

## Rear lower link Installation Guide

Your link kit should contain:

- 2 Rear Lower Links
- 4 Black Bushings
- 2 Steel Bushing Sleeves
- 2 Grease zerks
- 2 8mm x 1.25 x 20mm Bolt
- 2 8mm Lock washers
- 2 1/4-20" Flange bolt\*
- 2 1/4-20 Flange nut\*

\*FJC, 4Runner, GX470, & GX460 use only

**SAFETY! Use the appropriate safety devices during your installation. Wear safety glasses at all times. SAFETY!**

**\*NOTE: If you don't need instructions, at least note the few key steps that have an asterisk by them. These will save you frustration later!**

Thank you for your purchase of Metal-tech Fabrication rear lower links. We have taken great pride in their development and manufacturing. We also wheel what we make and look forward to the opportunity to see you on the trail! Before you begin your installation take a moment to read through this write up. There are a few key things noted that will make the installation go smoothly.

- 1.0 Pre-assemble each lower link.
  - 1.1 Install the grease zerks into each lower link bushing shell.
  - 1.2 Glove up and hand grease each bushing and center sleeve, pushing one bushing into each side of the open bushing shells. Push one steel center sleeve into each bushing shell. (NOTE: Hand grease these parts. The grease zerk is intended for maintenance lubrication, not installation.)
  - 1.3 Wipe excess grease off powder coated parts, leave grease on the sides of the bushings this will ease installation.

- 2.0 **INSTALL:** Remove old parts and prep for the new. Do each side ONE SIDE at a time. It is not recommended to remove BOTH rear lower links at the same time. The axle can move backward making it difficult to install the new links if both are removed at the same time:
- 2.1 **TIP:** Use a ratchet strap from the frame back to the axle to help keep the axle in place once you remove the lower link on the one side you are working on.
  - 2.2 FJC/4Runners unbolt the one bolt holding the e-brake cable to the lower link.
  - 2.3 Remove the ONE stock lower link you are replacing first
  - 2.4 Lay the stock link next to the replacement link. Line the bolt holes up with each other. **TIP:** If you have a suspension lift, it is best to install them a bit longer 1/8" to 3/16" than stock to adjust pinion angle down to compensate for a lift.
  - 2.5 The links are Right and Left. The end with the grease zerk goes to the axle end of the truck. The zerk faces upward in to the axle. (The zerk faces upward to protect it from trail damage.) For FJC and 4 Runners the e-brake tab welded on the side faces outward.
  - 2.6 Install the Johnny Joint end (The large threaded in rod end) of the link at the frame.
  - 2.7 The bushing end goes to the axle, again with the zerk facing up. Install the bushing end.
  - 2.8 FJC/4Runners re-attach the e-brake cable using the 1/4" flange bolts and nuts provided.
  - 2.9 Repeat procedure for other side.
- 3.0 Install Metal-tech sicker on the window of your truck.

**Maintenance:**

*Frequency:* Frequency of maintenance will depend on use of the truck.

*To grease the Johnny Joint:* Clean the grease zerk tip with a clean cloth. Using a hand pump, pump a few pumps of a molly grease into the joint.

*To grease the bushings:* Do one at a time. Remove the bolt at the axle, lower the bushing. Clean excessive grease and dirt from the outside of the bushing and the zerk. Slowly pump fresh grease into the bushing shell. Use caution to not push the bushings out of their shells. Wipe clean the mounts at the axle. Put bushing end back in place and install mounting bolt. If excess wear is on the bushings, replacement bushings are available from Metal-tech 4x4.

*Note:* We have the zerk facing up for trail protection. Having to pull the bolt and lower the link is an extra step in maintenance. However the combined advantage of ground clearance, inspection of bushings condition and cleaning of dirt from both the bushings and the axle mount is worth it.

We welcome your feedback on our products and your experience with Metal-tech Fabrication. You can reach us toll free at 800-839-0684 Mon-Sat 8:30 AM to 5 PM PST. Or via e-mail at [info@metaltech4x4.com](mailto:info@metaltech4x4.com)

## **Metal-tech Fabrication® Rear lower link Lifetime Limited Warranty**

Metal-tech, Cage LLC warrants its rear lower links\* manufactured after January 1, 2011, to not bend during normal consumer use for as long as the original consumer purchaser owns his or her vehicle. If the rear lower links should bend during normal use, once inspected and approved by Metal-tech Cage LLC, will free of charge, mail to the purchaser a steel replacement body necessary to put the lower link back in good working condition. This warranty applies only to Metal-tech Fabrication Lower Links sold and installed in the United States of America, Canada or Mexico ('North America').

Metal-tech, Cage LLC does not warrant the product for finish, alterations, modifications and/or installation contrary to Metal-tech Fabrication instructions. Metal-tech Fabrication products are not designed, nor are they intended to be installed on vehicles used in race applications, for racing purposes or for similar activities. (A "race" is defined as any contest between two or more vehicles, or a contest of one or more vehicles against the clock, whether or not such contest is for a prize). This warranty does not include coverage for use for commercial purposes.

Metal-tech, Cage LLC obligation under this warranty is limited to the repair or replacement, at Metal-tech Cage LLC's discretion, of the defective product. Any and all costs of removal, installation or re-installation, freight charges and incidental or consequential damages are expressly excluded from this warranty. Items that are subject to wear are not considered defective when worn and are not covered. i.e. Powder coating, Johnny Joints, bushings, zerks etc. Any substitutions or exemptions of required components will immediately void the warranty. This warranty shall not apply to any product that has been improperly installed, modified or customized subject to accident, negligence, abuse or misuse.

If you believe that you have a warranty claim, contact Metal-tech Cage LLC, either through your Dealer, or direct by e-mail: [info@metaltech4x4.com](mailto:info@metaltech4x4.com) or postal mail, writing Attn.: Customer Care 2700, E 9<sup>th</sup> St. STE 200, Newberg OR 97132 USA. Please be sure to provide all pertinent information regarding your claim, including a complete description of the problem, the product, model number, the date the product was purchased and from whom the product was purchased. Also include your original invoice. For other information, or to obtain the name and address of the service and repair facility nearest you, call 1-822-1111 from within the USA and Canada.

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