

INSTALL INSTRUCTIONS



TRAIL SAFE™ KNUCKLE BALL WIPER SEAL

140327-1-KIT (1979-1995 TOYOTA PICKUP & 4RUNNER)

KIT CONTENTS



140327-1-INS

RECOMMENDED TOOLS

3/8" Ratchet
Small Screwdriver

Sockets
10mm

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 kit 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 kit.
5. This installation is typical for most Toyota vehicles. Some years or models may vary. If necessary, refer to the proper Factory Service Manual for the year and model of your Toyota vehicle.



INSTALL INSTRUCTIONS (CONT'D.)



STEP 1

Lightly grease or lubricate seal.



STEP 2

The side of the seal with the 4 casting dots, as shown below, faces the 3rd member when installed.



STEP 3

The side of the seal with the writing on it, as shown below, faces the tire when installed.



STEP 4

Fold seal under on itself like shown in the picture.



STEP 5

Place folded portion of the seal in the bottom groove of the knuckle ball like shown below.



STEP 6

Pull seal up towards the top of the knuckle ball like shown below.



INSTALL INSTRUCTIONS (CONT'D.)



STEP 7

Work the seal up towards the top of the knuckle ball equally with both hands until seal is tight.



STEP 8

Using a small screwdriver or pry tool, place it between the seal and the top of the knuckle ball and gently pry back to pop the seal onto the knuckle ball. Use caution not to damage the seal or the surface of the knuckle ball with the pry tool.



STEP 8 CONT'D



STEP 9

Now that the seal has been placed on the knuckle ball, smooth the seal out, making sure that there are no kinks or dents in the seal.



STEP 10

Place the one-piece metal split ring on the knuckle ball.



STEP 11

Reinstall steering knuckle on the knuckle ball. Note: We will not be using the OEM felt or the OEM rubber gasket.



INSTALL INSTRUCTIONS (CONT'D.)



STEP 12

Install the one-piece metal retaining ring into the slot on the back of the knuckle.



STEP 13

Install the Trail Safe™ Knuckle Ball Wiper Seal over the one-piece metal retaining ring, trapping the ring in between the knuckle and the seal.



STEP 14

Install your Rock Rings over the Trail Safe™ Knuckle Ball Wiper Seal using the provided hardware.



STEP 15

When complete, your knuckle ball should look like this.



INSTALL INSTRUCTIONS (CONT'D.)



REPLACEMENT PARTS

