

86-95 Samurai (SJ413) SJ410 Aluminum Replacement Door Handles (SKU# SEB-ADH)

Installation Instructions



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



Suggested Tools:

- Small Standard Screwdriver
- Large Standard Screwdriver
- Phillips Screwdriver
- 1/8" pin punch
- Small Ball Peen Hammer
- 10 mm socket
- 5 mm Deep Socket
- Flat File
- Bench Vice
- Window Handle Removal Tool



- Door Trim Removal Tool



- Pick Tool





Step 1

Remove the inside handle case by removing (1) phillips screw.



Step 2

Remove the window handle.



Window
Handle Clip



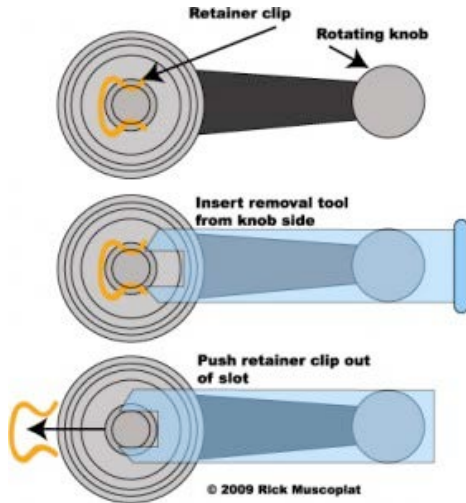
Handle
Removal tool

This picture shows the clip that needs to be removed in order to remove the window handle.

Removal Method A

Window handle removal with handle removal tool.

A 4 piece tool set which includes a window handle removal tool and a door panel removal tool can be purchased through our web site.



Removal Method A Illustrated

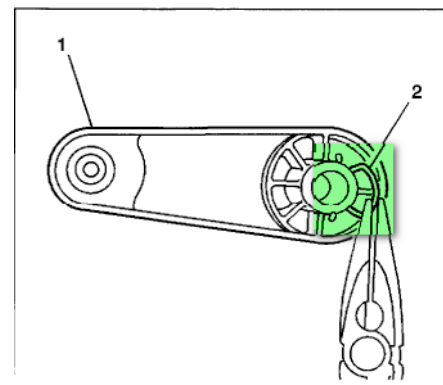


Removal Method B

Window handle removal with a rag.



Removal Method B Illustrated



Removal Method C

Window handle clip removal with pliers (or hook).

A new Replacement Window Handle can be purchased on our website.





Step 3

Remove the pull handle by removing (2) phillips screws.



Step 4

Remove the stopper band by removing (2) phillips screws.



Step 5

Separate the door panel from the door using a door trim tool like this one.



Tech Tip A

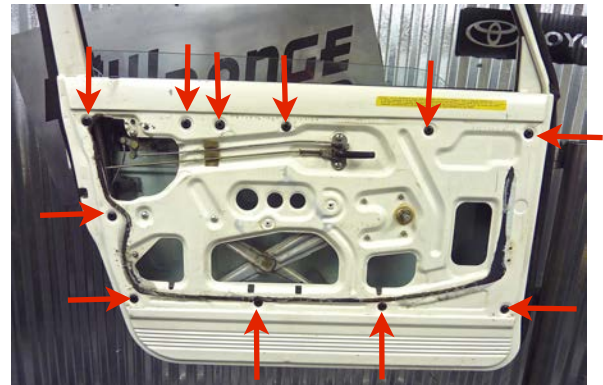
Pop the fasteners loose by placing the tool behind the panel and prying gently at each fastener location. (See Tech Tip C on the next page for fastener locations)





Tech Tip B

Showing proper tool positioning with door panel removed for a clearer view.



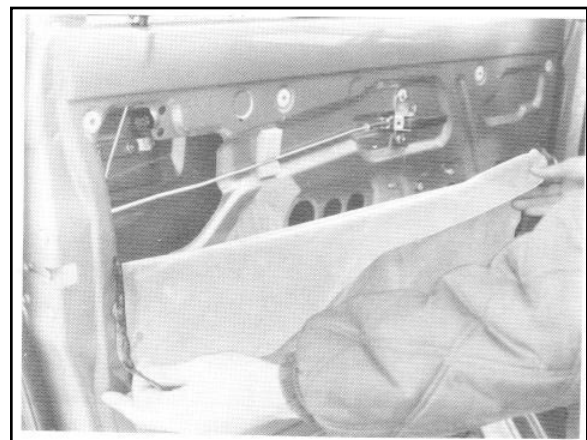
Tech Tip C

This picture shows the location of each of the (11) clips that need to be popped loose.



Step 6

Remove the door panel and set it aside.



Step 7

Remove the waterproof film. If you are patient and careful the film and sealant can be reused.

Note: The Samurai door we worked on did not have this film in place. If the door you are working with still has this film, just peel it down, leaving the bottom of the film attached to the door.





Step 8

If installed, remove the clip from the window handle and temporarily install the handle back on the window regulator.



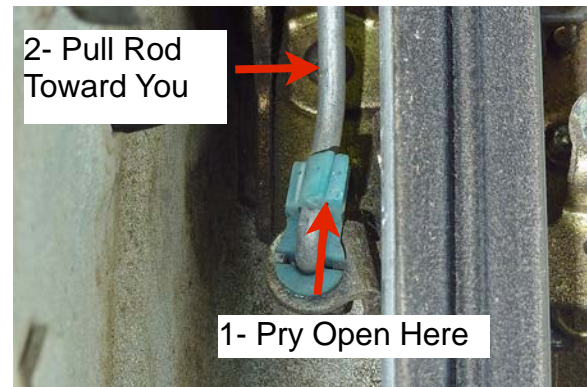
Step 9

Turn the handle, moving the window all the way up.



Step 10

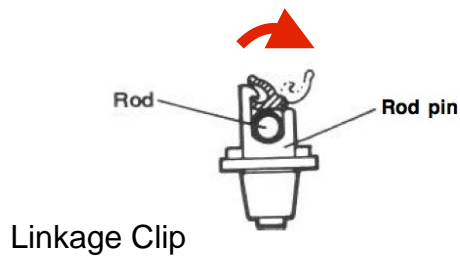
Disconnect the door lock linkage at the point shown by the arrow.



Tech Tip

Pry the clip open with a pick (or small screwdriver) and pull the linkage toward you.

Caution: These clips can be brittle and easily broken, so take your time with this step.





Step 11

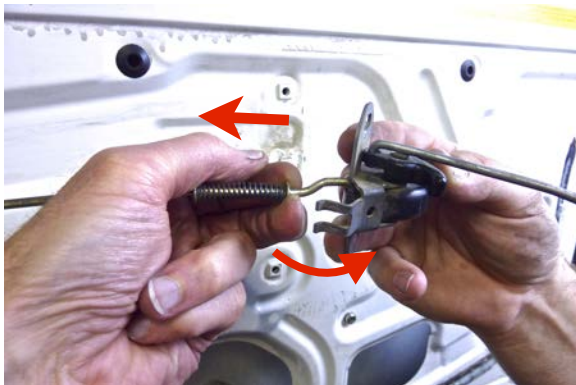
Disconnect the lock linkage pivot by removing (1) phillips screw.



Step 12

Disconnect the door handle mount by removing (2) phillips screws.

Note: These screws can be tough to remove. We recommend using a tool called an Impact Driver.



Step 13

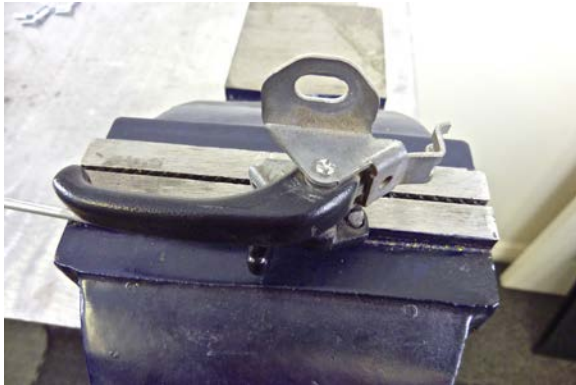
Disconnect the door handle linkage spring as shown.



Step 14

Position the door handle as shown. Then disconnect the linkage by lifting up on the linkage rod.





Step 15

Secure the door handle assembly in a vice as shown.

Note: Notice the "X" on the bottom of the pin.



Step 16

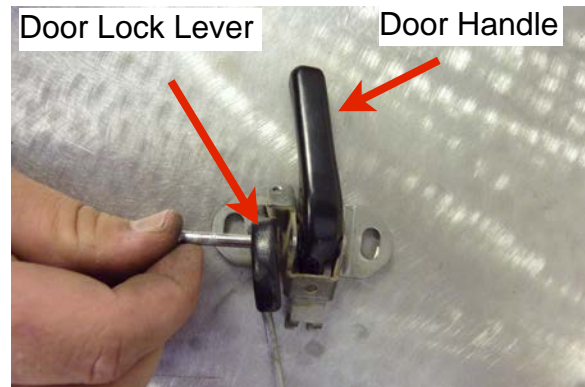
File the "X" part of the hinge pin until it is flush with the door handle bracket as shown.



Step 17

Place the door lock assembly on a 10 mm socket as shown. Using an 1/8 " punch, drive the pin out of the door lock assembly.

Note: Keep track of the pin. It will be reused with the new door handle.



Step 18

Remove the pin. Remove the old door handle. Install the new door handle and reinstall the pin.

Note: Only the door handle, not the door LOCK lever, is replaced.



Step 19

Place the door handle assembly on a solid surface and tap the pin into place.

Note: Be sure the pin goes all the way in. The pin should be flush with the bracket on the bottom side.



Tech Tip

This is what the pin should look like when center punched correctly.



Step 20

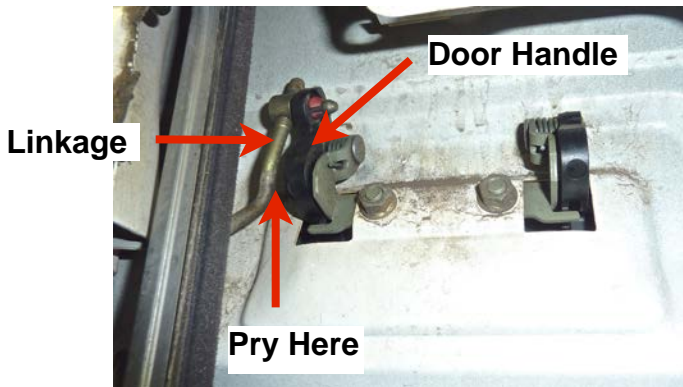
Position the door handle assembly such that the pin is against something solid and center punch the bottom end of the pin. This is the end of the pin that was filed away.

Note: We used a vice, but any solid surface would work.

Note:

If you are NOT replacing the exterior door handle, skip to **Step 34**.



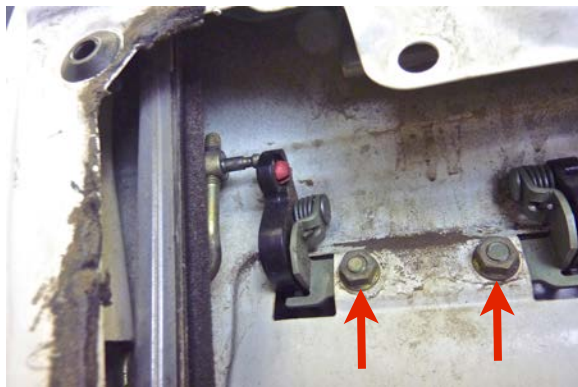


Step 21

Disconnect the door handle linkage by placing a large standard screwdriver between the handle and the linkage, as indicated by the arrow in the picture and prying gently.

Tech Tip

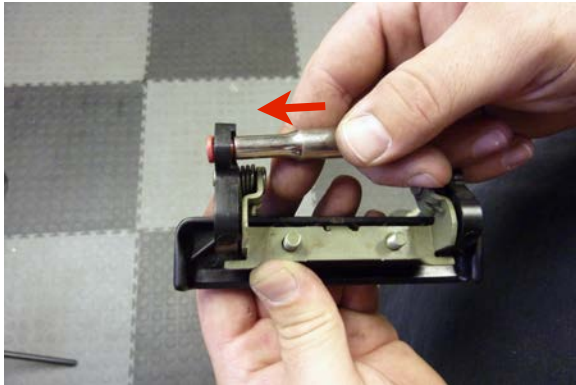
This shows the linkage properly disconnected.



Door handle removed.

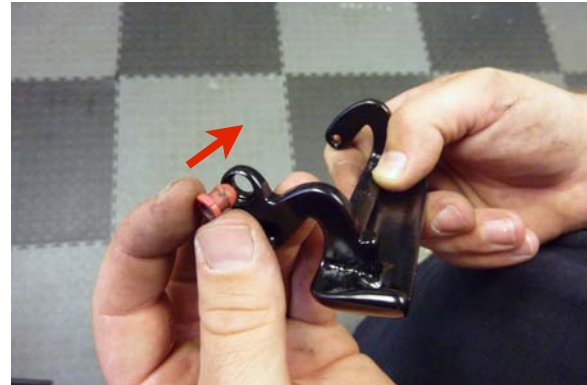
Step 22

Remove the door handle from the door by removing (2) nuts with a 10 mm socket.



Step 23

Remove the linkage grommet with a 5 mm deep socket by pushing on the grommet as shown in the picture.



Step 24

Install the grommet into the new handle by pressing it into place with your thumb.



Caution:

Before taking the next step, be sure to take note of the positioning of the springs BEFORE you remove them. You may even want to take some pictures if you have a digital camera.



Step 25

Place the handle in a vice as shown.





Step 26

Using a 1/4" drill bit and hand drill, drill out the pin until the washer is released.

Note: Do not worry about over-drilling. You will not be using the pin, washer or handle again.

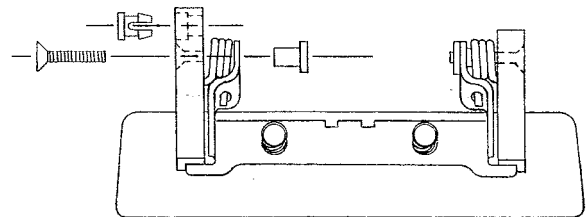


Step 27

Using a 1/8" pin punch, push the pin out of the handle.

Step 28

Repeat steps 25 and 27 on the other pin.



Step 29

Using the supplied (2) screws and (2) nylon nuts, attach the new handle as shown.

Note: Be sure the springs are positioned properly. See subsequent pictures for greater detail.



Tech Tip

Proper positioning of plastic nut and spring.



Tech Tip

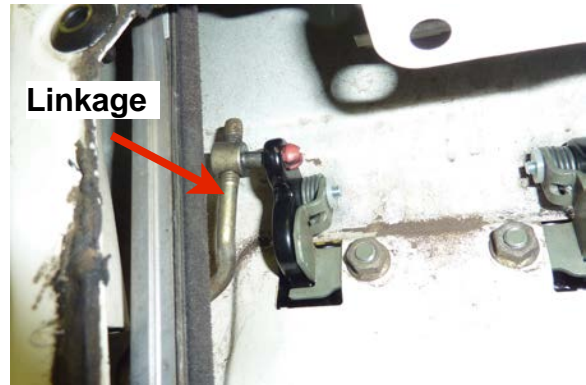
Proper positioning of screw and spring.



Step 30

Reinstall the door handle back in the door and install the (2) nuts from the inside of the door.

Note: The nuts are shown in next picture.

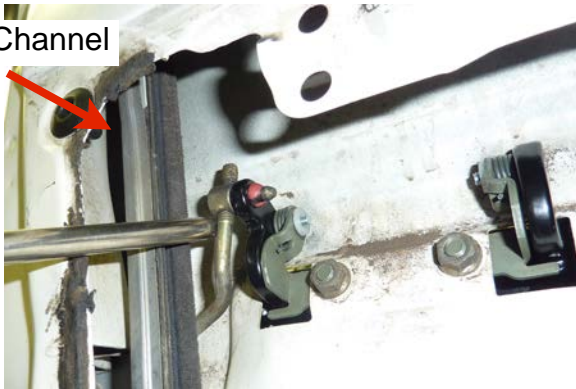


Step 31

Position the door handle linkage as shown.



Window Channel



Step 32

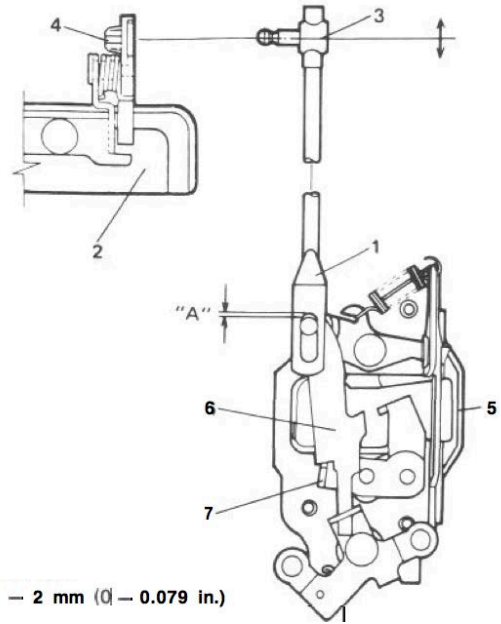
Snap the door handle linkage into place by gently prying against it with a screwdriver.

Caution: Be careful not damage the window channel.



Step 33

Test the door handle for proper operation.



Tech Tip

With the door handle released (normal position) dimension "A" should be 0 - 2 mm. If this dimension is not correct, disconnect the linkage, thread the linkage (Part 3) up or down as needed, and reattach it.



Step 34

Position the door latch assembly and linkages as shown



Step 35

While holding the linkages install the (2) door handle assembly screws.



Step 36

Install the lock linkage pivot screw as shown.



Step 37

Reconnect the lock linkage inside the door.



Step 38

Test to see that the door lock and door handle work properly.





Step 39

Remove the window handle.

Step 40

Replace the waterproof film if removed earlier. If the film has minor damage it can be repaired with vinyl tape.



Step 41

Align the fasteners on the door panel with the holes in the door and press each one until it snaps.



Step 42

Install the pull handle.





Step 43

Install the handle case.



Step 44

Install the stopper band.



Step 45

Install the window handle clip on the window handle.



Tech Tip

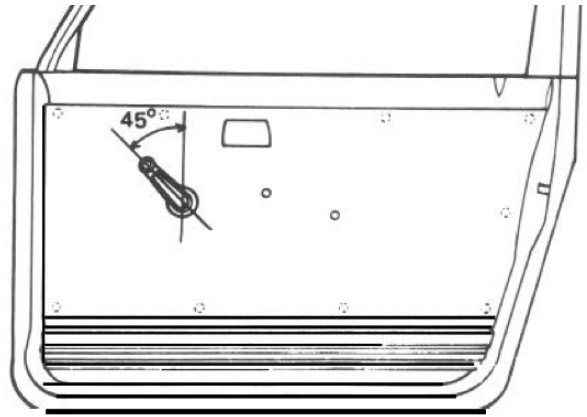
Correct positioning of window handle clip.





Step 46

Install the window handle trim (escutcheon).



Tech Tip

When installing the handle, it should be installed at 45° forward from true vertical (toward the front of the vehicle) with the window rolled all the way up.



Step 47

Install the window handle.

Note: The window handle simply snaps into place with moderate pressure.



Step 48

Install the stopper band.

Congratulations!

You have successfully installed door handles on a Suzuki Samurai.



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.

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