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## 4<sup>th</sup> Gen 4 Runner Front Bumper - Installation Instructions:

Thank you for purchasing a ShrockWorks product. We are confident you will enjoy it for many years and find it to be superior in fit, quality and especially durability. If at any time during the installation you have any questions, please give us a call. We also welcome your feedback and suggestions via phone or email on all of our products.

### **Tools Required:**

- 10mm Socket
- 11mm Socket
- 12mm Socket
- 14mm Socket
- 19mm Socket
- Ratchet Wrench
- 1/8" Allen Wrench
- Drill
- 14mm Wrench
- 19mm Wrench
- Floor Jack
- Friend
- Utility Knife / Plastic Cutters
- Sawzall or Hack saw
- 1/4" Drill Bit
- Wire cutters
- 11mm wrench
- Needle Nose pliers

### **Parts Included: 4 Runner Front Bumper**

- |                                     |                          |                             |                         |
|-------------------------------------|--------------------------|-----------------------------|-------------------------|
| 6 - # 10 Cap Screws                 | 6 - # 10 Lock Washers    | 6 - # 10 Nuts               | 25 - 1/4" Washers       |
| 13 - 1/4" x 1" Bolts                | 17 - 1/4" Lock Washers   | 6 - 1/4" Nuts               | 18 - 5/16" Washers      |
| 1 - M6 1.0 x 16mm Bolt              | 8 - 1/2" SAE Washers     | 4 - 5/16" Lock Washers      | 9 - 3/8" Nuts           |
| 4 - M8 1.25 x 30mm Bolts            | 9 - 3/8" Lock Washers    | 7 - 3/8" x 1" Bolts         | 6 - 1/2" Lock Washers   |
| 4 - 1/2" Nuts                       | 2 - 3/8" x 3 1/4" Bolts  | 2 - M12 x 1.25 x 35mm Bolts | 4 - 1/2" x 1 1/2" Bolts |
| 1 - Driver Frame bracket            | 1 - Pass Frame Bracket   | 1 - A/C Line Ext. Tab       |                         |
| 1 - Stainless Skid Plate            | 1 - Winch Solenoid Mount | 2 - Light Wiring Plugs      |                         |
| 1 - hood latch ext. (2006-8 models) |                          |                             |                         |

### **Finishing bare steel 4 Runner Front Bumper**

1. Paint or powder coat them before installing to prevent rust.
2. Clean them thoroughly with a solvent like acetone, prime then paint.
3. We recommend Dupli-Color brand Black primer and semi-gloss black paint. It is available at most auto parts store like AutoZone and Napa. Hammerite brand black paint is also an excellent choice. It is more of a dark grey color though.
4. Let the paint dry hard before attempting installation, usually overnight.

## Installation Instructions:

### 1. Remove the stock front bumper shell

a. Disconnect turn signal lamps at the connectors and fog light bulb by rotating the bulb assembly  $\frac{1}{4}$  turn, the wiring and light will come out of the light assembly.



b. Take off the bumper cover by removing 3 clips on the top face between the headlights, and 6 bolts located on the sides and bottom. Locate the 4 claws that hold on the bumper cover that need to be popped loose (flat screwdriver). Remove the bumper cover.

c. Remove the 4 nuts at the frame end that fasten the stock internal bumper reinforcement.

e. Remove the black side supports near the front of the wheel well. They are fastened by 2 bolts each and also have claws that clip into square holes on the body.

f. Remove the stock skid plate fastened by 4 bolts (12mm socket) 2 in front and 2 on bottom toward the rear.



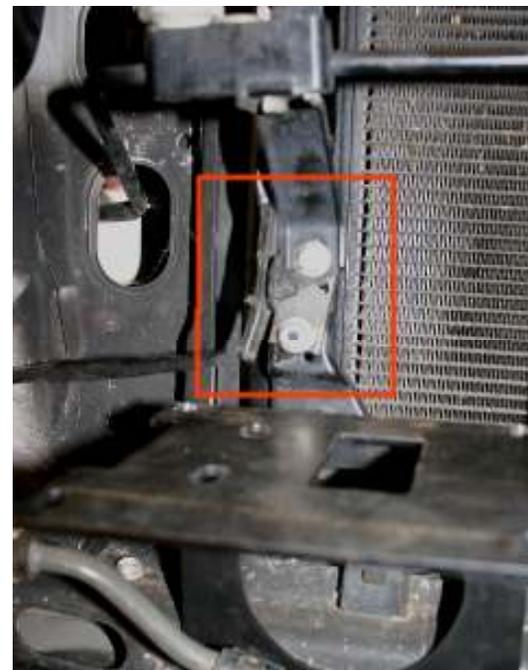
2. To make room for the winch, remove the center stock bumper shell support, the side supports need to be removed as well for bumper clearance. (pictured above to the right)



3. There is a silver hard line running parallel to the ground that needs to be slightly relocated to add clearance for the bumper.

a. On the driver side there is a tab with a white clip holding the hard line. Pop the line out of the white clip, use needle nose pliers to remove the clip from the bracket and reinstall the clip on the back side of the bracket. Reinstall the line in the clip. (pictured on left)

b. (pictured on right) On the passenger side the hard line is fastened to a bracket, unbolt the bracket and add the extension tab provided with the bumper bolt kit. This raises the line to clear a winch solenoid box. Use the stock nut to



fasten the bottom of the tab and 1/4" bolt, 2 - 1/4" washers, 1/4" lock washer and a 1/4" nut to fasten the A/C line to the top. Also shown is the remote the solenoid mount, which mounts with 1 stock bolt and 1 - M6 1.0 x 16mm bolt provided with a 1/4" washer and 1/4" lock washer in the stock threaded hole in the body. This mount will work with both Warn and Ramsey winches, some modification may be necessary for other makes.

5. Trim the sheet metal tab in the center which reinforced the stock bumper support (see step 3 and pic on lower right)

4. **2006 and newer models:** Trim the stock bumper shell support bracket located just inside of the headlight. (pictured below)



6. Install the Shrockworks Bumper Brackets with the stock nuts on the frame end and the M12 1.25 x 35mm with a 1/2" SAE Washer and 1/2" Lock Washer into the threaded frame hole on the side of the radiator cross member. Use the 3/8" x 3 1/4" bolt with a 5/16" washer only (no lock washer) on the inside of the frame and a 5/16" washer and lock washer on the outside of the frame. The radiator is very close, check your radiator placement so there is no rubbing on the side plastic. Stack additional washers on the outside (See Bolt #1 below) as needed to ensure the bolt does not protrude out past the nut. There are two pics below to illustrate this. This bolt is optional and really isn't needed. If there is any doubt about the clearance, just leave it off. Leave the bumper mounts finger tight until the bumper is mounted, this will make the install a lot easier. **NOTE:** Check that the AC Line (small aluminum line in front of radiator) is not contacting the bumper. If contact is allowed, the steel will eventually rub a hole in the line. The line can be bent slightly to allow clearance.



7. The winch can be installed before or after the bumper is installed but if you have help, we prefer to install it before we installed the bumper. When fitting the winch make sure to adjust the winch and fairlead, so there is no contact between the winch line and the opening in the bumper face. We also took this time to wire and install the turn signals and fog lights while the bumper was on the floor, plugging them into the harnesses on the vehicle once the bumper is on. (See PIC G)



Wiring Info:

The PIAA harness and relay doesn't need to be run. Just cut the connector from the PIAA harness leaving a usable amount of wire to be able to splice to the stock Toyota fog light harness.

	Turn	Running Light	PIAA
Passenger	White to Black/White	Black to Red/Yellow	White to Green Black to Black/White
Driver	White to Black/White	Black to Red/Black	White to Green Black to Black/White

8. When installing the **SHROCKWORKS** Bumper it would be good to have a friend give you a hand. We suggest using a floor jack to slowly lift it into position. The mounts on the bumper will slide in between the frame brackets. With help, lift the bumper on to a floor jack in front of mounting brackets. Install the 1/2" bolts from the outside in. Use 1/2" SAE washers on both sides and 1/2" lock washers and nuts on the inside face. The bolt placement is tight so it is recommended that the bolts be installed from the top down. Use the jack to help keep the bumper level. We used a wrench on the outside and a socket wrench on the inside. Align the bumper to the preferred location, mark and drill for the 3/8" check bolts on the mounts.

**Torque specs:**

**SAE**

- 1/2" - 85 ft/lbs
- 3/8" - 33 ft/lbs
- 1/4" - 10 ft/lbs

**Metric**

- M12 - 65 ft/lbs
- M8 - 25 ft/lbs
- M6 - 5 ft/lbs



9. Take the stock skid plate and cut off the hooks on the front face located near the front mounting holes (pictured on left)

**10.** Use 3 - 3/8" x 1" bolts with 2 - 5/16" washers, a 3/8" lock washer and a 3/8" nut to loosely fasten the wide part of the Shrockworks Skid Plate to the bottom bumper face. There are 2 stock bolts that hold a transmission line and 2 bolts bolting the stock skid to the x-member. We provide 4 - M8 1.25 x 30mm bolts to replace the stock bolts fastening the transmission tabs and bolt through the Shrockworks Skid Plate. Now that the stock skid plate is modified, use the remaining 2 - M8 1.25 x 30mm bolts and 1/4" hardware to fasten the stock skid over the Shrockworks skid using stock threaded holes. (pictured on right)



**11.** Install the optional side splash guards now using 1/4" x 1" bolts a 1/4" washer and 1/4" lock washer in each hole on the bottom face of the bumper wings. Once the splash guard is tightened, drill a hole on the Frame Mount Bracket using the tab on the splash guard as a guide. Fasten with 1/4" x 1" bolts washers, lock washers and nuts. (pictured on right)



**12.** The inner fender will need to be trimmed back. This can be done with a utility knife. To fit the plastic to the Shrockworks bumper, the stock fasteners can be modified with a file for the metal thickness and reused with the holes provided in the bumper end cap. (pictured on the right)



**13. 2006 MODELS ONLY.** A 1/4" hole will need to be drilled into the hood release to bolt an extension for opening the hood. Bolt the extension on top of the lever facing the grill. Fasten with 1/4" hardware provided. (pictured below)



**14. Make sure to tighten all hardware**