



## Installation Procedures

### VW MKIV - Passive Keyless Entry System

**This tutorial is provided as a courtesy by ECS Tuning.**

Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

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## VW MKIV - Passive Keyless Entry System

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### Preperations:

Tools needed to complete this installation will be a flat-head screwdriver, a T20 hex screwdriver , a pair of pliers, and four splice clips.

### Step 1:

Remove the three screws holding on the under-dash plastic panel, remove the panel and set aside.



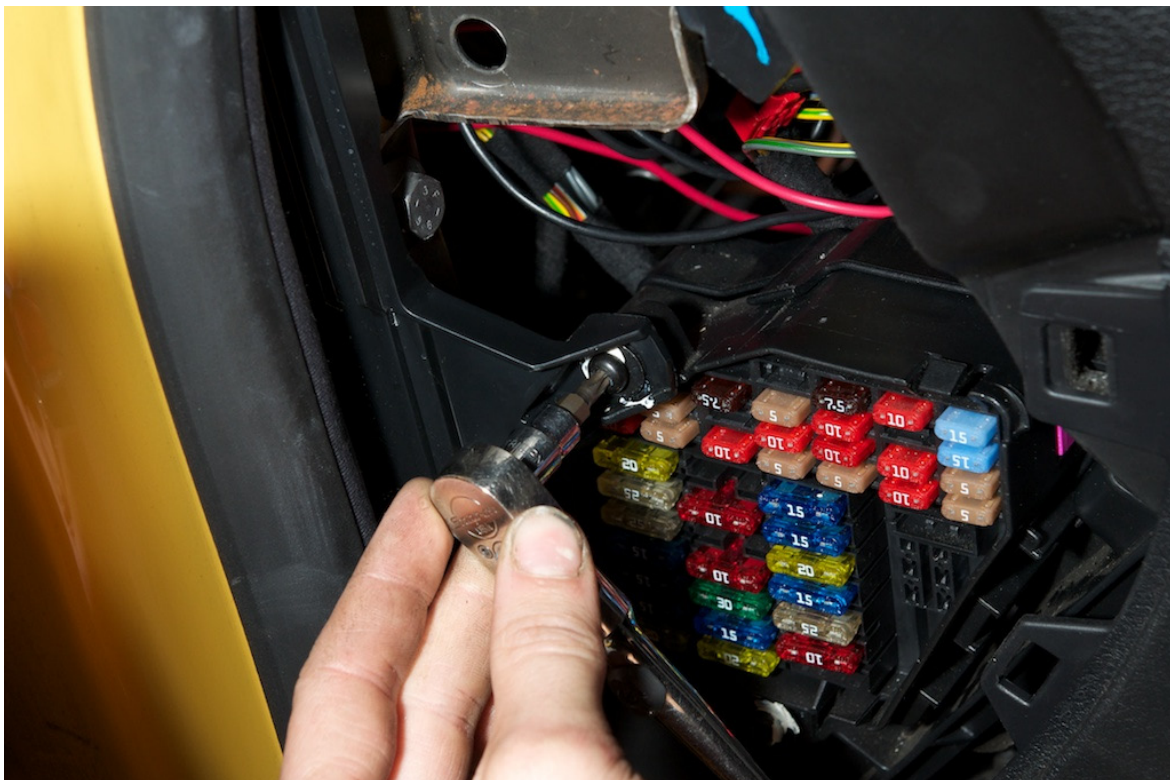
### Step 2:

On the driver's side is the fuse panel right inside the door on the side of the dash, remove the plastic cover to gain access to the fuse panel and the wiring behind it and set it aside.



**Step 3:**

Use the T20 screwdriver to remove the two screws holding the fuse block in, one on the top and one on the bottom.



**Step 4:**

To gain access to the wiring on the back of the fuse block you have to pull the fuse block out of the dash.

**Step 5:**

Blocking your access to the wiring on the back of the fuse block is a plastic cover which has two clips holding it on, one clip in the front and another on the other side, which can simply be disconnected by using a flat-head screwdriver.

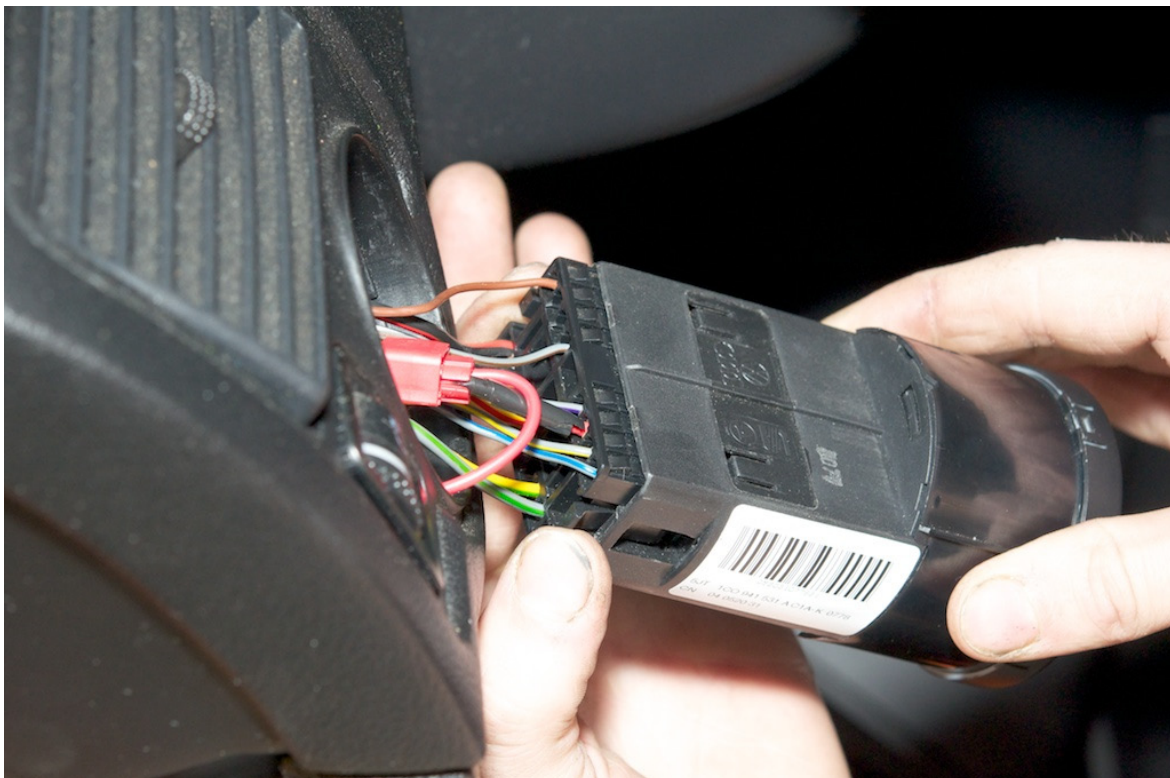


**Step 6:**

To disconnect the head light switch from the front dash you need to push it in and turn the switch half-way between the empty circle, or off mark and the parking light mark, then pull back slowly to remove.

**Step 7:**

Disconnect the wiring from the back of the switch by pushing in on the tabs on each side of the clip and separate.



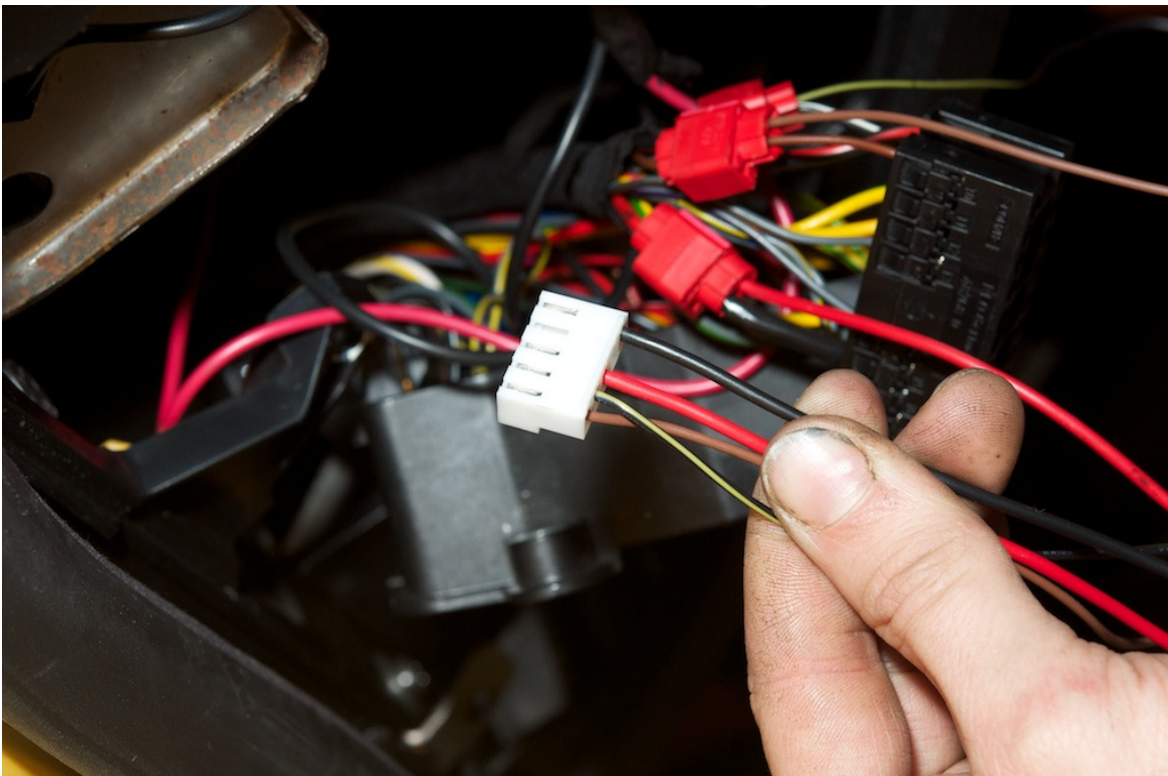
## Step 8:

To gain better access to the lighting switch wiring you can pull it through the side of the dash where the fuse block was previously removed.



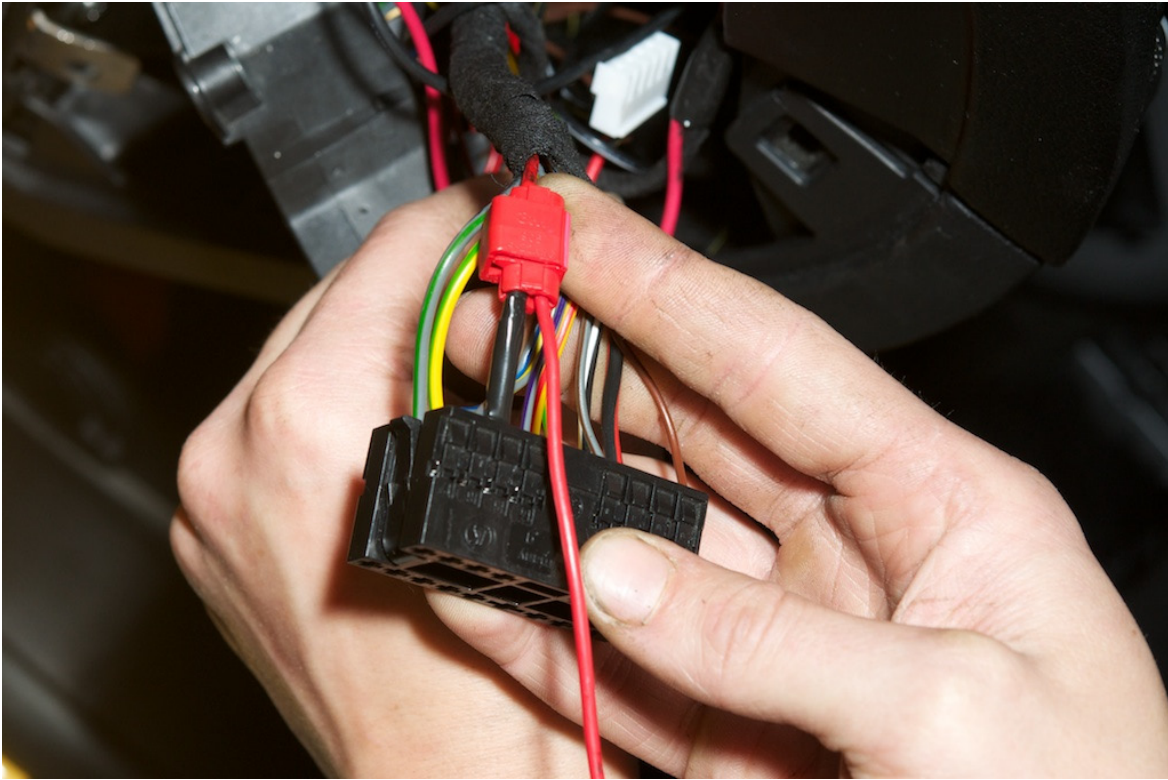
## Step 9:

Now, find the four-wire connector (brown, black/yellow, red, black/white) that comes with the product.

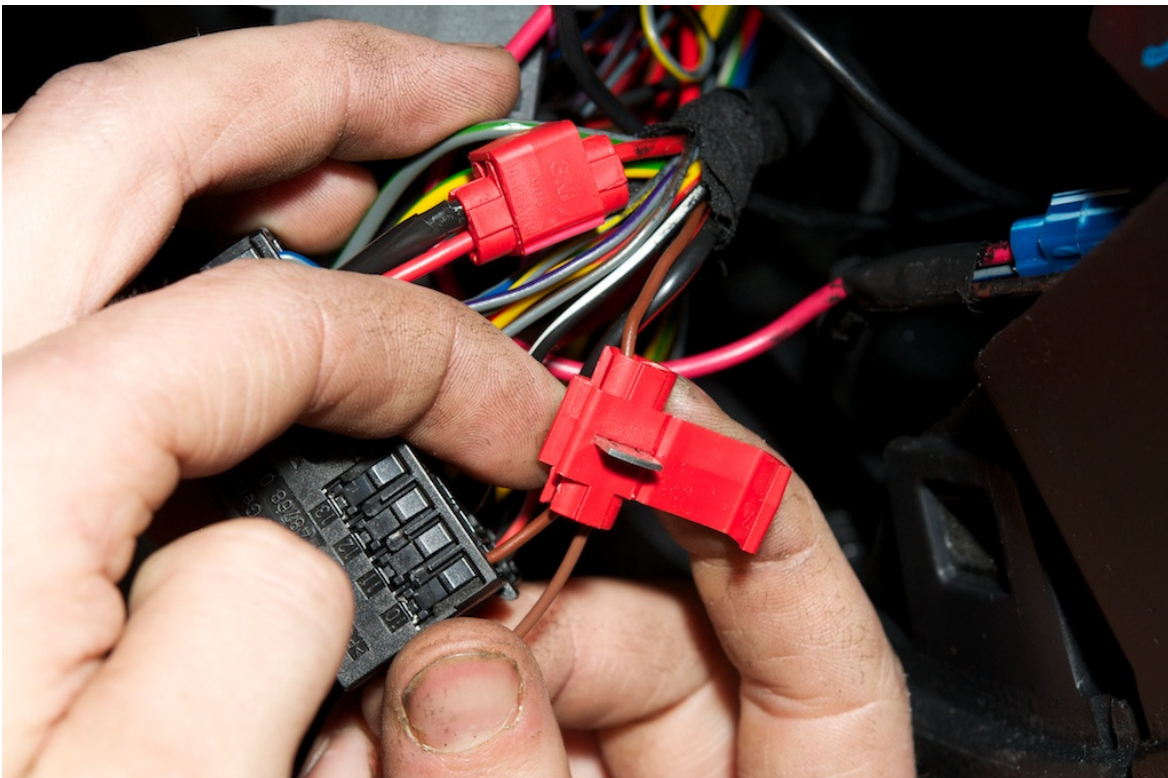


**Step 10:**

Take the red wire from the four-wire connector and a splice clip to splice together the red wire from the connector and the red wire from the headlight switch.

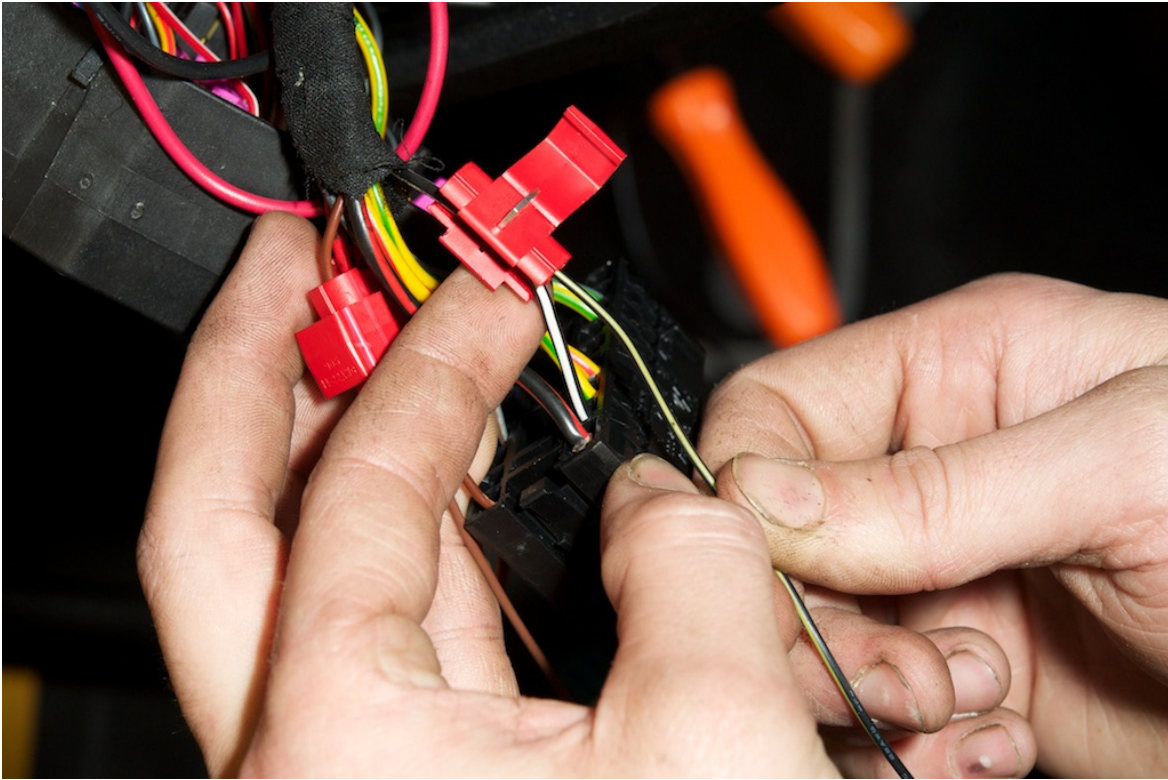
**Step 11:**

Directly across from the red wire is a brown wire on the back of the headlight switch and a brown wire on the four-wire connector. Use a splice clip to splice them together.

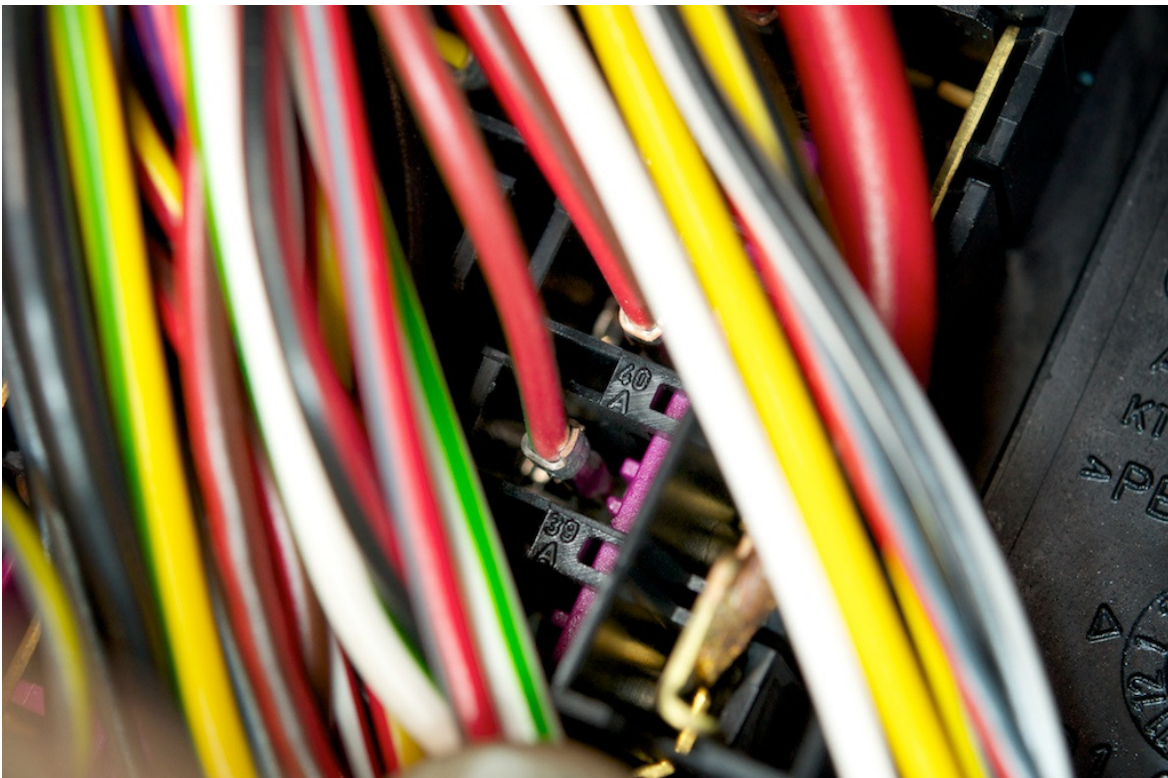


**Step 12:**

Below the brown wire on the headlight switch will be a black wire with a white stripe. With that wire, splice connect in the black wire with the yellow stripe from the four-wire connector that comes with the kit.

**Step 13:**

The last wire on the four-wire connector is the black wire with the white stripe which connects to the horn relay fuse wire on the back of the fuse block. Use a light to see the little numbers on the back of the fuse block and find number 40.

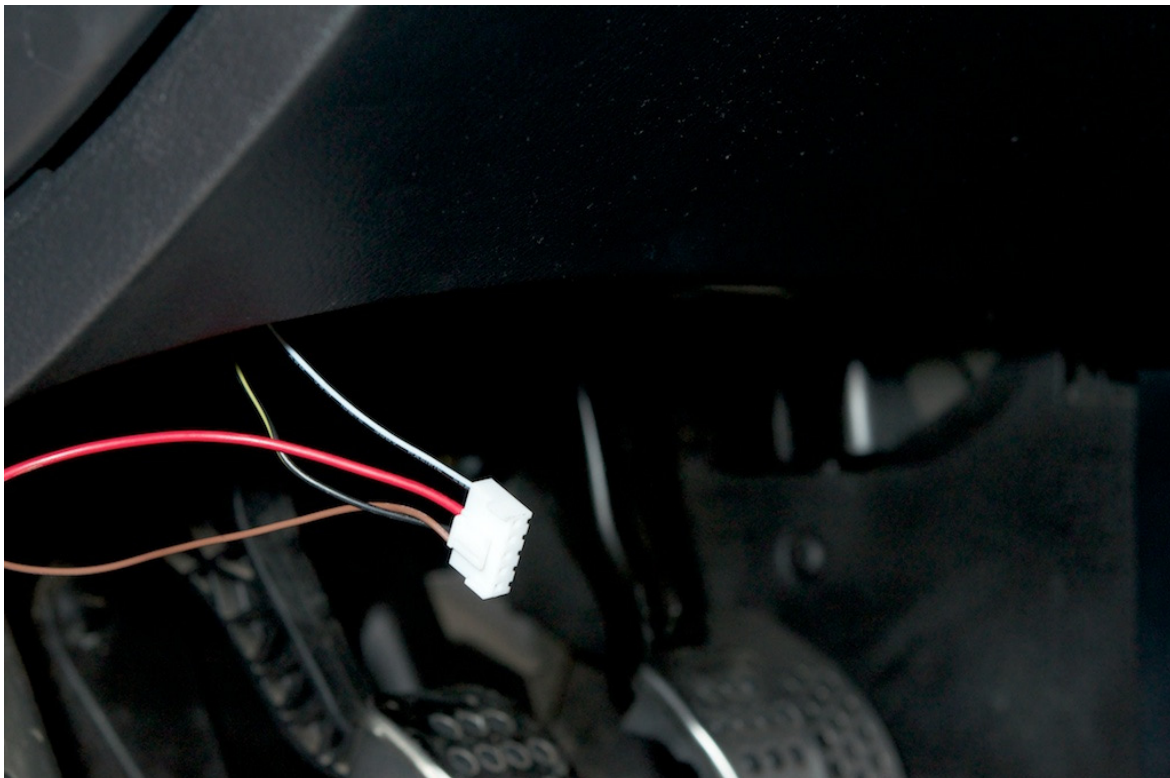


**Step 14:**

This wire coming out of slot 40 is the horn relay wire, use the last splice connector to splice together the black/white wire from the connector to the red wire with the green stripe on the fuse block.

**Step 15:**

Run the white connector with the four wires, that were previously spliced, down to the bottom side of the dash where the plastic cover was previously removed so it can be plugged in to the right spot on the controller (black box that comes with the product).

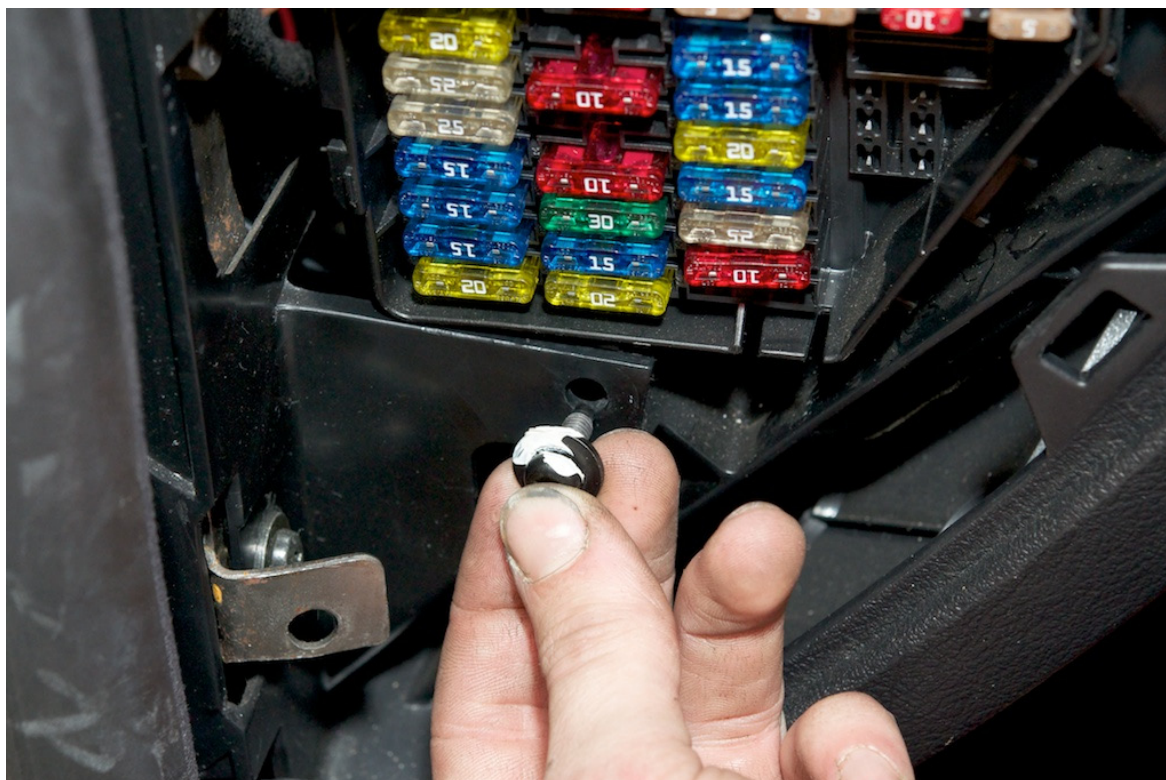


**Step 16:**

With the wire splicing finished, you may return the headlight switch wiring back to its original place, plug it back into the switch, and secure the switch back into the dash by pushing it until you hear a “click”.

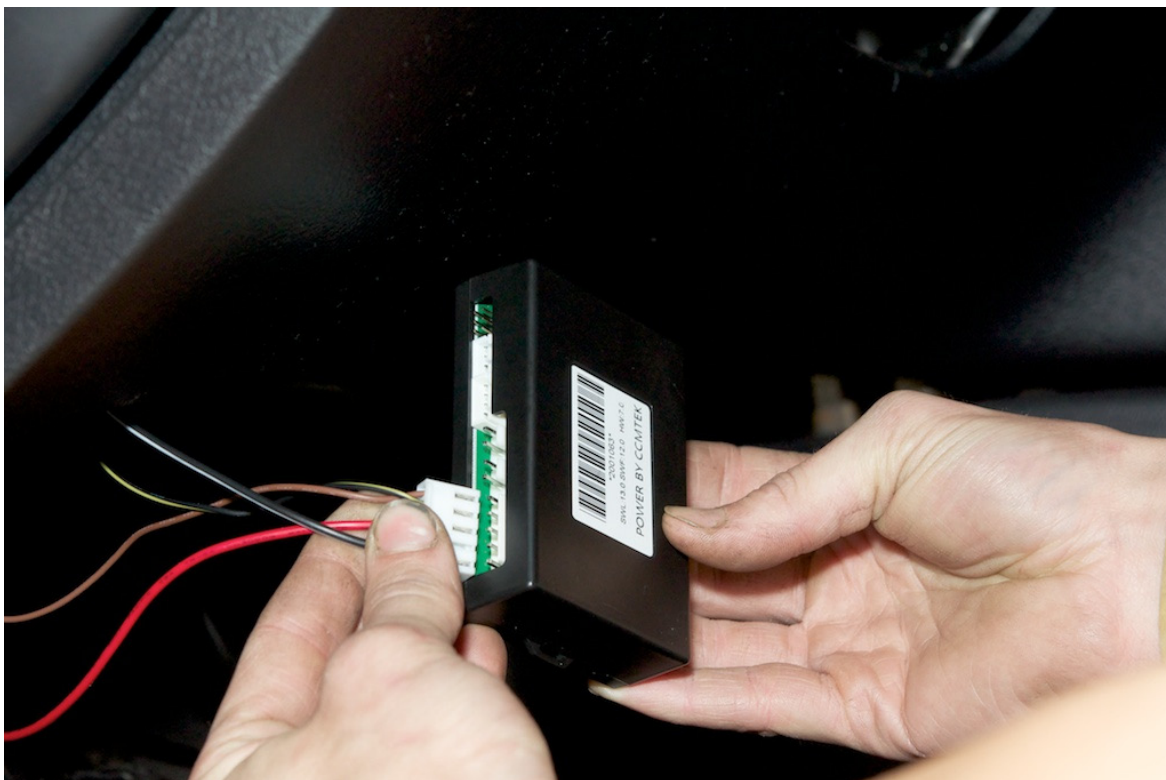
**Step 17:**

Take the fuse block or panel, click the back cover back on that protects the wires. Then return the fuse block/panel to its original position and tighten the two screws that hold it into the dash.

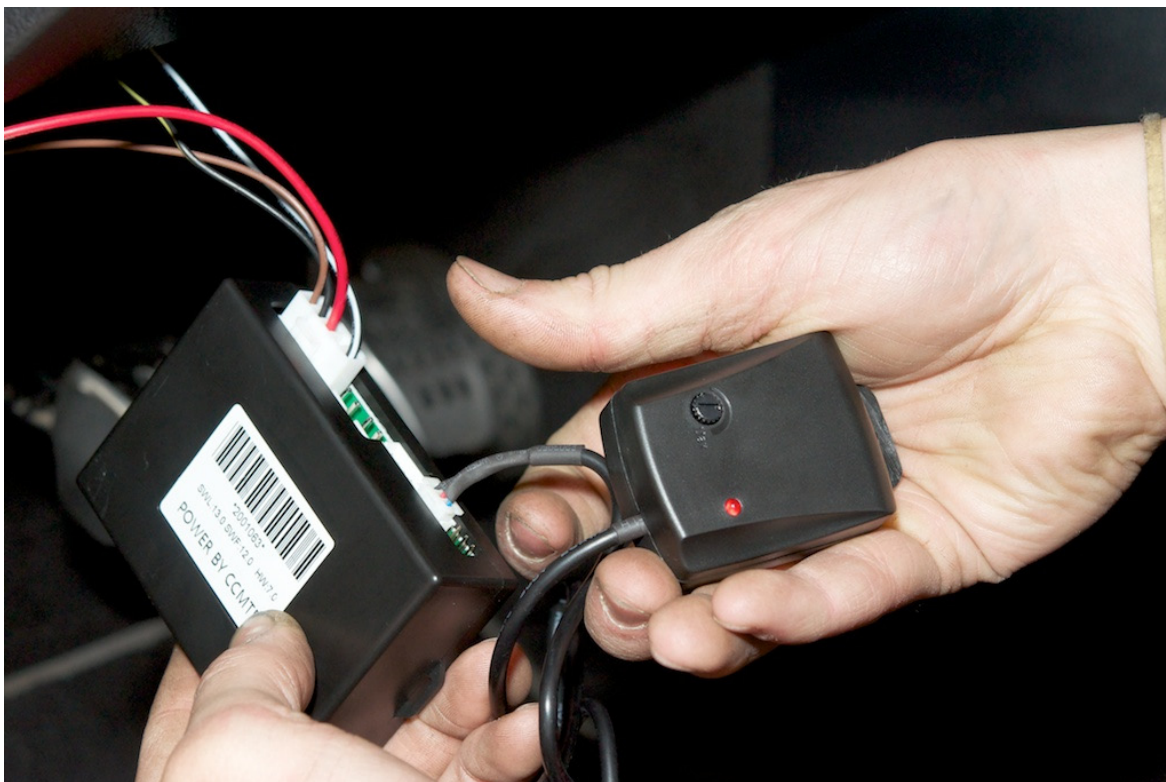


**Step 18:**

Take the four wire connector that we previously ran to the bottom of the dash along with the base station (black box) and plug the white connector into the right position (the directions that come with the product shows exactly where all the clips plug in at).

**Step 19:**

Now take the shock sensor out of the package and plug it into the correct location in the back of the base station (once again the directions in the package show exactly where it needs to be plugged in at). The shock sensor will be mounted in later steps.



**Step 20:**

Now, take the shorter wired antenna (antenna 1) and the mounting tape strip that comes with the product, and mount the antenna at one of two locations, on the front windshield at the bottom right beside the VIN number so that the wires coming off of the antenna are coming out toward the driver's door for easier hiding of the wires, or right on the inside of the fuse panel cover on the metal bracket

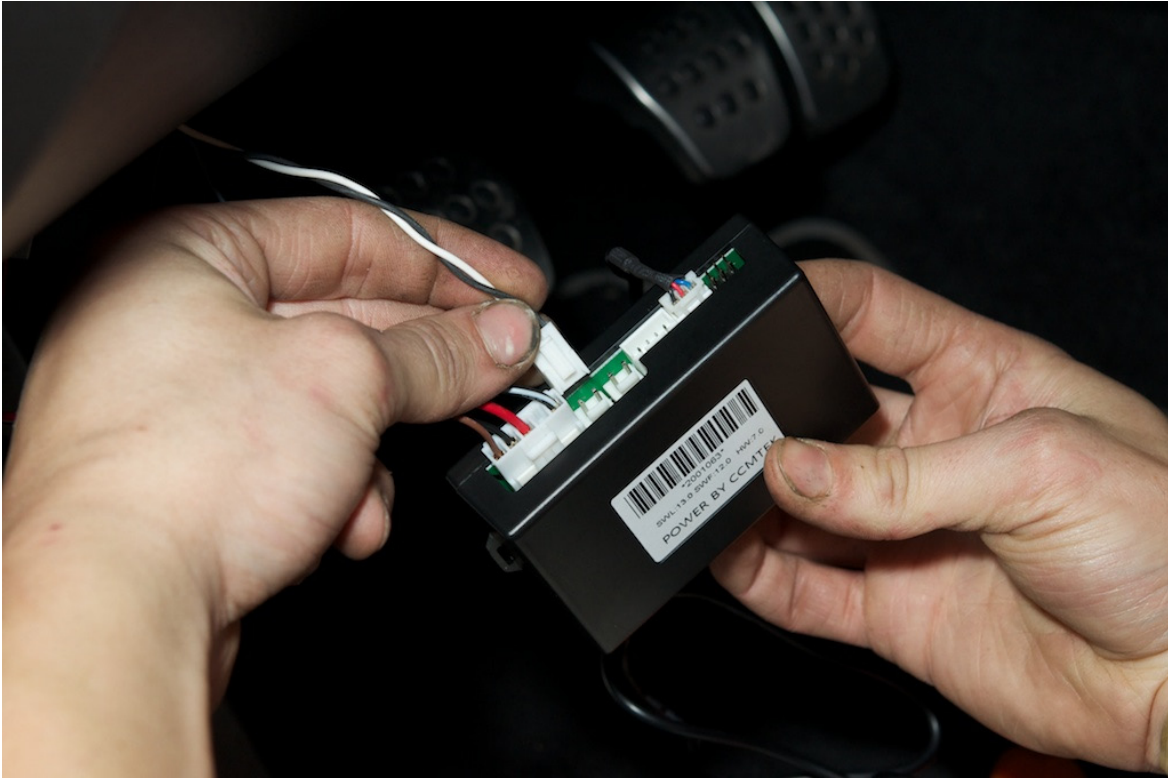
**Step 21:**

Run the antenna wires along side of the dash and tuck them in so you can run the connector end through the fuse block location and down to the bottom of the dash to be plugged into the base station to be totally hidden. If you decide to mount the antenna on the metal bracket, then just run the connector end right through the metal bracket and down through the dash towards the floor.

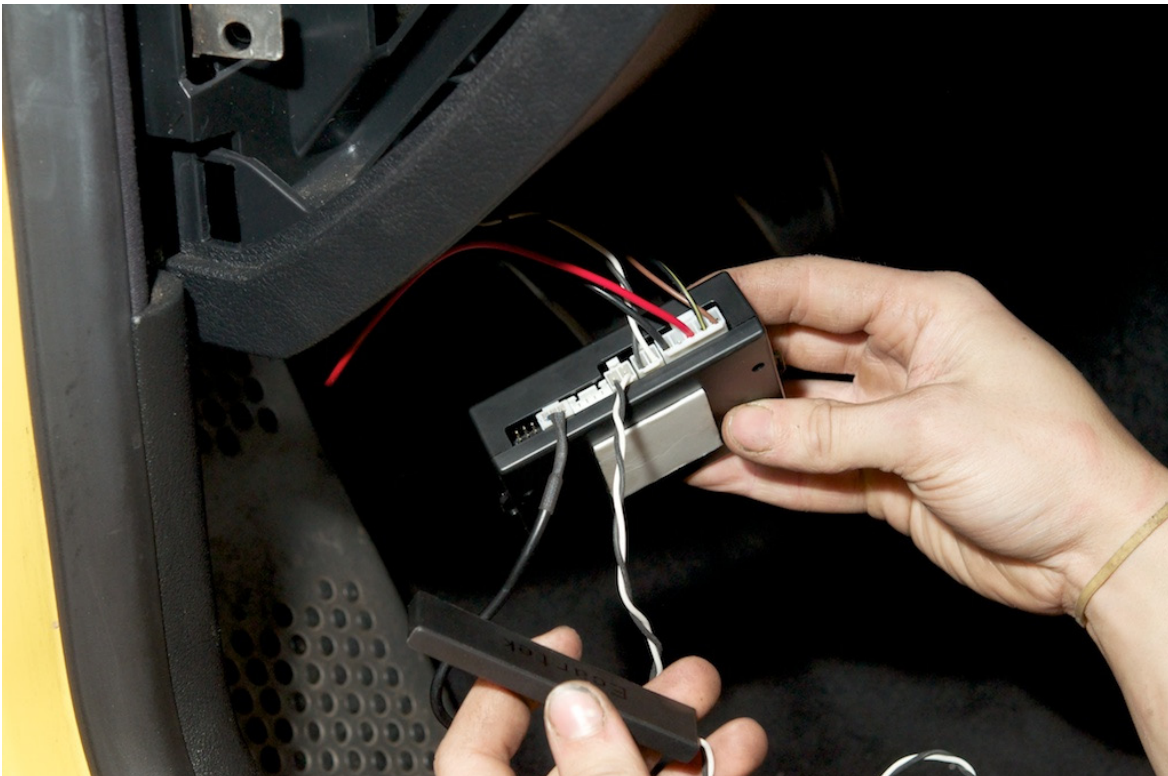


**Step 22:**

Plug antenna 1 into the base station in its correct location right beside where the four-wire connector was plugged in (refer to installation paper picture).

**Step 23:**

Plug in antenna 2 to the base station in its correct location right beside antenna 1 (refer to installation paper picture).

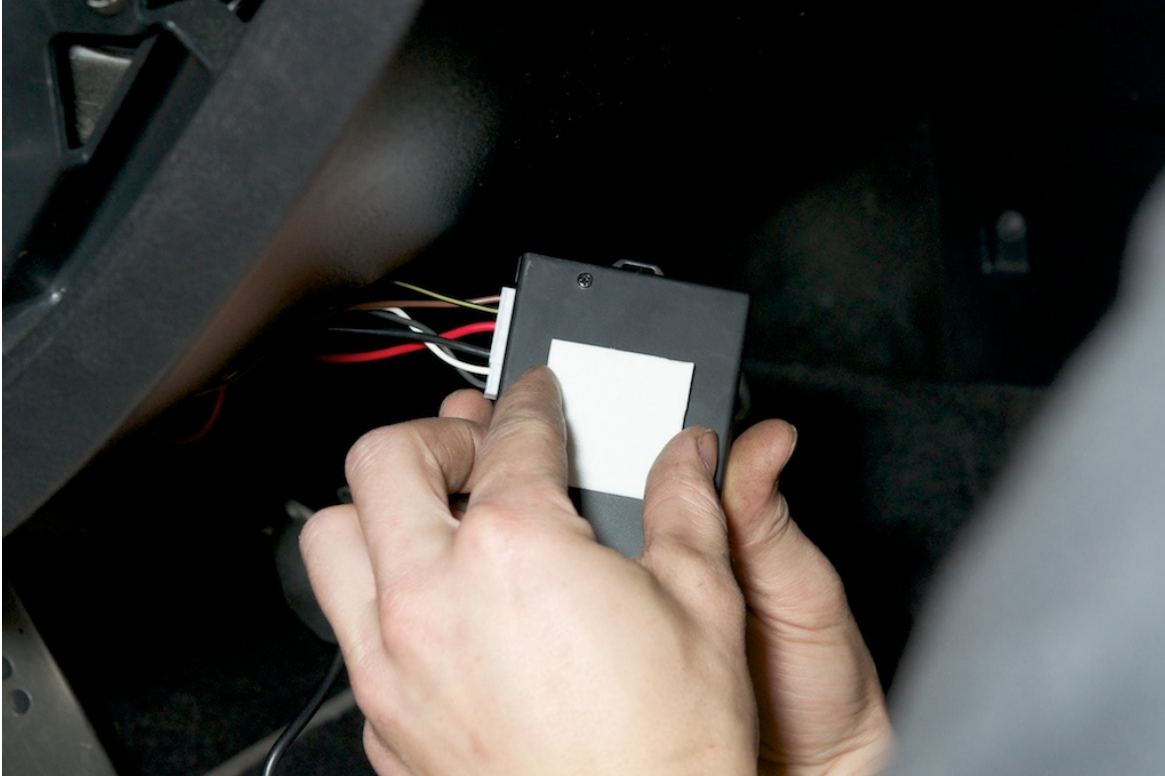


**Step 24:**

At this point in time, all wire connectors should be plugged into the base station and secured. All but the antenna 2 wires and the shock sensor should be hidden inside of the dash.

**Step 25:**

Take the square piece of mounting tape that comes with the package and put it on either side of the base station and find something structurally solid to stick it to underneath the dash so it's hidden and out of the way (you will need to hit a button on the base station in later steps so just leave it hang for now).

**Step 26:**

Now to mount the shock sensor, take the bottom dash plastic cover and the three screws holding it on and use the hole at the top of the shock sensor to place one of the three screws through it and secure it into the original hole for the cover (easiest is the hole on the outside edge by the hood latch).



**Step 27:**

Now, run antenna 2 wire back by the foot rest along the outside edge.



**Step 28:**

Tuck the antenna 2 wire inside the edge behind the plastic.



**Step 29:**

Continue running the antenna 2 wire along the edge under the door sill plastic cover towards the back of the car where antenna 2 will be mounted.

**Step 30:**

When you get the antenna wire to the back seat area, you may need to adjust the seat accordingly to be able to continue hiding the wire.

**Step 31:**

When you get the antenna to the trunk with the wire hidden the rest of the way, find a convenient spot to mount the antenna.

**Step 32:**

Take the last strip of mounting tape provided and mount it on antenna 2.

**Step 33:**

In this case, we found the best place to mount the antenna was on the underside of trim piece that the package tray rests on when you close the hatch.



**Step 34:**

Wiring is done, now you will need to adapt the new key fob provided to the smart remote system. Use the instruction manual provided and follow the steps in correct order. To press the adapt button on the base station, you will need something skinny and little like a mini screwdriver (I just used a pencil end to press it).

**Step 35:**

After properly adapting the key fob, follow step number 25 provided. You can now secure the under cover of the dash with the remaining screws with all of the wires hidden and everything secured properly.