

# INSTALLATION INSTRUCTIONS



## NEEDLE BEARING ELIMINATOR FOR 8" IFS CLAMSHELL

306032-1 (2005-CURRENT TOYOTA TACOMA, 2003-2011 TOYOTA 4RUNNER)  
(2007-2011 TOYOTA FJ CRUISER, 2010-2011 LEXUS GX460)  
(2003-2009 LEXUS GX470, 2002-2009 TOYOTA LANDCRUISER PRADO 120)  
(2009-2011 TOYOTA LANDCRUISER PRADO 150, 2003-2009 TOYOTA HILUX SURF)  
(2005-2011 TOYOTA HILUX PICKUP)

## KIT CONTENTS



### 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](http://www.P65Warnings.ca.gov)

300746-3-INS



## RECOMMENDED TOOLS

Flat End Screwdriver	Transmission Jack
Ball Peen Hammer	Wheel Bearing Grease
Rubber Mallet	Torque Wrench
Safety Glasses	CV Joint Puller
Metric Ratchet & Socket Set	
Metric Wrench Set	
Seal Driver Kit	
Needle Bearing Puller	
API GL5 SAE 90 Hypoid Gear Oil (Approximately 1.5 quarts)	

## 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 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.
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 Tacoma vehicles. Some vehicles may vary. If necessary, refer to the proper Factory Service Manual for the year and model of your vehicle.

# INSTALLATION INSTRUCTIONS



## STEP 1

Place the vehicle on Jack stands.  
Remove the driver's side wheel.

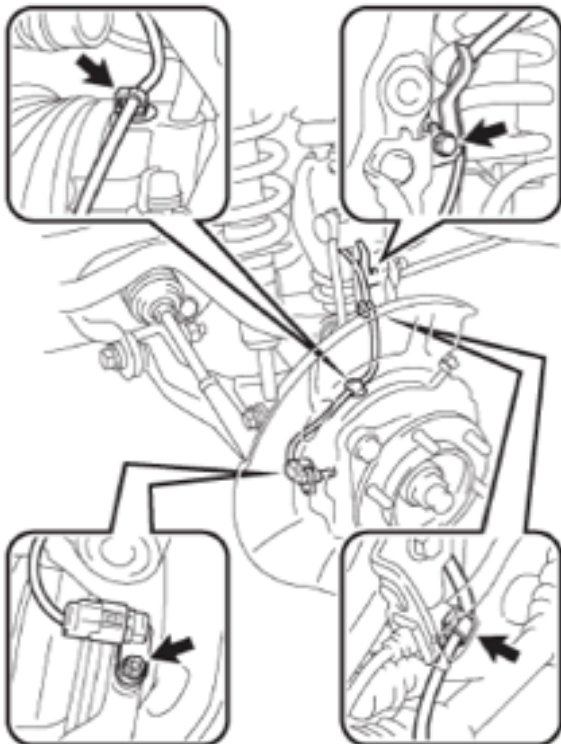
## STEP 2

Remove the transfer case drain plug and drain the oil. Discard the used oil in accordance with all local laws. Many auto parts stores will accept used oil for little or no cost. Save the drain plug for reinstallation.



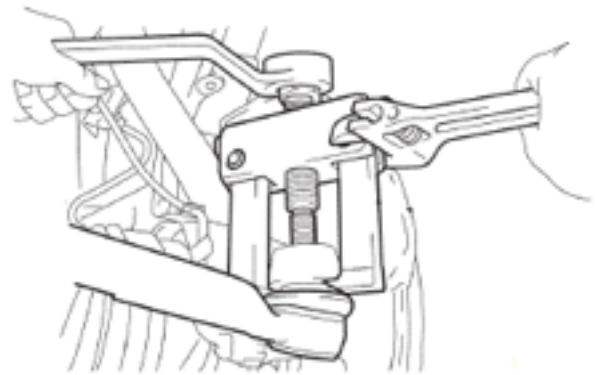
## STEP 3

Following the procedure listed in the Toyota Tacoma Factory Service Manual, separate the Front Speed Sensor from the steering knuckle.



## STEP 4

Following the procedure listed in the Toyota Tacoma Factory Service Manual, separate the tie rod end from the steering knuckle using a tie rod end remover.

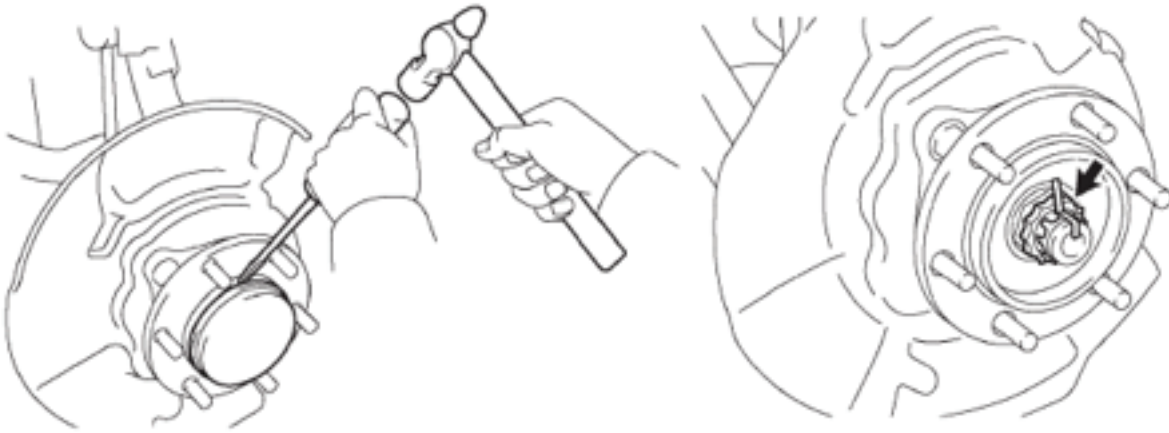


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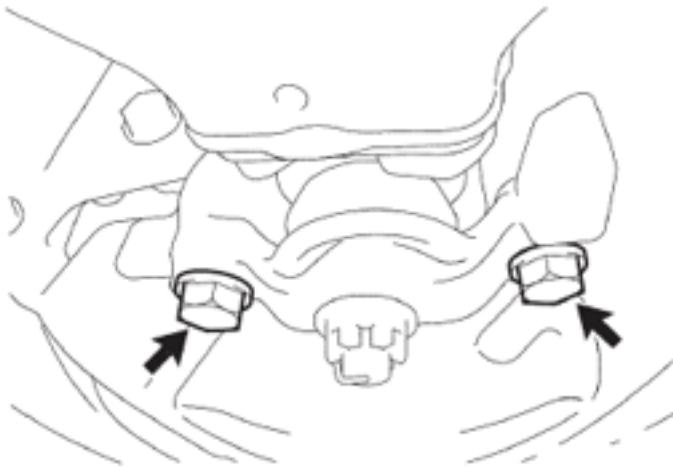
## STEP 5

Following the procedure listed in the Toyota Tacoma Factory Service Manual, remove the front axle hub grease cap with a screwdriver and ball peen hammer. Remove the cotter pin, adjusting cap, and front axle hub nut.



## STEP 6

Following the procedure listed in the Toyota Tacoma Factory Service Manual, remove the (2) bolts and separate the front lower ball joint attachment from the steering knuckle.

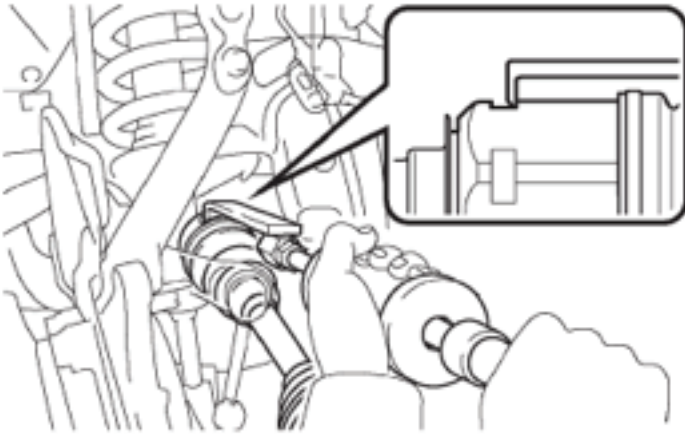


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## STEP 7

Following the procedure listed in the Toyota Tacoma Factory Service Manual, remove the CV Joint assembly with a CV Joint puller tool.

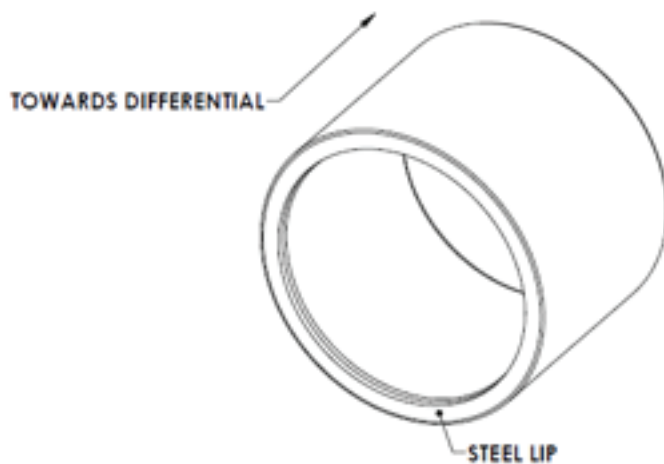


## STEP 8

Using a needle bearing remover, remove the stock needle bearing from the carrier.

## STEP 9

Using a seal driver, gently tap the needle bearing eliminator into the carrier. Make sure the lip is facing outward, as this will protect the bushing inside from damage during installation.



## STEP 10

Tap the needle bearing eliminator until it is flush with the face of the carrier. DO NOT install the needle bearing eliminator beyond the face of the carrier, otherwise it will contact the spider gears (oil seal removed for clarity).



## STEP 11

While the CV joint is out, inspect the seal and replace if necessary. Apply a coat of wheel bearing grease to the lip of the seal.

## STEP 12

Repeat Steps 3-7 in reverse order. Make sure to tighten all hardware to the torque specified in the Toyota Tacoma Factory Service Manual.

## STEP 13

Reinstall the transfer case drain plug. Remove the fill plug and fill the transfer case with the API GL-5 SAE 90 Hypoid gear oil or the gear oil recommended in your Toyota Tacoma Owner's Manual. Reinstall the fill plug.

## STEP 14

Verify all bolts have been reinstalled and torqued. Verify all wiring plugs been reconnected. Reinstall the front wheel. Take the vehicle for a short test drive. After the transfer case cools, recheck the gear oil level and fill as needed.