

Fanatec McLaren GT3 Replacement Gear Shifters

October 2018

Step 1

Open the wheel and remove the PCB (see our McLaren Conversion instructions)

<http://www.simracingmachines.com/Content/Guides/FanatecMcLarenConversionKitInstructions.pdf>

Remove the QR button, the shifter rods with rubber ends and the two other rubber stops where the P and N buttons go... keep the rubber stops safe they will need putting back later, but taking them out stops them getting lost.

Now remove the screws holding the shifter arm clamp. This will allow you to take the chrome pin out and then the orange shifter arm will come away from the wheel. You can replace the pin and this clamp if you want to. 2 springs will fall out... These will no longer be needed.



Step 2

Now we must remove the shifter stops from the outside of the wheel. These must be cut out using a knife, dremel or saw so that they are flat.



Step 3

Next we need to drill the wheel so we can fit the mounting plates.



Taking the plate with the countersunk bits hidden below, place it onto the wheel as shown above. Then drill 3mm holes through the wheel where shown. Ignore the hole not marked as I found this is not needed and gets really difficult to do. Try to ensure the 2 shifter holes are horizontal while drilling. You can drill one hole and put a bolt through to keep it in place while drilling the others.



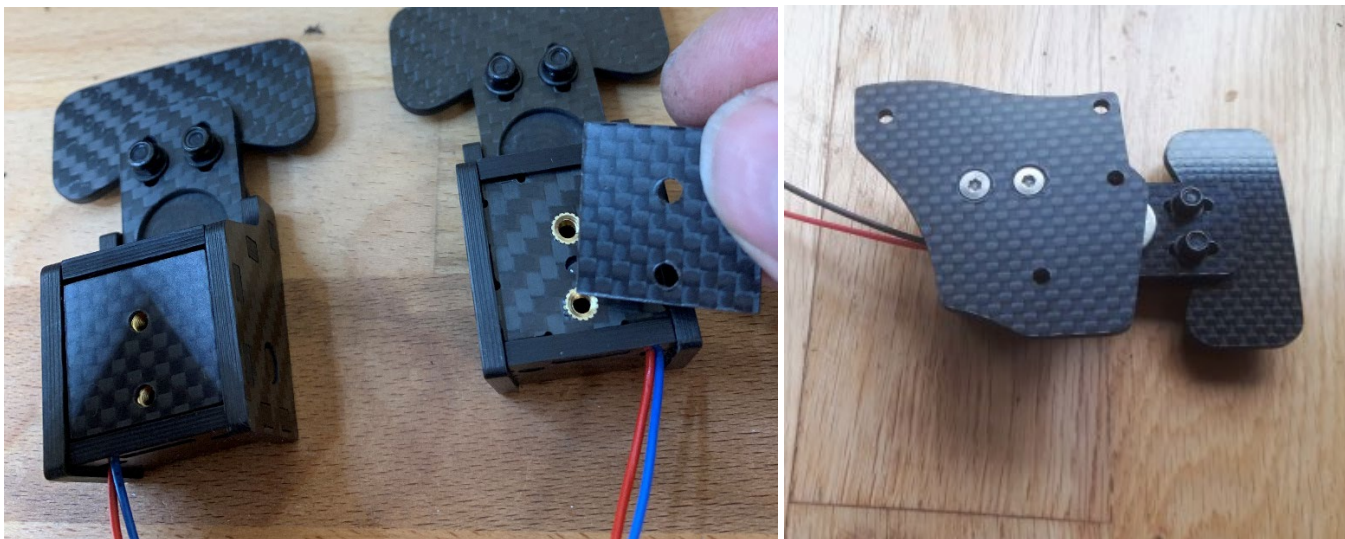
Also drill 5mm holes in the QR area for the shifter wires to go through. I normally use an 4mm drill for this.



Step 4

Fit the shifters to the mounting plates.

Make sure that you add the washer plates between the shifter and the mounting plate. I also recommend adding some thread lock to the bolt holes if possible.



Step 5

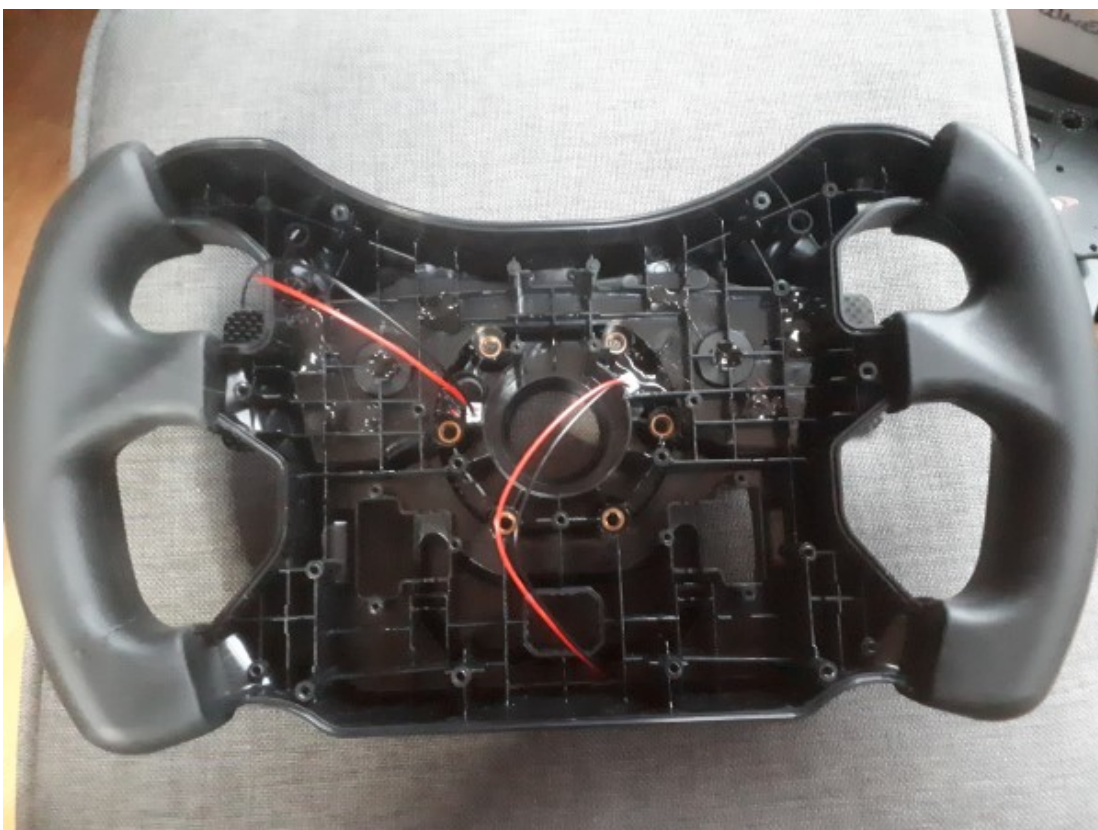
Now we bolt the shifter plate to the wheel using the black bolts, silver washers and nuts.





A set of pliers are useful to hold the nut while tightening the bolt from the front. Do not over-tighten, remember it's plastic. If you need a bit more space to work with, you can remove a few of the plastic bars. When finished, I fill the area where the nuts are with glue gun glue and also fill the old shifter hole.

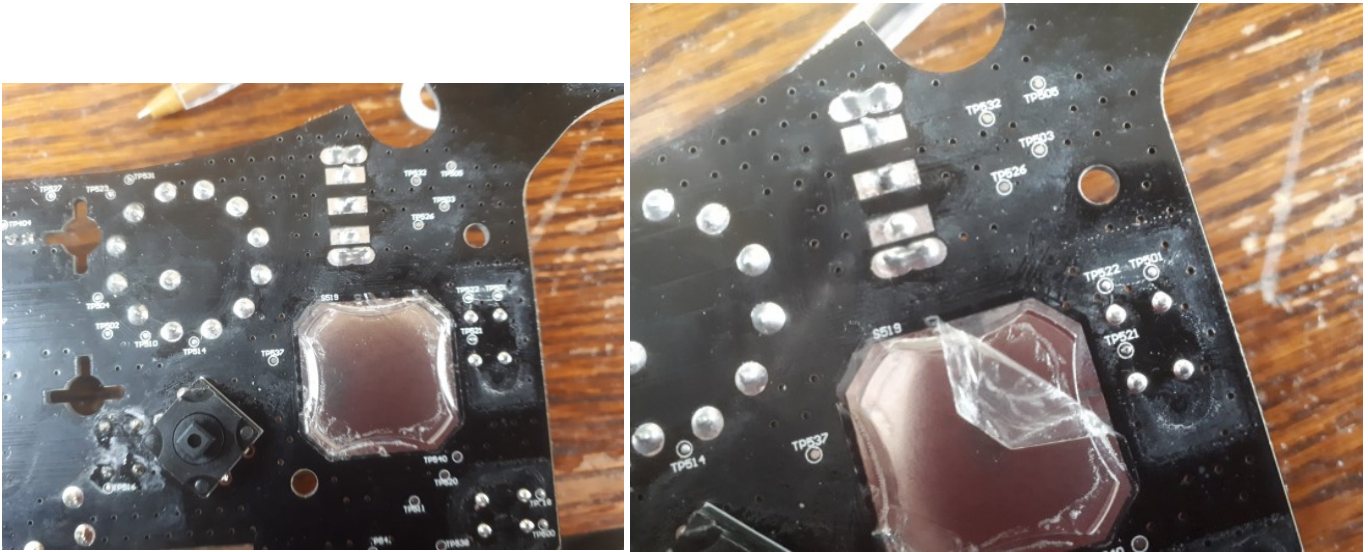
You can also see the shifter wire coming into the wheel through the hole we drilled. The shifter cable has a basic connector plug on the end, this is only there for testing the shifter, it is best to cut the plug off so the cable can go through the hole easily.



Step 6

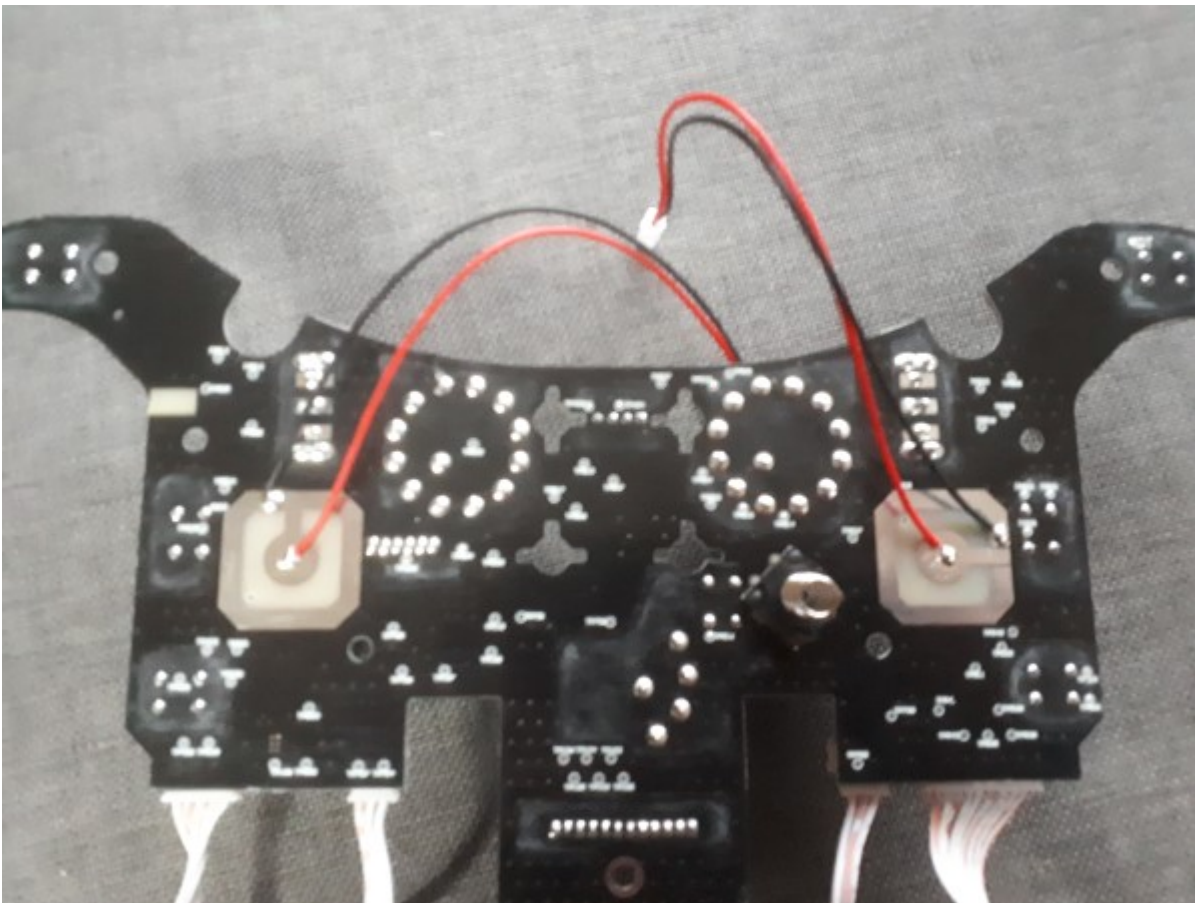
Now we must solder the shifter wires to the Wheel PCB. You can use plugs on the wires or solder them direct.

First, remove the tape and contact pad from the shifter button on the PCB



Next, solder the wires as shown. It does not matter which colour wire goes where. I lightly scuff the PCB contact pad first and then find that solder holds well. Use a hot soldering iron.

You can add a wire with a plug, but now I just solder the shifter wire direct to the wheel PCB. You can solder anywhere on the outer part, it does not need to be where shown.



Step 7

Finally reassemble the PCB and wheel. Then you should be good to go.

Don't forget to replace the rubber studs where the P and N buttons go.