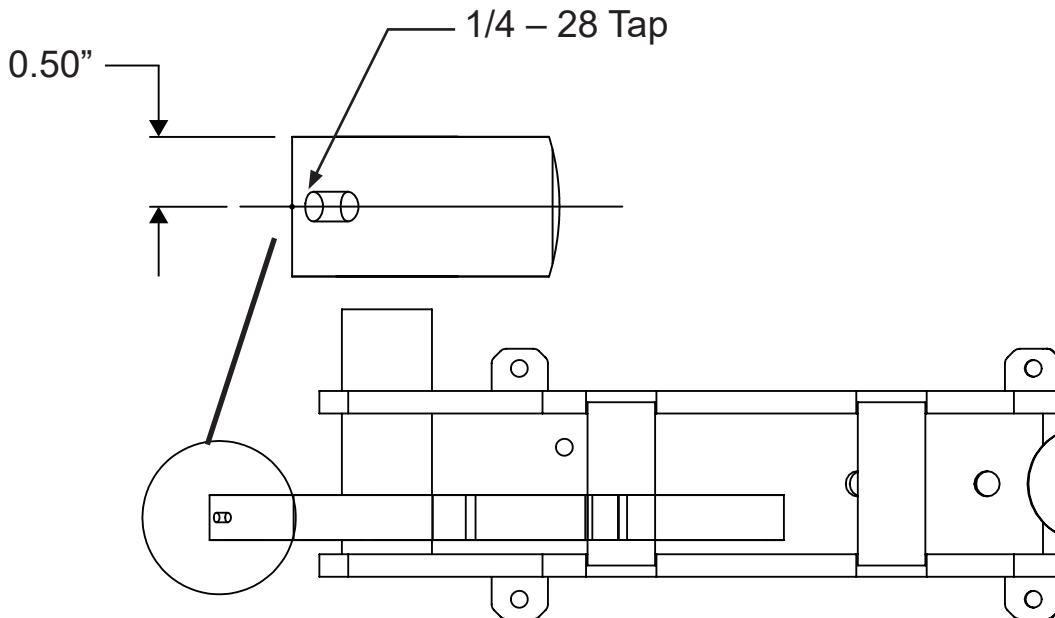


Figure 2

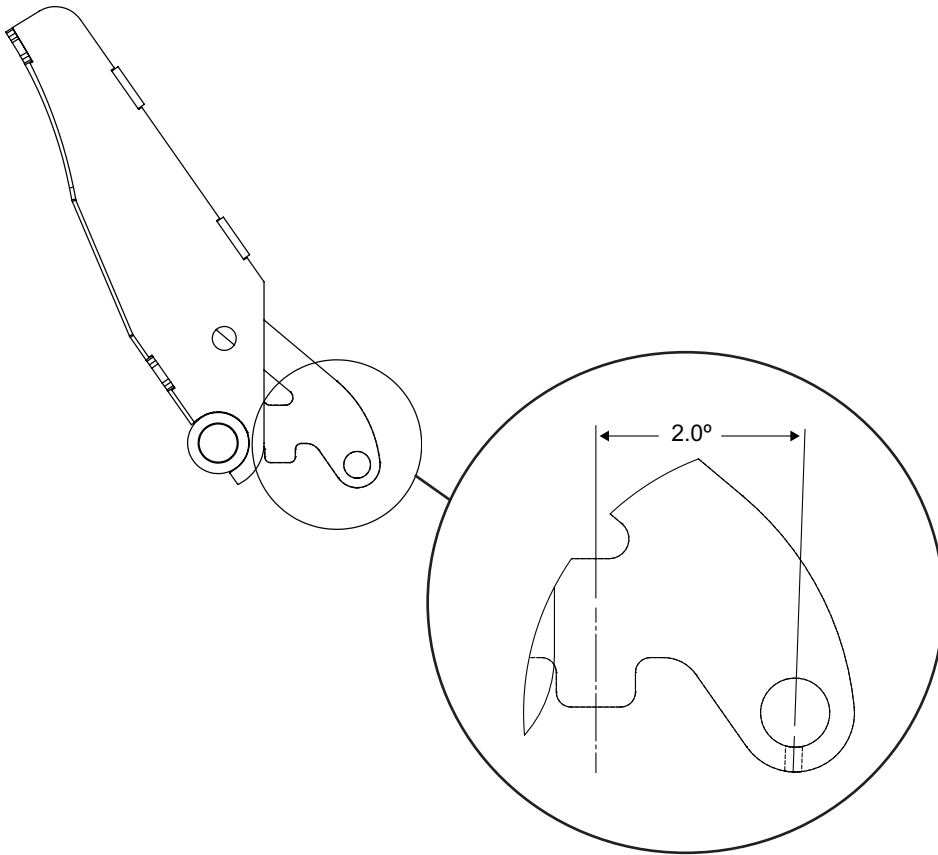


Figure 3

8. Once the rod-end cylinder pin holes in the finger weldments have been bored out to 7/8", the spacers and bearings can be installed. Installation of spacers may be easier if the spacers are placed in a freezer a few hours before installation is attempted. Use of a press is preferable, but installation can be completed using a bench vice or a large C clamp. See Figure 4.

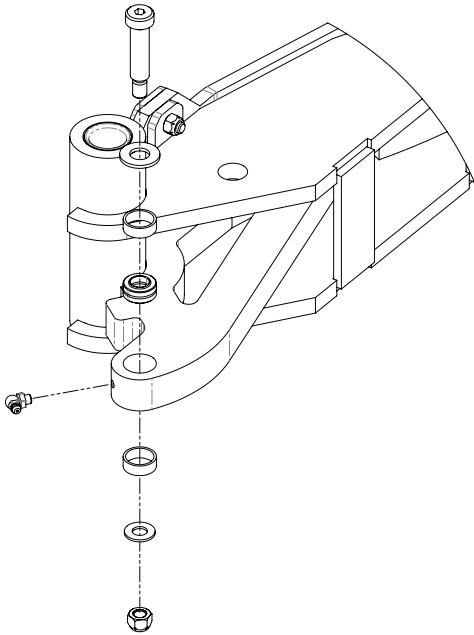


Figure 4

9. Apply Loctite 242 (Blue) to hardware during reinstallation.
10. Reinstall the finger pins into the bottom finger mounts.
11. Reinstall double finger.
12. Reinstall double-finger side upper mounting block.

13. Use a torque wrench to torque hardware to 41 ft.-lbs.
14. Reinstall single-finger side upper mounting block using new hardware.
15. Use a torque wrench to torque hardware to 44 ft.-lbs.

### **Final instruction**

1. Grease all fittings on the grabber assembly/finger assemblies.
2. Installation and rework is complete.
3. Return truck to service.
4. Remove your company's Lockout/Tagout procedure. If your company does not have a Lockout/Tagout procedure, follow OSHA 1910.147 and 1910.146 Confined Space as appropriate. Remove wheel chocks.



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