

Instructions Created by an:



**Automotive  
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MASTER AUTO TECHNICIAN



## Suzuki Samurai Full Time 4WD Drive Flange Kit (SKU# SAX-DF)



We recommend that you consider replacing the hub bolts when installing this kit. Click [HERE](#) for more info.



**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](http://www.lowrangeoffroad.com) and click on the "INSTRUCTIONS" tab.

### Suggested Tools:

- Twin Post Lift (or Floor Jack and 2 Jack Stands)
- Sockets: 10 and 12mm
- Ratchet, 3/8 Drive
- 4" Extension, 3/8 Drive
- Small Standard Screwdriver
- Dead Blow Hammer
- 1-5/8" ID Pipe (6 Inches long) [or 45mm socket]
- RTV Gasket Maker
- Snap Ring Spreader Pliers
- Snap Ring Pliers
- Brake Cleaner, Aerosol
- Cleaning Cloth



Snap Ring  
Pliers



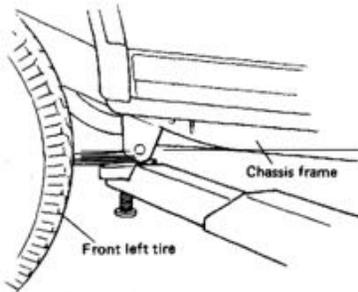
Snap Ring  
Spreader Pliers

## Lifting and Supporting the Vehicle

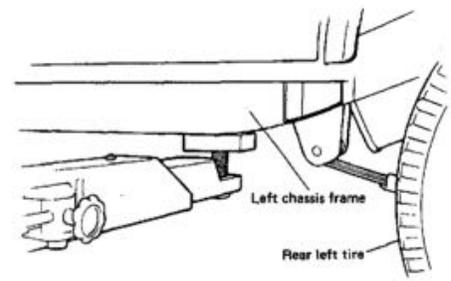
### Lifting Option 1

Lift and support the vehicle on a twin post lift.

**CAUTION:** Always follow the safety guidelines associated with the lift you are using.



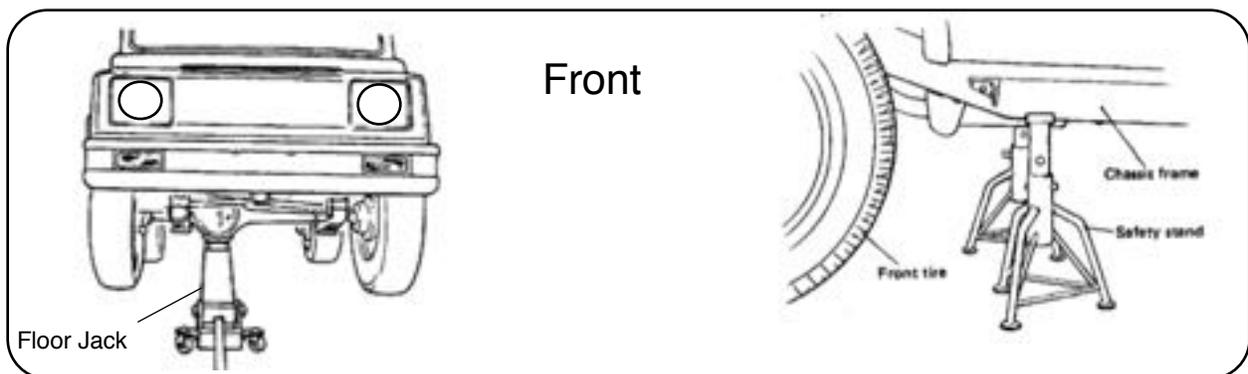
Front Support Location



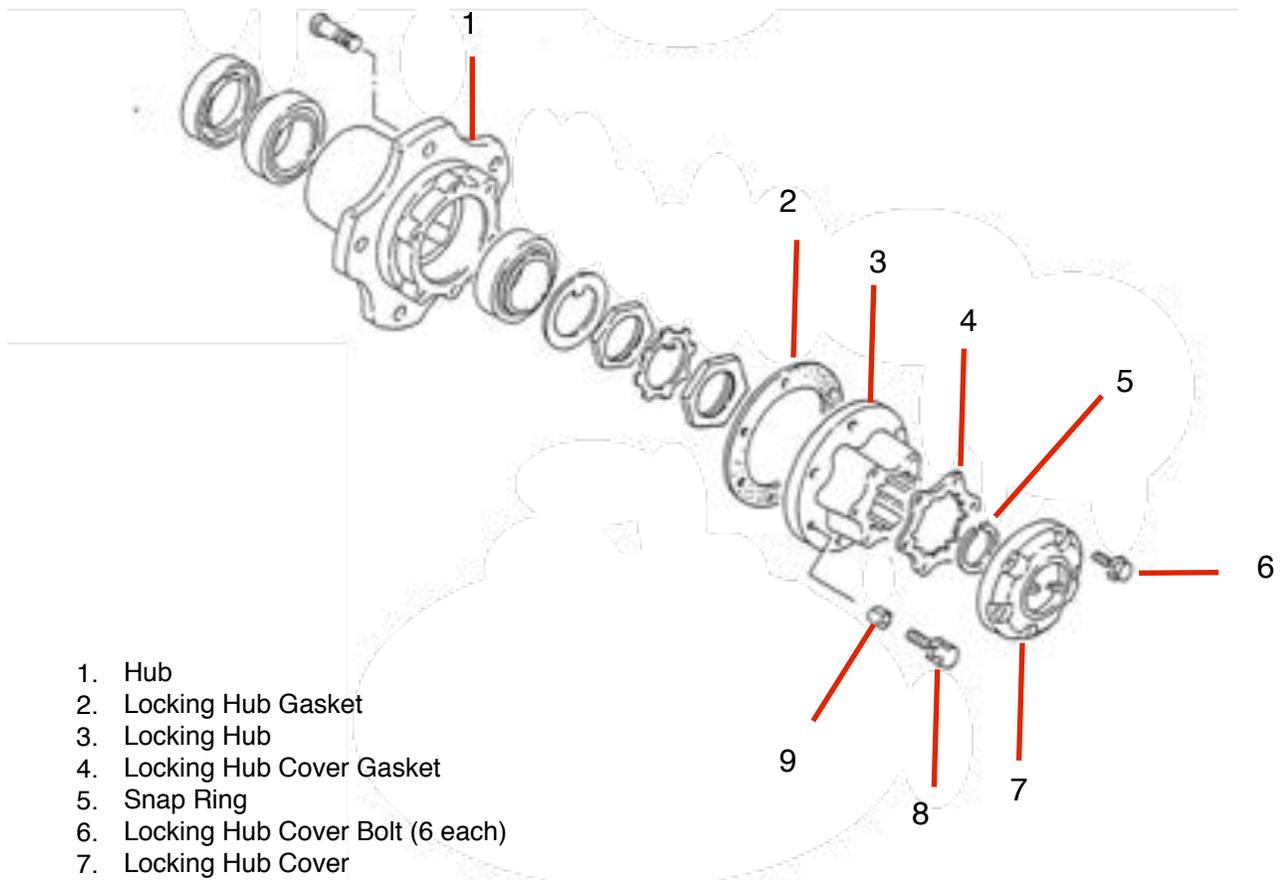
Rear Support Location

### Lifting Option 2

Lift the front of the vehicle with a floor jack and support it on (2) safety stands.



## Parts Identification



1. Hub
2. Locking Hub Gasket
3. Locking Hub
4. Locking Hub Cover Gasket
5. Snap Ring
6. Locking Hub Cover Bolt (6 each)
7. Locking Hub Cover
8. Locking Hub Bolt & Lock Washer (6 each)
9. Locking Hub Cone Washer (6 each)



### Step 1

Beginning on the driver side, place the locking hub in the “FREE” position.



### Step 2

Remove the (6) hub cover bolts using a 10mm Socket.



### Step 3

Remove the hub cover and set it aside.



### Step 4

Remove one locking hub bolt, lock washer and cone washer.





### Step 5

Remove the cone washer from the bolt by spreading it apart using a small standard screwdriver.



### Step 6

Remove the remaining (5) locking hub bolts, lock washers and cone washers and remove the cone washers from the bolts.

Note: Lock washers remain in place.



### Step 7

Remove the snap ring using snap ring spreader pliers.



### Step 8

Remove the hub and set it aside.





## Step 9

Remove the hub gasket.



## Tech Tip 9

Now would be a good time to service (remove, clean, repack and adjust) the wheel bearings.



Click [HERE](#) for step by step instructions on how to service these bearings. Follow **Steps 20-26** for disassembly and **Steps 87-102** for reassembly. Be sure to clean and inspect the bearings, seals, races and hub before reassembly.



## Step 10

Remove any remaining gasket material using a gasket scraper.



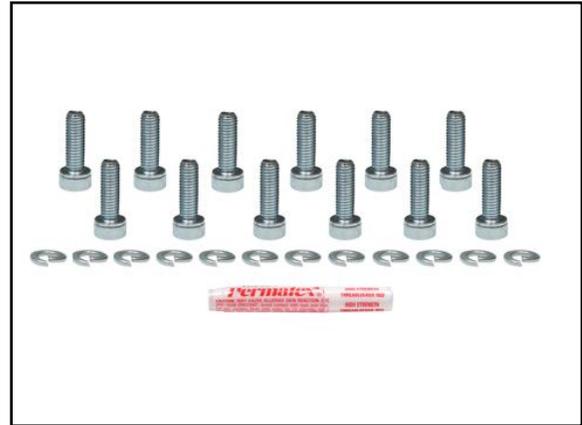
## Step 11

Clean the hub surface of any grease or dirt using brake cleaner. . . .





**Step 12**  
... and a cloth.



### Tech Tip 12

If your Samurai still has the OEM (Original Equipment Manufacturer) hub bolts, we recommend swapping them with these new stronger upgraded hub bolts. You could order them now and install them later if you wish.

### [Suzuki Samurai and Sidekick Upgraded Hub Bolt Kit](#)



**Step 13**  
Position the supplied hub gasket on the supplied hub and align the holes.



**Step 14**  
Position the hub on the splines of the axle shaft and align the bolt holes as best you can.





### Step 15

If the bolt holes do not align, hold the hub and rotate the tire until the bolt holes align.



### Step 16

Install all the bolts and lock washers except for one.



### Step 17

Install the remaining hub bolt in the center of the axle shaft to be used as a temporary handle. Pull the axle as far out as possible. This will expose the snap ring groove so the snap ring can be installed.



### Step 18

Install the supplied snap ring on the axle. Be sure the snap ring is seated all the way around in the axle groove.





### Step 19

Remove the bolt and lock washer from the axle and install it in the hub.



### Step 20

Tighten all 6 bolts in a progressively tighter criss-cross pattern until 18-25 ft. lbs. is reached.



### Step 21

Apply a thin film of RTV gasket maker to the inside of the supplied dust cap.



### Step 22

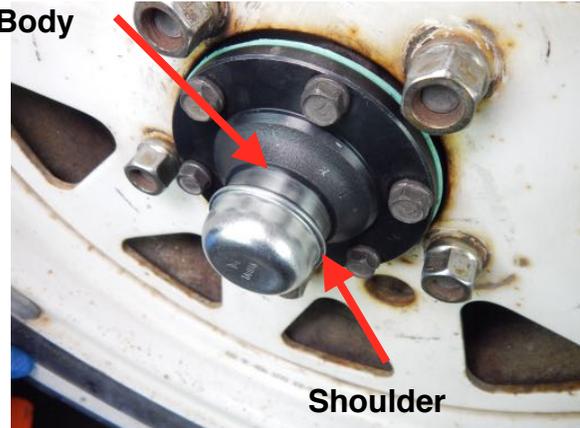
Start the dust cap on the hub by taping it lightly using a dead blow (soft) hammer. Be sure the dust cap starts on the hub squarely.



### Step 23

Finish seating the dust cap by placing a 1-5/8" inside diameter pipe (or a 45 mm socket) over the dust cap and driving the dust cap the rest of the way on.

Hub Main  
Body



### Tech Tip 23

The Pipe should fit over the dust cap and press against the **Shoulder**. The dust cap should go on until it touches the **Hub Main Body**.



### Step 24

Repeat all previous steps on the passenger side wheel.



### Congratulations!

You have successfully installed a set of drive flanges. We hope these instructions have been helpful. If you have suggestions on how to make these instructions (or products) better, please email us at:

[sales@lowrangeoffroad.com](mailto:sales@lowrangeoffroad.com)



As always, If you experience any difficulty during the installation of this product please email us at [sales@lowrangeoffroad.com](mailto:sales@lowrangeoffroad.com) or call 801-805-6644 M-F between 8:00am to 5:00pm. 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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