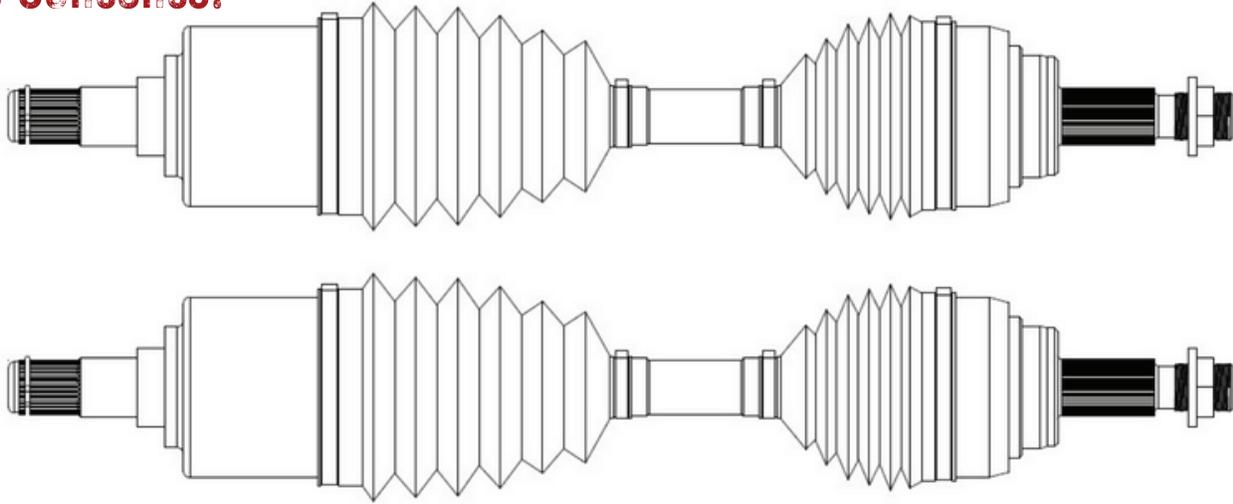


Longfield IFS Axle Set for 2nd/3rd Gen Tacoma/4Runner/FJ Cruiser Disassembly & Reassembly Instructions

Kit Contents:



Recommended Tools:

- Side Cutter or Diagonal Pliers
- Moly-Based CV Joint Grease (Redline CV-2 Grease recommended)
- CV Joint Boot Clamp Crimp Pliers
- Pick External Retaining Ring Pliers
- Clean Rags
- Moving Blanket
- Rubber Mallet

Caution

1. Read all instructions completely and carefully before you begin. If anything is not clear, please call our tech support line at 1.877.4X4.TOYS or 559.252.4950 or e-mail tech@trail-gear.com before proceeding.

TGI-312207

2. Check to make sure the kit is complete and that no parts are missing (refer to the Kit Contents Section on the first page of these instructions). If anything is missing, please contact Trail-Gear at 1.877.4X4.TOYS or 559.252.4950 or e-mail tech@trail-gear.com.
3. Park vehicle on a clean, dry, flat, level surface and block the tires so the vehicle cannot roll in either direction.
4. This product is for off-road use only. It is recommended that the installation steps below be performed by a competent mechanic. Buyers and users of this product hereby expressly assume all risks associated with the installation and use of this product.
5. This installation is typical for most Toyota IFS vehicles. Some years or models may vary. If necessary, refer to the proper Toyota Factory Service Manual for the year and model of your vehicle.

	<p>CAUTION</p> <p>Flying Object Hazard. Fluid Splash Hazard.</p> <p>Wear safety glasses at all times when working on vehicle.</p>		<p>NOTICE</p> <p>Read instructions completely before installing this product. Refer back to the instructions frequently during installation.</p>
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Installation Instructions:

Disassembly:

STEP 1

Carefully remove the axle from the vehicle.

STEP 2

On the inboard (differential) side of the axle, cut off the ears of the boot clamps using a sharp side cutter or diagonal plier. Discard the boot clamp. Take care not to cut the boot.



STEP 3

Pull the large end of the boot back to expose the star.

STEP 4

Using a pick, remove the large wire retaining ring from the CV joint. Save the retaining ring for reinstallation.

STEP 5

Carefully pull on the axle shaft to separate the star/cage/ball bearings assembly from the CV joint.

STEP 6

Clean off the excess grease from the star/cage/ball bearings assembly using a clean rag.



STEP 7

Using external retaining ring pliers, remove the snap ring from the axle. Inspect the snap ring. If it is not damaged, save the snap ring for reinstallation. Otherwise, discard the snap ring.



STEP 8

Remove the star/cage/ball bearings assembly from the axle.



STEP 9

Remove the boot from the axle.



STEP 10

On the outboard (wheel) side of the axle, cut off the ears of the boot clamps using a side cutter. Remove & discard the clamps.

STEP 11

Slide the boot from the axle.

STEP 12

If you are just servicing the axle and do not need to remove the axle shaft, you can skip to the Service & Reassembly Section. Otherwise proceed to the next step.

STEP 13

Carefully clamp the axle shaft in a vise with the CV Joint facing downwards. Put a moving blanket under the CV joint.

STEP 14

Using a mallet, apply percussive shock to the face of the CV joint until the axle snap ring breaks and the CV joint falls from the axle shaft.



STEP 15

In some cases, the snap ring may not break, and you may need to cut the axle shaft to remove it. Using an angle grinder, cut the axle shaft as close as possible to the star. Discard the remainder of the axle shaft.



STEP 16

Rotate the star & cage until one ball bearing is exposed. Remove the ball bearing and save for reinstallation.

STEP 17

Rotate the star & cage until the ball bearing on the opposite side is exposed. Remove the ball bearing and save for reinstallation.

STEP 18

Repeat Steps 16 & 17 for the remaining ball bearings. Save the ball bearings for reinstallation. 1

STEP 19

Remove the star & cage from the CV joint. Set the cage aside and retain for reassembly.

STEP 20

Clean the grease from the star with a clean rag.

STEP 21

Place the star in an arbor or shop press and press the axle shaft slug from the star. Discard the slug and retain the star for reassembly.

Service & Reassembly.

STEP 1

If the star & cage were removed from the outboard (wheel side) CV Joint, reinstall the star, cage, and ball bearings back into the CV joint in reverse order of removal.

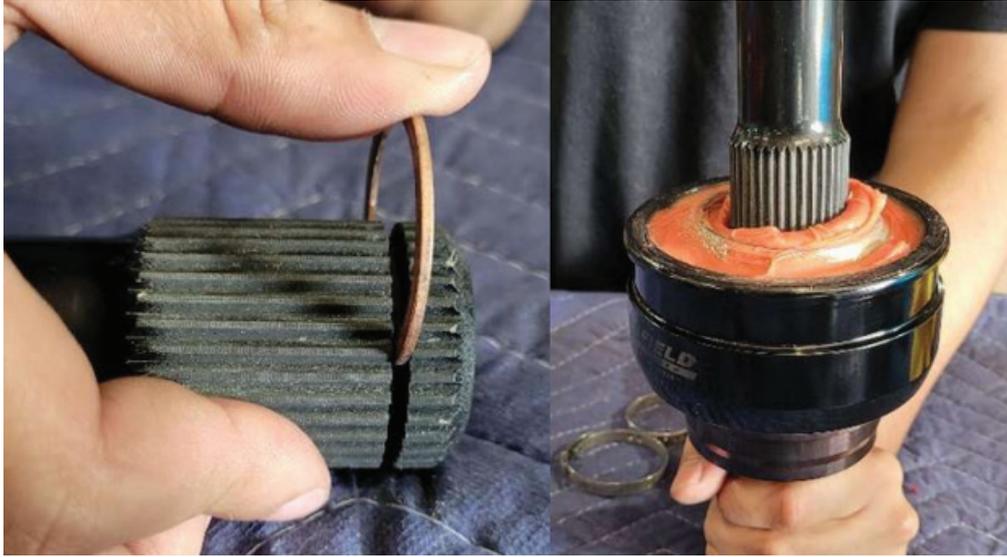
STEP 2

Thoroughly pack the outboard CV joint with moly-based CV joint grease.



STEP 3

Locate the outboard side of the axle shaft. Install the half-moon retaining ring into the snap ring groove. Carefully insert the shaft into the outboard CV joint until the snap ring locks in place in the star.



STEP 4

Carefully slide the grey outboard boot onto the axle shaft.

STEP 5

Align the small side of the boot into the boot groove on the axle shaft.



STEP 6

Align the large side of the boot into the boot groove on the outboard CV joint.



STEP 7

Install the smaller of the boot clamps over the groove on the axle side of the boot. Draw the clamp as tight as possible around the boot. Make sure all three teeth are engaged in the boot clamp holes.

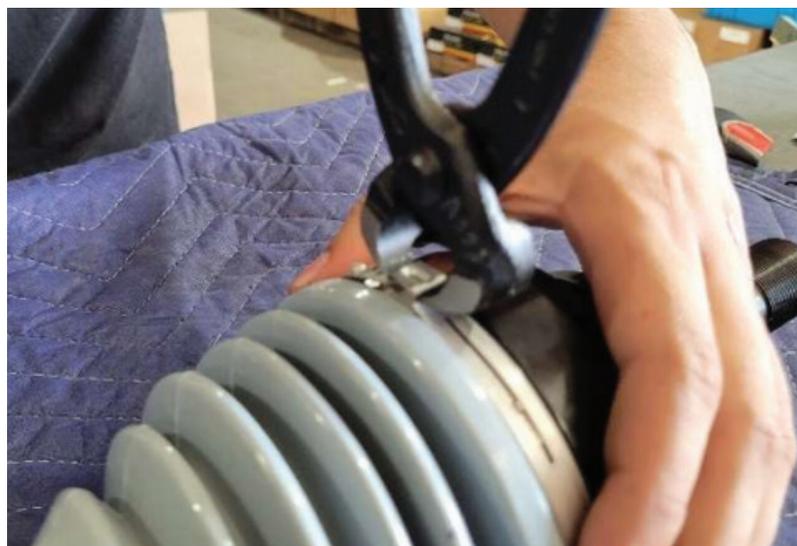
STEP 8

Using a boot clamp crimping tool, crimp the ears to secure the boot clamp.



STEP 9

Repeat Steps 7 & 8 for the boot clamp on the CV side of the boot.



STEP 10

Carefully slide the inboard boot onto the axle shaft.



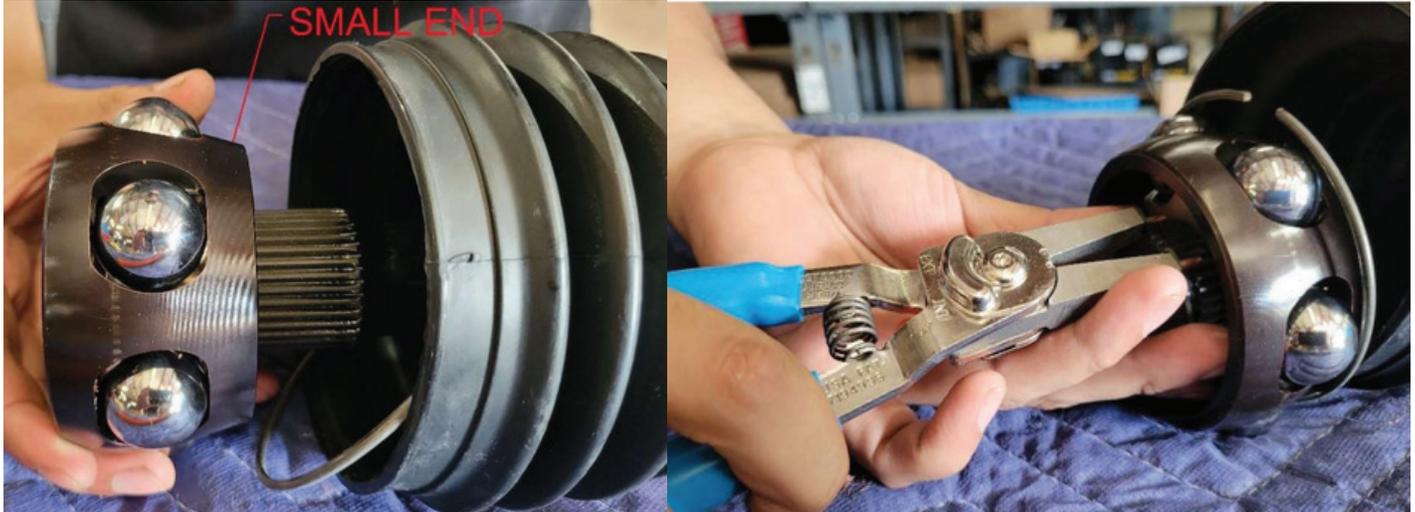
STEP 11

Repack the inboard CV joint housing with CV joint grease about 2/3 full and set aside.



STEP 12

Reassemble the star/cage/ball bearing assembly onto the axle shaft. Note the orientation of the star/cage/ball bearing assembly. Reinstall the retaining ring with external retaining ring pliers.



STEP 13

Align the ball bearings with the grooves in the CV joint housing and carefully reinstall the star/cage/ball bearing assembly into the inboard housing.



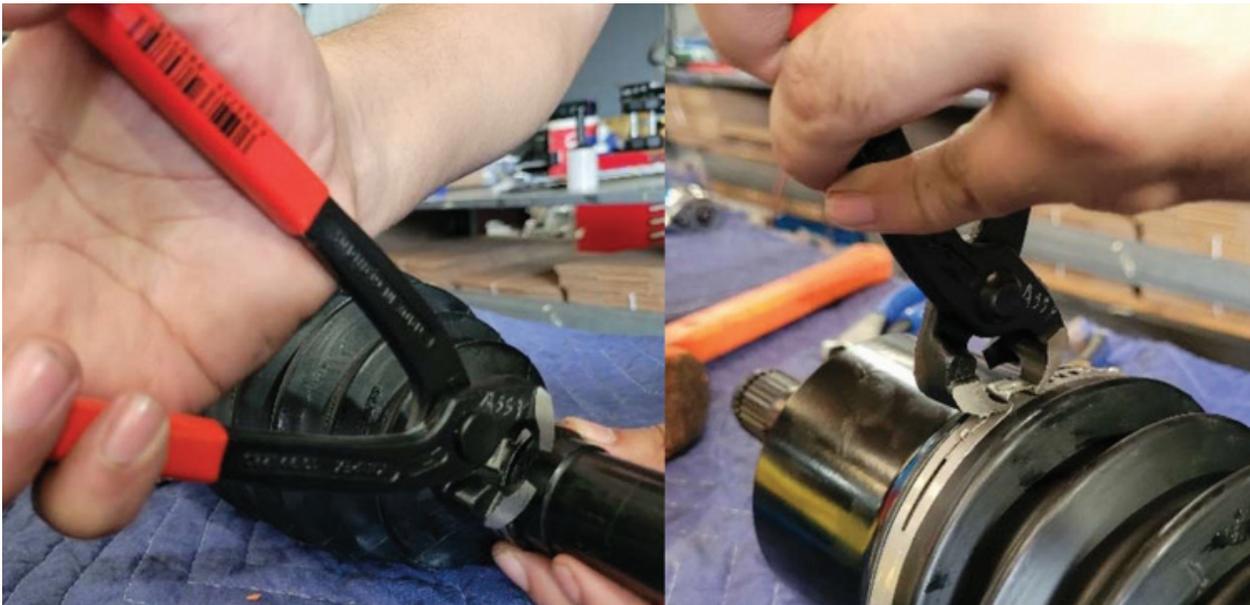
STEP 14

Reinstall the large wire retaining ring into the groove on the top of the inboard CV joint housing. Make sure the retaining ring is fully seated in the groove.



STEP 15

Repeat Steps 5-9 for the inboard boot.



INSTALLATION INSTRUCTIONS



STEP 16

Install the axle retaining ring back onto the stub shaft on the inboard CV Joint.



STEP 17

Reinstall the axle assembly back into the vehicle.