

# **PETROWORKS**

## **OFF-ROAD PRODUCTS**



### **Aluminum Exterior Door Handles**

Congradulations on your purchase of your new Exterior Aluminum Door Handles. Installation usually takes about 1hr.

#### **Tools needed/recommended:**

Phillips Screwdriver  
Paperclip or some kind of curved end tool  
Pocket knife or Putty knife  
Needle Nose Pliers  
8mm Socket and Wrench

#### **Door Panel Kit**

2 x Aluminum Exterior Door Handle  
2 x White Nylon Rod Retainer  
2 x ¾" Phillip Screws  
2 x White Threaded Nylon Bushings

***NOTE: Our newly designed exterior doors handles are left/right neutral, meaning they can be used on either side. They can also be used on the Rear Tailgate door of Hardtop Samurais.***

***The springs used on the door handles cannot be purchased new from Suzuki, it is very important to retain the old springs from your original handles, or locate a set of broken handles.***



1. Start by removing all items off the door panels (door straps, pull handle, interior door opener cup, window crank and Escutcheon). **See PIC 1** for Window Crank Removal

**PIC 1.**

*Using your knife push back on the escutcheon to expose the window crank clip. Using a paper clip or some kind of curved end tool hook onto the exposed clip and pull straight up. The clip is open on 1 end so you may have to spin the handle to see the curved end. Pull straight up and set handle and clip aside for reinstallation.*

2. Once all the exterior items are removed from the door panel, using your knife pry gently between the door frame and the existing door panel (if it exists) towards 1 corner of the panel and give a slight twist. This will pop the clip out of place and you can continue around the exterior of the panel to remove. There are 11 clip positions around the panel. **See PIC 2.**



**PIC 2**

3. Remove old door handle first by using Needle nose pliers to pop the actuator connecting rod from the handle. **SEE PIC 3.** Then Remove the 2 8mm nuts that hold the handle to the door. **SEE PIC 4.** Carefully slide the handle out of the door.



**PIC 4**

4. Using a Vice or something to hold the handle drill out or grind the end of the handle pivot pin. **SEE PICS 5 and PIC 6.**

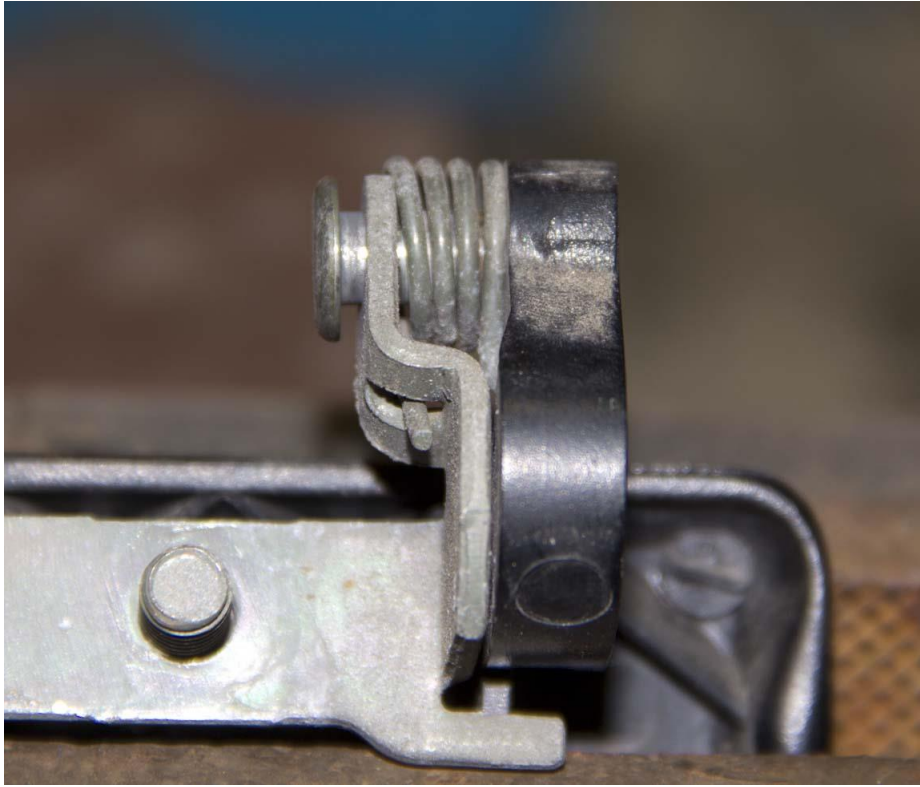


**PIC 5**



**PIC 6**

5. Once you have drilled both pivot pins you can remove the pivot pins. Be sure to take note of the spring locations before removal as you will need to reuse the existing springs. **SEE PIC 7**



**PIC 7**

6. Set the springs aside, discard the old handle and retain the metal bracket. On the back side of the bracket is a tab, using your pliers bend this tab downward approx. 45deg. *Angle is not critical.*  
**SEE PIC 8.**





**PIC 8**

7. Align the metal bracket between the ears of the new handle, tab facing the handle and bolt studs facing away. Using the 2 supplied Threaded Nylon bushing put them into the bracket holes facing the handles, then put the springs back in place. The long strait part of the spring goes into the little holes in the bracket, and the curved part of the spring goes against the handle. This part can be tricky, while holding all this together push the 3/4" Phillips screw through the handles into the Nylon Bushing. **SEE PIC 9 and PIC 10.**



**PIC 9**



**PIC 10**

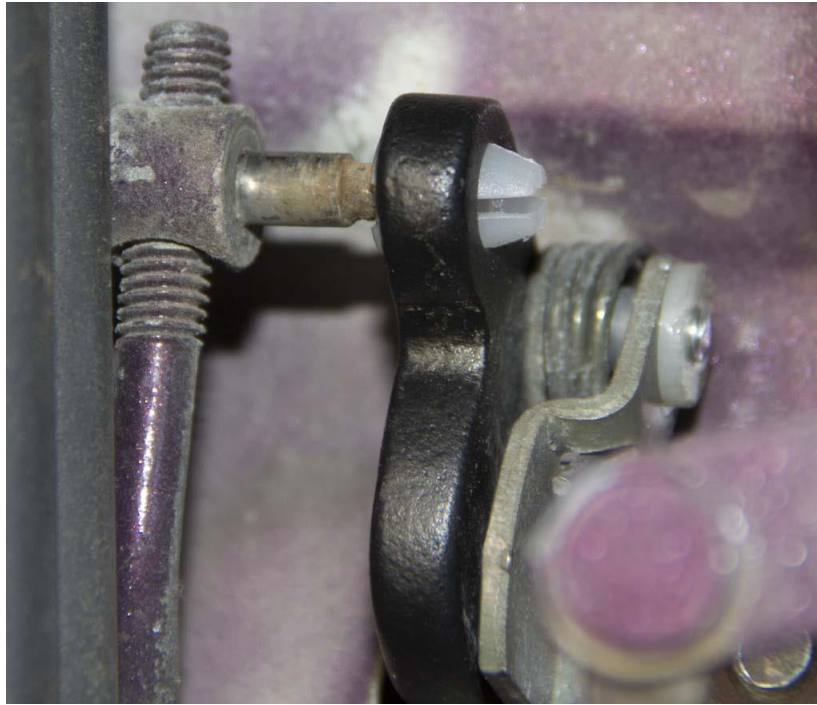
8. The door handles are left/right neutral until it is time to install. Using the supplied White Nylon Rod retaining install into the either the left side or right side of the countersunk hole above the pivot pin. **SEE PIC 11.**



**PIC 11**

9. Reinstall the handle back into the door in the reverse order. Once the 8mm nuts have been

tightened insert the actuator rod back into the retainer. Using your needle nose pliers will help. After everything is back together test for functionality. You can adjust the actuator rod by threading the pivot up or down, then reinserting it back into the handle. **SEE PIC 12**



**PIC 12**

10. Reinstall the Door panels and all door panel hardware in reverse order.

11. For the window crank the easiest way to reinstall is to put the Clip removed earlier back onto the handle, then put the escutcheon on the door, align the hand up to the threads on the window crank and push the handle on until it clicks. **SEE PIC 6.**



**PIC 6**

12. Complete the above procedures for the other door.