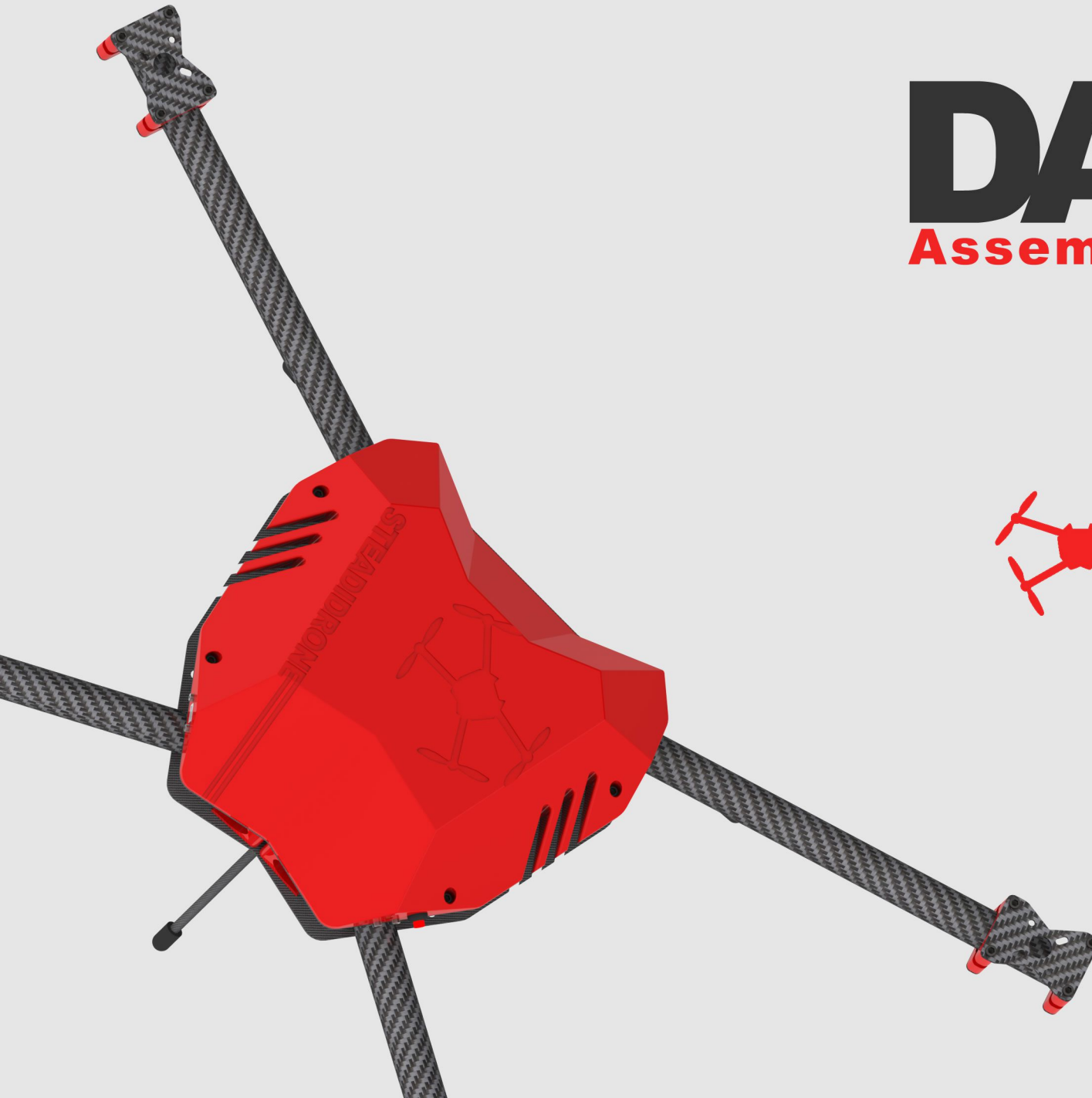
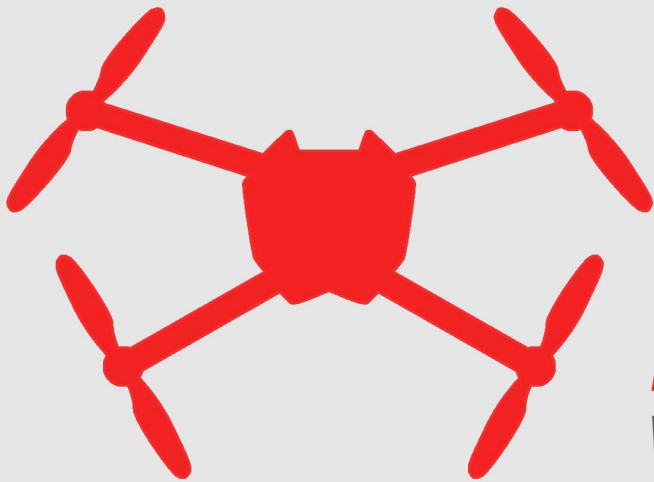


DASH

Assembly Manual

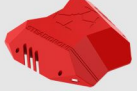



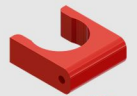













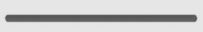




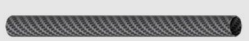




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3	Bill of materials
4	Assembling the motor mounts
6	Assembling the airframe
10	Assembling the landing gear
11	Adding the flight controller and dome
14	Mounting the battery
15	Completed

BILL OF MATERIALS

1		Dome - ABS	2		Battery foam pad
4		Inner mount - ABS	1		Velcro strap
6		Outer mount - ABS	3		Nylon spacer 25mm
16		Motor mount - ABS	8		Silicone O-ring
4		Tube end cap - ABS	14		M3 washer
3		Thumb screw - ALU	26		M3 nut
3		Landing gear mount - ALU	3		M3 6mm cap screw
2		Main plate - G10	4		M3 8mm cap screw
1		Dome GPS mount - G10	10		M3 35mm cap screw
3		Landing gear - Carbon	8		M3 40mm cap screw
4		Motor mount top - Carbon	8		M3 45mm cap screw
12		Motor mount spacer - Carbon			
4		Tube 20x250 - Carbon			

MOTOR MOUNT

Assemble the motor mount as shown on the left.

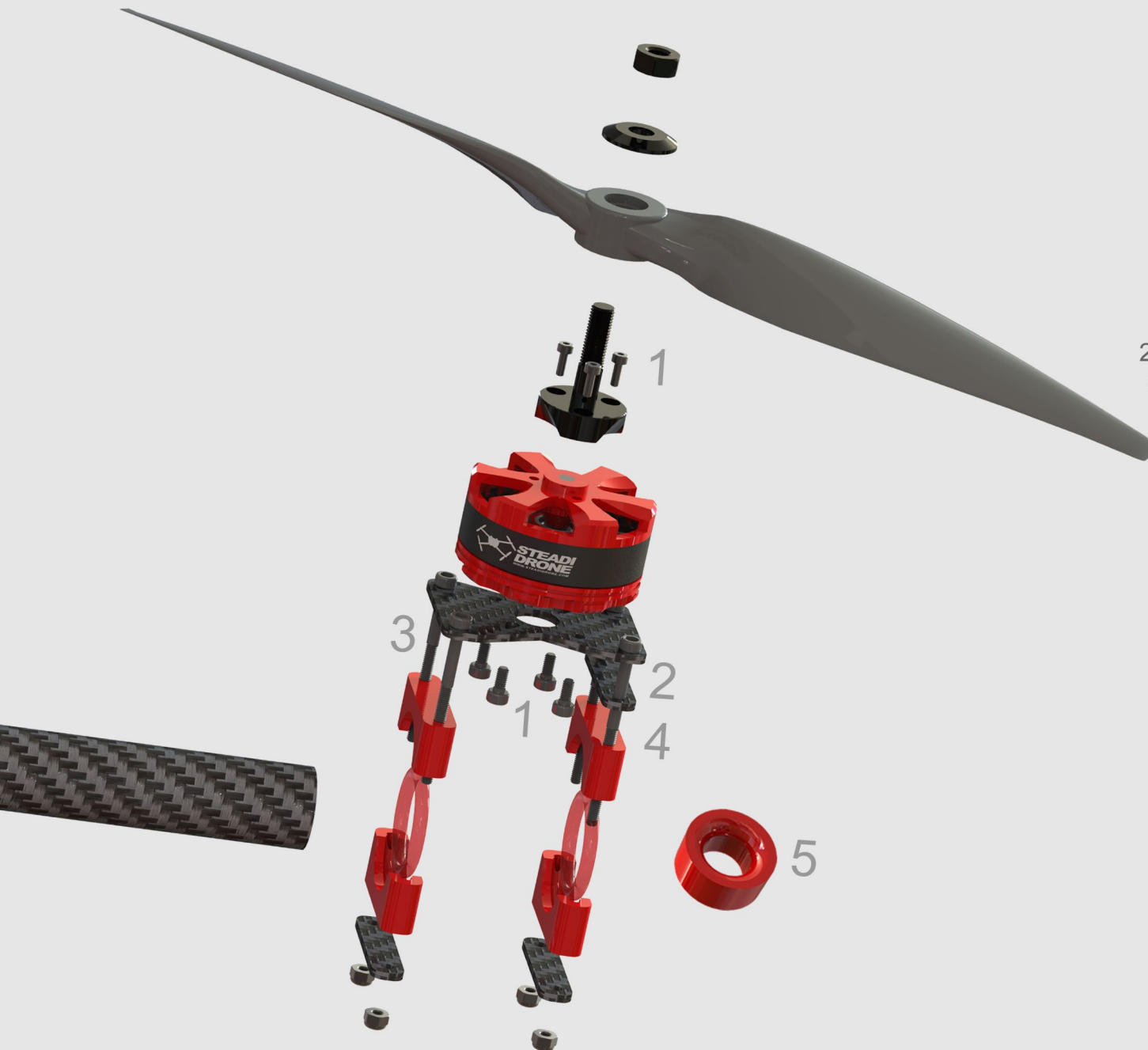
1. Use Loctite on the screws that hold the prop holder onto the motor and the screws that attach the motor to the motor mount.

2. Note that the extra carbon fiber spacer is on the outside of the motor mount at the end of the tube.

3. Use two 40mm cap screws on the inside.

4. Use two 45mm cap screws on the outside.

5. Fit the tube end cap to the end of the tube by tapping it into the tube before fitting the motor mount and threading the motor wire through.



MOTOR MOUNT

This is what the assembled motor mount will look like (prop not shown)

1. Note that the motor is tilted slightly inwards due to the spacer on the outside, this adds dihedral which makes the drone to be more stable in flight.

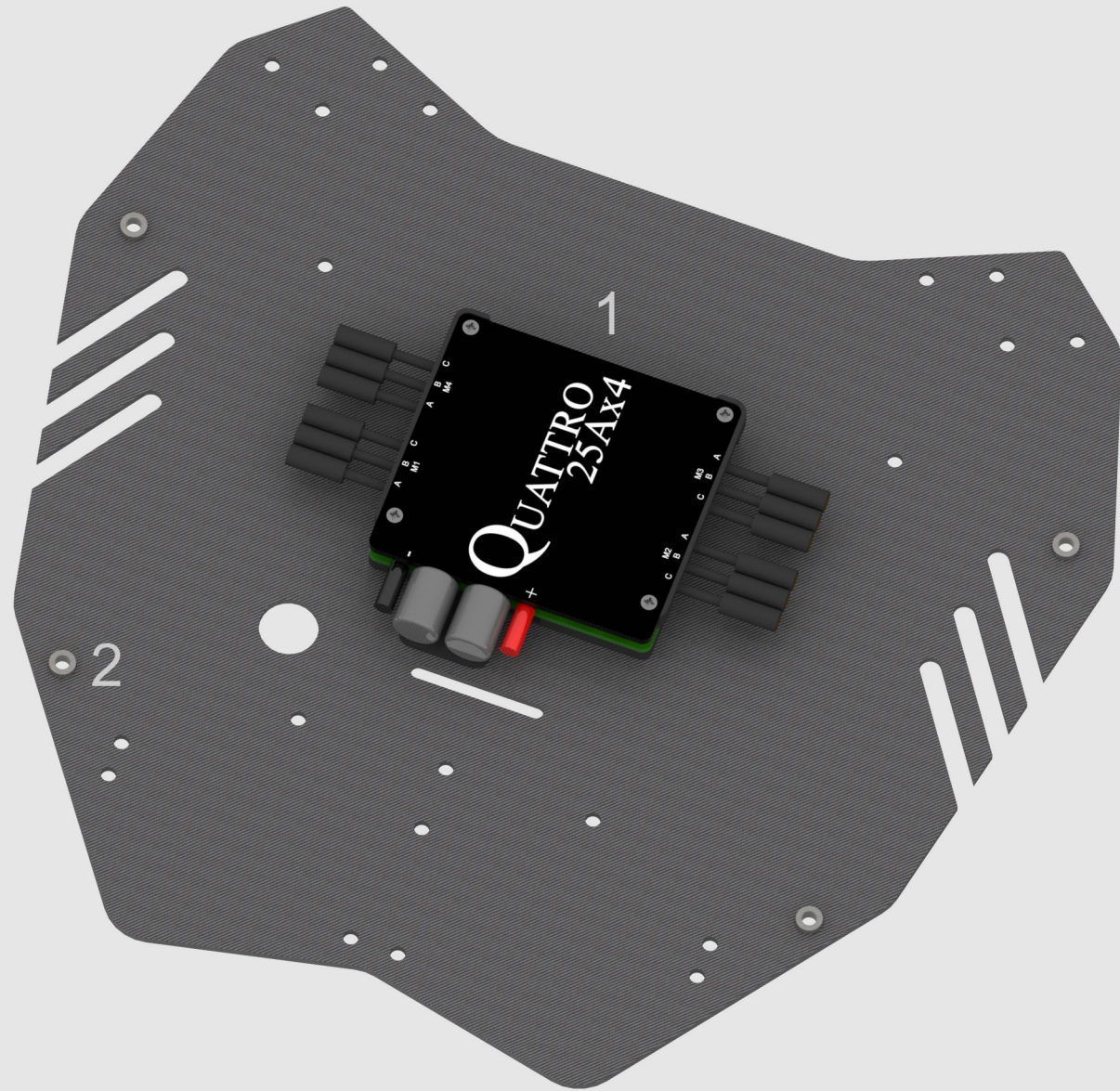
2. The motor wires should be covered in heat shrink to protect them against damage.

3. The gap between the motor mount ABS parts should be about 4mm, then you know that the motor mount is securely tightened around the tube.



1. Fix the ESC to the bottom of the top plate with double sided tape. If you are using four separate ESCs you can also fit them here.

2. The top main plate is the one with the embedded nuts.

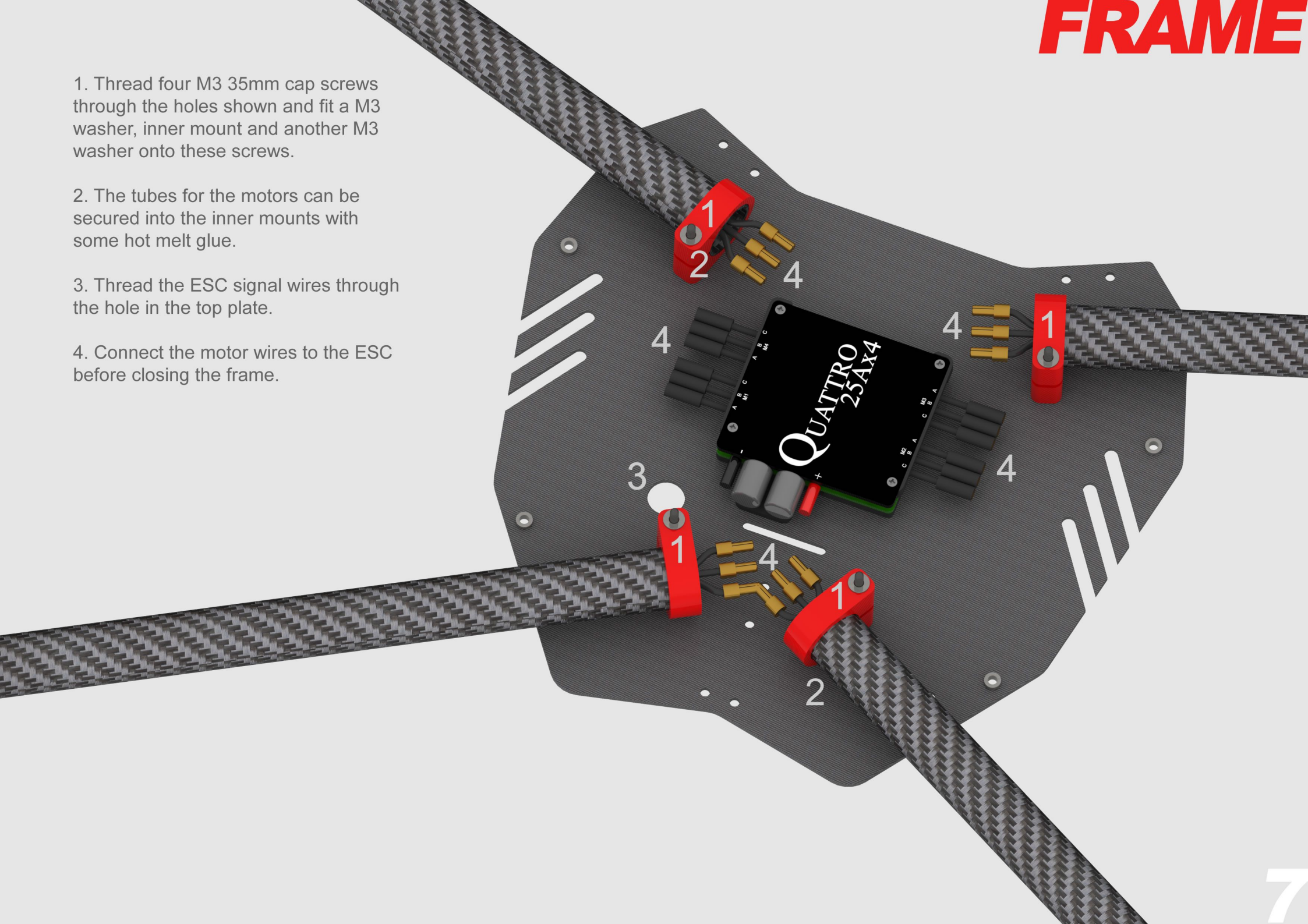


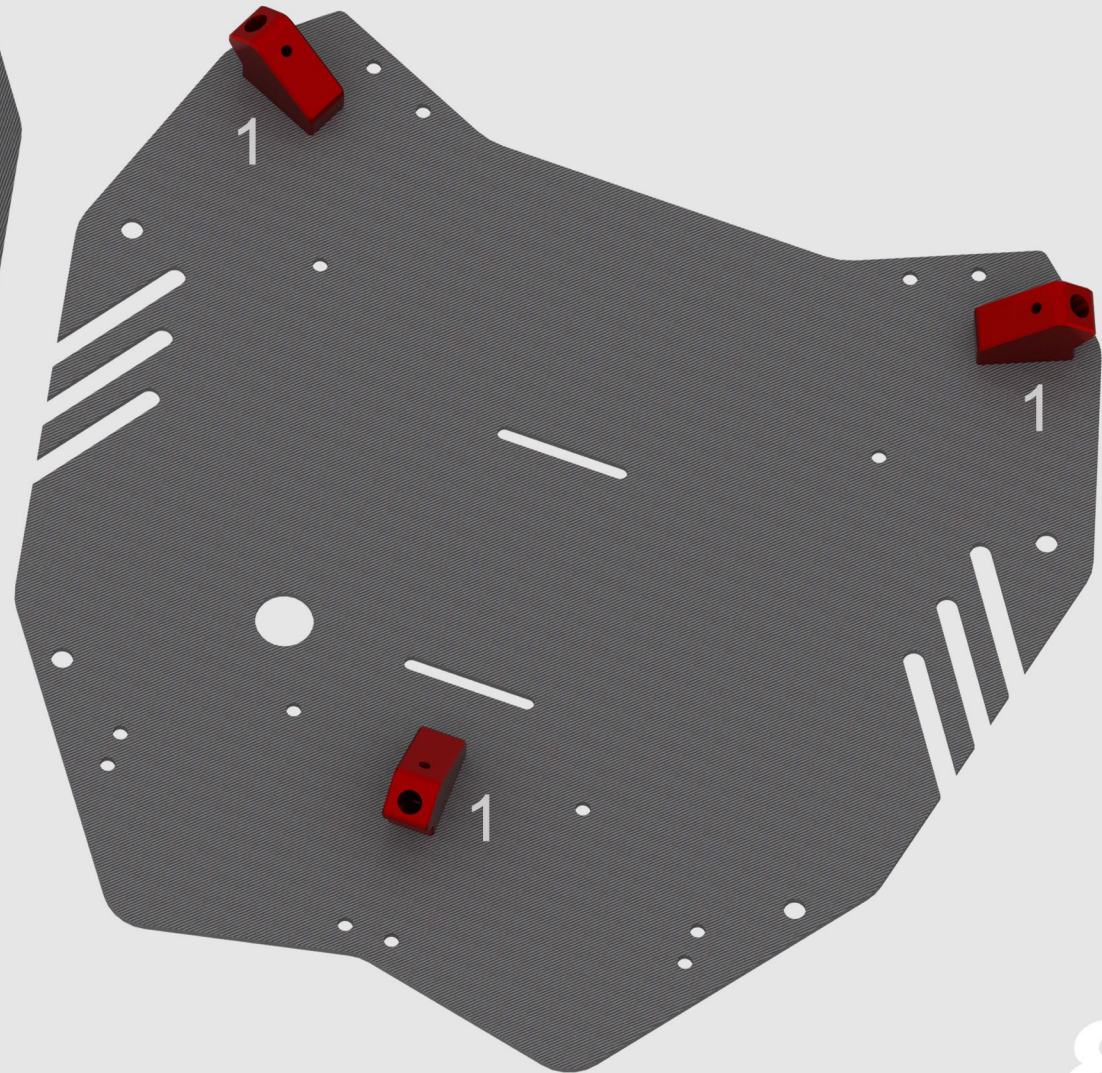
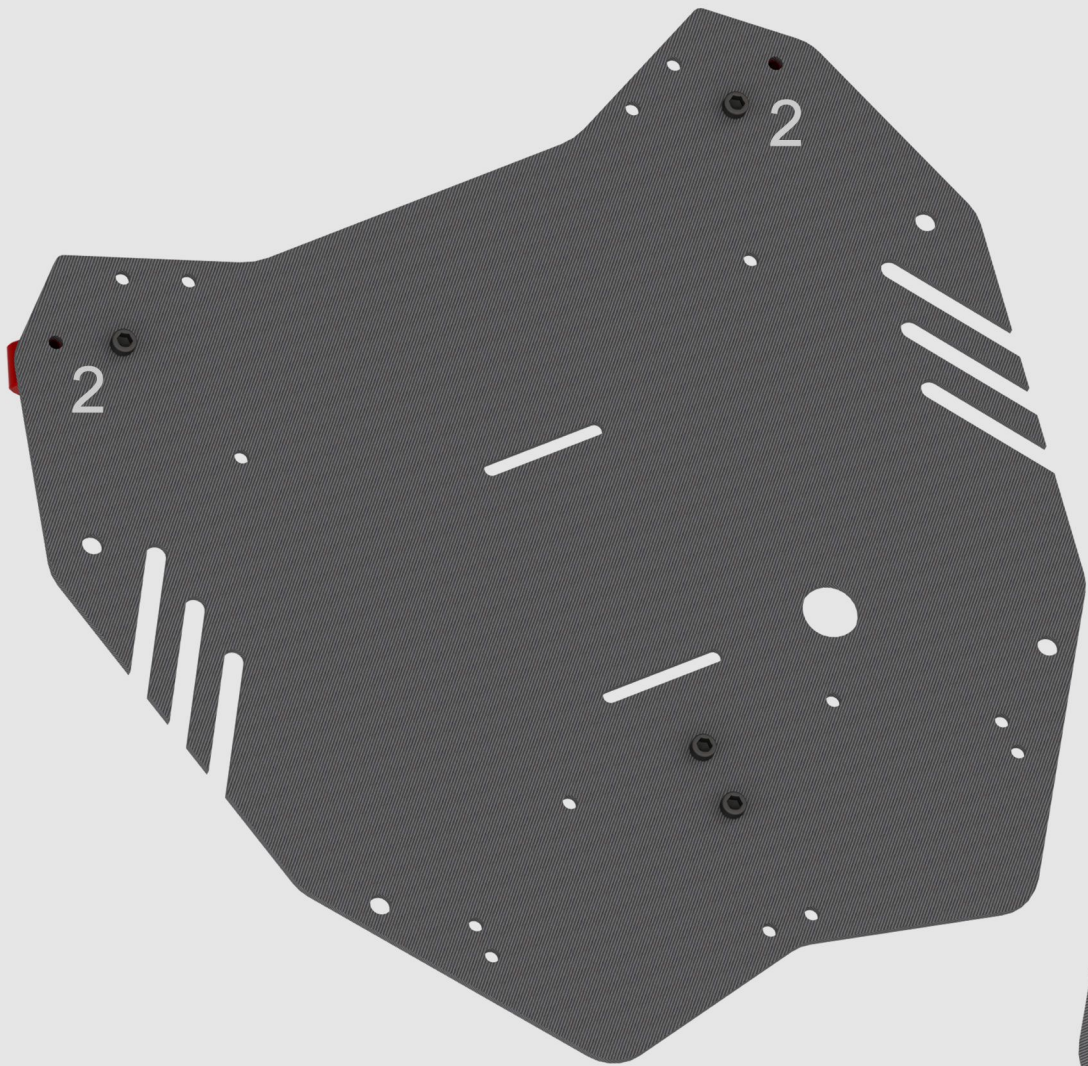
1. Thread four M3 35mm cap screws through the holes shown and fit a M3 washer, inner mount and another M3 washer onto these screws.

2. The tubes for the motors can be secured into the inner mounts with some hot melt glue.

3. Thread the ESC signal wires through the hole in the top plate.

4. Connect the motor wires to the ESC before closing the frame.





1. Attach the landing gear mounts to the bottom main plate using M3 6mm cap screws and some LOCTITE.

2. Note that the front two mounts are only fastened with one screw each, when the frame is assembled the screws holding the outer mounts in place will go into these holes.

1. Feed the Velcro strap through the grooves as shown. Also stick the battery foam pads here.

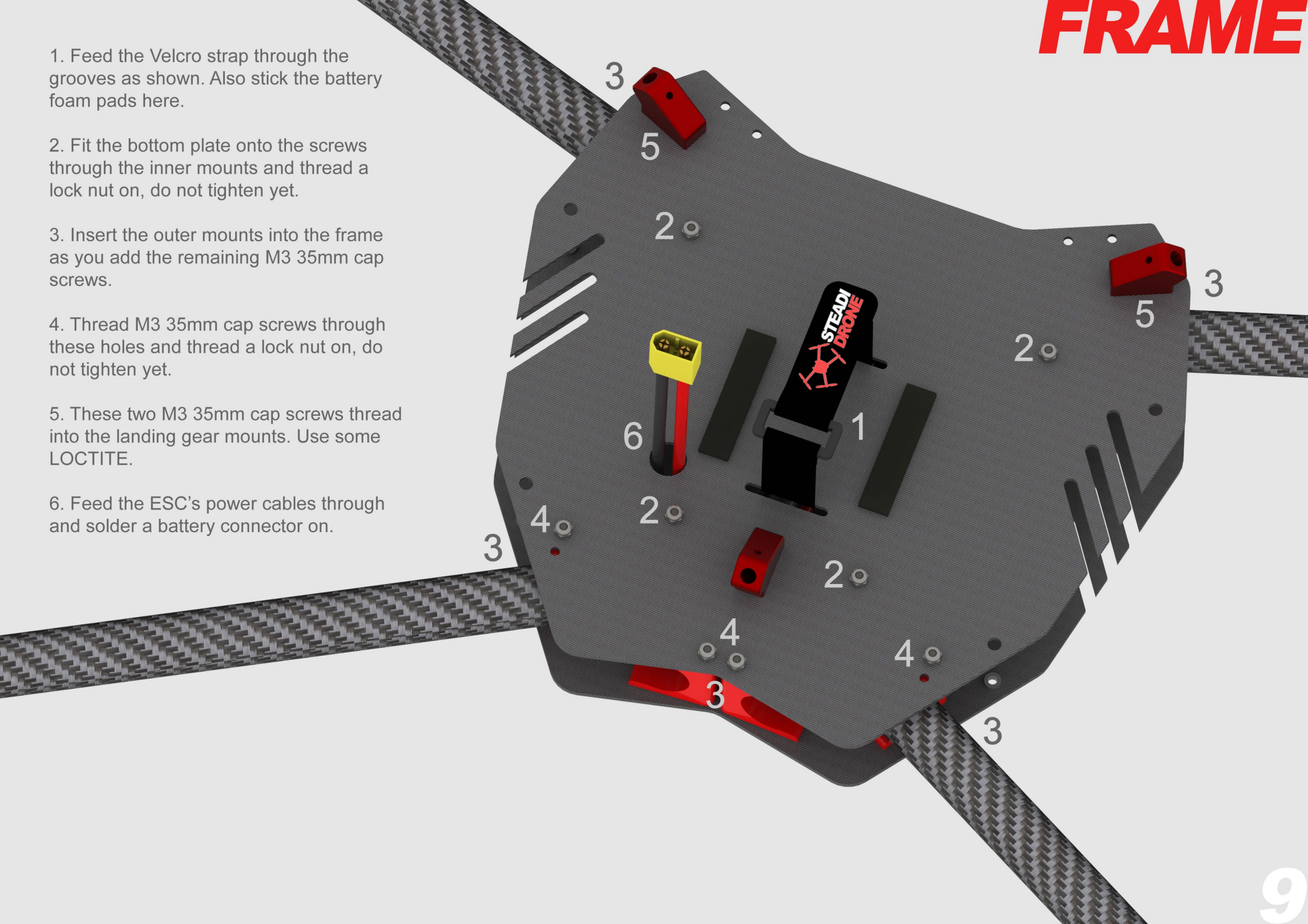
2. Fit the bottom plate onto the screws through the inner mounts and thread a lock nut on, do not tighten yet.

3. Insert the outer mounts into the frame as you add the remaining M3 35mm cap screws.

4. Thread M3 35mm cap screws through these holes and thread a lock nut on, do not tighten yet.

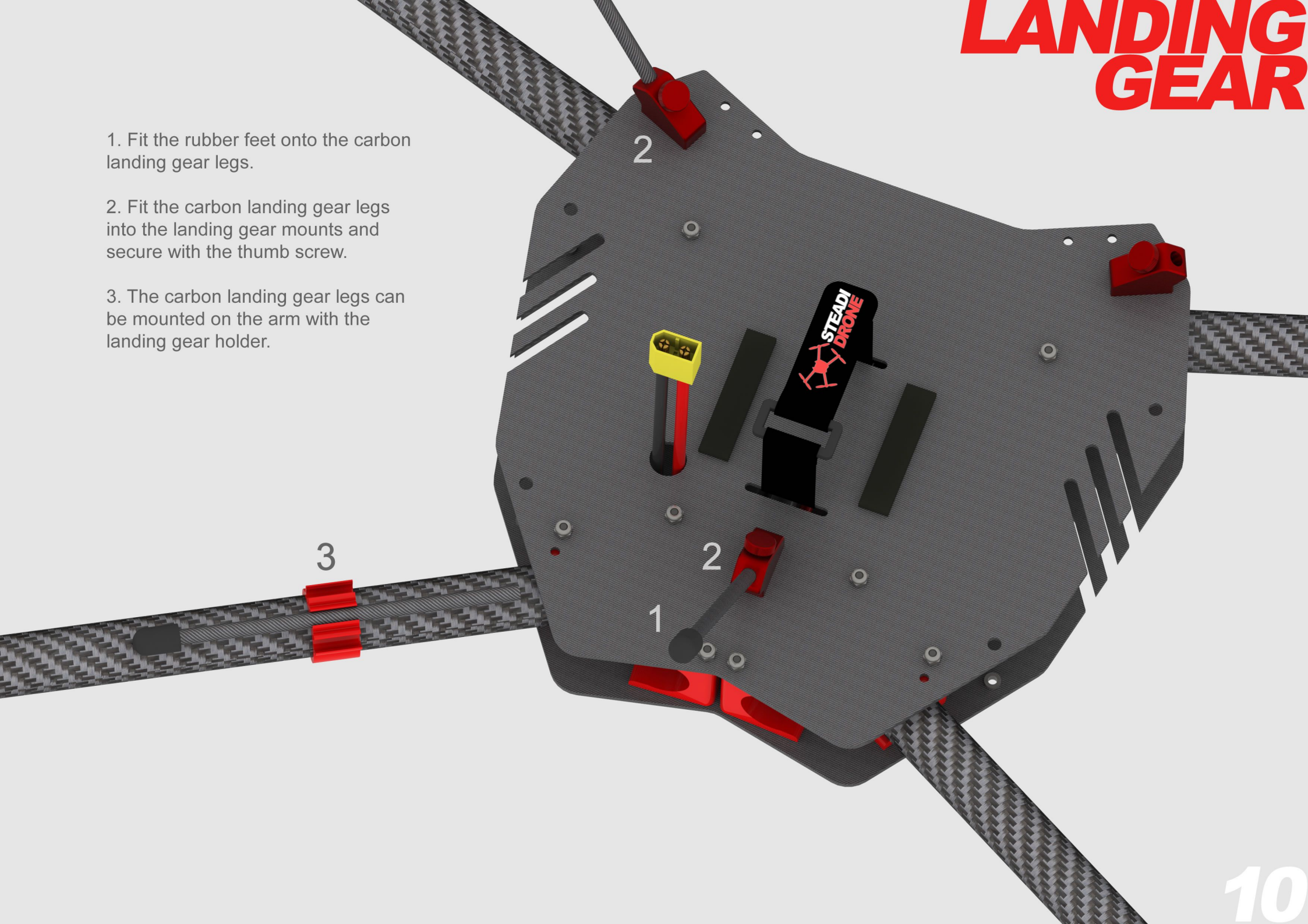
5. These two M3 35mm cap screws thread into the landing gear mounts. Use some LOCTITE.

6. Feed the ESC's power cables through and solder a battery connector on.



LANDING GEAR

1. Fit the rubber feet onto the carbon landing gear legs.
2. Fit the carbon landing gear legs into the landing gear mounts and secure with the thumb screw.
3. The carbon landing gear legs can be mounted on the arm with the landing gear holder.

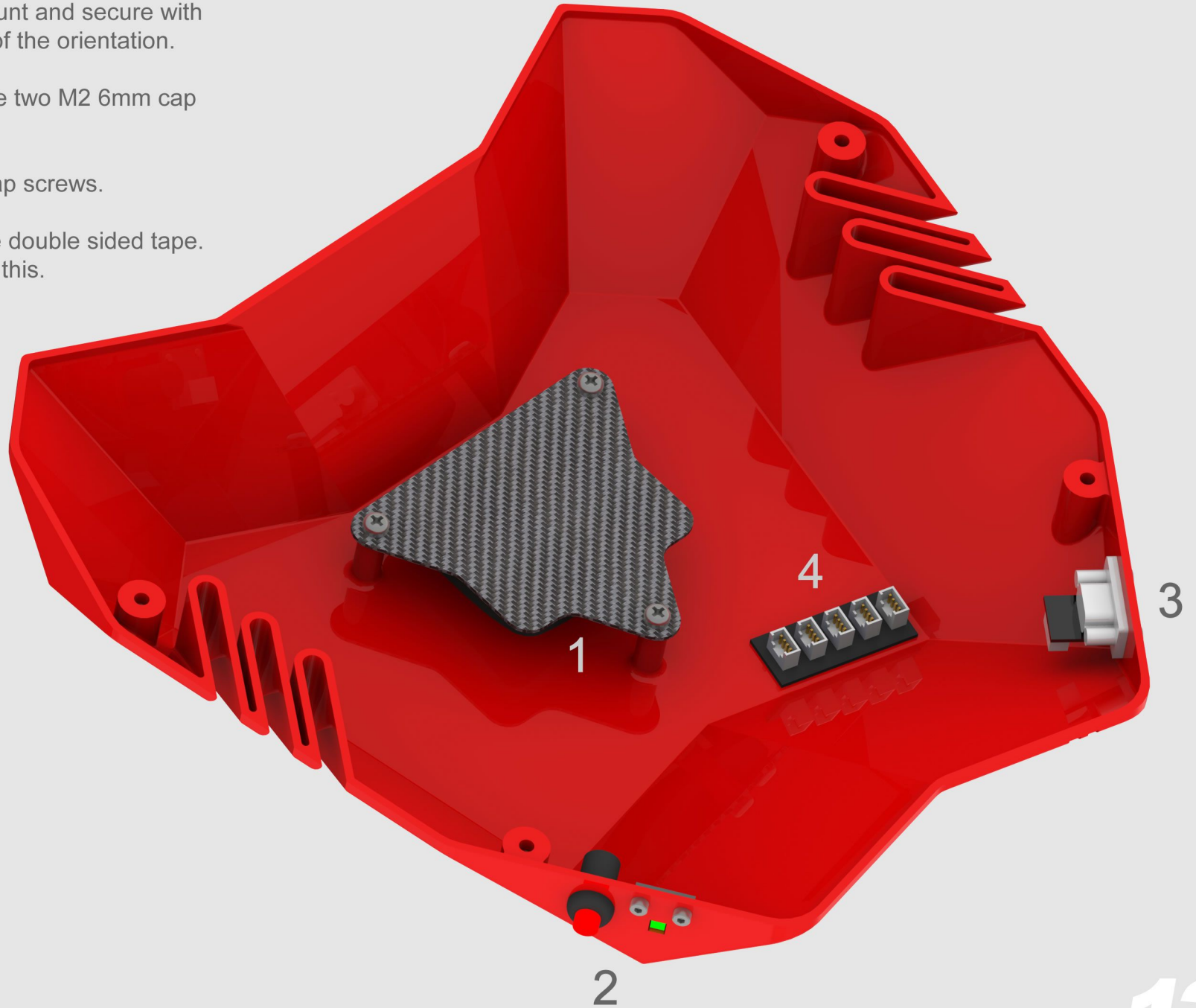


1. Fit your flight controller and receiver on the top plate. (Shown here with 3DR PIXHAWK, not included!)



The dome is assembled as illustrated below. (Shown here with 3DR PIXHAWK, not included!)

1. Fit the GPS to the dome GPS mount and secure with the self tapping screws. Make sure of the orientation.
2. Fit the safety button and LED. Use two M2 6mm cap screws and nuts to attach the LED.
3. Fit the USB using two M2 6mm cap screws.
4. Stick the I2C hub down with some double sided tape. The LED and compass will plug into this.

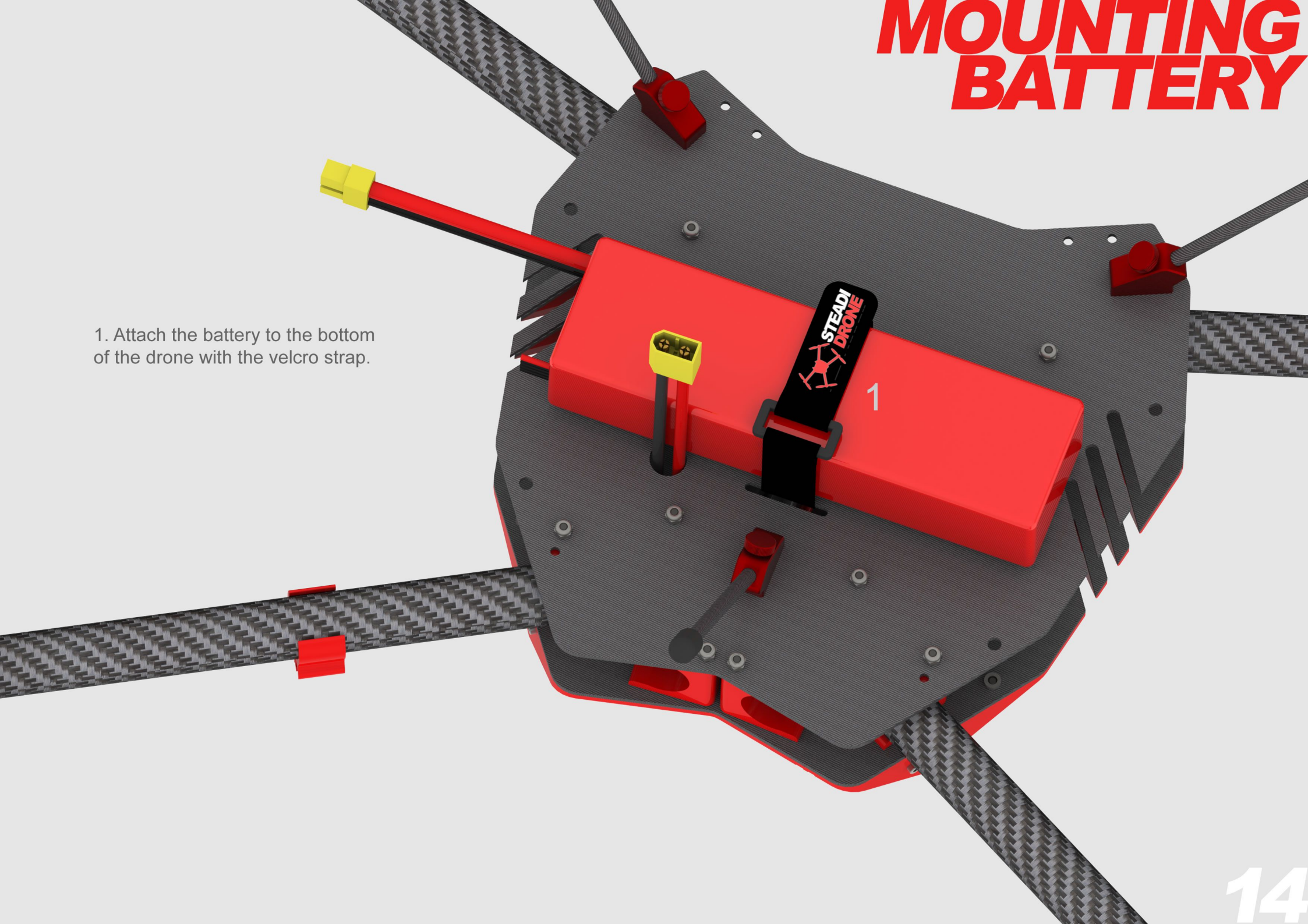


1. Plug the GPS and other cables into the flight controller and then secure the dome with M3 8mm cap screws.



MOUNTING BATTERY

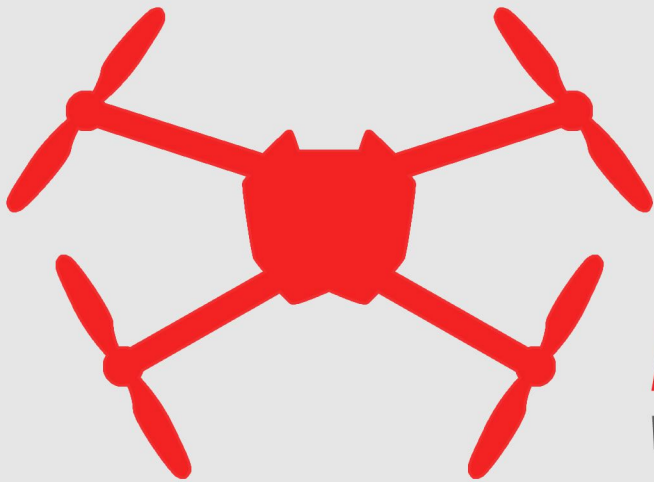
1. Attach the battery to the bottom of the drone with the velcro strap.



COMPLETE



The DASH is now completely assembled.
Remember to complete the setup of the ESC and
the flight controller before attempting to fly the unit.



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