

## Fanatec wheel side conversion kit – Version 3.2 – 3.4 Fitting instructions

Thank you for purchasing our Fanatec conversion kit.  
These instructions will help you fit the kit to your wheel. It is recommended that you read though the instructions fully before starting work on your wheel.

Please remember that fitting this kit to your wheel will invalidate any remaining Fanatec warranty.

### Included with your conversion kit...



- 1 Conversion kit



- 1 Wheel connection cable



- 3 M5 16mm Counter sunk bolts



- 6 M5 16mm Cap head bolts (QR mounting)



- 3 M5 16mm Dome bolts (QR mounting)



- 3 M5 30mm Counter sunk bolts (For spacer)



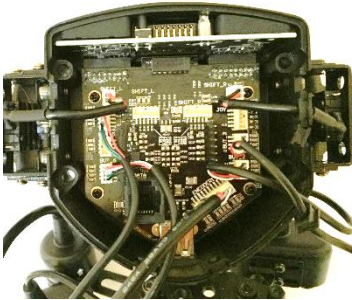
- 1 15mm tall spacer



These fitting instructions are for the following wheels...

1. Universal Hub
2. Universal Hub XBOX edition

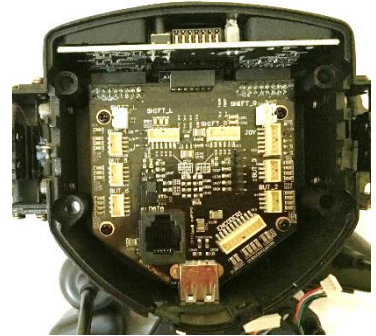
1. Open up the Hub by removing the 4 bolts shown, you do not need to remove the wheel rim from your hub.



2.

3. Remove all of the button and shifter connectors so that the inside PCB is clear of wires

Also remove the little display by just sliding it out.



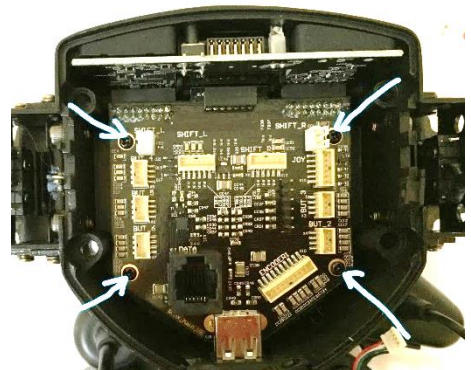
4. Remove the PCB  
Start by removing the 4 screws holding the PCB in place.

Now slide the PCB down towards the USB plug.

Newer versions of the Universal hub will allow you to just lift out the PCB together with the top button PCB, leaving the rubber buttons in place.

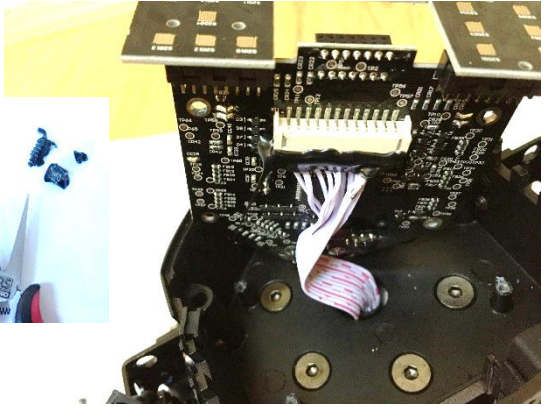
Older versions have the rubber buttons attached to the PCB and so you have to gently ease it out including the buttons. Pushing the buttons in from the top as they move helps... just take your time.

Be very careful not to break the LED and long stick button.



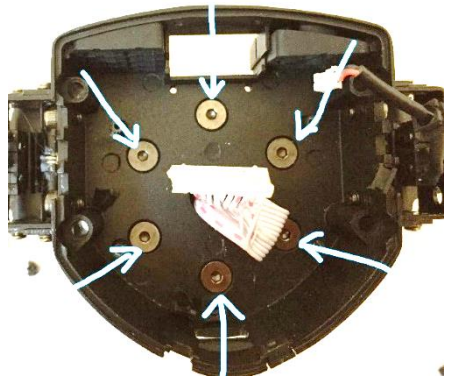
The PCB will come out of the casing and just be held on by the QR cable.

Most versions have glue holding the QR cable plug in place. This can either be softened with a hair dryer or I prefer to just pull it off. However, you remove it be very careful and gentle... do not pull too hard otherwise the hole socket will come off the PCB. I tend to use my fingernail or a set of blunt plyers and make small twisting motions to remove the glue in small pieces. Be very careful not to damage the components on the PCB near the plug.



You can now remove the Fanatec QR by undoing the 6 bolts and pulling the cable and plug through the centre hole.

HINT: If you manage to damage one of these bolts this will help. Obtain a Torx driver bit that is just bigger than the Hex bolt bit, so it does not quite fit. Gently hammer this into the bolt so it is secure. You should now be able to undo the bolt successfully.



You should now have everything disconnected and are ready to start installing the conversion kit.



5. Next you can fit the conversion kit to the plate. Your kit is supplied with 3 bolts hand screwed into it. Note the holes that these bolts are in because these are the 3 holes that correspond to the Fanatec plate. The other 3 are different and there to accept a generic 50.8mm quick release.

3 bolts have been lightly placed into the kit in the correct holes. Remove these and use them to attach the kit to the wheel plate. You only need 3 bolts.



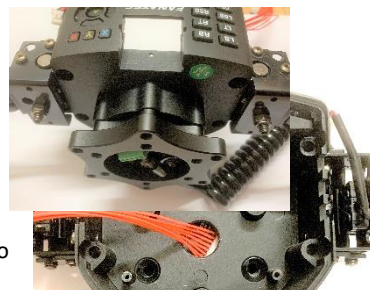
The kit can be fitted direct to the Universal hub housing using the 3 x 16mm counter sunk bolts but this will block the display slot, so you will only be able to fit the display in the upright position. Alternatively, you can use the spacer and 30mm long bolts. This will leave plenty of room for the display to fit in either orientation.

The spacer also has 3 holes at 50.8mm PCD and 3 at 52mm PCD for the Fanatec wheel connection.



There will be an SRM sticker on the spacer, this should go at the top of the hub, closest to the display to ensure the correct holes are used.

Fit the kit like this. It is recommended that you use a very small amount of thread lock or superglue on the bolts, this will stop them working loose.



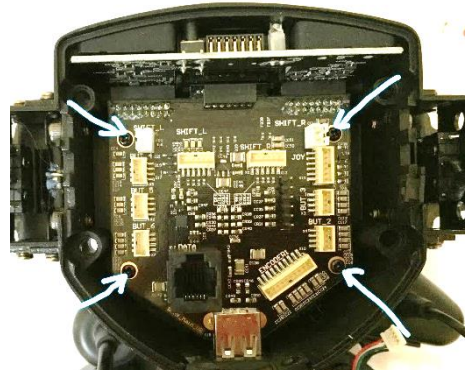
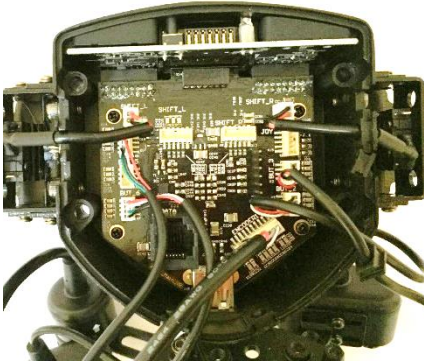
6. The next step is to connect the red cable from the kit to the wheel PCB. Carefully plug the kit cable into the wheel PCB as shown. You can secure the plug with glue gun glue, but this is not really needed so optional.



7. Now connect the grounding cable to one of the empty bolt holes using the fourth 16mm bolt. This hole is not the correct size for the bolt as it's a slightly different pattern so you will need to force the bolt in, sometimes as a slight angle. Forcing the bolt in ensures a really good connection to the aluminium. It should look like this...
8. Carefully replace the PCB into the Universal Hub casing making sure that the red cable and grounding wire are not trapped. If you have used the spacer you can push excess cable into the spacer cavity.

Slide the PCB in and then gently upwards before re-attaching the 4 bolts that hold the PCB in place. Be careful to ensure that the top switch and LED are in place first.

The conversion is now complete. You can reconnect the button and shifter plugs before reattaching the front to the hub.



## Software

The buttons, shifters and rotary will work without the need for any software. You do not need Fanatec software or drivers. The wheel will not show up in Fanatec software.

You can use the Podium Advanced Paddle module with the conversion kit. Drivers and software are not needed for the shifters or clutches. You will have 2 separate clutches, there is no bite point option.

To use the display, you need to install either Fanaleds or SLI-Max pro. Both are free to use.

Some games try to control the wheel direct and this never works properly, so you may need to turn off game features. This web page is a great resource for this

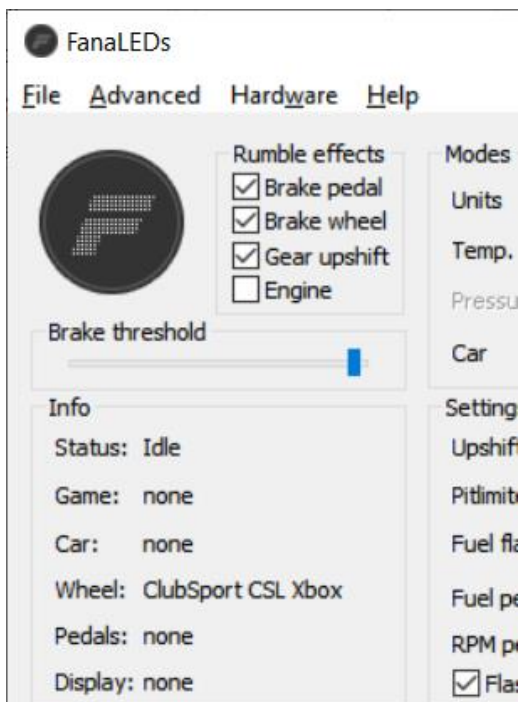
<http://www.eksimracing.com/slimax-manager-plugins-updates/>

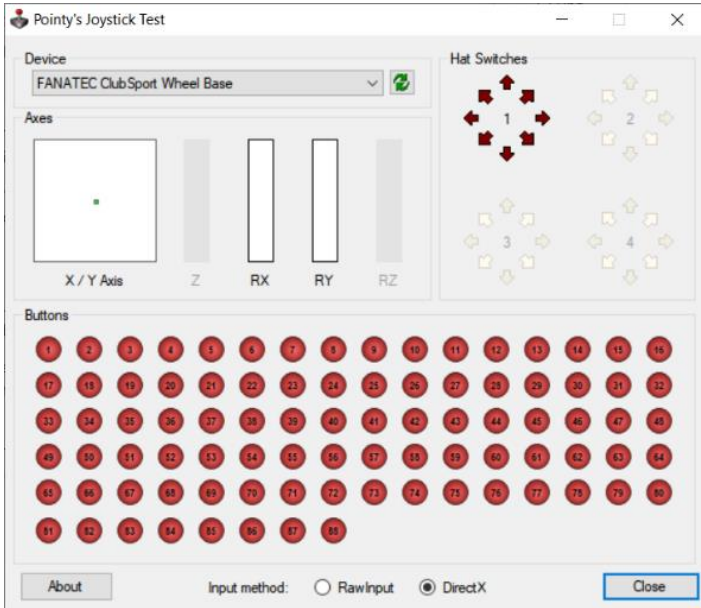
Occasionally, windows update seems to corrupt the game controller settings if Fanatec software is installed. If you have problems please uninstall fanatec drivers / software. If you need them for pedals or a shifter, reinstall once the wheel is working properly.

## Testing

You can test the wheel / kit at any time throughout the conversion. If you plug in the USB cable before attaching it to a wheel it will show up in windows and Fanaleds but say No Rim.

To test the wheel in windows we recommend using Fanaleds and Joystick test (Available on our downloads page in Help). Firstly, check that the wheel is reported correctly in Fanaleds. Then test all buttons in Joystick test or the standard windows game controller.





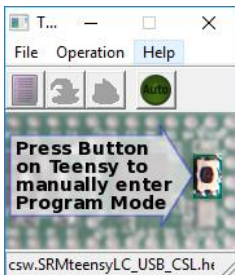
## Firmware

Version 3.1 of the conversions kit uses a brand new custom designed PCB which is based on the Teensy 3.2. Earlier kits use the teensy LC, an entry level board. Please ensure that you only flash the kit with firmware for version 3.1 kits.

If you need to flash the firmware on the kit at any time you can download the latest file from our software page in the help section of the web shop. The zip file will include instructions, the flash file (.hex) and the teensy flashing tool program.

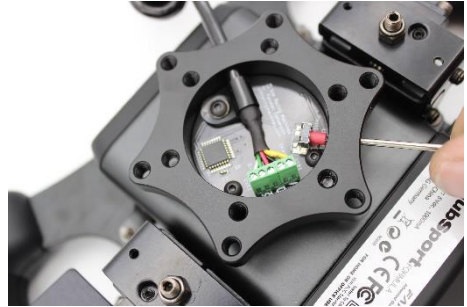
To get to the flashing button on the PCB you will need to remove your quick release first.

1. Download the firmware package



2. Run the teensy.exe flash program
3. Load the firmware file – File > Open HEX File – Navigate to the downloaded, .hex file

- Click on the AUTO green button



- Ensure the conversion kit is connected to the PC via the USB cable
- Press the little button on the PCB. This button presses sideways to help avoid accidental activation.
- You should hear a beep and the software will say reprogramming.
- The kit should then reboot.
- That should be it. Now have the new firmware on your conversion kit and it is ready to use.



**We hope you enjoy your converted wheel. If you need any help or have any questions, please feel free to make contact**  
**[sales@simracingmachines.com](mailto:sales@simracingmachines.com)**

