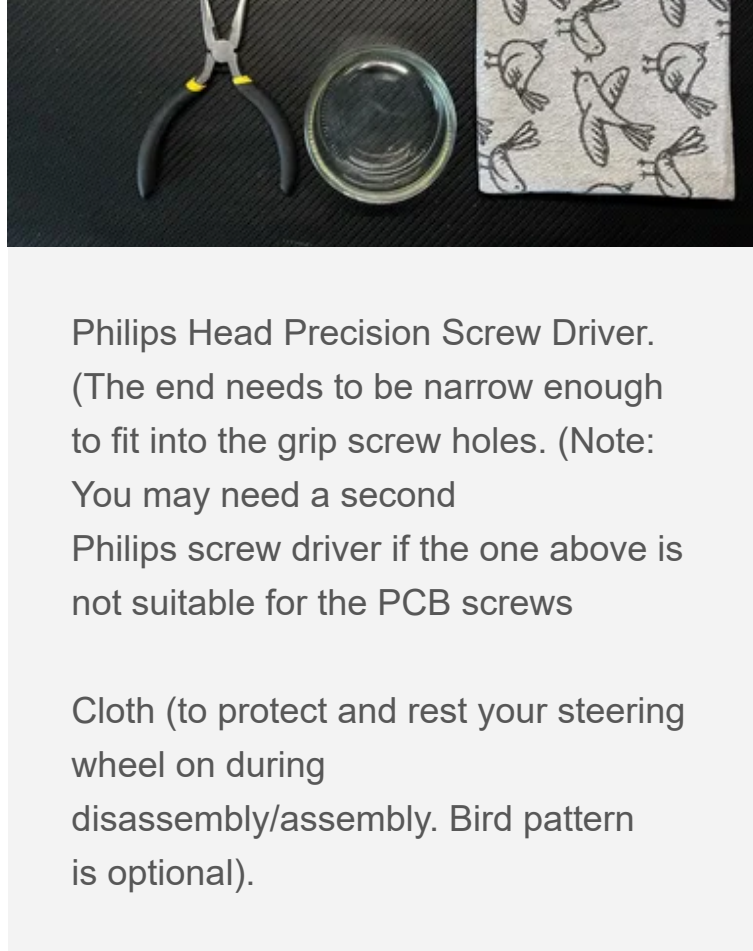


310mm WIDER WHEEL KIT INSTRUCTIONS - FANATEC V-SERIES/PODIUM/LIMITED EDITION

ALWAYS TAKE YOUR TIME WHEN CARRYING OUT THE FOLLOWING. IF IN ANY DOUBT ABOUT THE PROCEDURE DO NOT HESITATE TO CONTACT US.

Tools Required...



Phillips Head Precision Screw Driver. (The end needs to be narrow enough to fit into the grip screw holes. (Note: You may need a second Phillips screw driver if the one above is not suitable for the PCB screws

Cloth (to protect and rest your steering wheel on during disassembly/assembly. Bird pattern is optional).

2.5mm A/F Hex Key (Allen® Key).

2.0mm A/F Hex Key (Allen® Key).

4mm A/F Hex Key (Allen® Key).

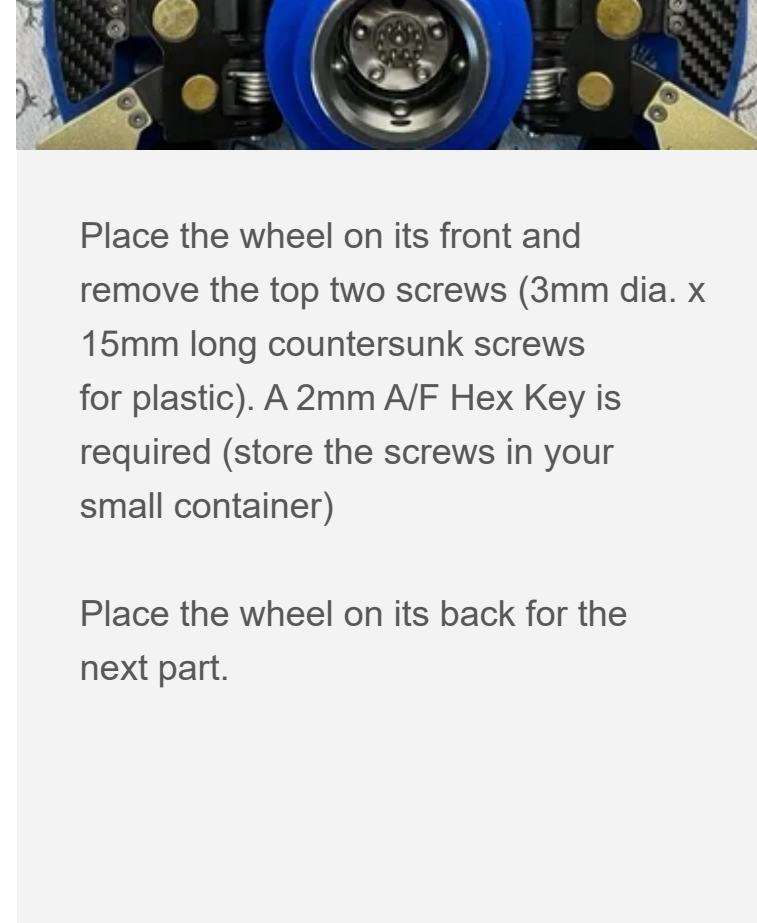
Tweekers (sharp pointed).

Long Nosed Pliers.

Small container to keep all your removed screws, washer etc safe.

We supply you with a plastic thin edged tool (Spudger)

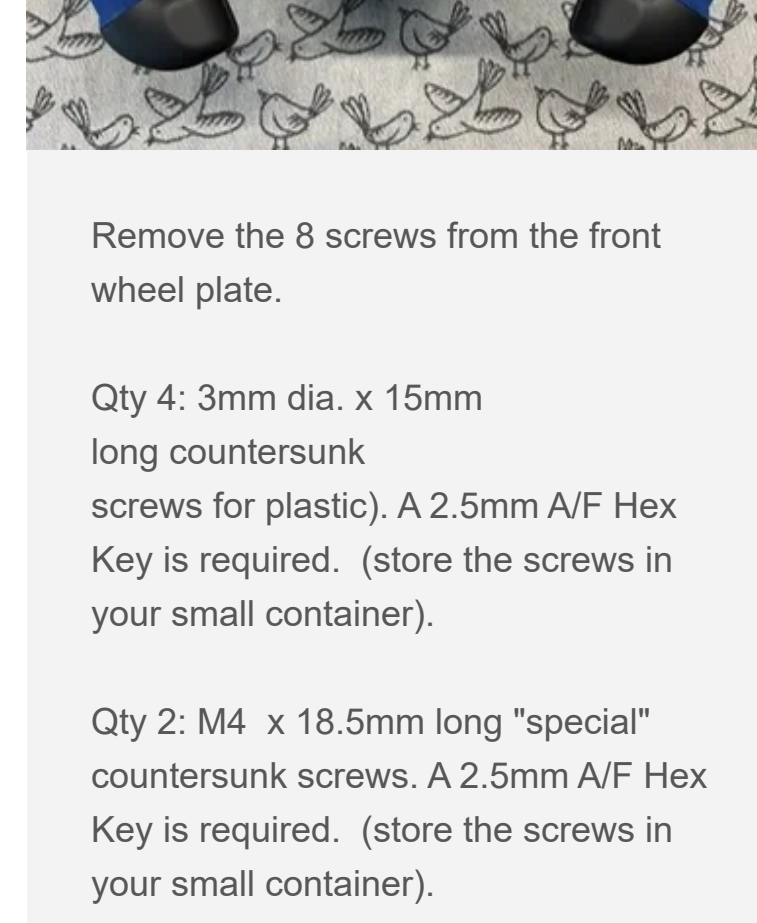
Wheel Disassembly: Removing the Top Rear Fasteners (part 1)



Place the wheel on its front and remove the top two screws (3mm dia. x 15mm long countersunk screws for plastic). A 2mm A/F Hex Key is required (store the screws in your small container)

Place the wheel on its back for the next part.

Wheel Disassembly: Removing the Front Fastenings (part 2)



Remove the 8 screws from the front wheel plate.

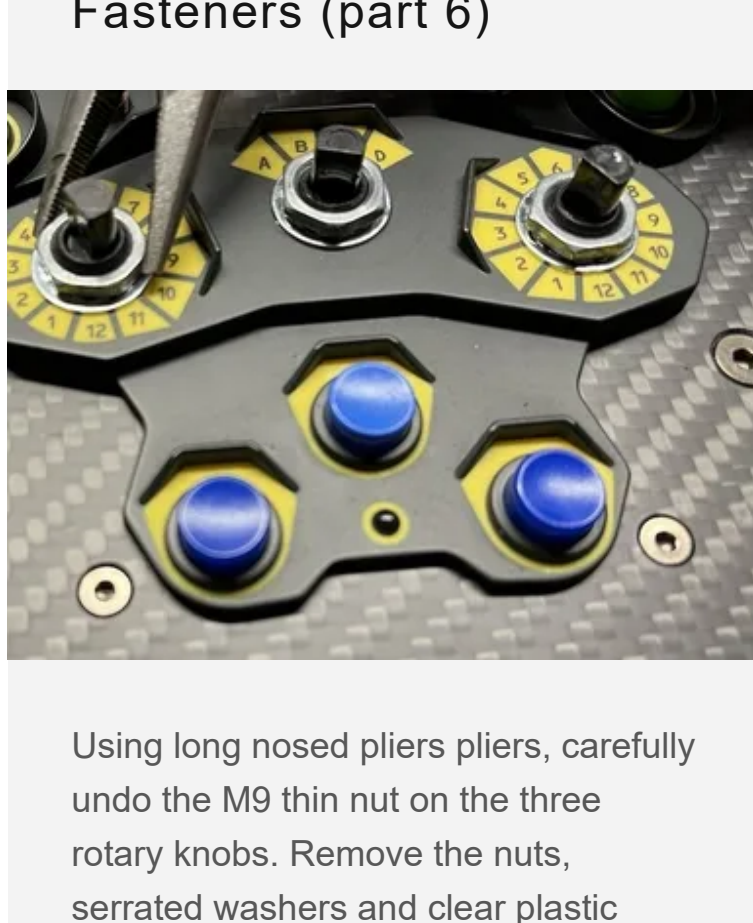
Qty 4: 3mm dia. x 15mm long countersunk screws for plastic). A 2.5mm A/F Hex Key is required. (store the screws in your small container).

Qty 2: M4 x 18.5mm long "special" countersunk screws. A 2.5mm A/F Hex Key is required. (store the screws in your small container).

Qty 2: M4 x 16mm long countersunk screws. A 2mm A/F Hex Key is required. (store the screws in your small container).

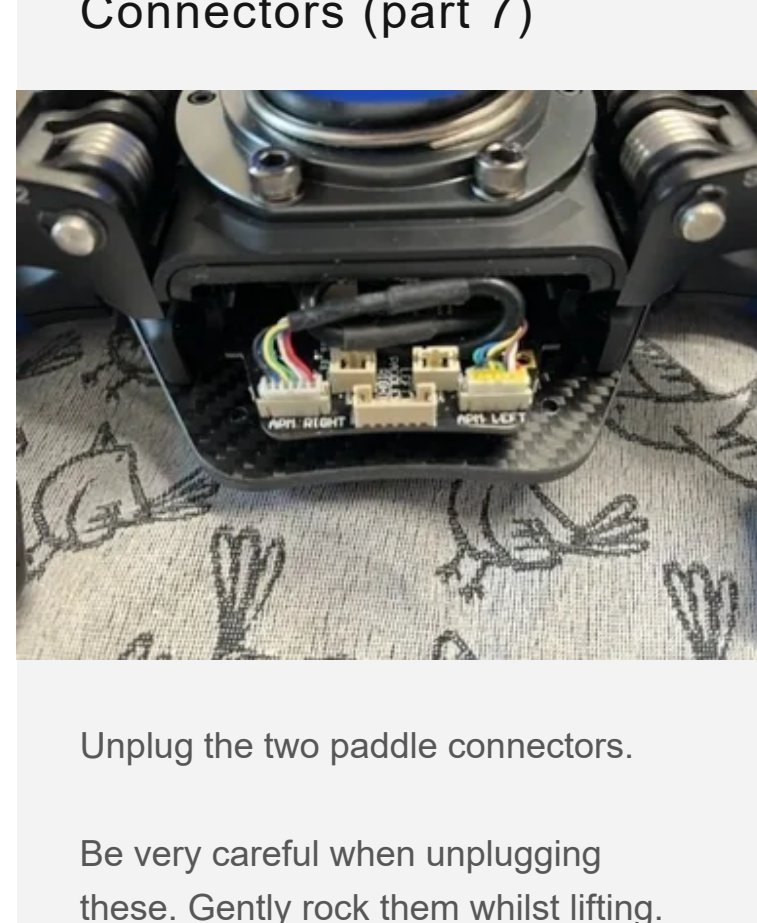
The rear bottom shroud will now be removable.

Wheel Disassembly: Removing the Rubber Covers (part 3)



Remove the two rubber covers from the red toggle switches. They just pull off easily (store in your small container).

Wheel Disassembly: Removing the Toggle Switch Fasteners (part 4)



Using long nosed pliers, carefully undo the M6 thin nut on the two toggle switches.

Remove the nuts and serrated washers (store in your small container).

Wheel Disassembly: Removing the Rotary Knobs (part 5)



Using the blue "spudger" provided, carefully lift the sides of the rotary knob. Work your way around the sides of the rotary knob, gently rocking and lifting until it is loose.

Repeat for the other two rotary knobs (store in your small container).

Note: We also sell custom coloured aluminium Rotary Knobs if you haven't already purchased this upgrade.

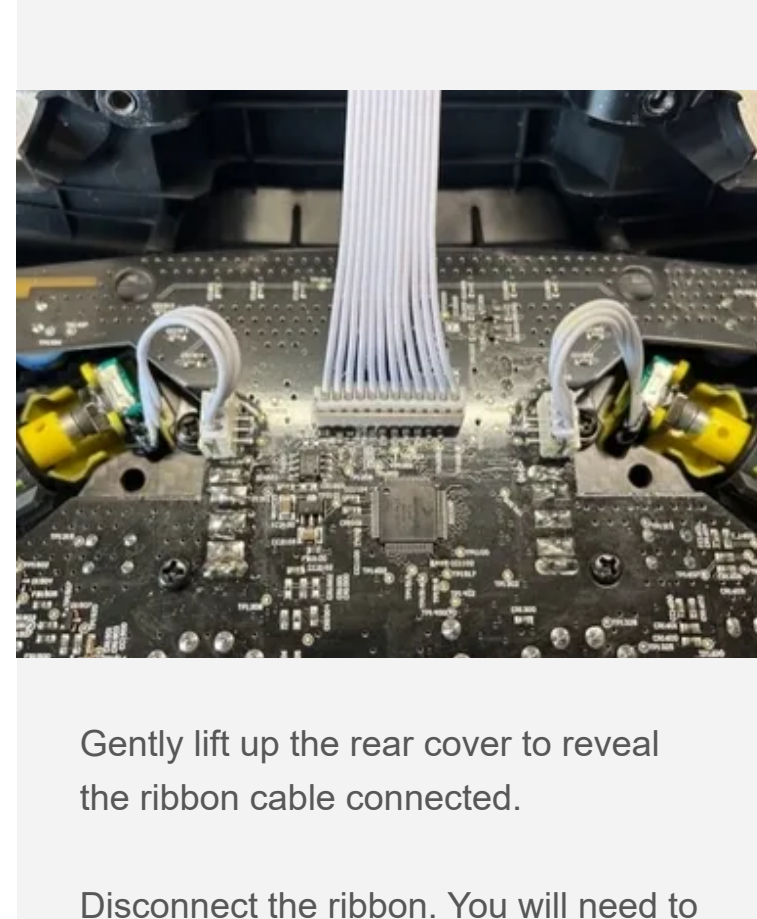
Wheel Disassembly: Removing Rotary Knob Fasteners (part 6)



Using long nosed pliers, carefully undo the M9 thin nut on the three rotary knobs. Remove the nuts, serrated washers and clear plastic protective washers (store in your small container).

Place the wheel on its front for the next part.

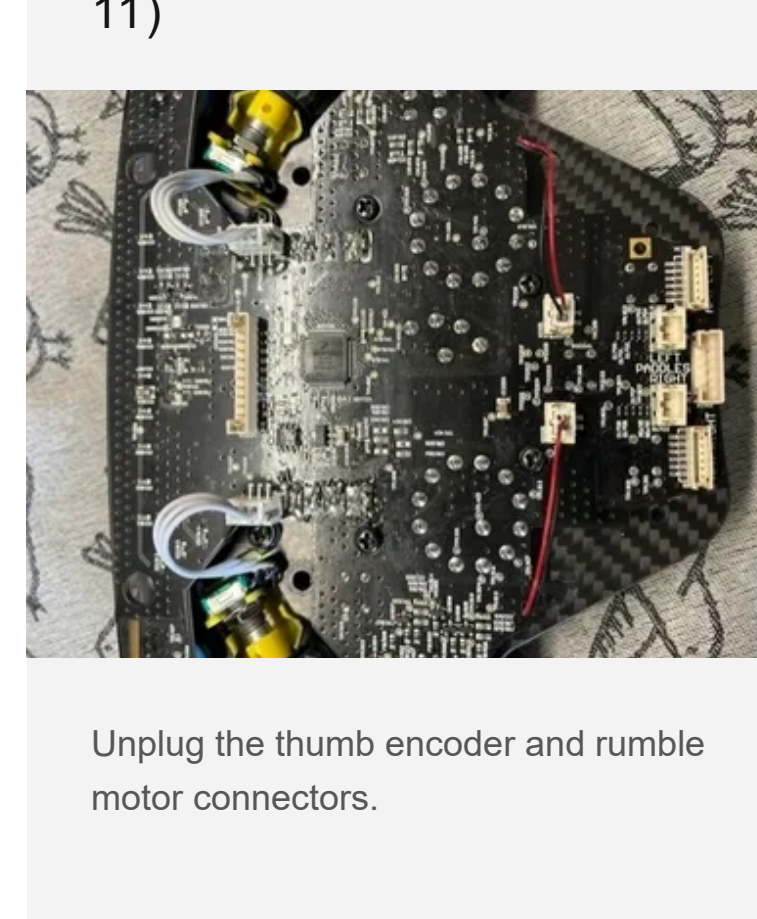
Wheel Disassembly: Unplugging the Paddle Connectors (part 7)



Unplug the two paddle connectors.

Be very careful when unplugging these. Gently rock them whilst lifting. Hold the female part of the connector so its not being pulled up from the PCB (it's possible to pull this off from the soldering points of the PCB if you are aggressive in unplugging the connectors. Just take your time and everything will be fine).

Wheel Disassembly: Removing the Paddles (part 8)



For Standard (non-magnetic) Paddles:

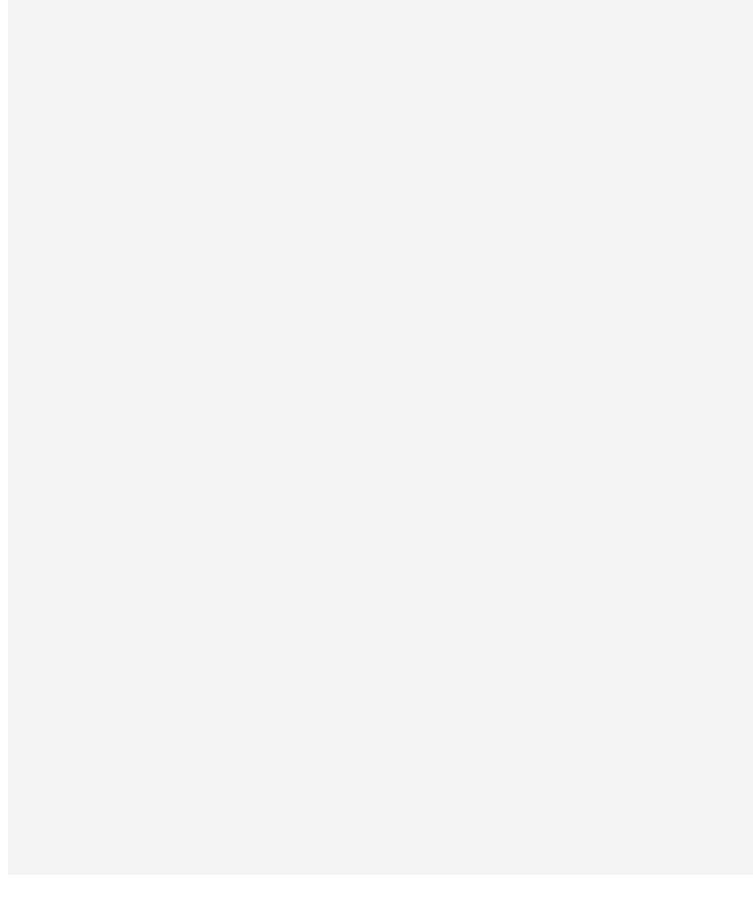
Remove the modules completely. There are two (M5 x 12mm long Socket Cap Head) screws holding each APM in place. A 4.0mm A/F Hex Key is required. (store the screws in your small container)

For MPM's or APM's:

Remove the modules completely. There are two (M5 x 12mm long Socket Cap Head) screws holding each APM in place. A 4.0mm A/F Hex Key is required. (store the screws in your small container)

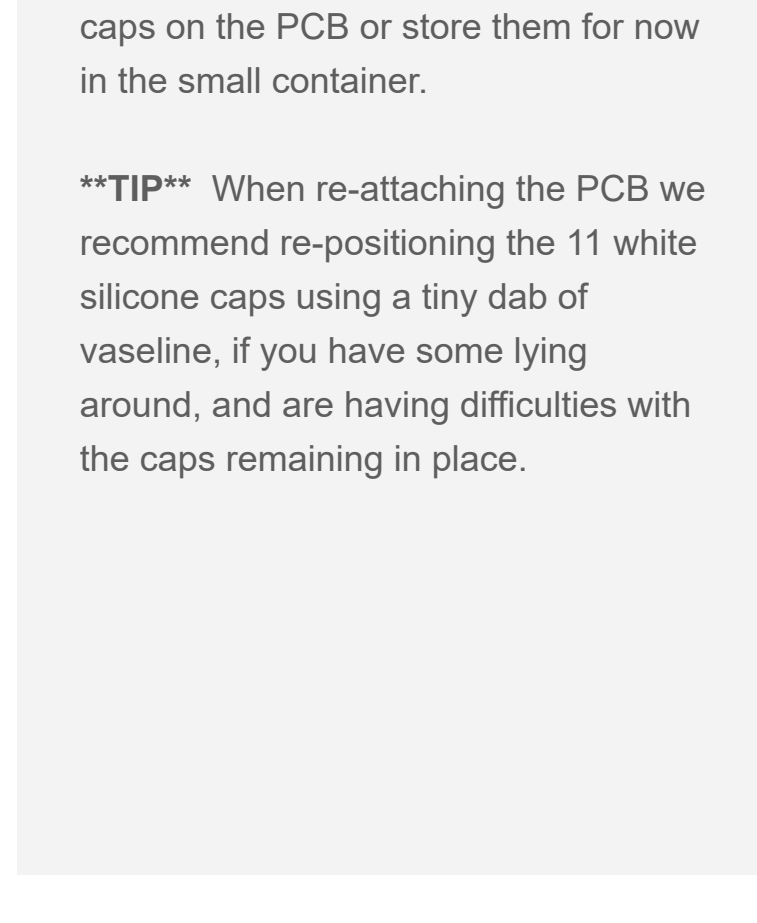
It can be quite common for the screws to end up attached to the strong magnets, on the rear of the APM. Do not worry, just use tweezers to recover them :-)

Wheel Disassembly: Removing the Grip Retaining Screws (part 9)



Remove the grip retaining screw (2mm dia. x 10mm long Phillips Pan Head Screw for plastic). One on each set of grips. A suitable Phillips screwdriver is required. (store the screws in your small container).

Wheel Disassembly: Removing the Rear of the Wheel (part 10)



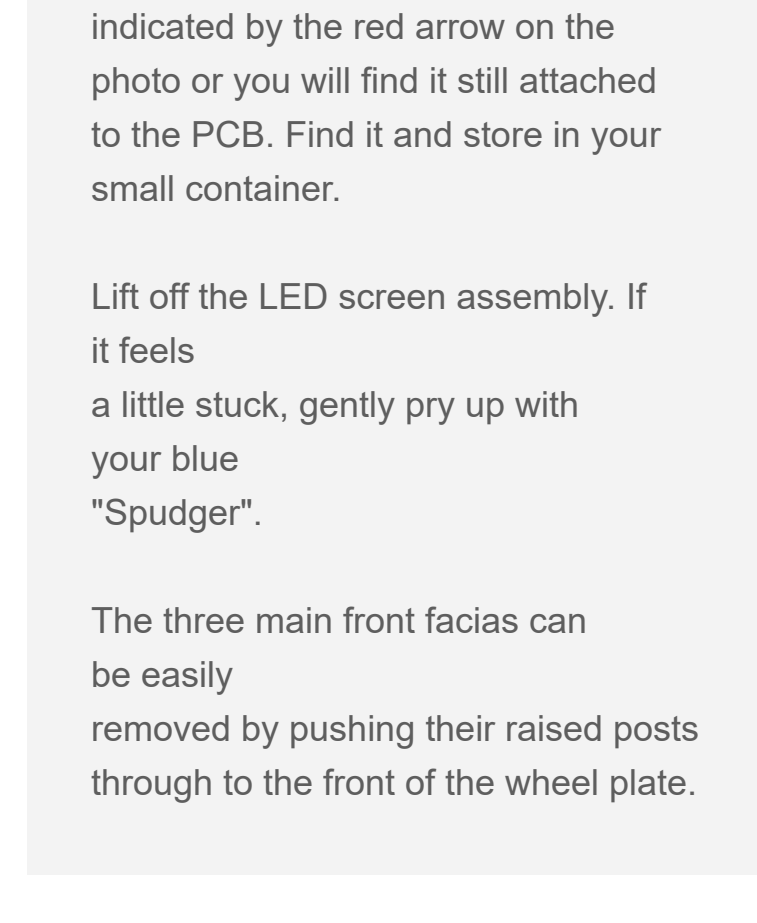
Gently lift up the rear cover to reveal the ribbon cable connected.

Disconnect the ribbon. You will need to remove the silicone that surrounds it (if this is the first time it's ever been disconnected).

Carefully rock the connector as you pull up to disconnect it. Try not to put any excessive strain on the PCB.

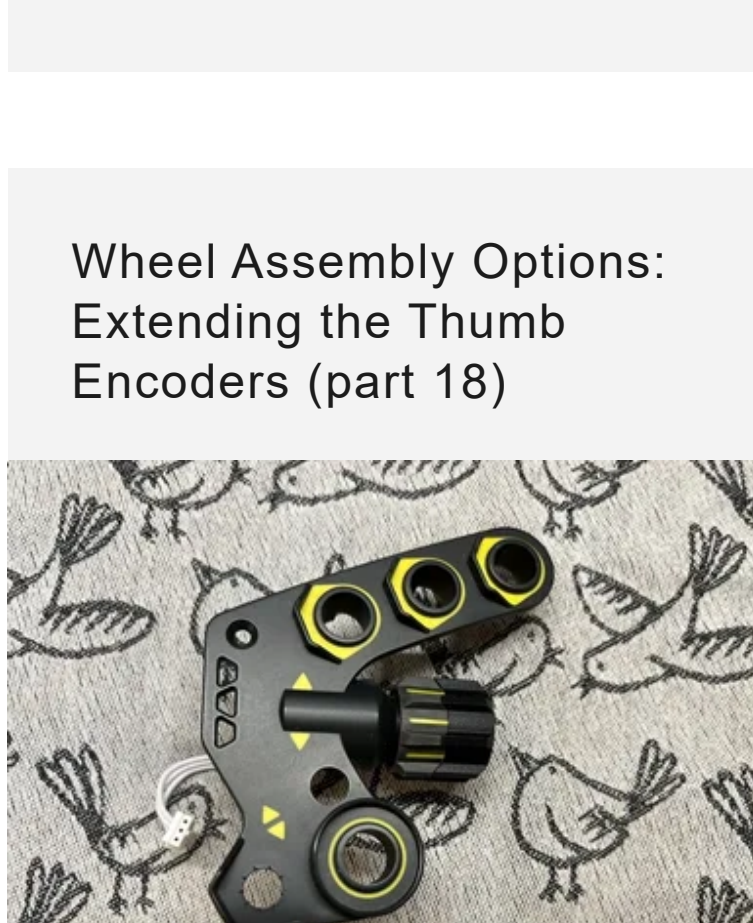
The rear cover can now be removed.

Wheel Disassembly: Unplugging the remaining Internal Connectors (part 11)



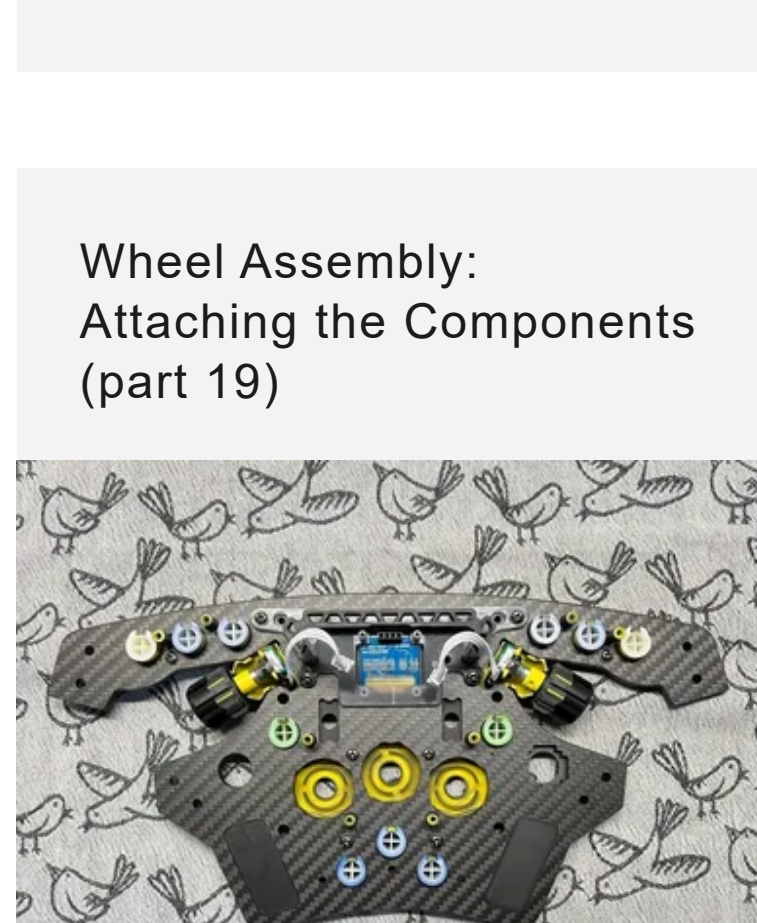
Unplug the thumb encoder and rumble motor connectors.

Wheel Disassembly: Unclipping the Rumble Motor Wires (part 12)



Carefully unclip each rumble motor cable from the PCB's retaining t-slot.

Wheel Disassembly: Removing the PCB (part 13)



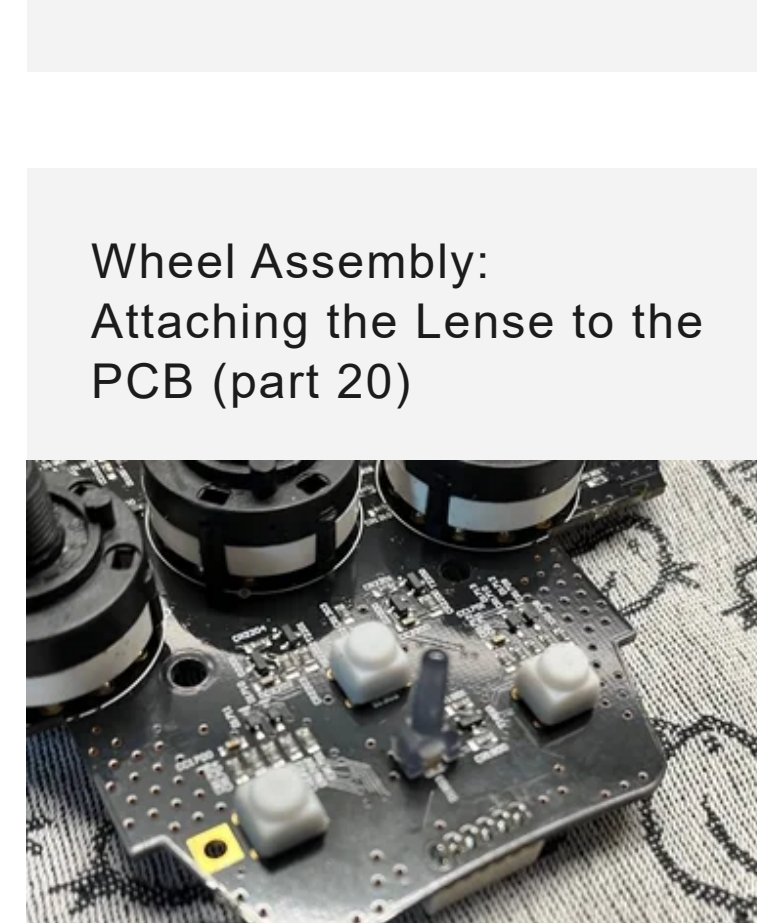
Remove the 6 (3mm dia. x 8mm long Pan Head Phillips) Screws with a suitable Phillips screwdriver. (store in your small container).

You can now carefully lift off the PCB.

Be careful with the 11 white silicone caps on the PCB. These may fall off when removing the PCB. Replace the caps on the PCB or store them for now in the small container.

****TIP**** When re-attaching the PCB we recommend re-positioning the 11 white silicone caps using a tiny dab of vaseline, if you have some lying around, and are having difficulties with the caps remaining in place.

Wheel Disassembly: Clearing the Wheel Plate (part 14)



Remove the 11 buttons. (store in your small container)

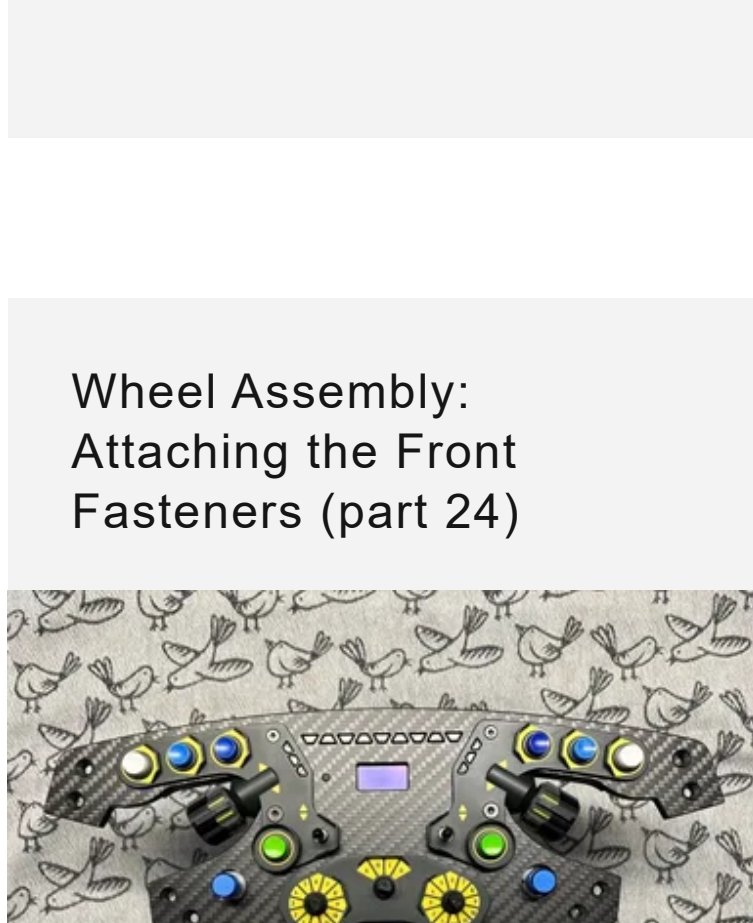
Remove the 10 (3mm dia. x 5mm long Flanged Head Phillips) Screws for plastic, with a suitable Phillips screwdriver. (store the screws in your small container)

The LED lens may be in the position indicated by the red arrow on the photo or you will find it still attached to the PCB. Find it and store in your small container.

Lift off the LED screen assembly. If it feels a little stuck, gently pry up with your blue "Spudger".

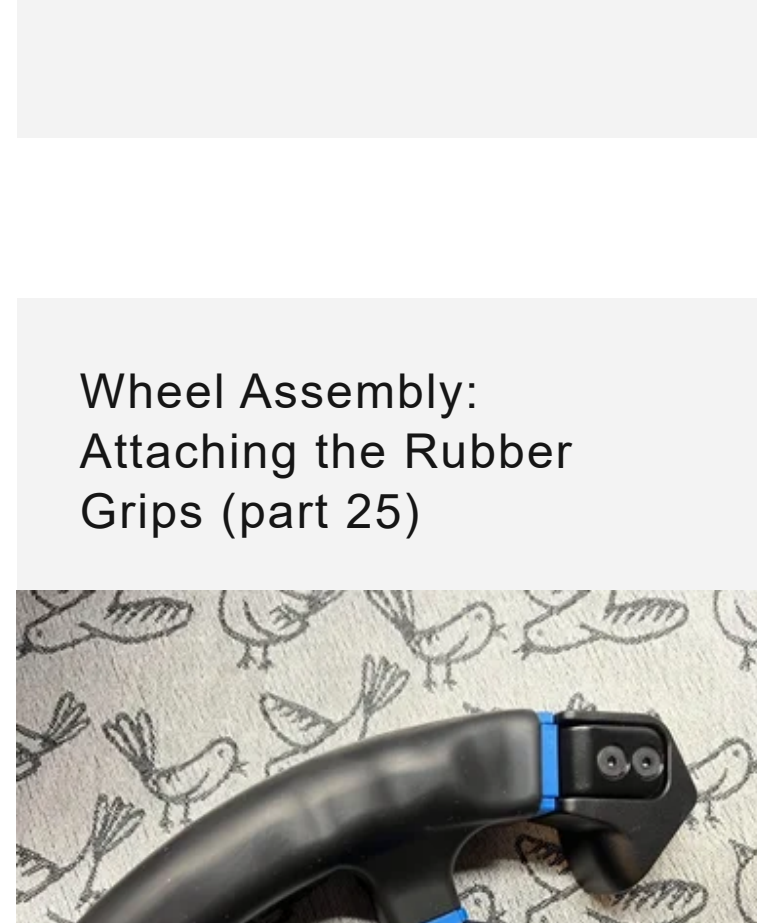
The three main front facias can be easily removed by pushing their raised posts through to the front of the wheel plate.

Wheel Disassembly: Store the Wheel Plate Assembly (part 15)



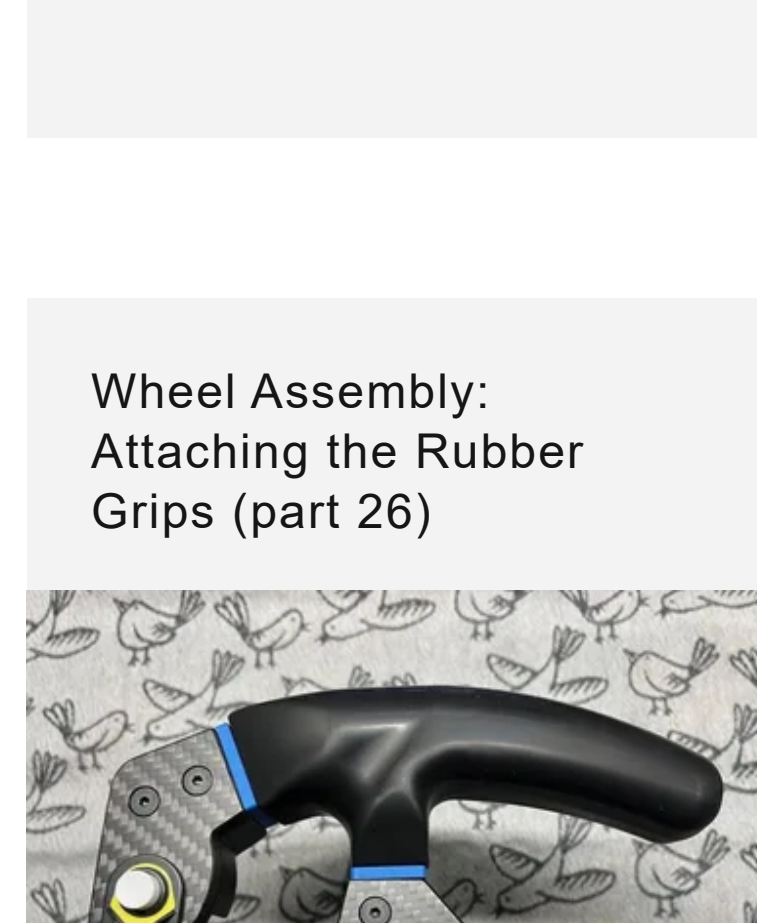
Store your old wheel plate/grip assembly somewhere safe and grab your new wider wheel plate.

Wheel Assembly: Remover Grips from the new 310mm Wheel Plate Assembly (part 16)



Remove the eight (4mm dia. x 8mm long countersunk) screws. A 2.5mm A/F Hex Key is required. (store the screws in your small container).

Wheel Assembly Options: Extended Thumb Encoders (part 17)

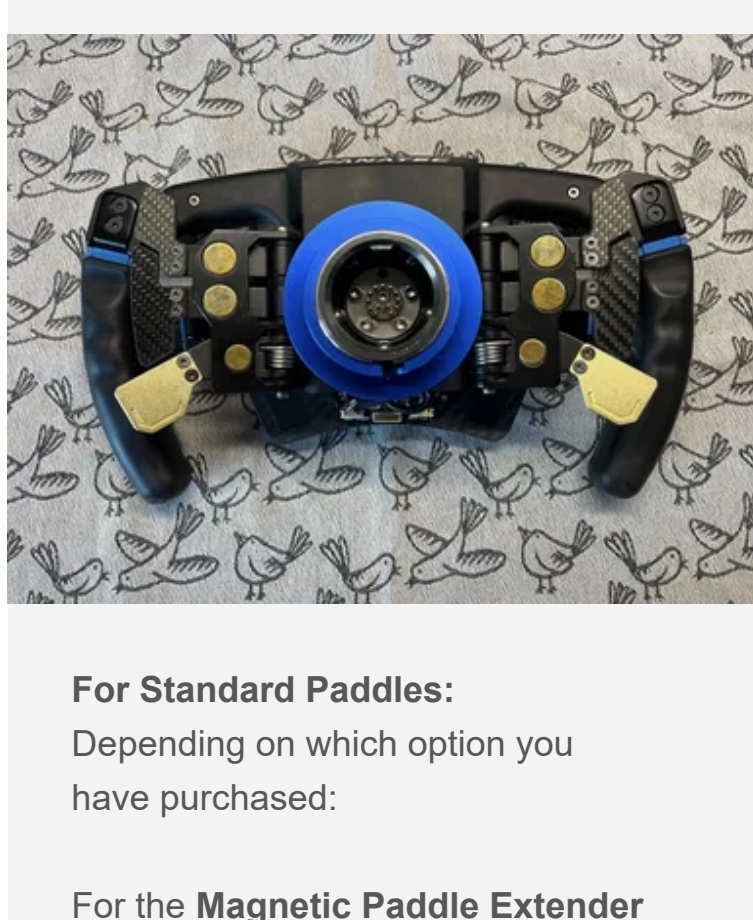


If you have opted for this option, now is the time to attach the two extenders....

The Aluminium Thumb Encoder extensions are designed to push on the end of your existing Encoders with the extra aid of strong adhesive tape (already attached).

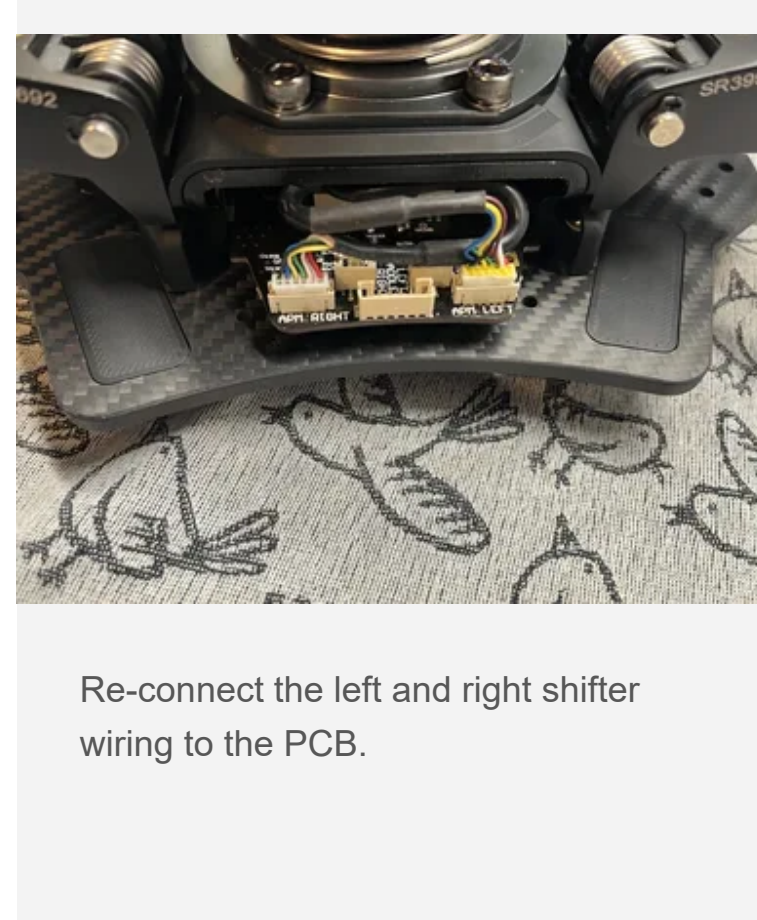
Carefully peel off the yellow backing (using tweezers).

Wheel Assembly Options: Extending the Thumb Encoders (part 18)



Align the ribs on the existing thumb encoder with the extensions and press home until flush as shown in the photo.

Wheel Assembly: Attaching the Components (part 19)



Take your new wider wheel plate (the rear of the wheel plate is shown in the photo) and populate the parts as shown.

Attach the LED screen assembly and three main front facias with the 10 (3mm dia. x 5mm long Flanged Pan Head) Phillips Screws for plastic, using a suitable Phillips screwdriver.

Insert the 11 buttons in place.

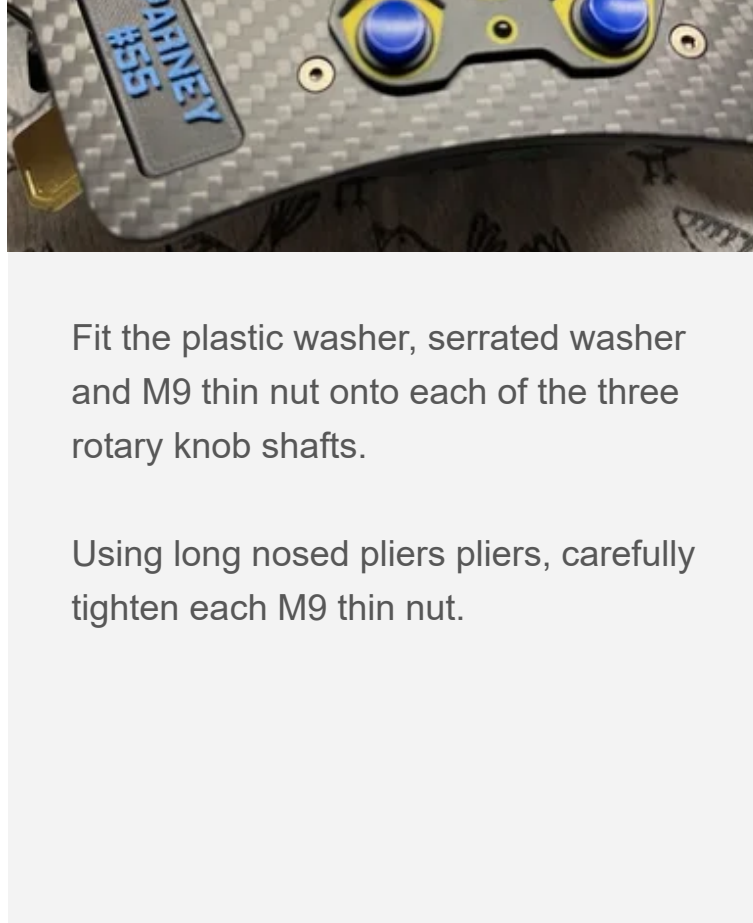
Wheel Assembly: Attaching the Lense to the PCB (part 20)



Ensure the LED lens is attached to the PCB before attempting to assemble to the wheel plate. This press fits into the PCB and should stay there.

Also check all the white rubber micro switch covers are in place.

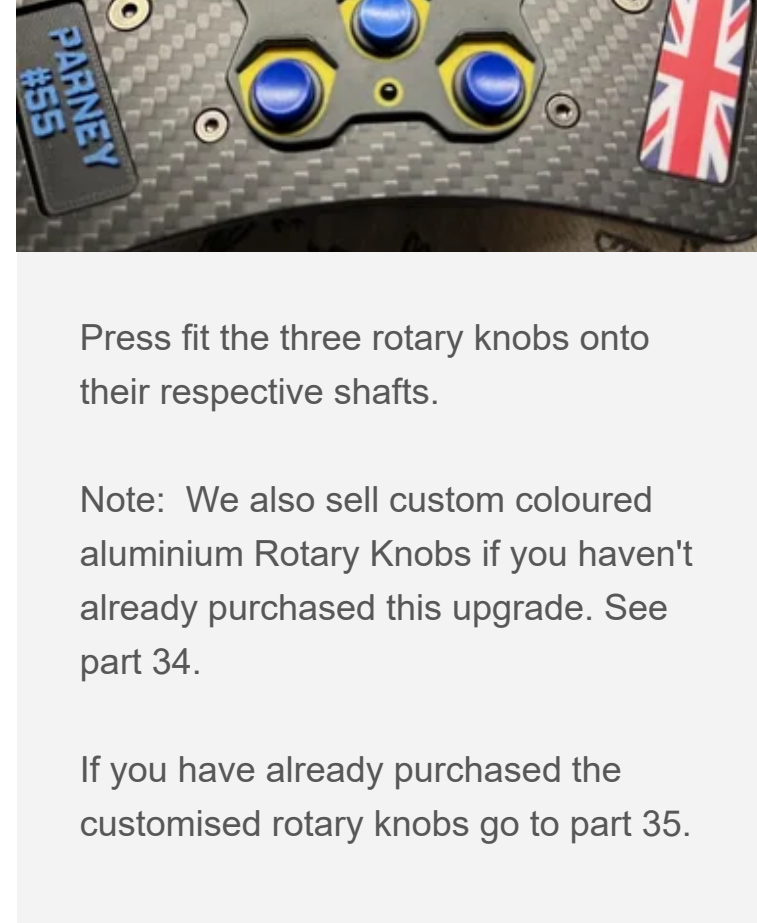
Wheel Assembly: Attaching the PCB (part 21)



Carefully attach the PCB with the 6 (3mm dia. x 8mm long Pan Head) Phillips Screws with a suitable Phillips screwdriver (store the screws in your small container).

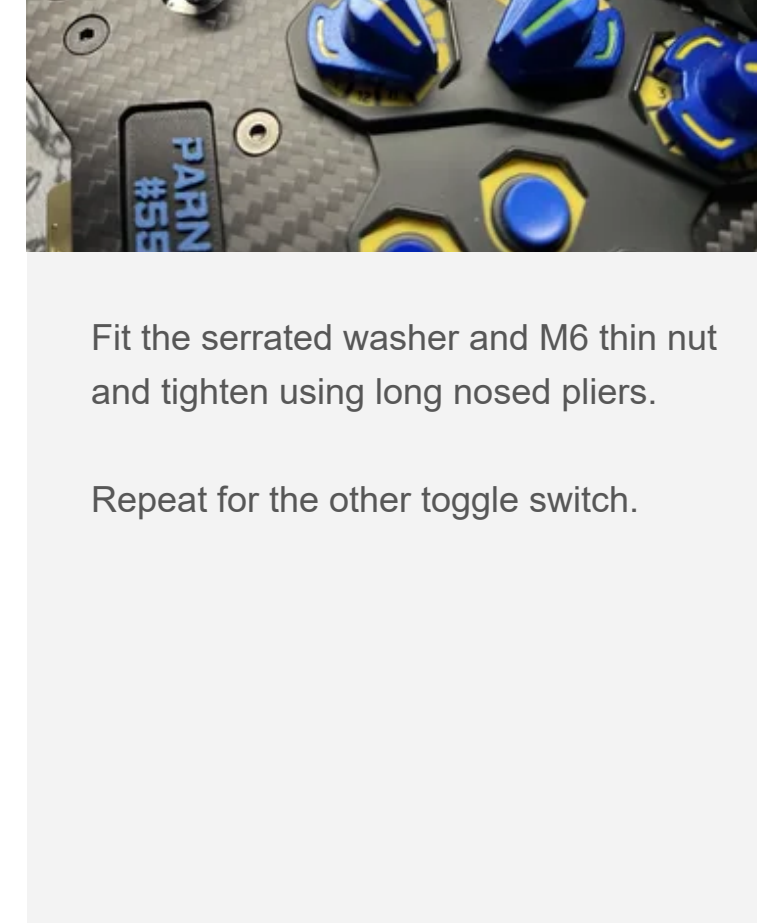
Attach each thumb encoder connector to the PCB.

Wheel Assembly: Attaching the Rear of the Wheel (part 22)



Attach the ribbon connector to the PCB as shown.

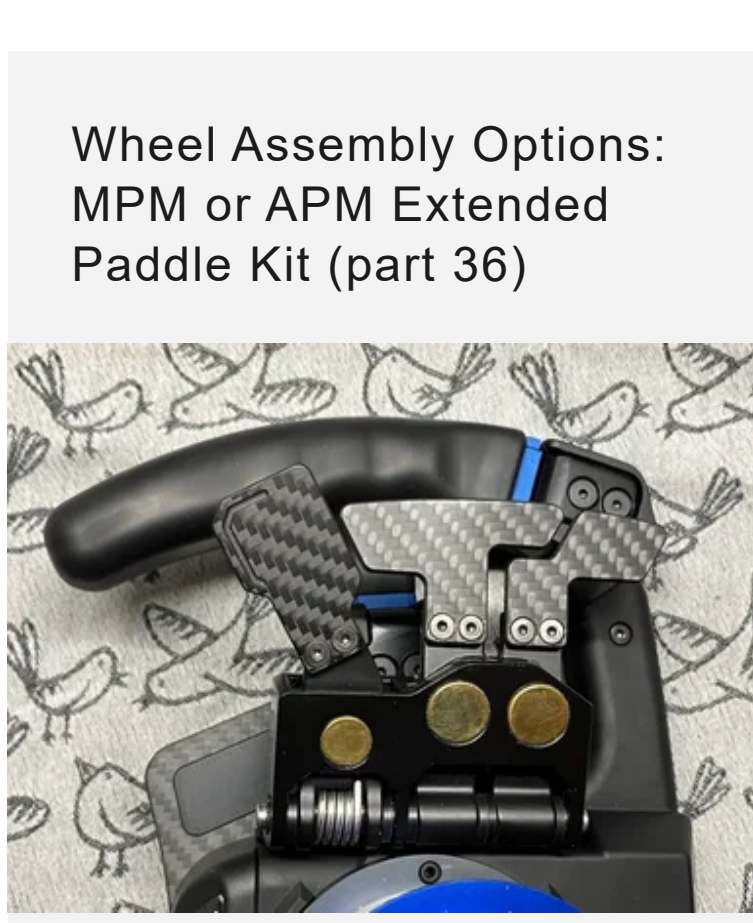
Wheel Assembly: Attaching the Top Rear Fasteners (part 23)



With the wheel still on its front, attach the rear of the wheel plate using 4 (M4 x 8mm long Socket Countersunk Head) Screws to plastic. A 2mm A/F Hex Key is required.

Place the wheel on its back for the next part.

Wheel Assembly: Attaching the Front Fasteners (part 24)



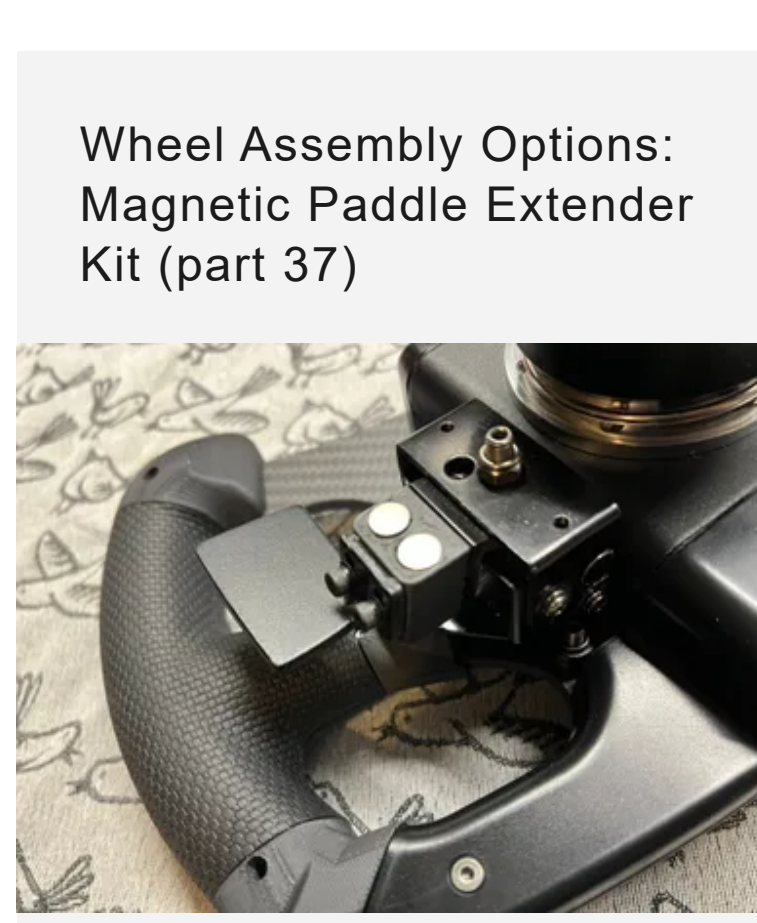
Attach the 6 screws to the front wheel plate.

Qty 2: 3mm dia. x 15mm long Countersunk Screws for plastic. A 2.5mm A/F Hex Key is required.

Qty 2: M4 x 18.5mm long "special" Countersunk Screws. A 2.5mm A/F Hex Key is required.

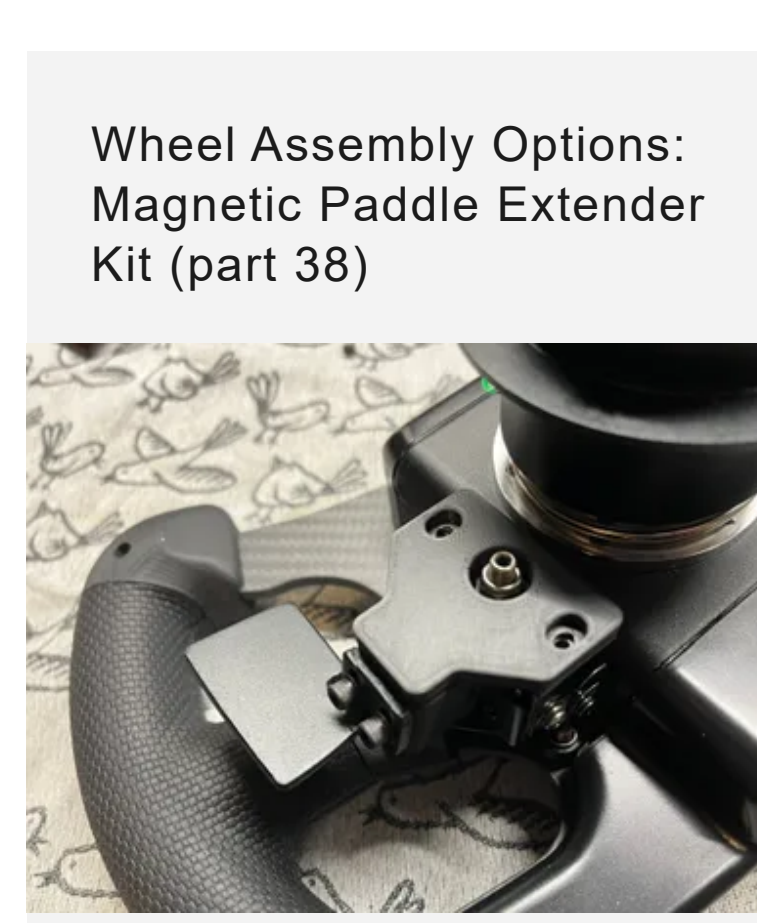
Qty 2: M4 x 16mm long Countersunk Screws. A 2mm A/F Hex Key is required.

Wheel Assembly: Attaching the Rubber Grips (part 25)



IMPORTANT! Ensure the 4 (M4 x 8mm long Socket Countersunk Head) Screws on each rubber grip assembly are loose before installation. This helps facilitate alignment and assembly to the wheel plate. A 2.5mm A/F Hex Key is required.

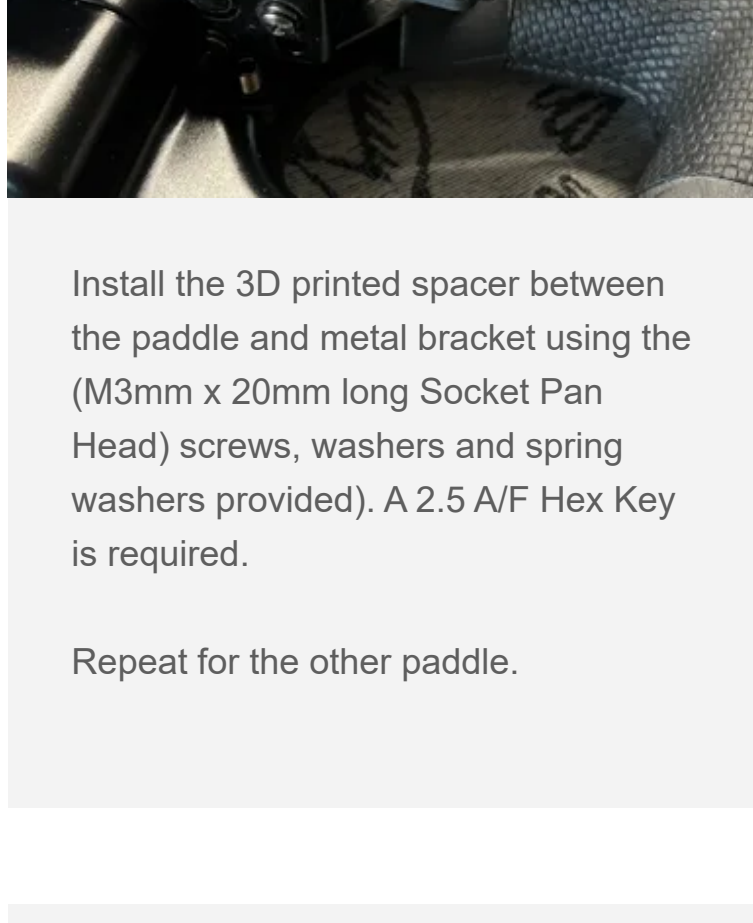
Wheel Assembly: Attaching the Rubber Grips (part 26)



Attach each rubber grip using 4 (M4 x 8mm long Socket Countersunk Head) Screws to the wheel plate.

Finally tighten all 16 screws. DO NOT overtighten, as they are screwing into aluminium threads.

Wheel Assembly: Attaching the Paddles (part 27)



For Standard Paddles: Depending on which option you have purchased:

For the Magnetic Paddle Extender Kit: go to parts 33 to 34.

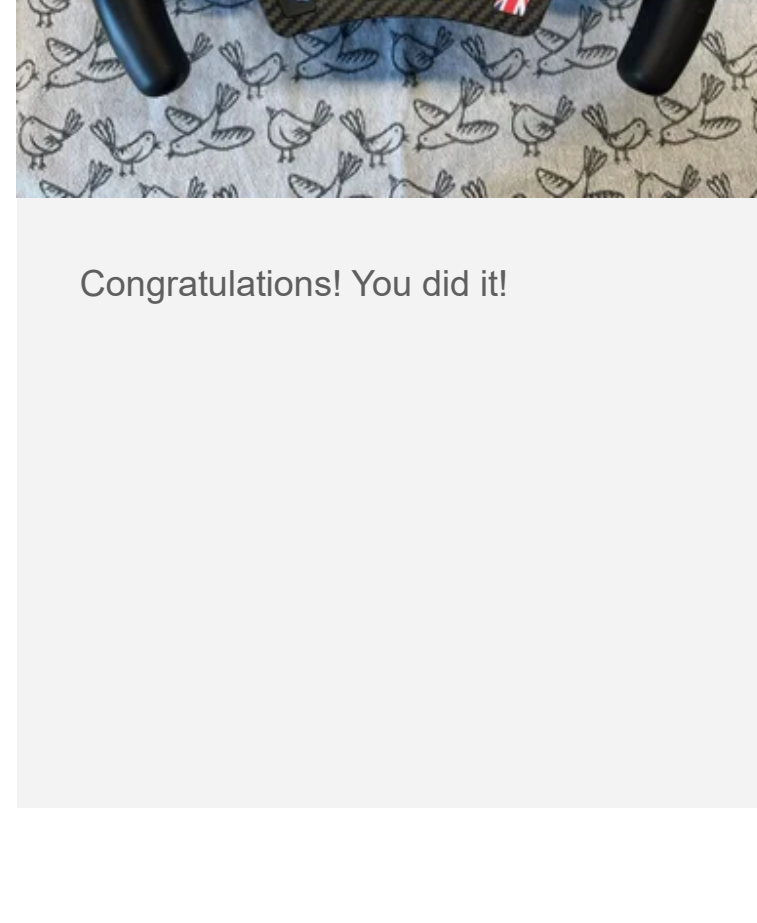
For the Standard Paddle Spacer Kit: go to part 35.

For MPM's or APM's:

Re-attach each module in place with the 2 (M5 x 12mm long Socket Cap Head) Screws. A 4.0mm A/F Hex Key is required.

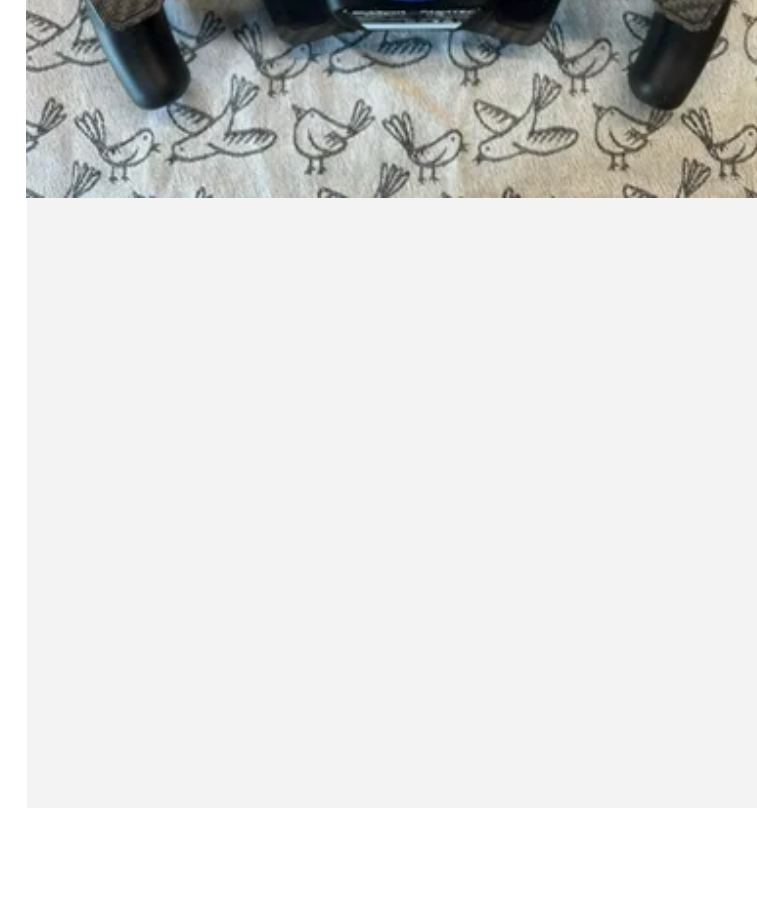
Again, it can be quite common for the screws to end up attached to the strong magnets, on the rear of the APM. Do not worry, just use tweezers to recover them :-)

Wheel Assembly: Attaching the Paddle Wiring (part 28)



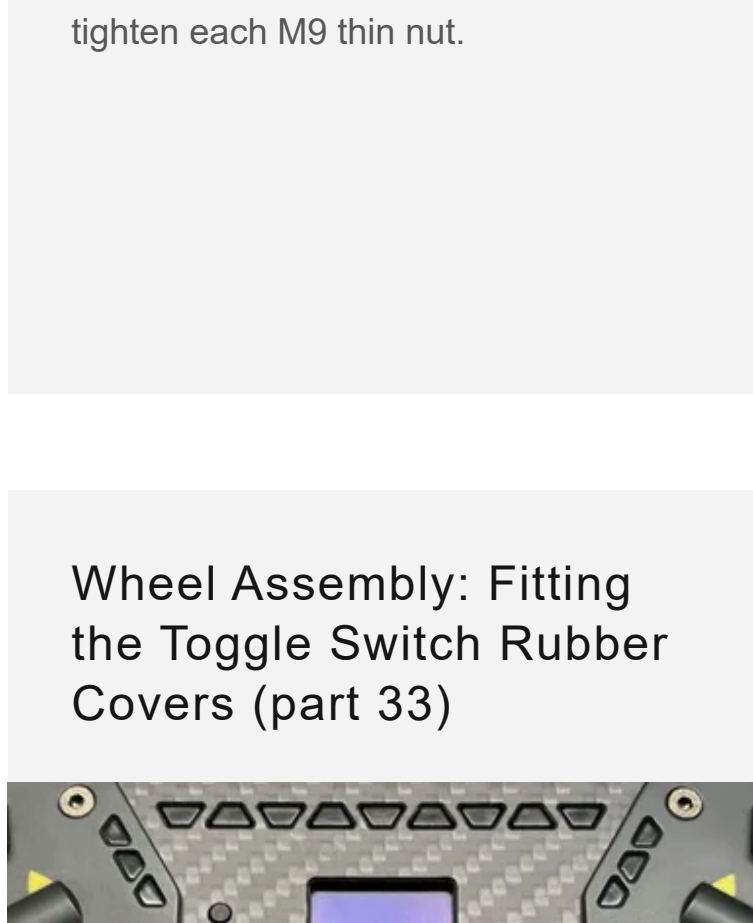
Re-connect the left and right shifter wiring to the PCB.

Wheel Assembly: Attaching the Bottom Rear Shroud (part 29)



Attach the bottom rear shroud with 2 (3mm dia. x 15mm long Countersunk) Screws for plastic. A 2.5mm A/F Hex Key is required.

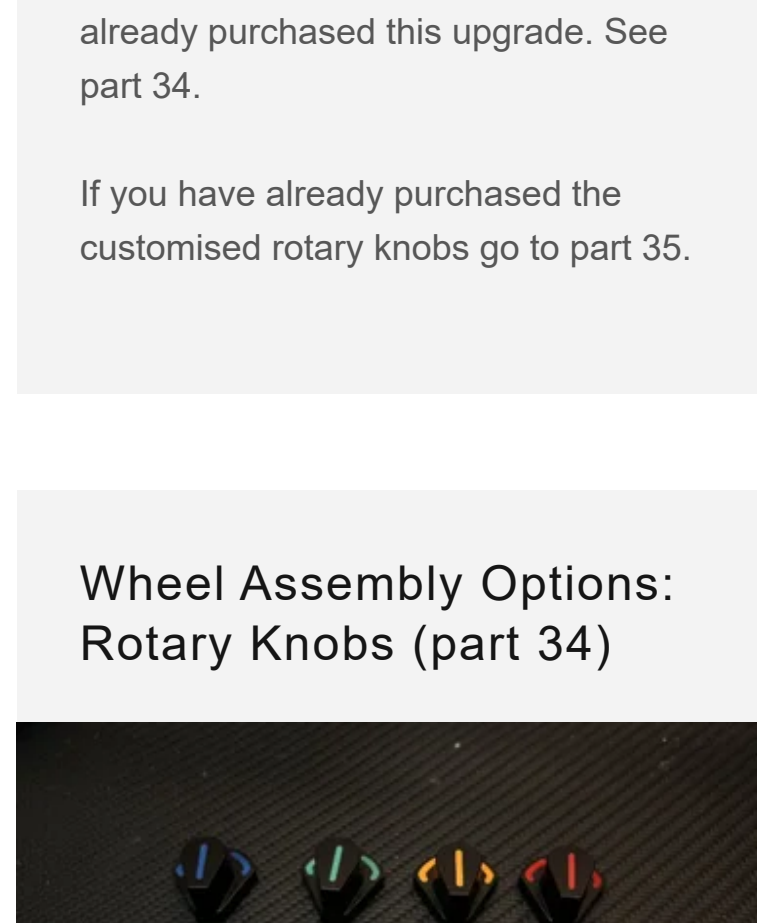
Wheel Assembly: Fitting the Rotary Knob Fasteners (part 30)



Fit the plastic washer, serrated washer and M9 thin nut onto each of the three rotary knob shafts.

Using long nosed pliers, carefully tighten each M9 thin nut.

Wheel Assembly: Fitting the Rotary Knobs (part 31)

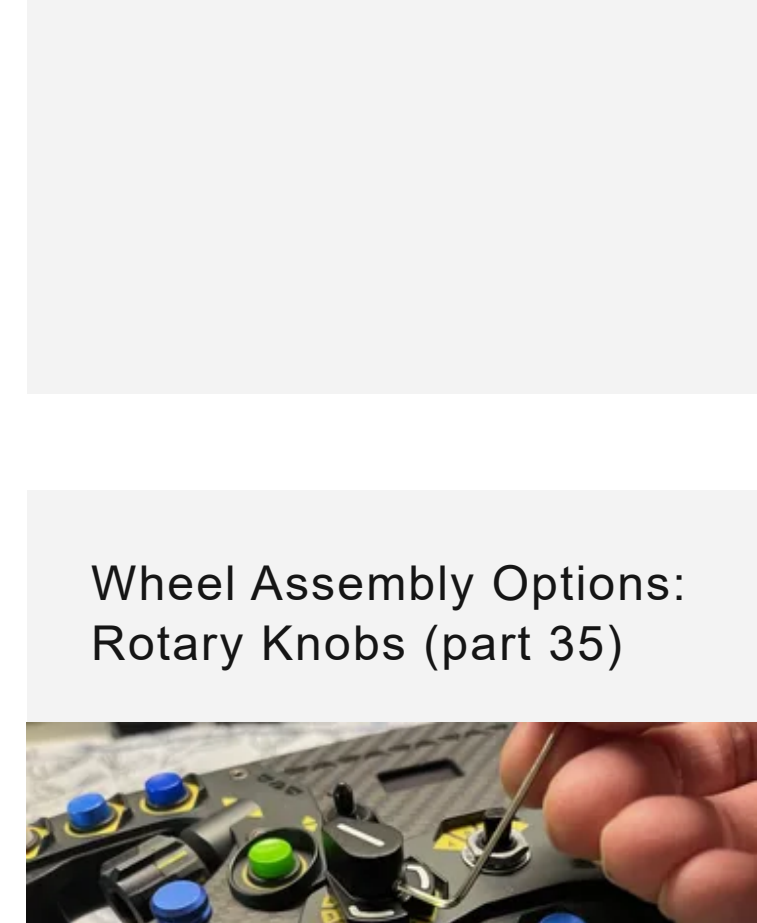


Press fit the three rotary knobs onto their respective shafts.

Note: We also sell custom coloured aluminium Rotary Knobs if you haven't already purchased this upgrade. See part 34.

If you have already purchased the customised rotary knobs go to part 35.

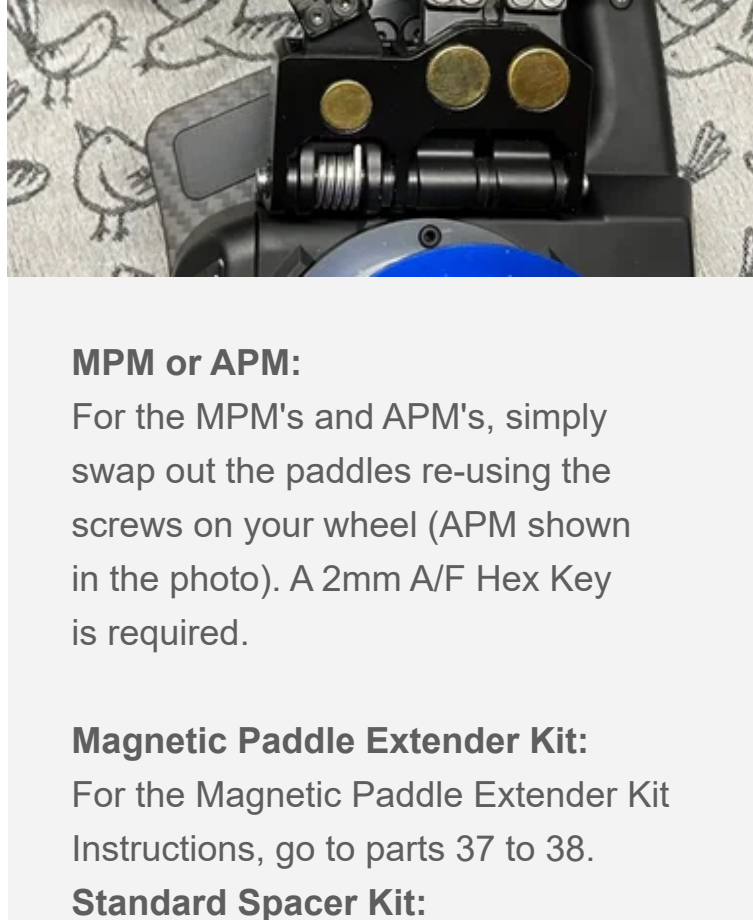
Wheel Assembly: Fitting the Toggle Switch Fasteners (part 32)



Fit the serrated washer and M6 thin nut and tighten using long nosed pliers.

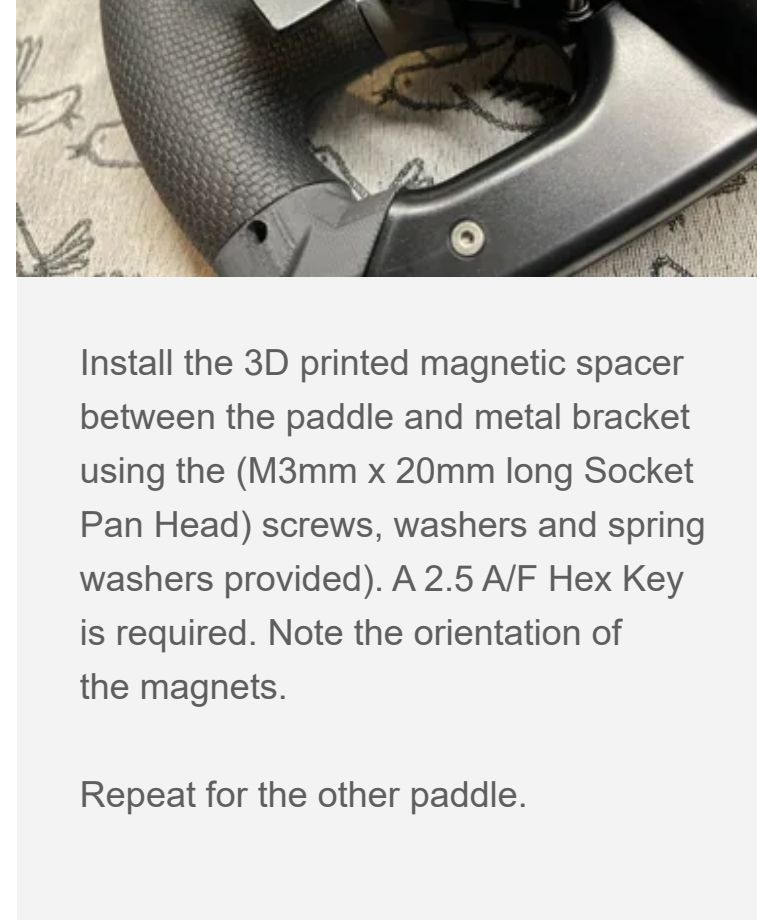
Repeat for the other toggle switch.

Wheel Assembly: Fitting the Toggle Switch Rubber Covers (part 33)



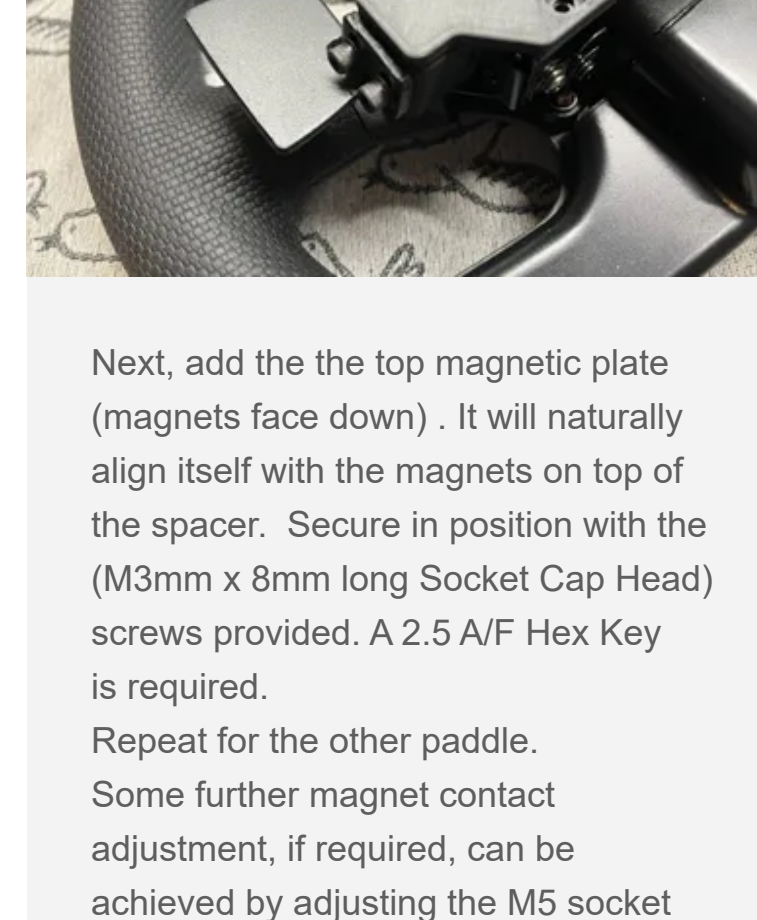
Fit the two black rubber covers over the toggle switches, as shown.

Wheel Assembly Options: Rotary Knobs (part 34)



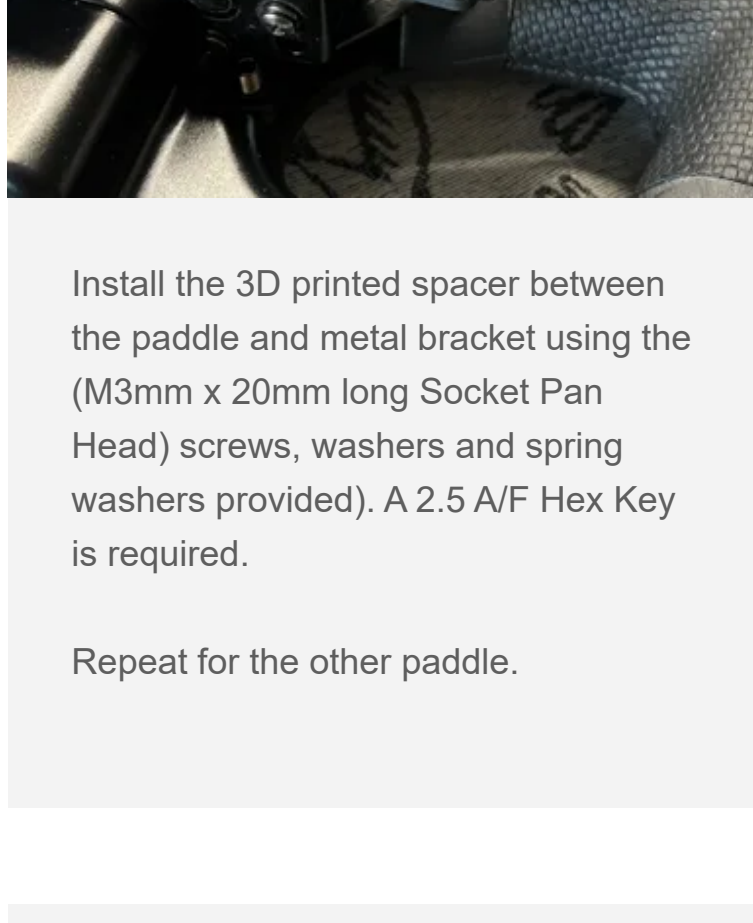
Our custom coloured aluminium Rotary Knobs are easy to fit. If you didn't order as part of your wider wheel kit, do not worry. These are available to buy in our online store. Default colour is white or for little extra you can have them customised in one of 9 other colours.

Wheel Assembly Options: Rotary Knobs (part 35)



The hex key (1.5mm A/F) and M3 socket grub screws (5mm long and 8mm long) are provided with the rotary knobs. Just make sure you do not overtighten them on the shafts as they are plastic, not metal shafts. Ensure you screw onto the flat section of the shafts.

Wheel Assembly Options: MPM or APM Extended Paddle Kit (part 36)

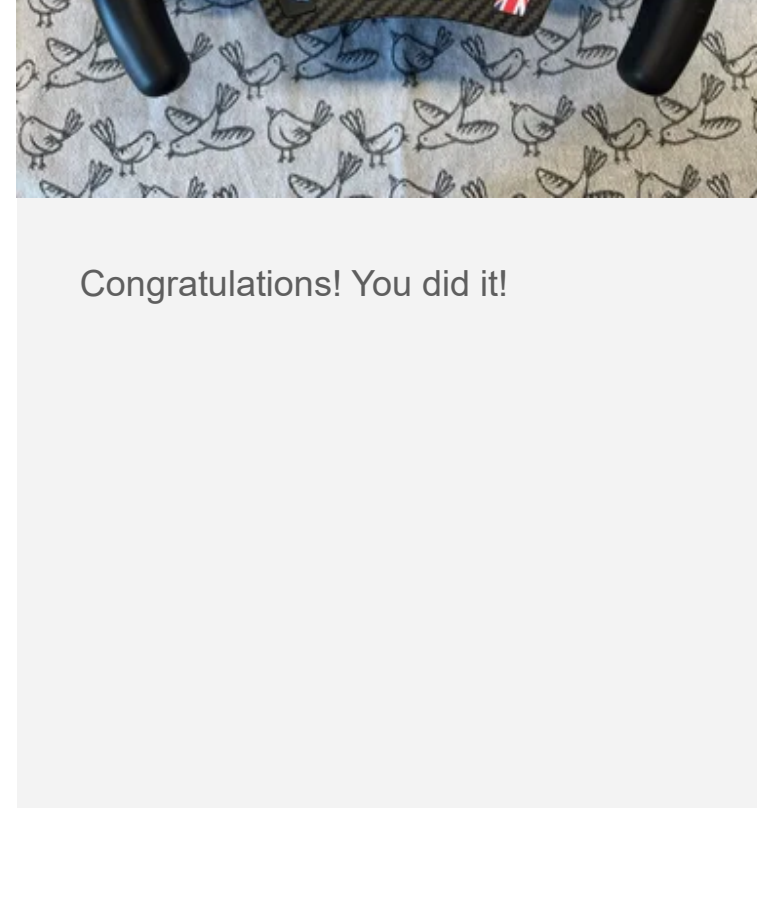


MPM or APM: For the MPM's and APM's, simply swap out the paddles re-using the screws on your wheel (APM shown in the photo). A 2mm A/F Hex Key is required.

Magnetic Paddle Extender Kit: For the Magnetic Paddle Extender Kit Instructions, go to parts 37 to 38.

Standard Spacer Kit: For Standard Paddle Spacer Kit go to part 39.

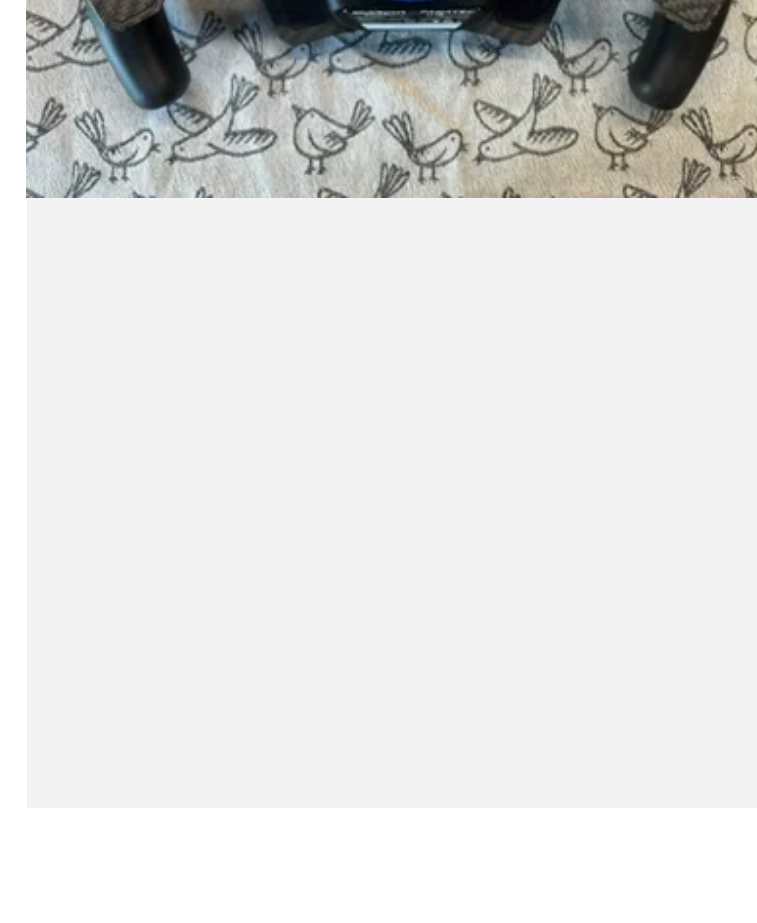
Wheel Assembly Options: Magnetic Paddle Extender Kit (part 37)



Install the 3D printed magnetic spacer between the paddle and metal bracket using the (M3mm x 20mm long Socket Pan Head) screws, washers and spring washers provided). A 2.5 A/F Hex Key is required. Note the orientation of the magnets.

Repeat for the other paddle.

Wheel Assembly Options: Magnetic Paddle Extender Kit (part 38)



Next, add the top magnetic plate (magnets face down). It will naturally align itself with the magnets on top of the spacer. Secure in position with the (M3mm x 8mm long Socket Cap Head) screws provided. A 2.5 A/F Hex Key is required.

Repeat for the other paddle. Some further magnet contact adjustment, if required, can be achieved by adjusting the M5 socket grub screw (that sits between the two screws you just assembled). By changing its length protruding from the nut it can increase or decrease the paddle angle, which in turn changes the angle of the magnets on top of the spacer.

Wheel Assembly Options: Standard Paddle Spacer Kit (part 39)

Install the 3D printed spacer between the paddle and metal bracket using the (M3mm x 20mm long Socket Pan Head) screws, washers and spring washers provided). A 2.5 A/F Hex Key is required.

Repeat for the other paddle.

The Finished Wheel. The Front...

Congratulations! You did it!

The Finished Wheel. The Rear...

Time to admire your work....

Go make yourself a nice cup of tea, sit back and admire your upgrading and re-building skills :-)