

4th Gen Firebird and Camaro Window Motor Replacement

Part 2 – The Installation

Written by Robert Forney, Copyright FirebirdNation.com

I am writing this article after realizing how poorly the instructions are in the shop manual and other manuals. I am going to show you a lot of photos and explanations on how to make this as easy as possible. Without further ado, let's get moving.

Needed Tools:

1. Three rubber door stops, the bigger sized ones work better.
2. Socket Set
3. Center Punch (or screwdriver)
4. Drill
5. Screwdrivers
6. Riveter capable of riveting ¼ inch rivets.

When we finished part I, we had just removed the motor from the rivets. Now it's time to install the new motor to the assembly with the provided bolts (or if you prefer, and I would suggest, using rivets).

Now secure the new motor to the assembly:



With the motor secured, you can now remove the bolt you had installed to secure the sector gear. Be careful and make sure to stay clear in case the gear moves, but it shouldn't :



Put the motor and assembly back into the door:

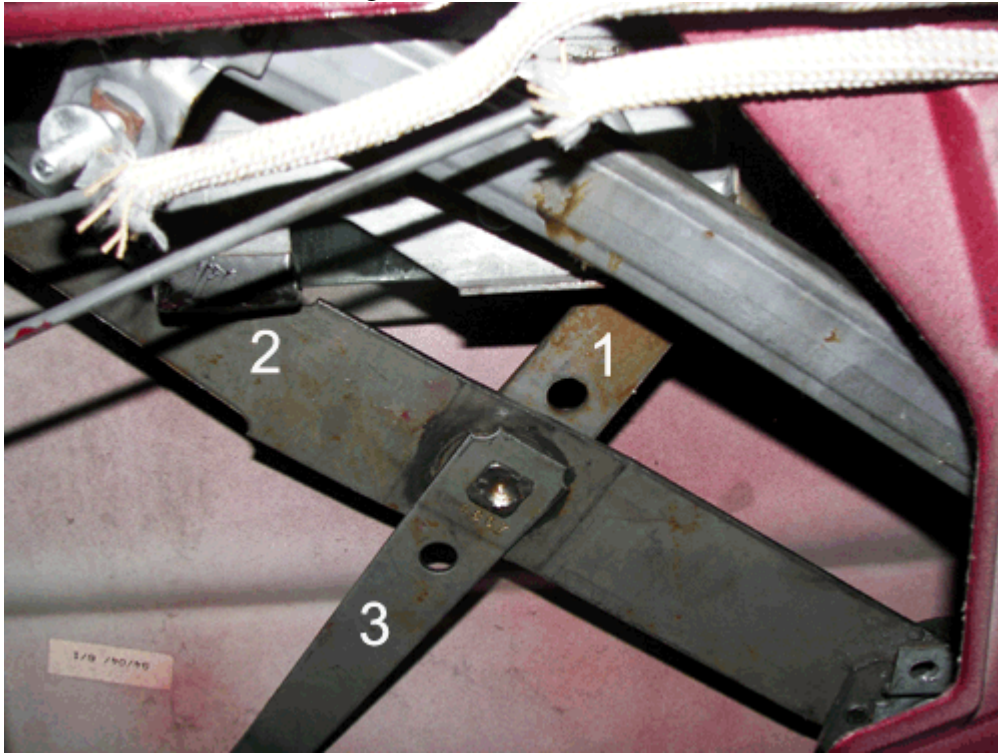
Put the motor back into the door





Now with the motor on the bottom of the door, it's time to get the wheels into the guides.
Look at the next few pictures in order to get a clear idea of how it goes back in.

The Following are Numbered in Order of Install:



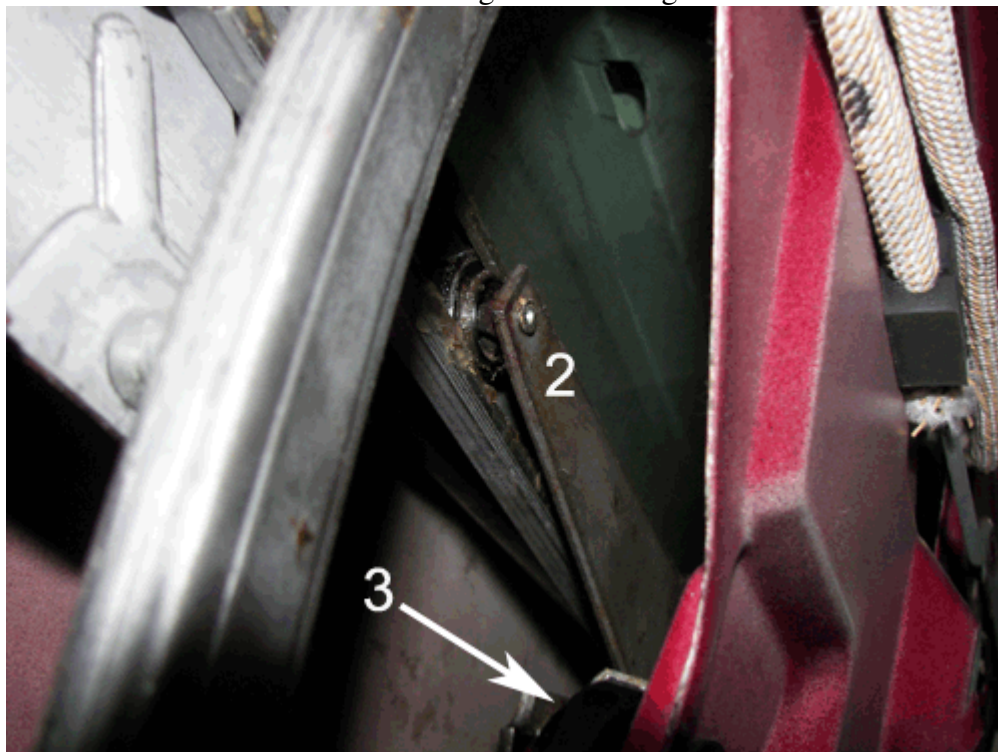
Now rotate the arm to get the first wheel into its guide:



Now get #2 into the same guide. You will have to push to motor towards the front of the car to make the wheel travel in its guide and to get # 2 into the guide.



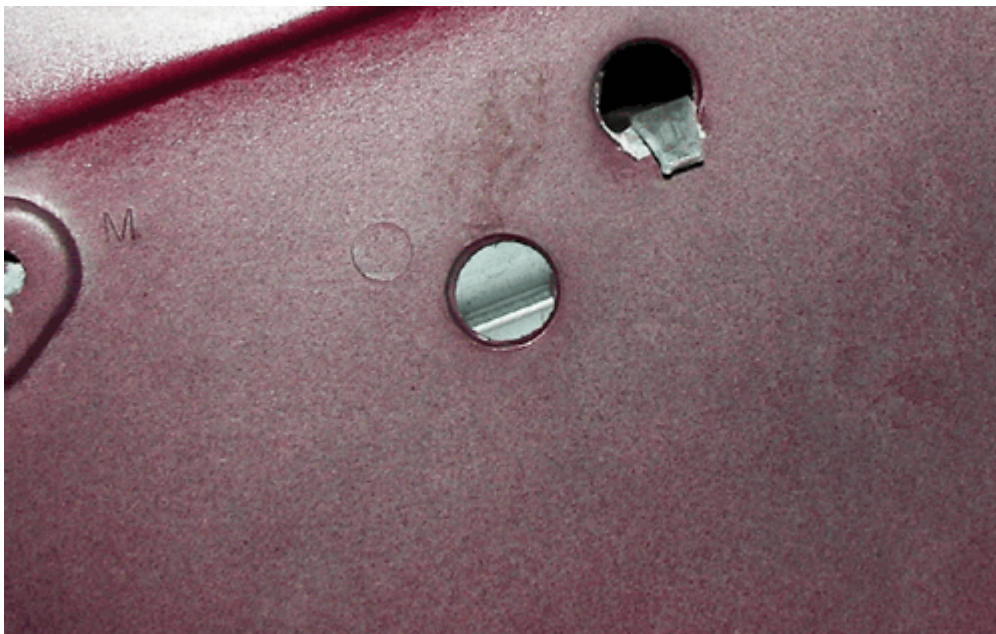
Now its time to get #3 into its guide:



Here is a show of all the wheels in the guides:



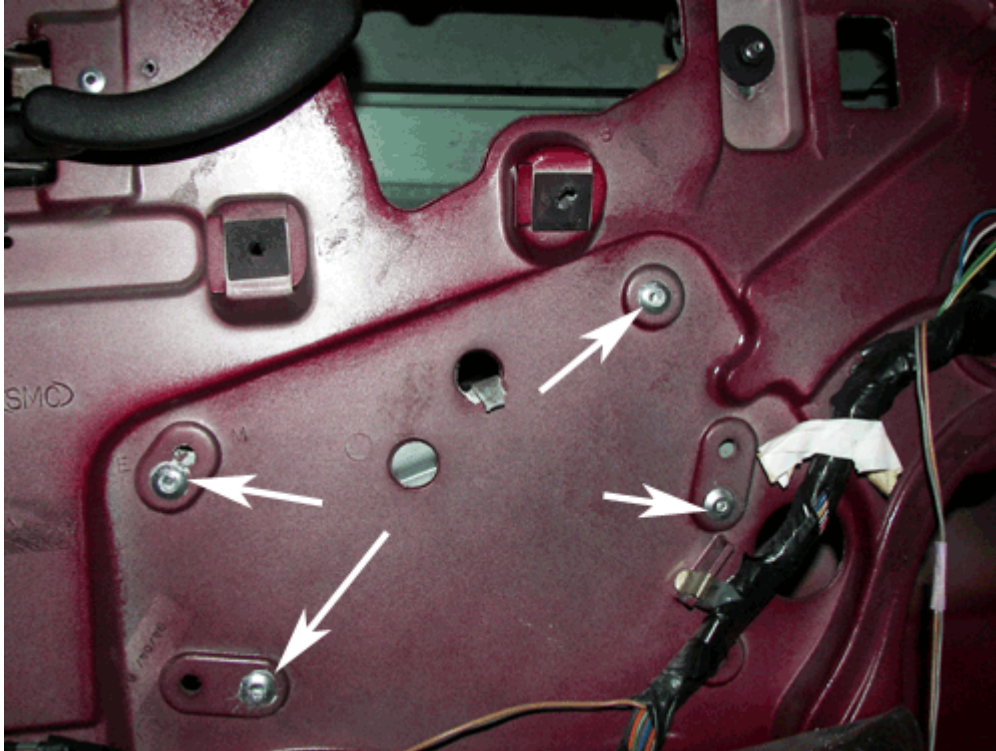
Now reach through the open speaker hole and place the motor assembly in the door using the hook:



Now align the front side door window rear guide channel and put it back into its proper location. Put on the nuts, but don't tighten them until the motor is secured.



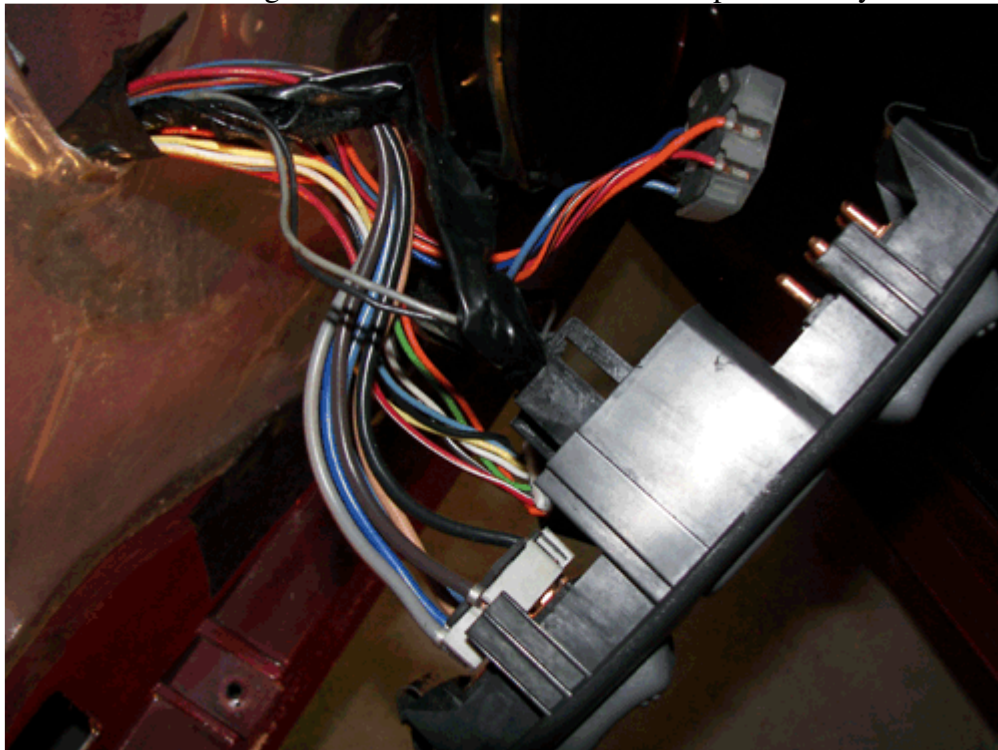
Now reach through the same speaker whole and put the plug back onto the motor. After the motor plug is attached, you may need to move the window up or down **manually** in order to get the holes for the rivets to line up. Make sure the motor does not fall off when you are doing this. You can use a couple of small screw drivers to make sure the doles stay lined up. With the holes lined up, start installing the rivets:



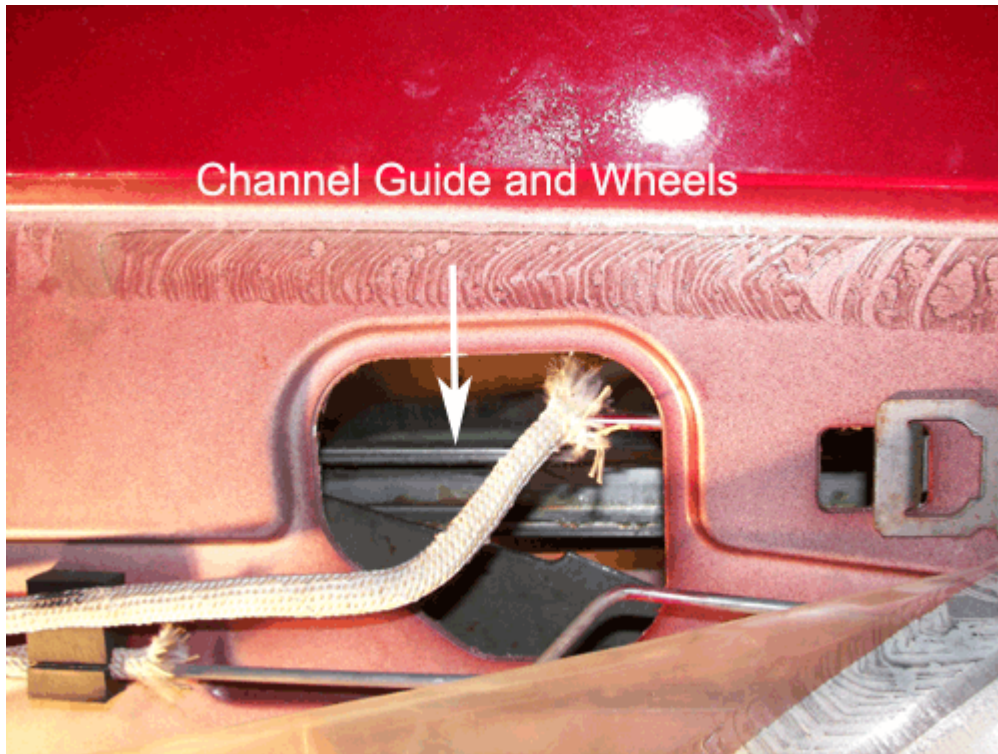
Tighten down the front side door window rear guide channel:



Now with everything hooked up and secured, its time to test the motor to make sure it works. Plug in the window switch and hook up the battery.

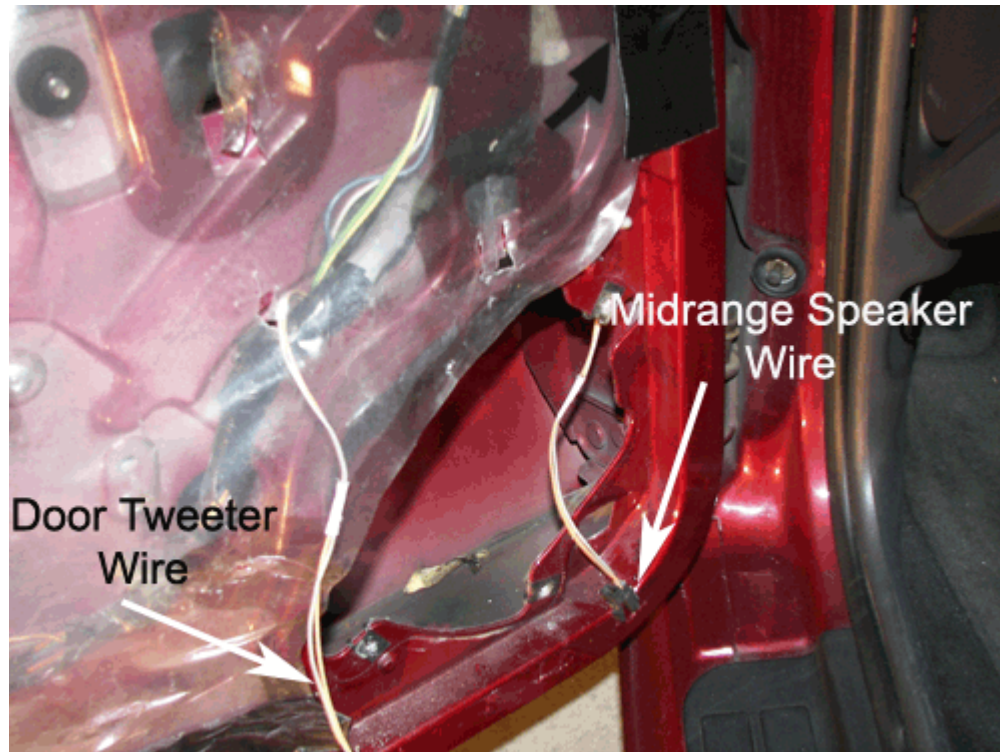


Turn the ignition key to the “ON” position and see if the window motor works. If it works, this would be a good time to grease up the channel guides and wheels. Raise or lower the window until you see the guides and wheels and grease them up:

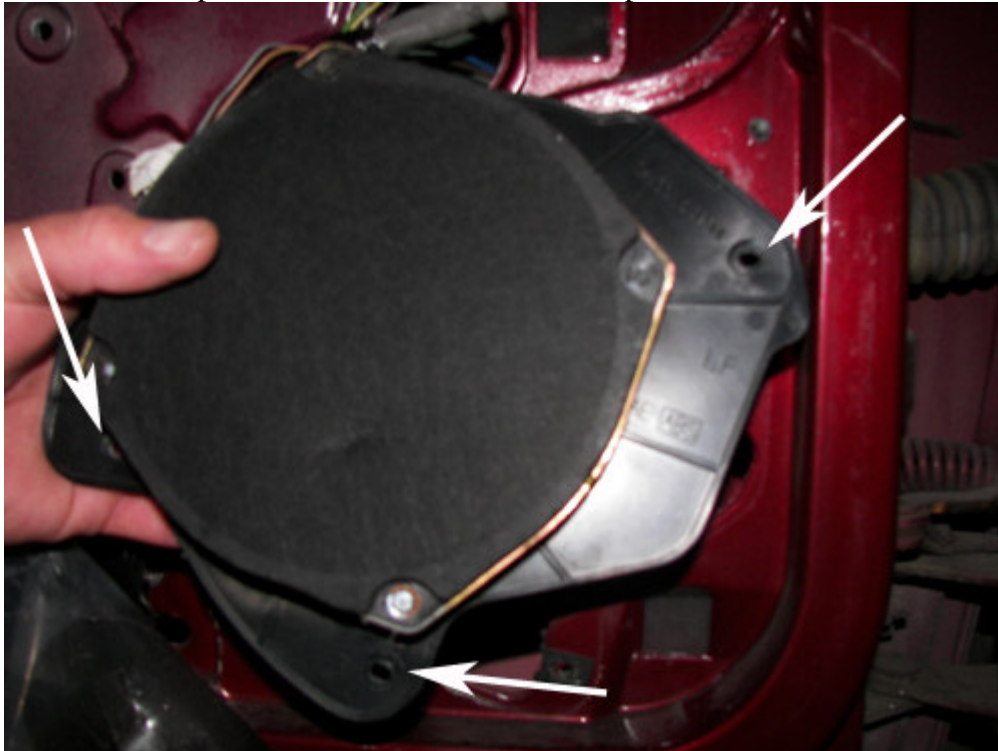


After you are done with greasing up the wheels, lower the window all the way and disconnect the battery and the window switch. Lowering the window all the way will make it much easier to install the door panel.

Reinstall the speaker connector and reinstall the speaker. Make sure you get the correct connector, there are two, one for the midrange speaker in the door and one for the tweeter, and they both have the same connectors. The midrange speaker connector may have fallen into the door. Here are the connectors:



Install the speaker connector and install the speaker back into the door:



With the speaker installed its time to install the plastic water shield. I used a shop light to heat up the glue and it worked well, but be careful to not melt the plastic or burn your hands:



With the water shield in place, we can now get the door panel ready for installation. First connect the tweeter:



Feed the wires through the door for the switch and light:



Line up the hooks with the holes in the door. I had a photo for this, but for some strange reason it didn't come out.

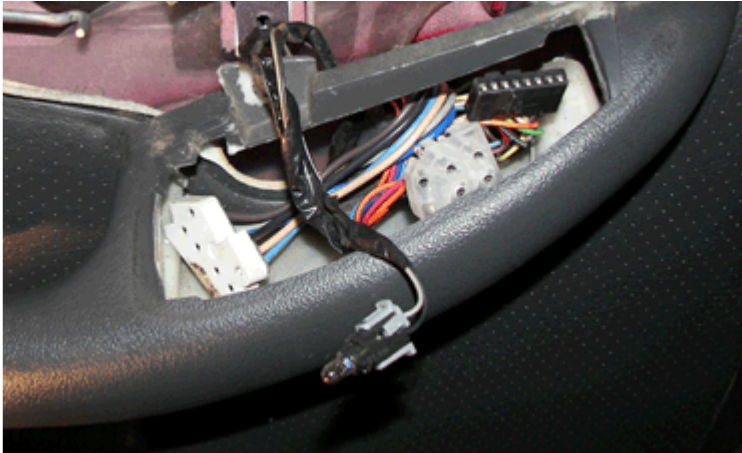
Once you get the hooks lined up, lightly push the door panel into the door. You will have to lift up slightly on the panel to get all the hooks into their holes. In addition, get the upper lip of the panel into the door. Once everything is flush, you can push down on the door panel to get it set into place.



Secure the 4 door panel screws:



Now lets install the small handle cover bulb:



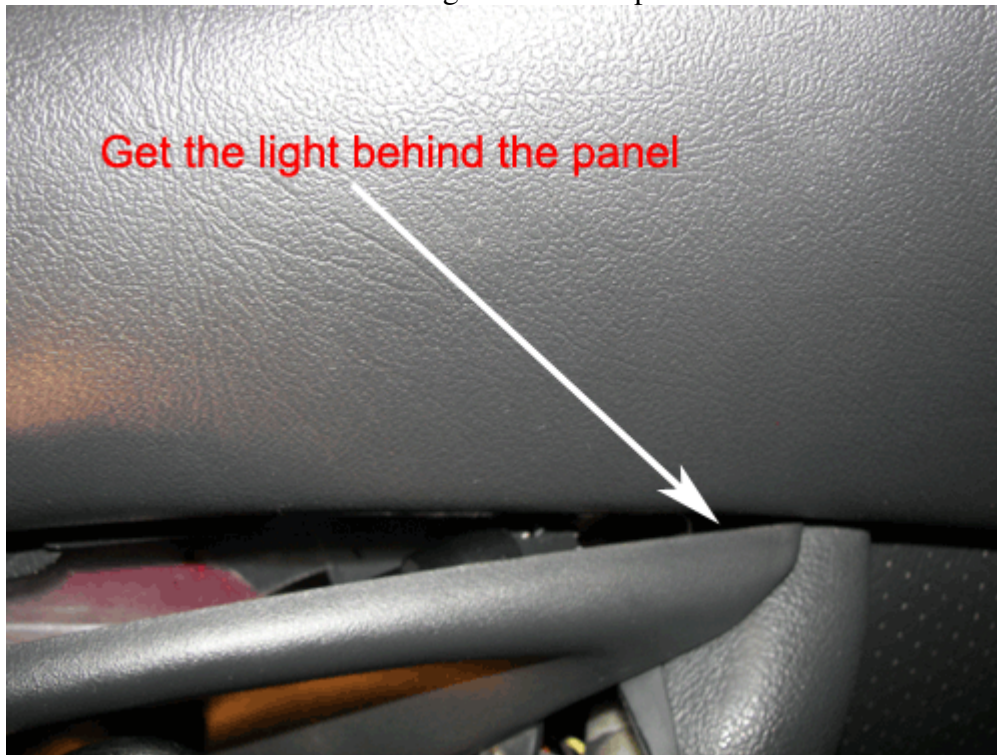
Grab the light and place it in the socket and turn it until it clicks:



Now lift the handle and place the cover over the handle:



Place the light behind the panel:



Now lock the door and get the lock slider over the cover. See following illustrations:



Now grab and pull the lock slider over the handle cover as shown below:



Now place the lock cover over the slider and press on until it clicks:



Tighten down the handle cover. Grab the switch panel, connect the connector and press the panel straight down onto the door panel:



Install wind window cover:



Press directly on to the small clips.



Congrats, you are done with your window replacement. Please let me know if you see any errors.