

WHITE KNUCKLE



OFF ROAD PRODUCTS®

OFF ROAD VEHICLE BODY PROTECTION

Toyota 4th Generation 4Runner and GX470 2003-2009

Thank you for choosing White Knuckle Rock Sliders

Please read instructions before beginning installation. Check hardware kit contents against content list below. Also, check the tools needed against the list below.

Hardware Kit

- 1-Drivers Side Rock Slider
- 1-Passenger Side Rock Slider
- 6 - U-bolts (5 – U-bolts for KDSS)
- 10 - 1/2" Nuts, Flat Washers, and Lock Washers
- 2 – 1/2" Nylock Locking Nuts
- 7/16" Spacer (1/2" nut) & M8 x 30mm Screw (KDSS only)
- 1 – 3/8" X 1" X 1-1/2" Plastic Spacers for Hard Line Clips with two sided tape

Tools Needed

- Floor Jack
- 2 Axle Stands
- 3/4" Wrench or Deep Socket
- 12mm & 13mm Wrenches

INSTALLATION INSTRUCTIONS

1. On the driver side rear mounting position, you will need to unsnap the plastic clip from the frame that holds the hard lines on the top of the frame (this can be done easily with a flat screw driver). This will allow the U-bolt to be pushed through from the back side of the frame.
2. Place the axle stands directly under the rocker panel. Place the rock slider on the axle stands **Figure 1**. Remove the bolts holding the Parking Brake cable (driver and passenger sides) to allow the slider to be set into place **Figure 3**.
3. Place the floor jack under the center of the rock slider and lift until the mounting plates are in a position to receive the U-bolts from the back side of the vehicle frame.
4. **NOTE:** Start with the front mount by installing the washer and locking nut on the upper U-Bolt leg as this area is more difficult because of the lack of space and may require movement of the slider towards the rear of the vehicle to gain the space needed to install the washer and locking nut. **NOTE:** Slide the U-bolt up from the bottom against the inside of the frame to insure brake lines, etc. will not be pinched by the U-bolt **Figure 4**. The U-bolt at the rear on the driver's side (marked with tag) may be difficult to put into place due to the restricted space but we have shortened it about 1/2" to make it easier to twist into place. Keep it as far to the rear as possible **Figure 2A**.
5. Next, push the U-bolts through the holes in the mounting plates. Place the flat washers, lock washers and nuts on the U-bolts but do not tighten at this point.
6. Once all of the bolts with washers have been started, check the slider position to the front, to the rear, and keep a consistent gap (around 1") between the slider and the bottom of the rocker panel. The front of the slider should be far enough to the rear to not contact the body mount. Tighten all of the nuts rotating from top to bottom to ensure the U-bolt stays straight. Recheck each for tightness.

7. Clean the area of the frame where the hard line plastic clip was unsnapped in **Step 1** so that the supplied plastic spacer can be fixed. Expose the adhesive on the two sided tape and attach the plastic spacer between the frame and the hard line clip then secure assembly in original location on frame **Figure 2B**. Finally, reinstall the Parking Brake cable bracket bolt if removed.
8. **GX470 with KDSS** Remove the KDSS hard line bracket screw from the frame to the rear of the pump and reservoir assembly **Figure 5**. No screw will be needed at this location. Next, remove the KDSS hard bracket screw on the inside frame rail at the front slider mount to allow for the front U-bolt to be put in place. After steps 1-7 have been completed, replace the factory screw with the supplied M8 x 30mm screw and 7/16" spacer (1/2" nut) **Figure 6**. **Note:** When positioning the front U-bolt, the KDSS hard lines will need to be gently pried away from the frame to give enough space to slip on the top side washer and nut on the U-bolt.

Figure 1



Figure 2A



Figure 2B



Figure 3



Figure 4

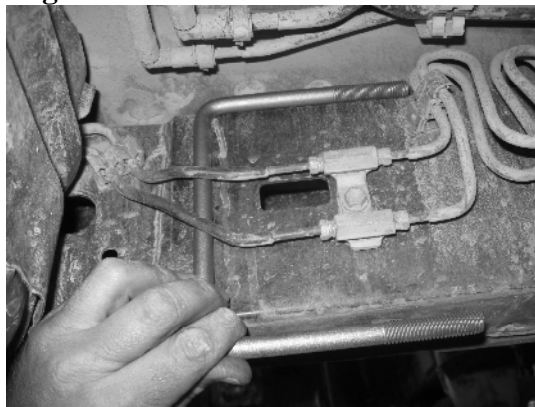


Figure 5



Figure 6



SAFETY FIRST

Observe proper safety procedures during installation. Improperly used tools and unsafe procedures can cause injury or death. Refer to manufacturers manuals for use and warnings of tools to be used. Modifications to your vehicle can cause dangerous conditions. The buyers and users of this product assume all risks associated with the installation and use of this product. All installations should be made by a qualified mechanic.

DISCLAIMER

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