

Ford Focus MK3 + 3.5 Automatic Headlights/Automatic window wipers Tutorial

You will need:

- New light switch with auto headlights option (ebay)



- Donor wiring loom/harness (WITH BCM CONNECTOR) from headlining of a ford focus preferably with rain sensor



(but I think they are only available on the older MK3 models. Mine was from a titanium X, and I believe they are fitted using a new extension block as front window where it sits is very different and uses an extension cable just like the one that came with my rain sensor.



.You can get one without autoheadlights as I did accident but needs to have the connection for a keyless entry



I believe most focuses have this anyway as they use a fob to unlock/lock car. This is what I used and works perfect!



- Rain Sensor

- Elm 327 device with Forscan Software (this one comes with software needed)

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Start of the Journey

First of all you want to make sure your car doesn't already have auto lights or rain sensor so you don't need to purchase but not activated check by removing the panel in windshield. As you can see all I have is the GPS Antenna. After checking you will want to order all your parts.



Once you have your harness you need to make sure you have the 3 pin connector as pictured



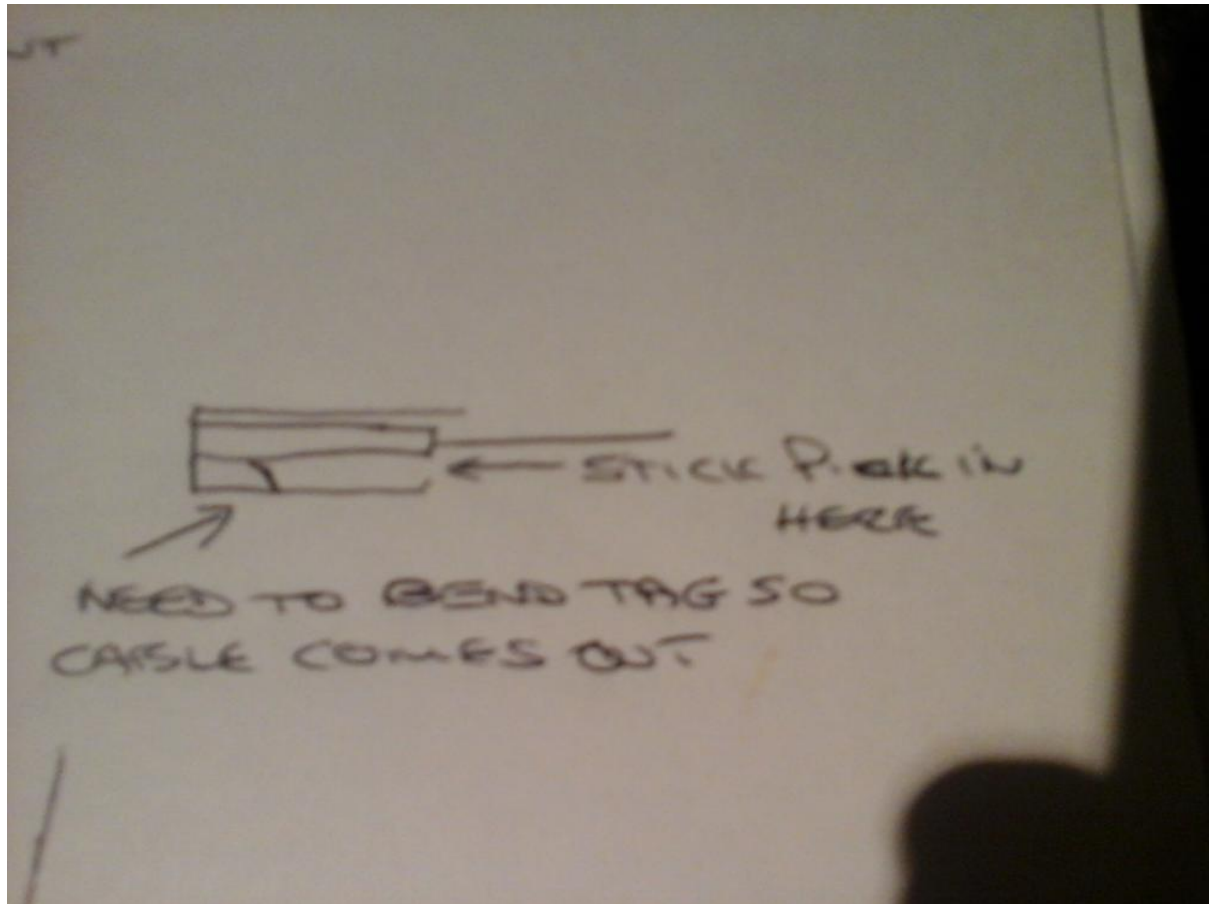
Wires may be different depending where you got harness from i.e older MK3.

You can then begin unwrapping all the sticky fabric that wrap wires, your fingers get very sticky sorry! I saved mine to wrap on my new harness when I complete installation.

Basically you want to strip and cut down everything that's not needed until you end up with this



Once you have harness ready you need to remove the 2 pin carefully from the bcm module, first remove the red plastic piece from bottom then follow these instructions (Thanks to lanтт) I used a long sturdy sewing needle to pop them out.



You can then choose the longest ground wire (black/white wire) and cut excess ones off. You now have the 3-pin connector running straight to 1 black/white ground wire and the other 2 wires with their little metal pins.

You can now remove your window pillar passenger pillar carefully be carefull to take off as they are a little delicate if ragged off9 you may need to remove little secure clips I used a flat head to pop them out. Picture from ianttt “thanks again for stripping your car”!!! ☺



As you can see here you need to tap into the black/white wire and solder your new one into it, I have only spliced mine and wrapped wire around the other wire and with duct tape. As you can see ianttt has soldered his, much better for a good connection I just doubted it working so wrapped it.

You then need to pop the other 2 wires down the side of window pillar to the passenger footwell, be sure to remove the fabric with 2 slips first, I had a friend pushing the wires down so I could grab underneath, we wrapped then with abit off tape so was a but easier but still its a bit tricky feeding but once you have them your good!

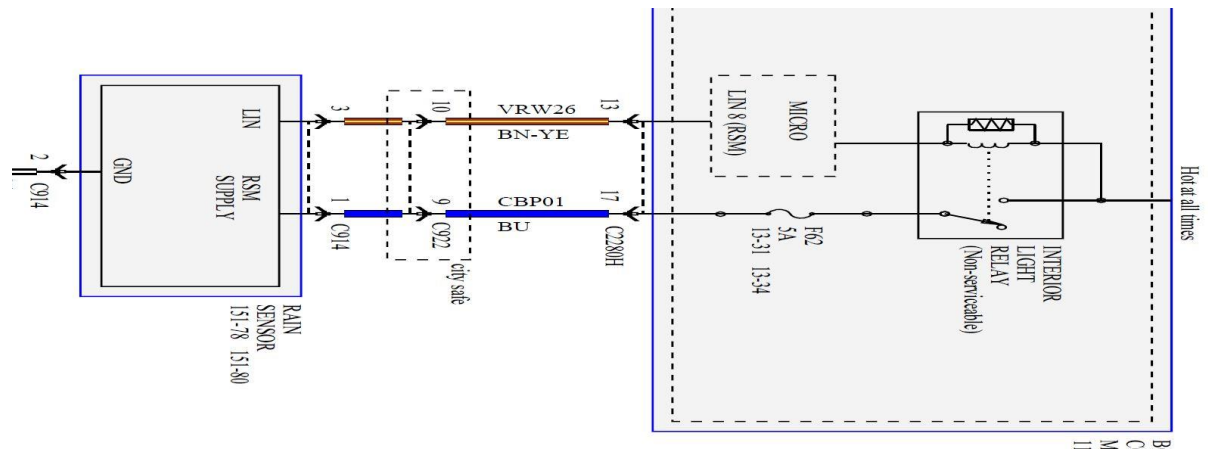
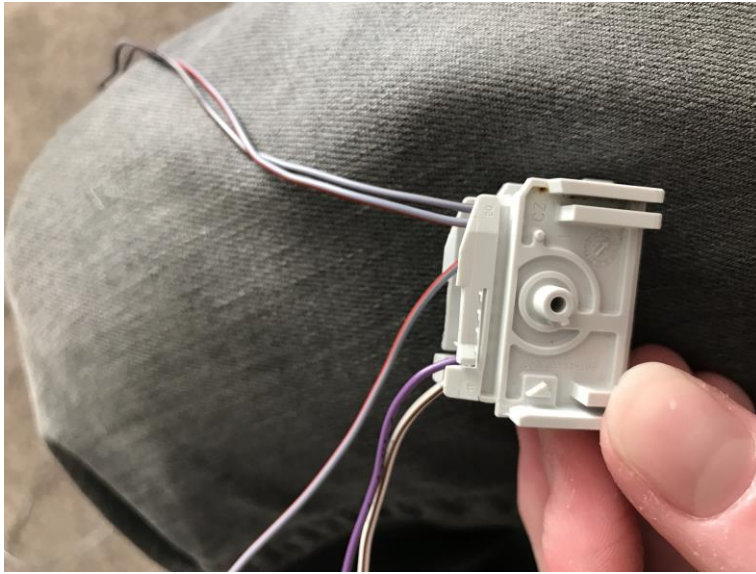
You can now run the 3 pin connector in the top of headlining to the window black plastic casing where the rain sensor and GPS module are stored.

Once thats done you need to connect the 2 wires into the correct numbered pins in to your BCM module, lift the handle up and pull out door loking wont work when this is removed as the keyless part I connected to this as I found a poo'd myself at first ☺

This one



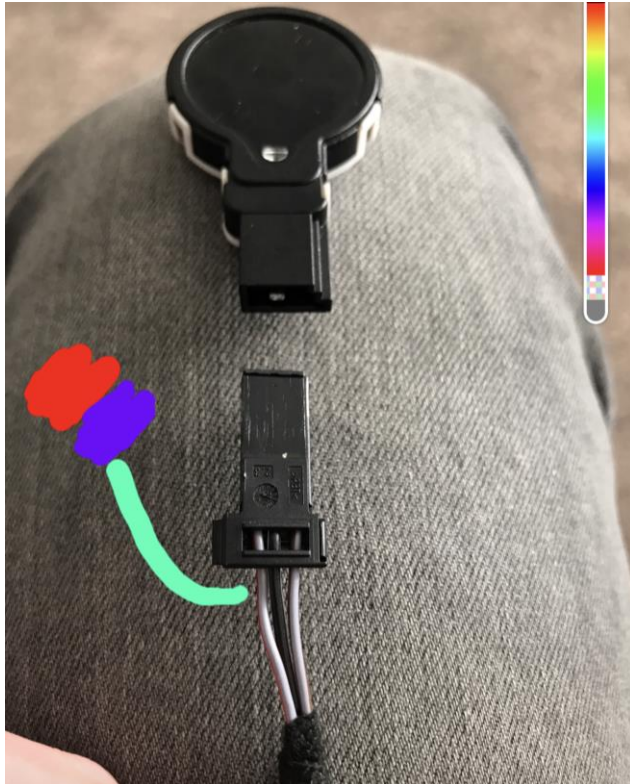
You want to put these 2 wires into pin 13 and 17. When you put them in the right way they click and wont come back out(the numbers are on the side of the connect saying 1-10 11-20



My Purple/Red was Brown Pin 13

My Purple/Brown was Blue Pin 17

Just work out holding wiring like this compared to IanTT's ;-)



Now that you have wires all fitted and sensor fitted. You need to connect your new lights switch, if you squeeze the coin tray on drivers side it pops down revealing the cars pc connector for later on but above you can push the clips and pry the switch out, just swap out the switch and push back in. you can leave coin box down as you now need to connect up your pc with forscan to activate