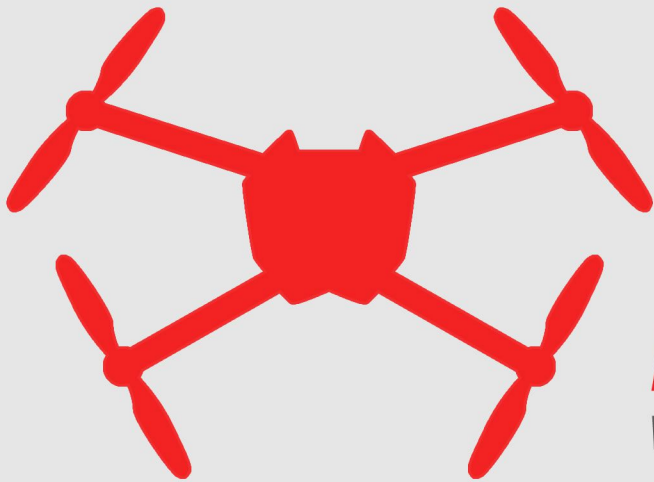


SIKS

Assembly Manual





















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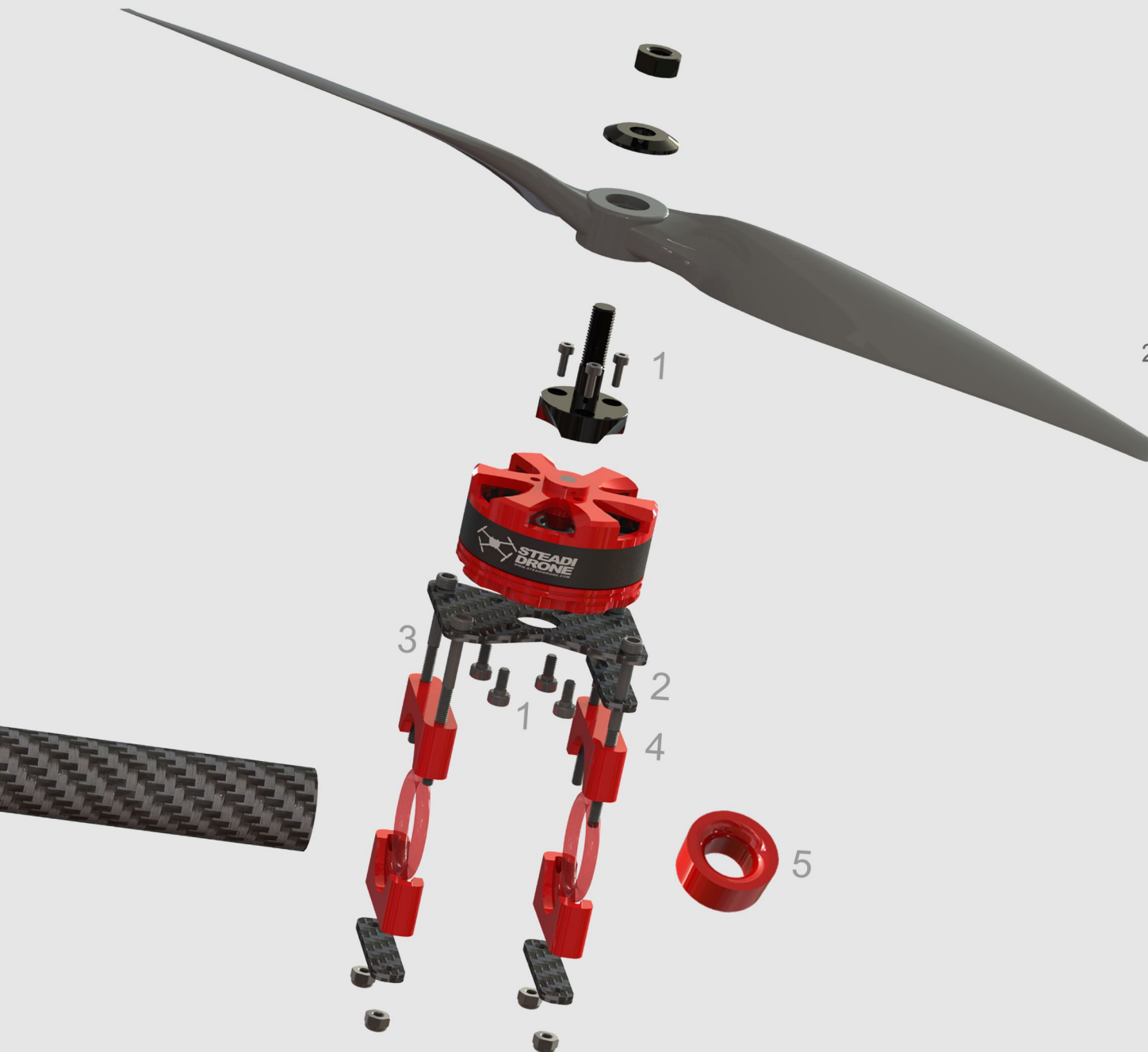
3	Bill of materials
4	Assembling the motor mounts
6	Assembling the airframe
9	Adding the ESC
11	Assembling the landing gear
12	Adding the flight controller and dome
13	Mounting the battery
14	Completed

BILL OF MATERIALS

8		Inner mount - ABS
4		Outer mount - ABS
24		Motor mount - ABS
6		Tube end cap - ABS
3		Thumb screw - ALU
3		Landing gear mount - ALU
1		Battery bay - Carbon
1		Main plate top - Carbon
1		Motor mount bottom - Carbon
1		ESC plate - Carbon
6		Motor mount top - Carbon
12		Motor mount spacer - Carbon
6		Tube 20x350 - Carbon

3		Rod 5x200 - Carbon
3		Rubber feet
1		Velcro strap
3		Nylon spacer 15mm
4		Nylon spacer 25mm
12		Silicone O-ring
16		M3 washer
36		M3 nut
20		M3 6mm cap screw
12		M3 35mm cap screw
12		M3 40mm cap screw
12		M3 45mm cap screw
2		Battery foam pad

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)

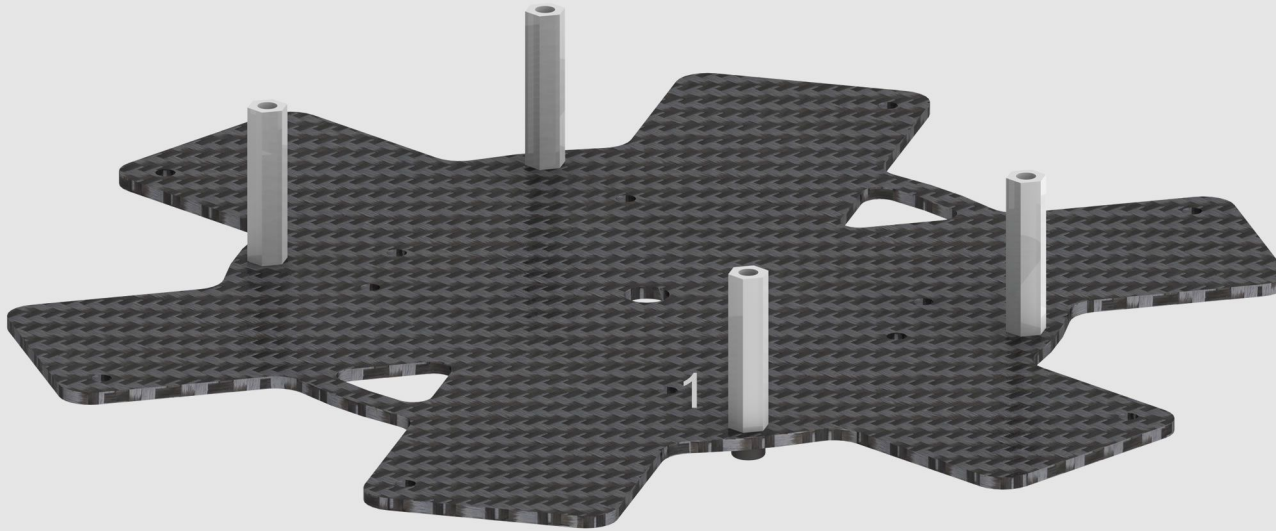
1. Note that the motor is tilted slightly inwards due to the spacer on the outside, this adds dihedral which makes the drone to be more stable in flight.

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.



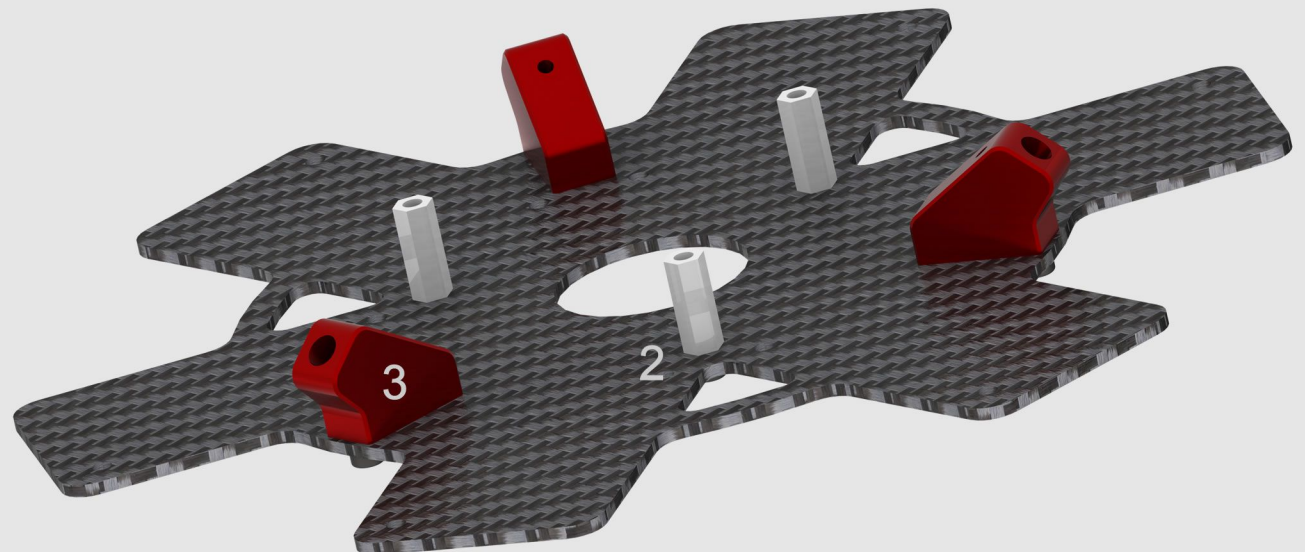
FRAME



1. Attach the 25mm spacers to the top of the top main plate with M3 6mm cap screws.

2. Attach the 15mm nylon to the bottom of the bottom main plate with M3 6mm cap screws.

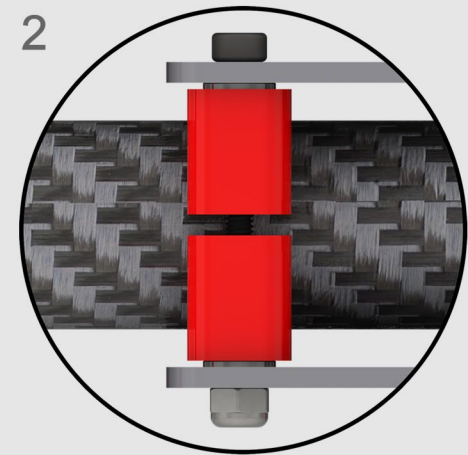
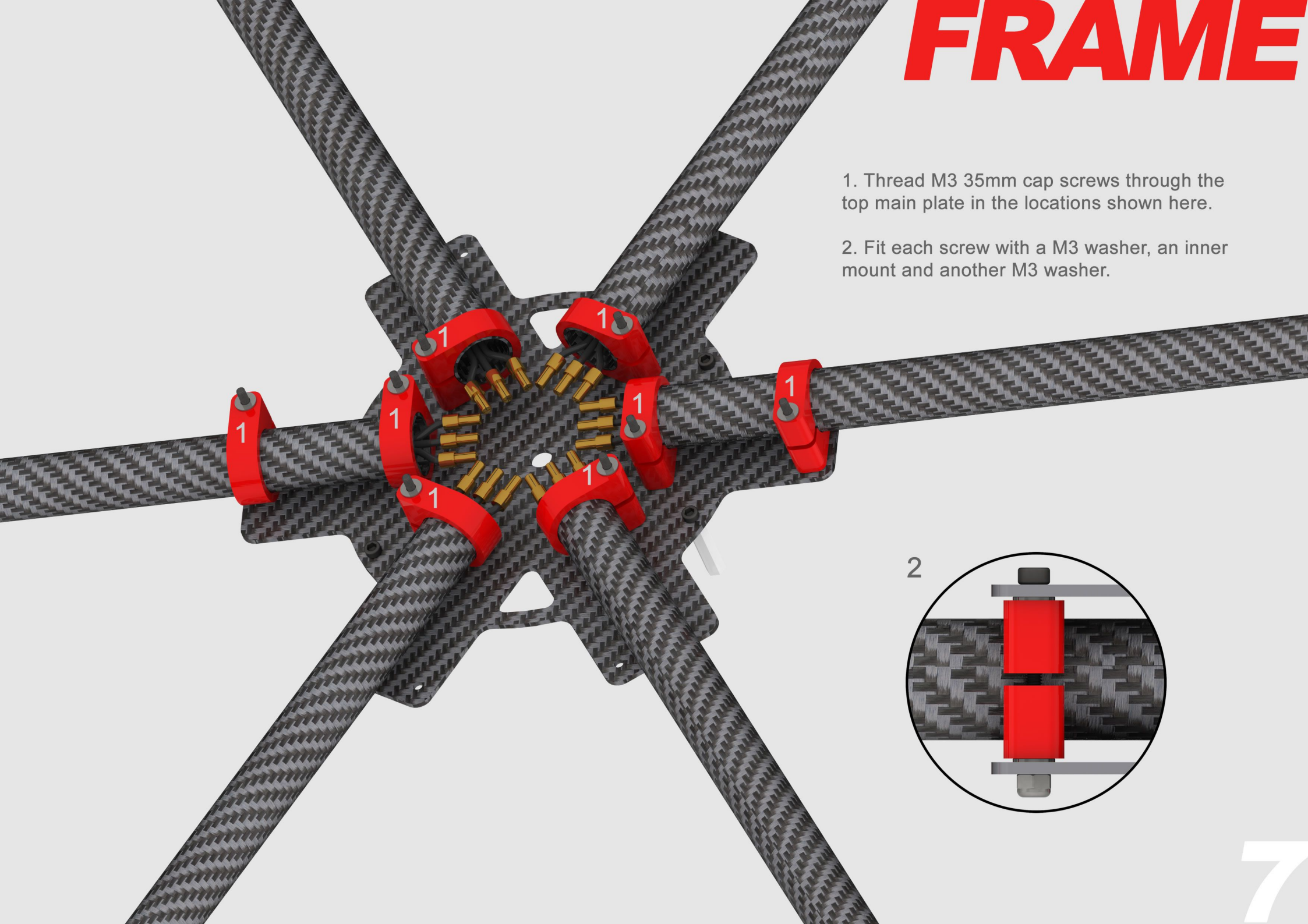
3. Attach the landing gear mounts to the bottom of the bottom main plate. Use some Loctite to secure them.



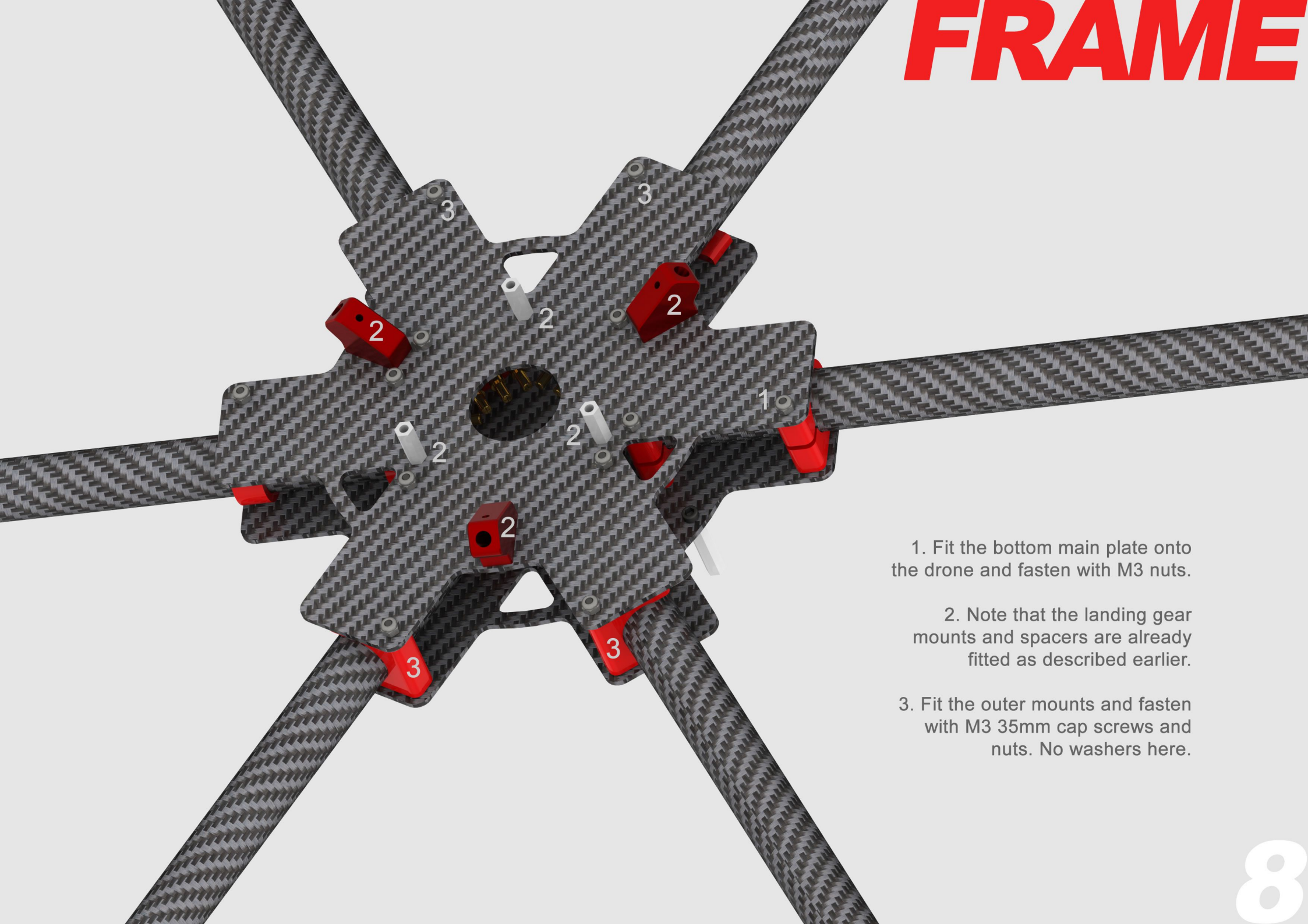
FRAME

1. Thread M3 35mm cap screws through the top main plate in the locations shown here.

2. Fit each screw with a M3 washer, an inner mount and another M3 washer.



FRAME

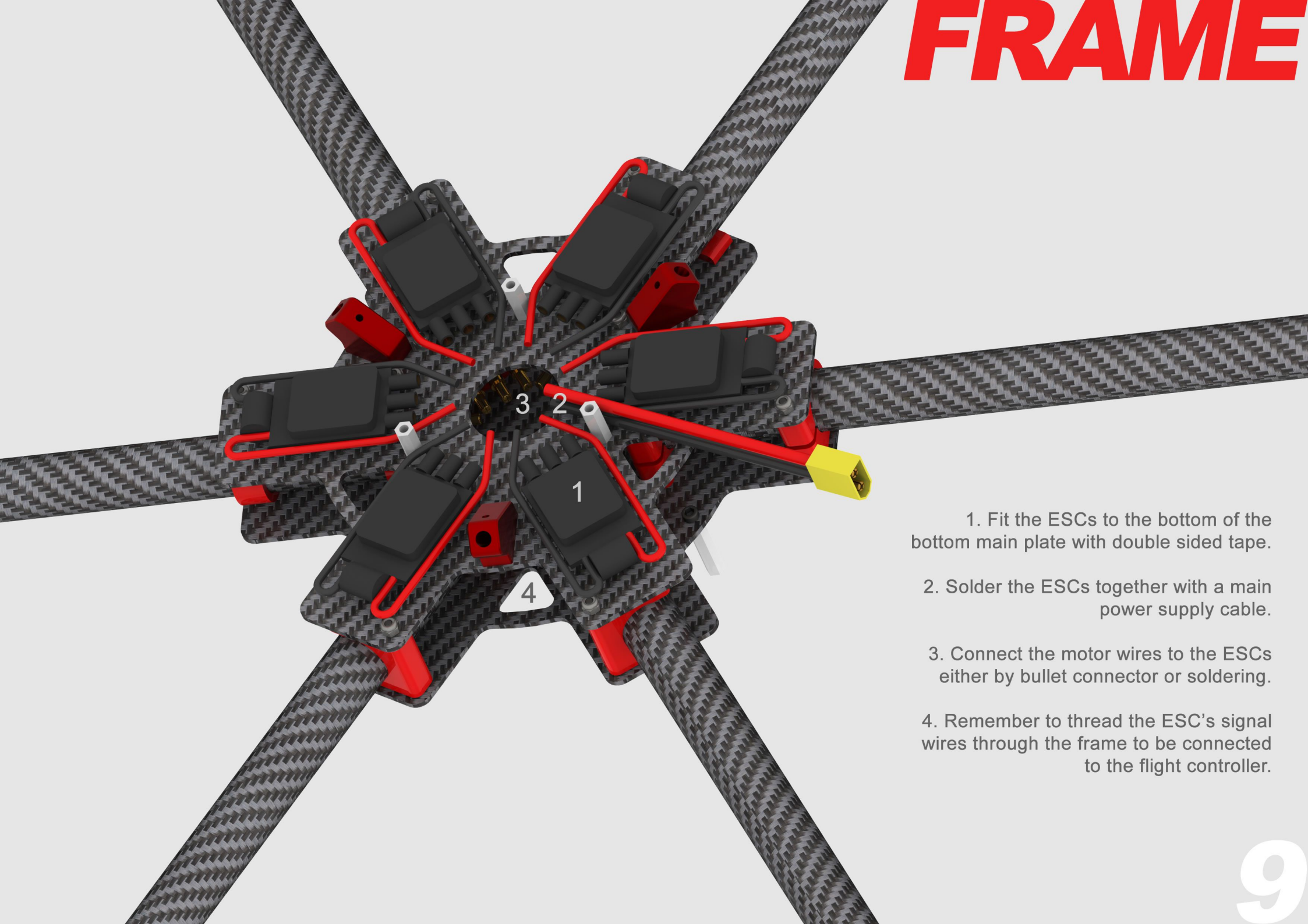


1. Fit the bottom main plate onto the drone and fasten with M3 nuts.

2. Note that the landing gear mounts and spacers are already fitted as described earlier.

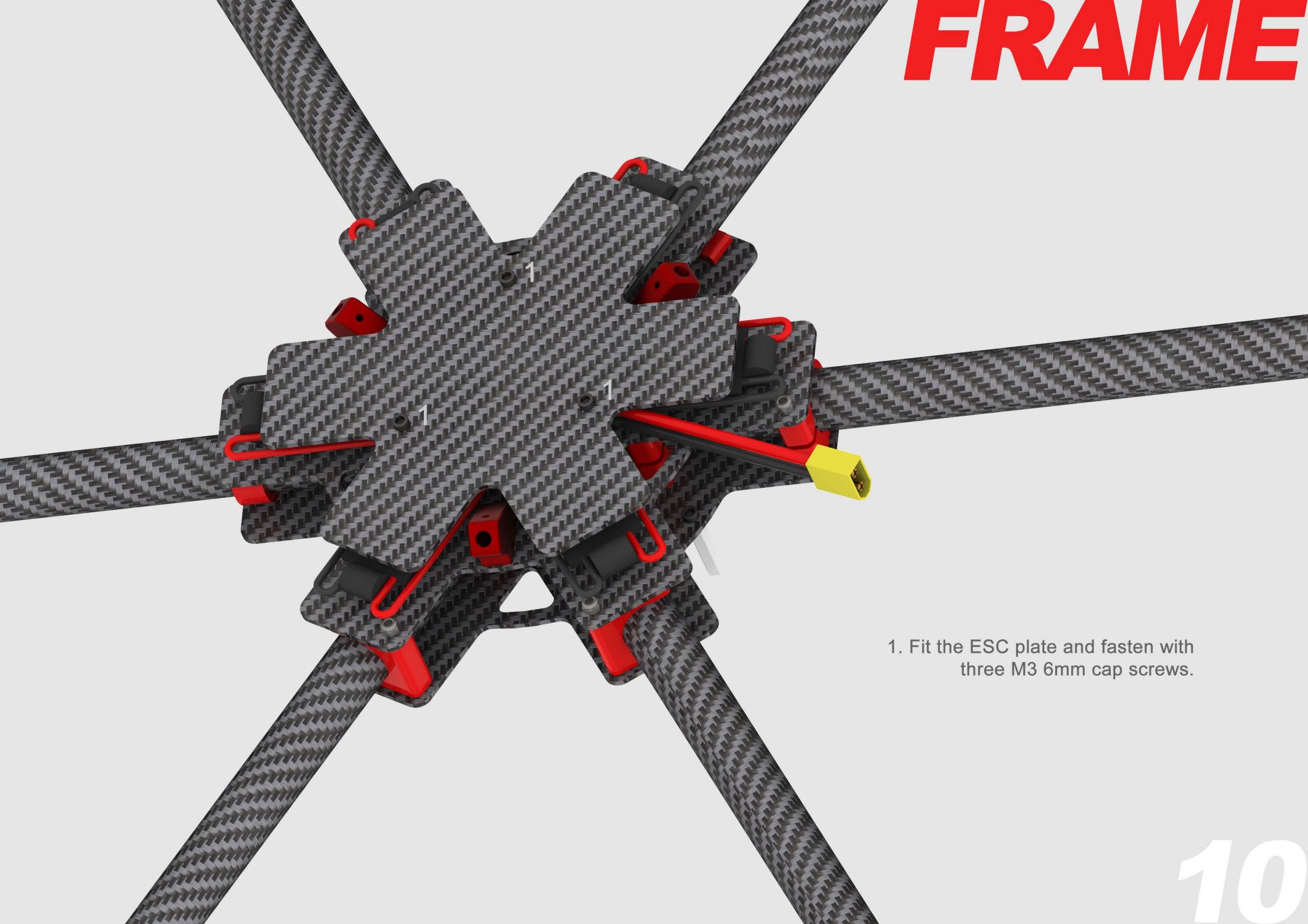
3. Fit the outer mounts and fasten with M3 35mm cap screws and nuts. No washers here.

FRAME



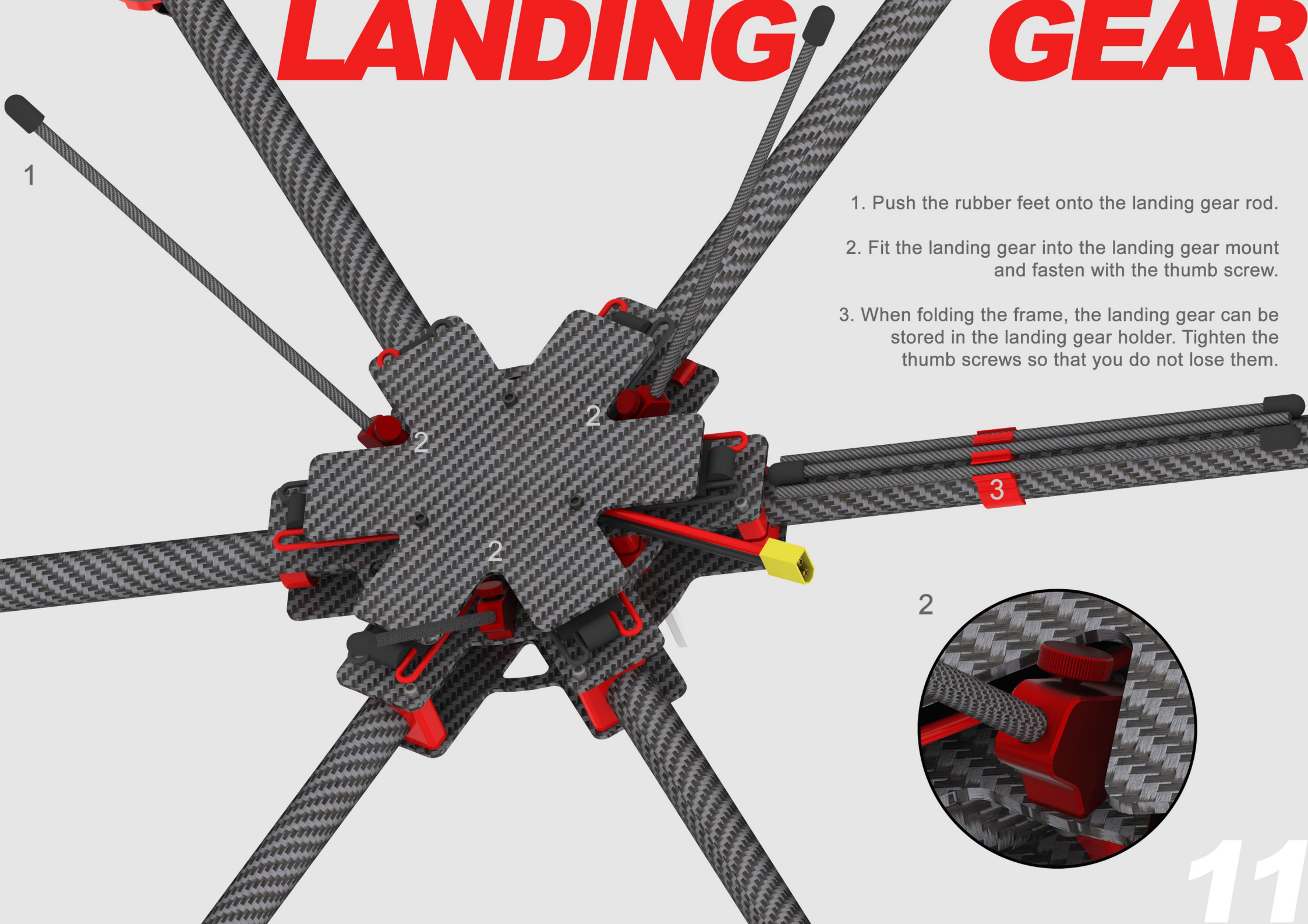
1. Fit the ESCs to the bottom of the bottom main plate with double sided tape.
2. Solder the ESCs together with a main power supply cable.
3. Connect the motor wires to the ESCs either by bullet connector or soldering.
4. Remember to thread the ESC's signal wires through the frame to be connected to the flight controller.

FRAME

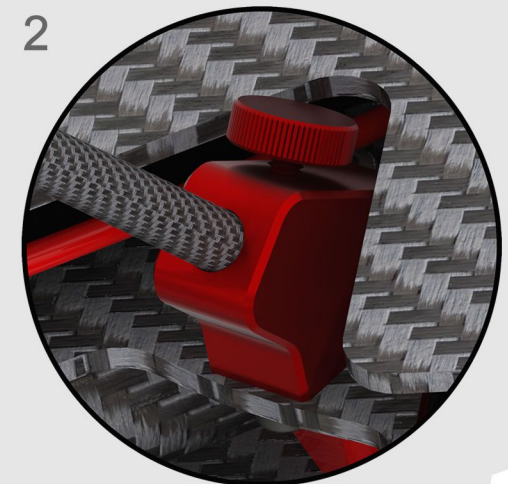


1. Fit the ESC plate and fasten with three M3 6mm cap screws.

LANDING GEAR



1. Push the rubber feet onto the landing gear rod.
2. Fit the landing gear into the landing gear mount and fasten with the thumb screw.
3. When folding the frame, the landing gear can be stored in the landing gear holder. Tighten the thumb screws so that you do not lose them.

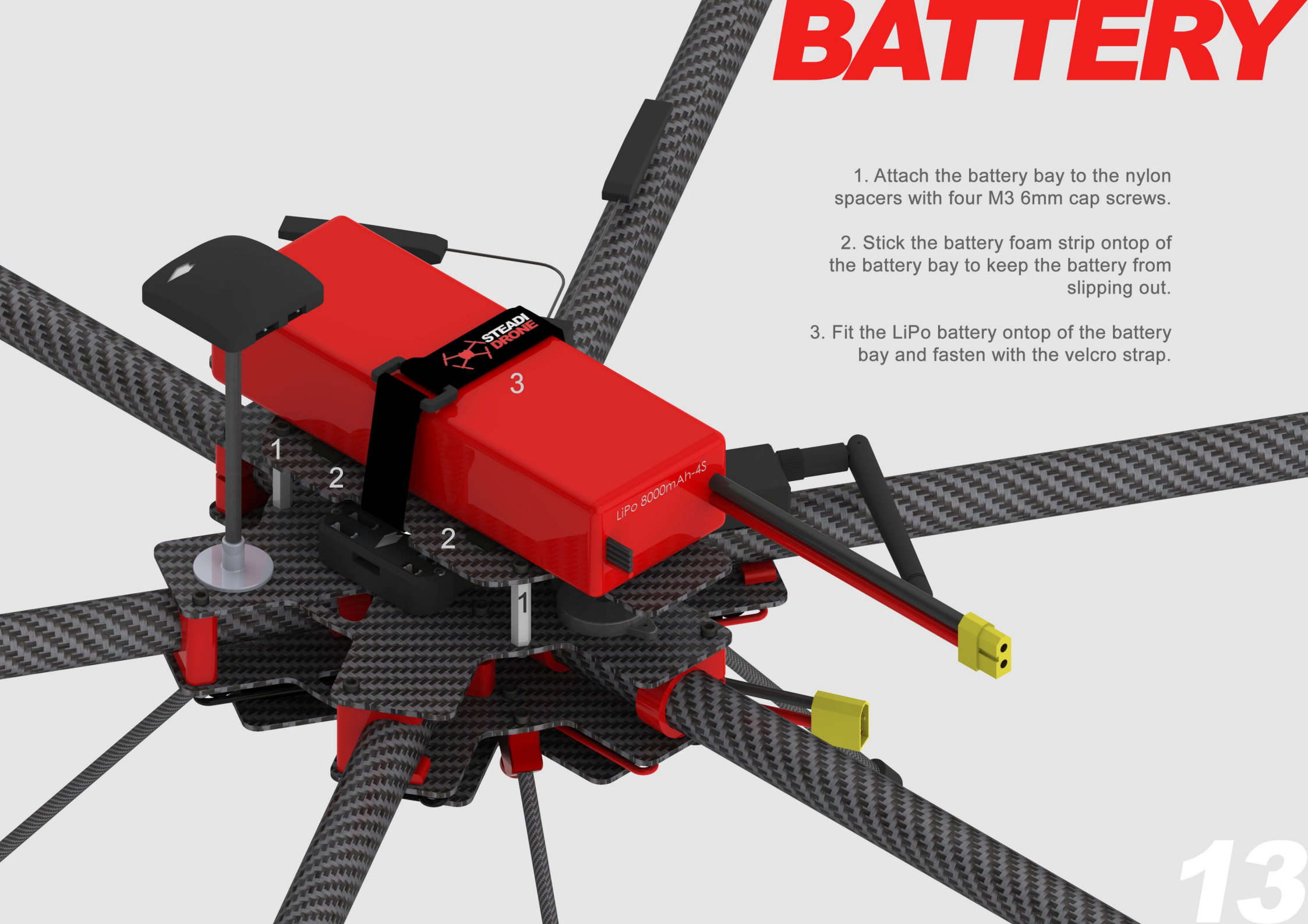


FLIGHT CONTROLLER

Now you can fit your flight controller of choice (shown here with 3DR PIXHAWK). Please refer to your flight controller's manual for connection instructions.



BATTERY



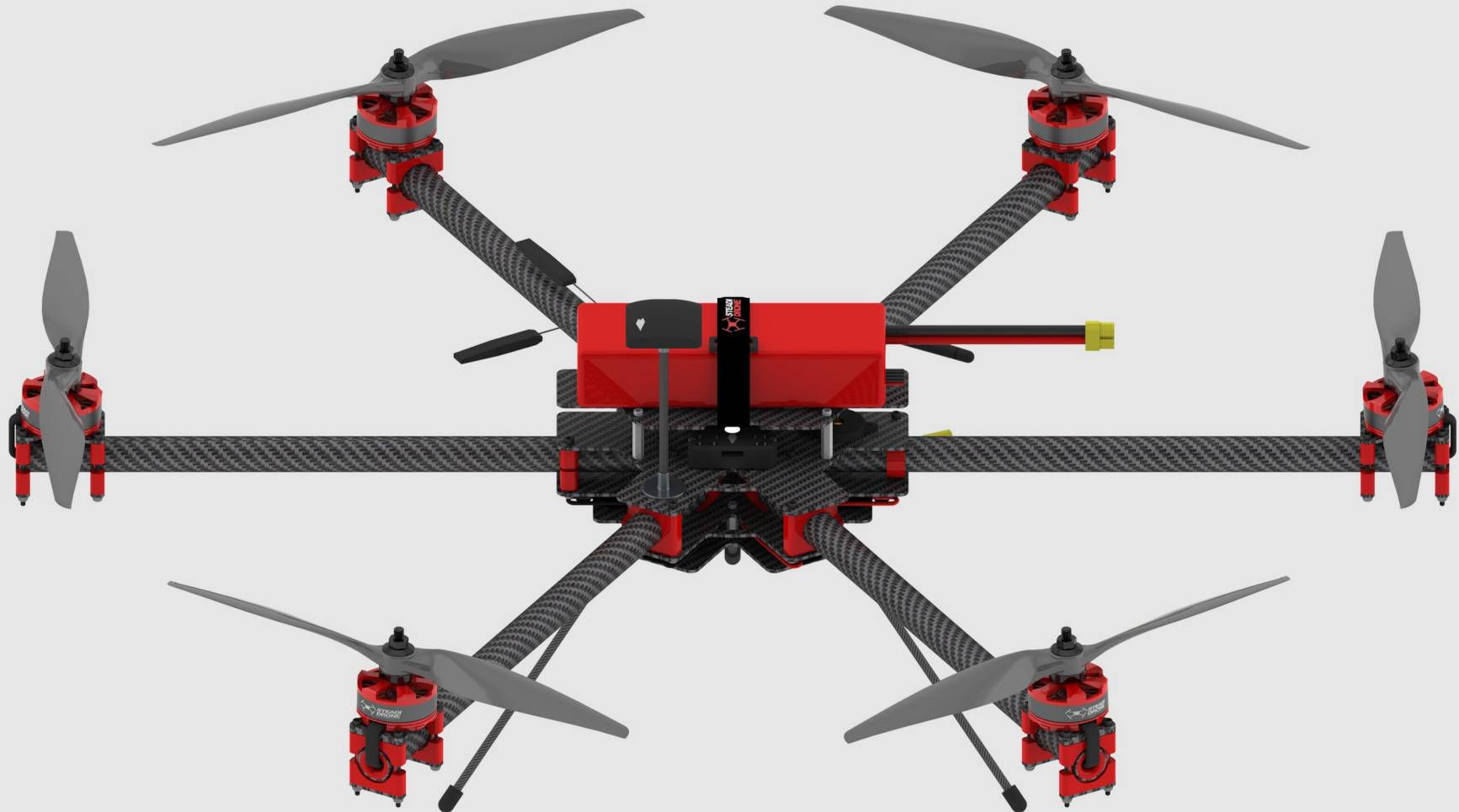
1. Attach the battery bay to the nylon spacers with four M3 6mm cap screws.

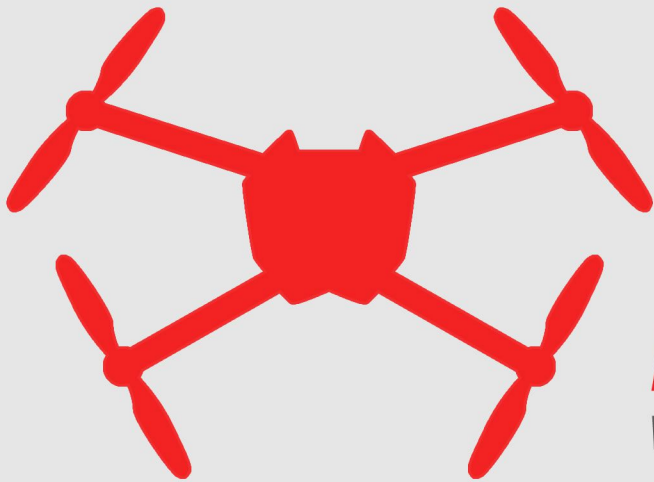
2. Stick the battery foam strip on top of the battery bay to keep the battery from slipping out.

3. Fit the LiPo battery on top of the battery bay and fasten with the velcro strap.

COMPLETE

The fully assembled SIKS.





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