



INSTALL INSTRUCTIONS

LONGFIELD STUDLESS HUB FOR 1990 - 1997 TOYOTA LAND CRUISER FJ80

KIT CONTENTS



RECOMMENDED TOOLS

- Ratchet & Socket Set
- Torque Wrench
- Floor Jack
- Jack Stands (2)
- Snap Ring Pliers
- Hammer
- 54mm Spindle Nut Socket (P/N 140157-1-KIT)
- Seal Installation Tool
- Wheel Bearing Grease
- Flat Head Screwdriver
- Tapered Punch
- Bearing Race Installation Tool
- Pull Scale
- Spray Paint
- Chromoly Spindle Nut Kit (P/N 300519-KIT)
- Blue Loctite

LF-313181

5356 PINE AVE • FRESNO, CA • 93727 USA
TOLL FREE: 877.4X4.TOYS • WORLDWIDE: 559.252.4950
WWW.TRAIL-GEAR.COM

INSTALL INSTRUCTIONS

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.
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 FJ80 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.



NOTICE

Read instructions completely before installing this product. Refer back to the instructions frequently during installation.



CAUTION

**Flying Object Hazard.
Fluid Splash Hazard.**

Wear safety glasses at all times when working on vehicle.



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov



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STUDLESS HUB INSTRUCTIONS

STEP 1

Loosen the lug nuts securing the driver's side wheel to the axle. Raise the front end with a floor jack and place a jack stands under the axle. Remove the lug nuts and remove the wheel from the axle. Save the wheel & lug nuts for reinstallation.

STEP 2

Set the control dial on the Locking Hub to the "Free" setting. Remove the (6) bolts holding the Locking Hub Cover onto the body of the Locking Hub. Discard the (6) bolts and the Locking Hub Cover.



STEP 3

Using snap ring pliers, remove the snap ring from the axle shaft. Discard the snap ring.



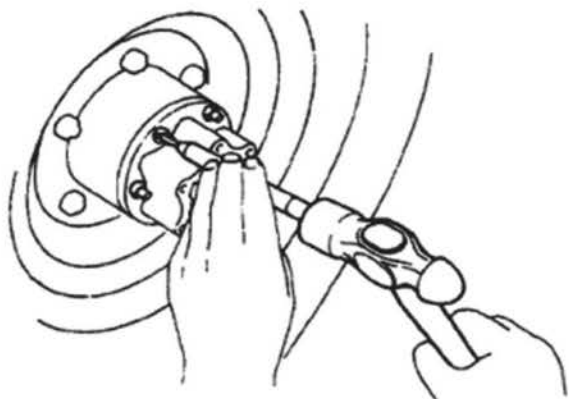
STEP 4

Loosen and remove the (6) stock hex nuts and washers that hold the Locking Hub onto the Hub. Discard the stock hex nuts & washers.



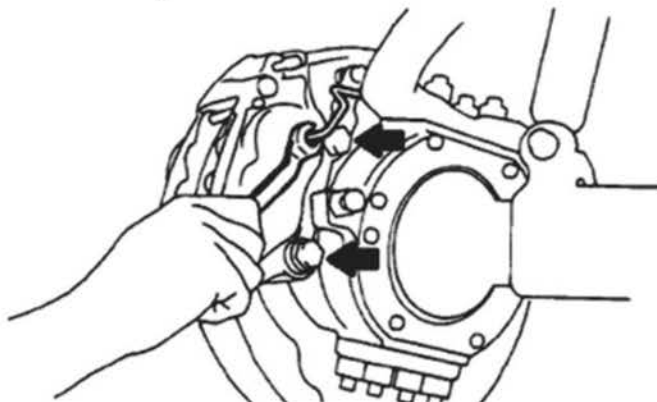
STEP 5

Using a tapered punch, gently tap on the slit of each Cone Washer to loosen the Cone Washers. Remove & discard the (6) stock Cone Washers. Remove the Locking Hub body and discard.



STEP 6

Disconnect the brake line from the brake caliper and remove the brake caliper. Save the brake caliper and mounting hardware for reinstallation.



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STEP 7

Using a flat-head screwdriver, bend the tabs of the lock washer so the locknut can be removed. Loosen and remove the lock nut using a 54mm socket (TG P/N 140157-1-KIT, sold separately). After the nut is removed, remove the lock washer. Loosen and remove the remaining nut using a 54mm Socket. Remove the thrust washer. Save the (2) locknuts and the thrust washer for reinstallation. Discard the used lock washer.



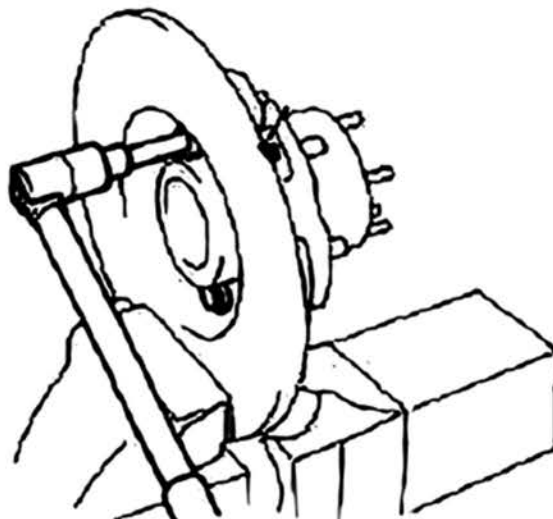
STEP 8

Remove the hub assembly from the spindle.



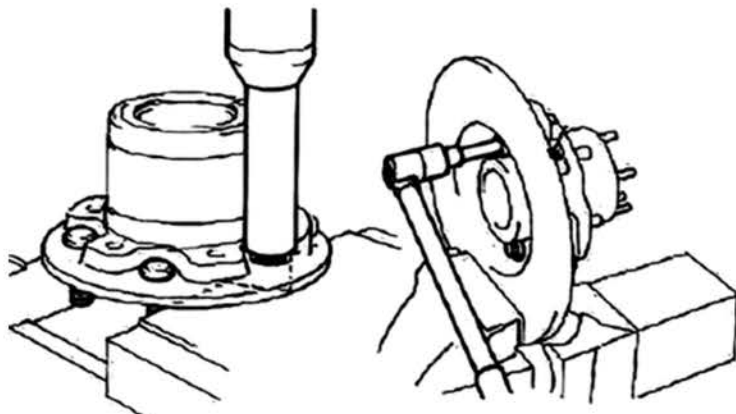
STEP 9

Remove the (6) bolts holding the brake rotor to the hub. Save the (6) bolts and brake rotor for reinstallation. Discard the hub.



STEP 10

Using an arbor press, press the new wheel studs into the studless hub. Install the brake rotor onto the studless hub using the bolts from Step 9.



STEP 11

Carefully drive the race of the new outer wheel bearing into the hub. Note: Discard the set of locking hub gaskets that is provided with the wheel bearing kit. The gaskets are not needed for this installation.



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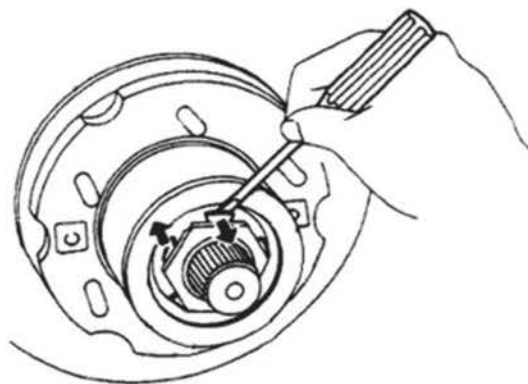
STEP 18

Make sure that the wheel bearing has no play. Using a spring tension gage, measure the preload. If the preload is not within 6.2 lbs to 12.3 lbs, adjust the torque on the lock nut until the preload is in the correct range.



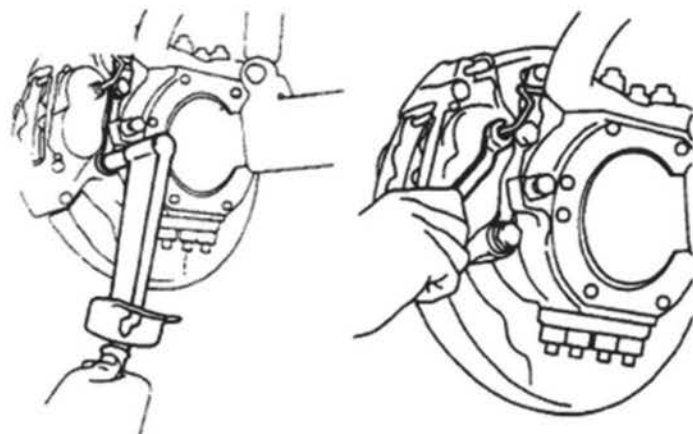
STEP 19

Secure the lock nut by bending one of the lock washer teeth inward and another lock washer teeth outward.



STEP 20

Install the brake caliper back onto the steering knuckle using the (2) bolts removed in Step 6. Torque the bolts to 65 ft-lbs. Reinstall the brake tube to the caliper and torque to 11 ft-lbs.



STEP 21

Install the drive flange gear into the hub. Make sure the drive flange gear is fully seated in the hub.



STEP 22

Apply blue Loctite to the threads of the M8 button head screw provided. Install the M8 button head screw and washer provided with the kit onto the end of the axle stub shaft.



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STEP 23

Install the O-ring onto the hub cover. Apply a light coat of wheel bearing grease to the outside of the O-ring after it has been installed onto the hub cover.



STEP 24

Install the hub cover into the hub. Secure the hub cover with the snap ring provided. Make sure the snap ring is fully seated.



STEP 25

Install the wheel back onto the hub and secure with the lug nuts removed in Step 1.



STEP 26

Repeat Steps 1-25 for the other side of the front axle.

OPERATION

1. When the Studless Hub is completely assembled & installed, this will have the effect of having manual locking hubs permanently engaged. Drive accordingly.

2. To change into Free Wheeling mode, remove the snap ring and hub cover. Remove the button head screw and washer from the axle stub shaft. Remove the drive flange gear by installing 3/8-16 bolts (included) into (2) of the (3) holes and pulling the gear out of the hub. Reinstall the hub cover and snap ring.

