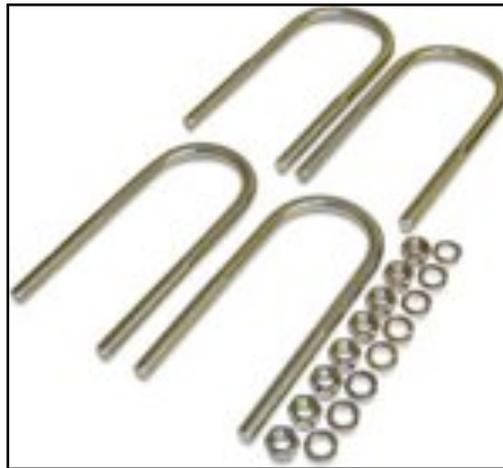


86-95 Suzuki Samurai Replacement U-bolts, Stock and Extended Length (SKU# SSP-UB)

Installation Instructions



CAUTION: Safety glasses should be worn at all times when working with vehicles and related tools and equipment.



FOR ADDITIONAL COPIES OF THESE AND OTHER INSTRUCTIONS GO TO:

www.lowrangeoffroad.com and click on the "TECH AND INSTRUCTIONS" tab.

Suggested Tools:

- Twin Post Lift (or Floor Jack and 2 Jack Stands)
- Ratchet (or 1/2 drive Impact Wrench)
- Socket (or Impact Socket): 17 & 19 mm
- Torque Wrench, 1/2" Drive

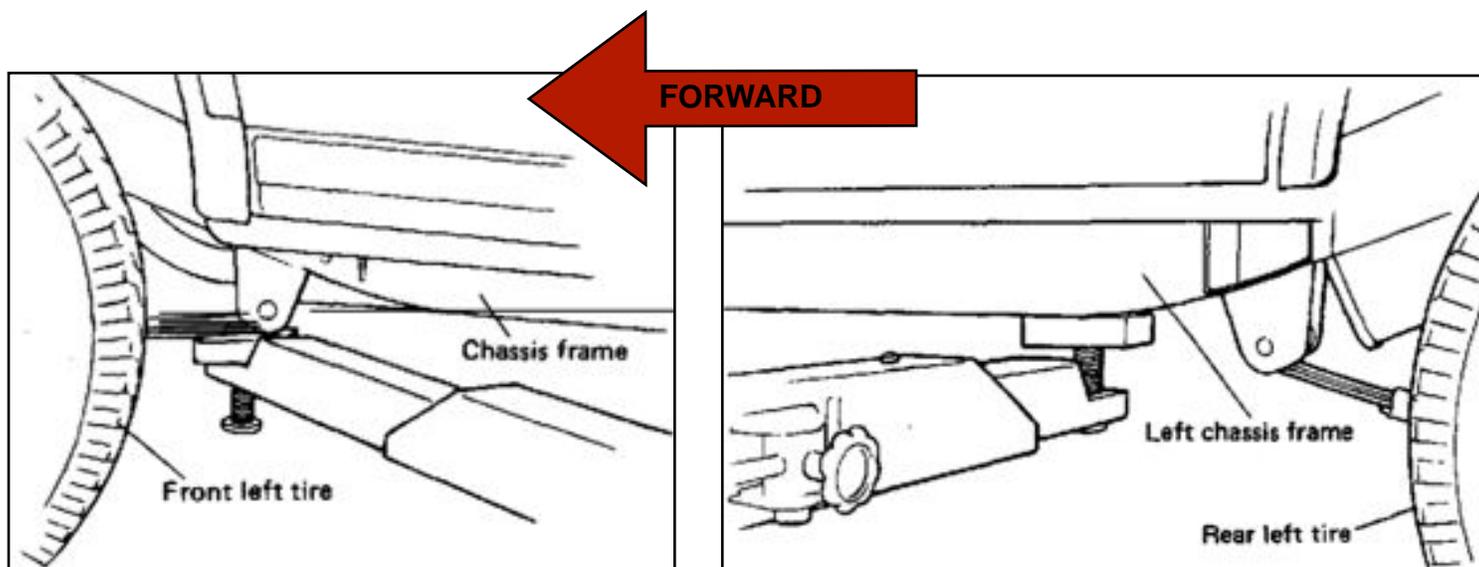
REPLACING FRONT U-BOLTS

Lifting and Supporting the Vehicle



Lifting Option 1

Lift and support the vehicle on a twin post, frame contact, lift.

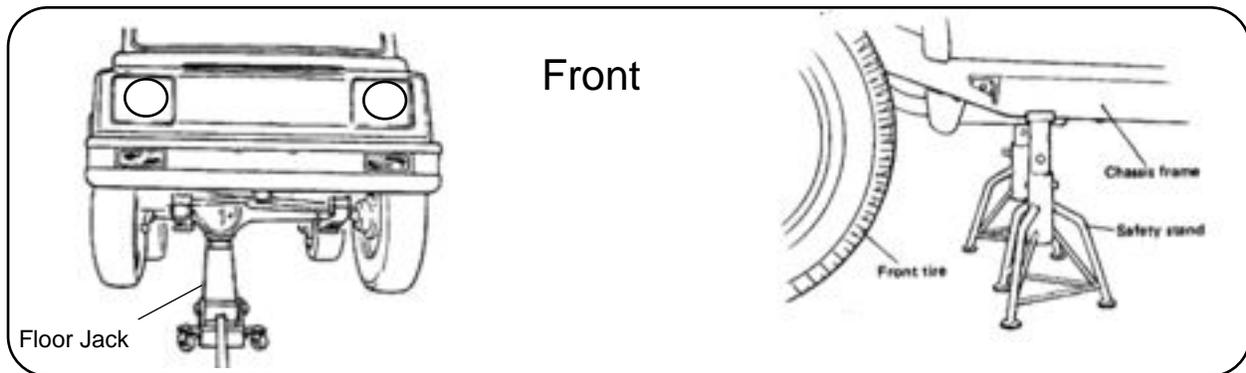


Front Positioning

Rear Positioning

Lifting Option 2

Lift the front of the vehicle with a floor jack and support it on safety stands.



Tech Tip

When working on suspension, brakes or drive train parts it is a good idea to spray all fasteners with penetrating oil a day ahead. If not done a day ahead, an hour or even minutes before is helpful.

Front Suspension Parts Identification

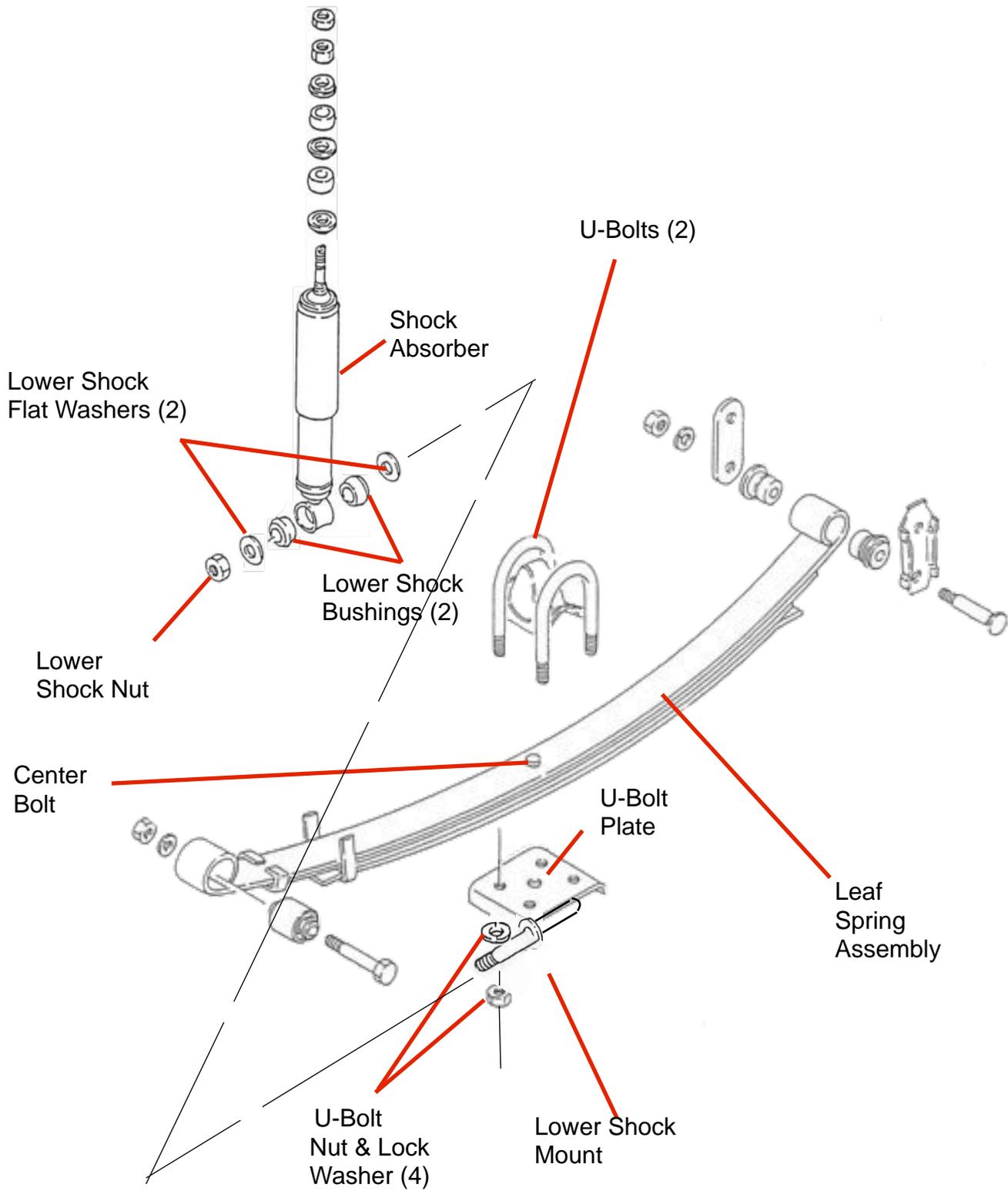


Figure B



Beginning on the DRIVER Side

Disconnecting the Lower Shock Mount (Optional)

If the shock absorber is not connected to the U-Bolt Plate or you chose not to disconnect the lower end of the shock absorber, skip to **Step 4**. (Disconnecting the lower shock mount is optional.)



Step 1

Begin disconnecting the lower shock absorber by removing the nut using a 17 mm ratcheting box end wrench (or socket).



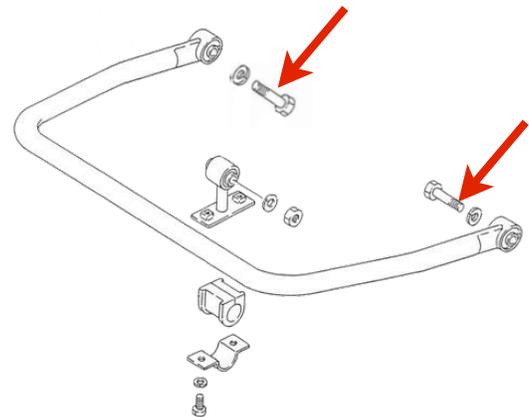
Step 2

Remove the flat washer.



Step 3

Disconnect the bottom of the shock.



Step 4

The Samurai we were working with did not have a stabilizer bar on it. If the vehicle you are working with has a stabilizer bar, simply remove the bolts shown by the arrows and let the stabilizer bar drop down out of the way.

Replacing Driver Side U-Bolts



Step 5

Remove the (4) driver side U-bolt nuts and lock washers using a 17 mm socket.

Note: If the vehicle you are working with has a SPOA (Spring Over Axle) set up, you will need to support the axle with a jack stand before removing these nuts.



Step 7

Remove the (2) U-bolts.



Step 6

Remove the U-Bolt plate.

Note: If the shock absorber is still connected to the U-Bolt plate, simply leave it connected and the U-bolt plate will remain in its general location. Alternatively, the shock could be disconnected from the lower shock mount at this time if desired.



Step 8

Insure that the center bolt of the leaf spring remains properly positioned in the spring pad of the front axle assembly.

Note: These photographs were taken of a Samurai that we converted from a stock spring under axle to a SPOA (Spring Over Axle) set up. But the principal is the same for either set up.

Passenger Side

Driver Side



Tech Tip

The (2) **PASSENGER** side U-Bolts are larger than the (2) **DRIVER** side U-Bolts.

Step 9

Position the U-Bolt plate on the opposite side of the leaf spring from the front axle assembly. Install the supplied **SMALLER** U-Bolts. Then Install the supplied (4) lock washers and (4) nuts.



Step 10

Snug the nuts in a criss-cross fashion using a 19 mm socket. The number of U-bolt threads showing above the nuts should be uniform among the 4 U-bolt ends. Using a torque wrench, continue tightening until 43.5 to 57.5 ft. lbs. is reached.

Tech Tip 10

If there are more than 8 to 10 threads extending above the nuts, cut them off using a die grinder and cut-off wheel.

Caution: Be sure to use eye and face protection when using a cut-off wheel.



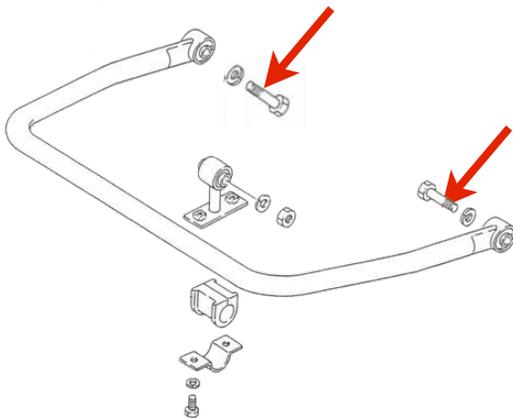
Step 11

Reconnect the lower shock absorber if disconnected earlier and torque the nut 25.5 to 39.5 ft. lbs.



Step 12

Repeat **Steps 1 through 11** on the PASSENGER side.



Step 13

Reconnect the stabilizer bar if equipped. Torque the bolts 51 to 65 ft. lbs.

Caution!!

U-Bolt nuts may become loose within the first 500 miles of operation. Therefore it is critical that they be checked and re-torqued if necessary at the end of the first 500 miles after installation.



REPLACING REAR U-BOLTS

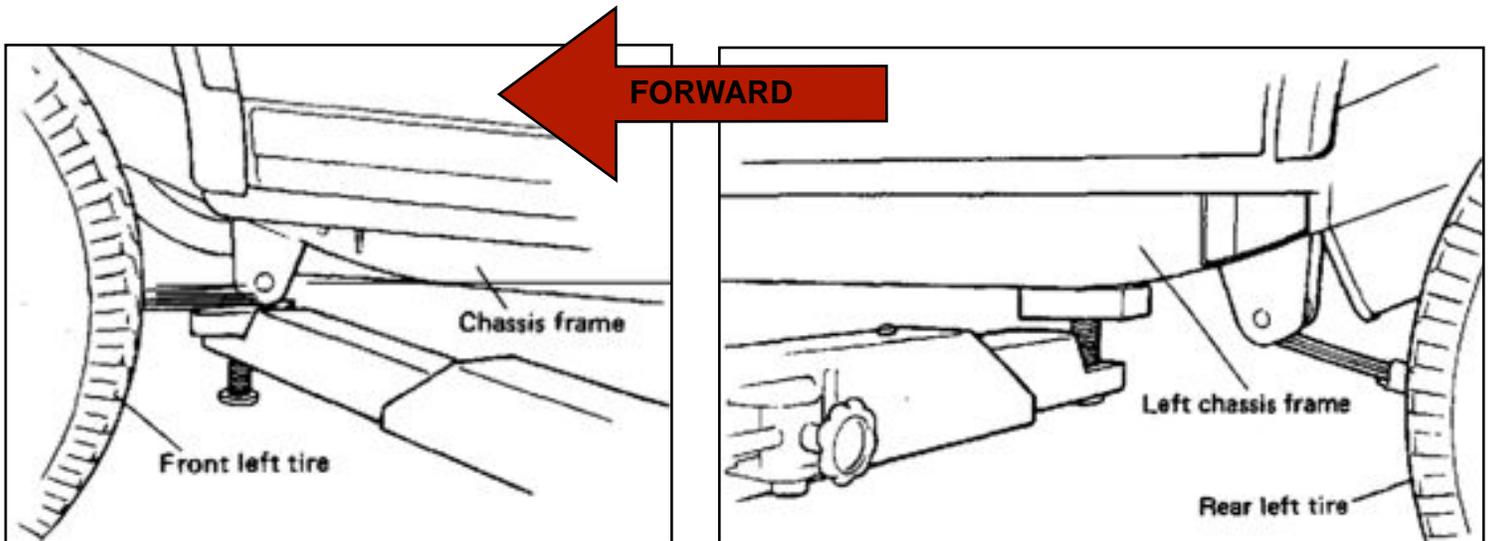


Lifting and Supporting the Vehicle



Lifting Option 1

Lift and support the vehicle on a twin post, frame contact, lift.

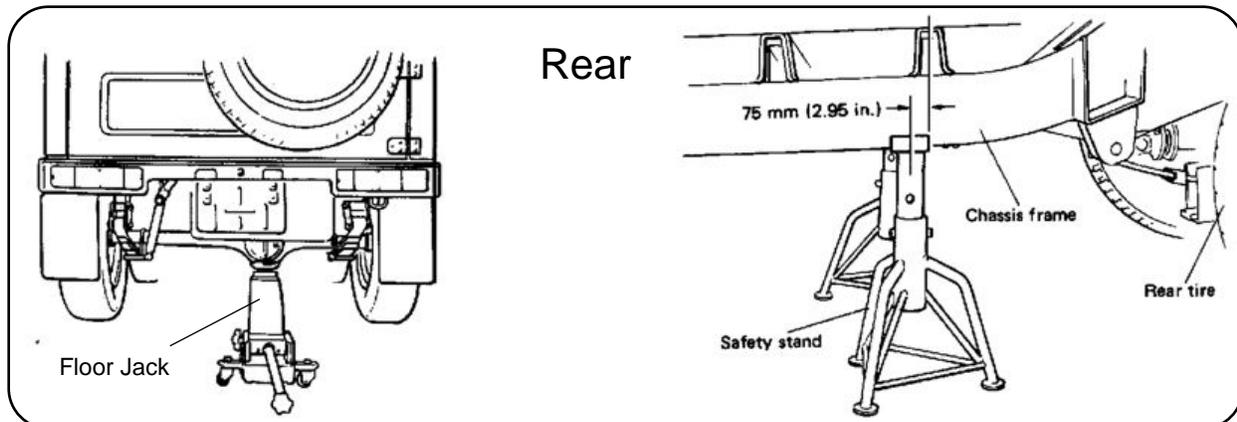


Front Positioning

Rear Positioning

Lifting Option 2

Lift the rear of the vehicle with a floor jack and support it on safety stands.



Step 14

The rear U-Bolts are removed and replaced the same way as the front. The only difference between the front and rear U-Bolts is that the rear U-Bolts are all the same size.

Note: Don't not forget to check and re-torque the U-Bolts after the first 500 miles.

Congratulations!

You have successfully replaced the U-Bolts on your Samurai. We hope these instructions have been helpful. If you have suggestions on how we could improve our products or instructions please email us at sales@lowrangeoffroad.com or call Tech Support. The number is listed at the bottom of each page.





As always, If you experience any difficulty during the installation of this product please contact Low Range Off-Road Technical Support at 801-805-6644 M-F 8am-5pm MST. Thank you for purchasing from Low Range Off-Road.



These instructions are designed as a general installation guide. Installation of many Low Range Off-Road products require specialized skills such as metal fabrication, welding and mechanical trouble shooting. If you have any questions or are unsure about how to proceed, please contact our shop at 801-805-6644 or seek help from a competent fabricator. Using fabrication tools such as welders, torches and grinders can cause serious bodily harm and death. Please operate equipment carefully and observe proper safety procedures.

Rock crawling and off-road driving are inherently dangerous activities. Some modifications will adversely affect the on-road handling characteristics of your vehicle. All products sold by Low Range Off-Road are sold for off road use only. Any other use or application is the responsibility of the purchaser and/or user. Some modifications and installation of certain aftermarket parts may under certain circumstances void your original dealer warranty. Modification of your vehicle may create dangerous conditions, which could cause roll-overs resulting in serious bodily injury or death. Buyers and users of these products hereby expressly assume all risks associated with any such modifications and use.

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