

Frame Rocky 20' + 30mm carbon fiber tube + landing gear

User manual



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1. Components

1.1. Screws



Fig. 1. M2 x 4 mm 2 pcs



Fig. 2. M4 x 8 mm 16 pcs



Fig. 3. M3 x 10 mm 8 pcs



Fig. 4. M3 x 8 mm 52 pcs



Fig. 5. M3 x 10 mm 4 pcs



Fig. 6. M3 x 40 mm 4 pcs



Fig. 7. M3 x 40 mm 6 pcs

1.2. Nuts



Fig. 8. M3 8pcs



Fig. 9. M3 10 pcs

1.3 Body kit

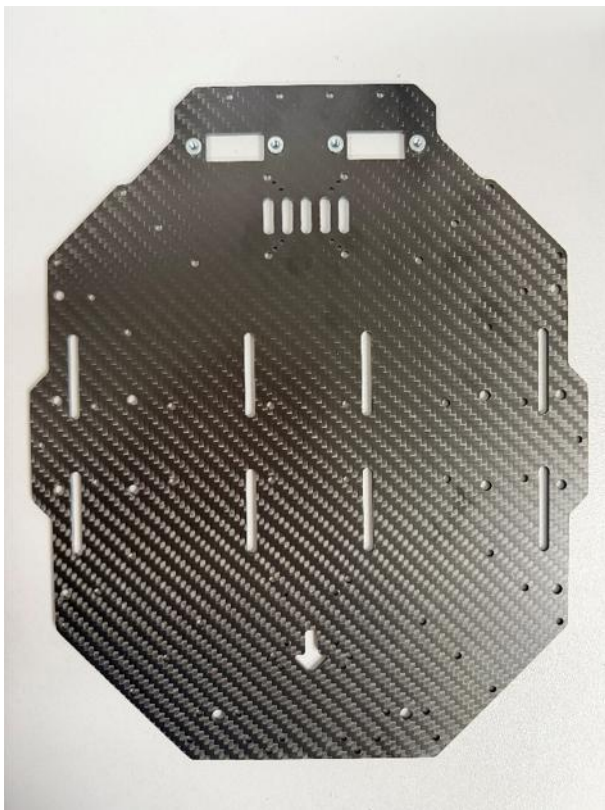


Fig. 10. Plate A. 1 pcs



Fig. 11. Plate B. 1 pcs

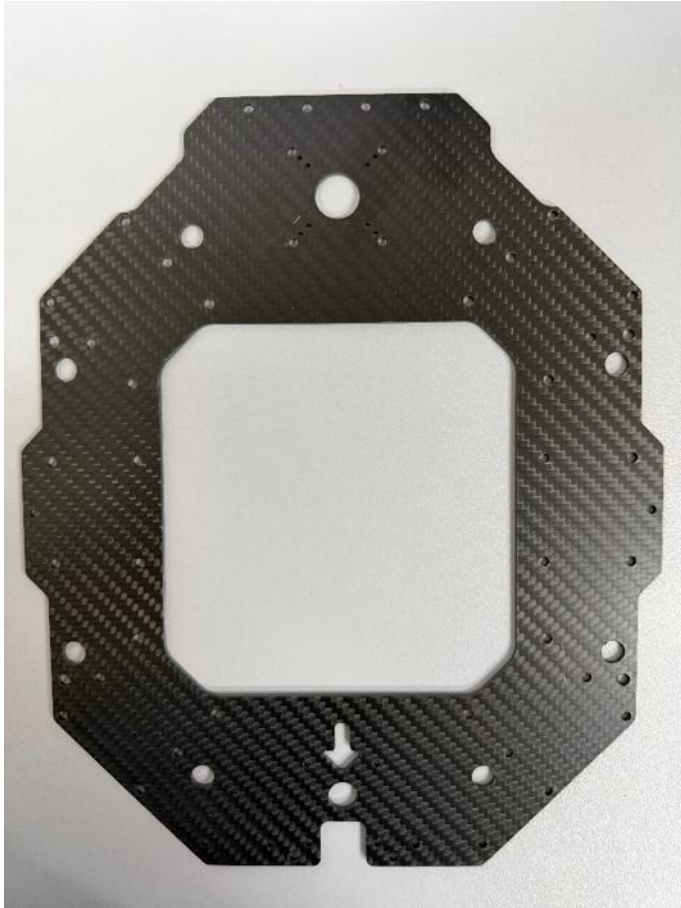


Fig. 12. Plate C. 1 pcs



Fig. 13. Fastener strap. 4 pcs



Fig. 14. Rubber pad. 2 pcs



Fig. 15. Metal holder. 4 pcs



Fig. 16. Power cable red. 2 pcs



Fig. 17. Power cable black. 2 pcs



Fig. 18. Blade. 4 pcs



Fig. 19. Motor mount. 4 pcs



Fig. 20. Tube A 33 cm x 26 mm. 4 pcs



Fig. 21. Tube B 25 cm x 23 mm. 4 pcs



Fig. 22. Tube mount set 2 pcs (tube clamp 1 pcs , frame bracket 1 pcs, M3 x 8 mm 8 pcs, M3 x 12 mm 2 pcs)



Fig. 23. Legs mount set 2 pcs (tube leg seat 1 pcs, M3 x 35 mm 1 pcs, M3 x 30 mm 1 pcs, nut M3 1 pcs)



Fig. 24. Tube end cap. 4 pcs.



Fig. 25. protective caps 4 pcs.



Fig. 26. GPS module holder 1 pcs.



Fig. 27. Antenna holder 2 pcs.



Fig. 28. Camera holder 2 pcs.

2. Assembly

2.1. Frame assembly



Take 4 pcs of tubes A (Fig.20) and 4 pcs of metal holders (Fig.15) from the body kit.



Unscrew the bolt from the metal holder. Insert the tube into the holder from either side.

Ensure the recess on the tube is aligned with the internal bolt hole.

Finally, tighten the bolt to secure the assembly.

Repeat this procedure for all 4 arms.



Take 4 pcs motor mounts (Fig.19) and 4 pcs of motor sets.

Note: Discard M4 x 20 mm 4 pcs screws from the set, as they are not required for this step.

Instead, use 4 pcs of bolts M4 x 8 mm (Fig. 2) — you will need 16 pcs in total.



Unscrew the bolt from the motor mount. Ensure the motor orientation matches the picture.



Pass the wires through the motor mount according to the image.



Place the motor mount onto the motor. Align the mounting holes of the motor with the holes on the mount. Secure the motor to the mount using **4 pcs of bolts M4 x 8 mm (Fig. 2)**. Tighten the bolts in a cross-pattern to ensure even pressure.



Take tube end cap (Fig. 24). Route the motor wires through the centre of the tube end cup.



Route the motor wires through the centre of the tube.

Install the tube end cap onto the end of the motor mount.

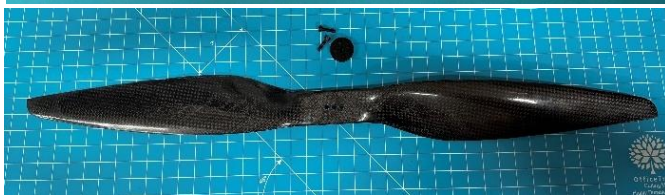
Insert the arm tube into the mount until it is fully seated against the cap.



Attach the second part of the motor mount to the tube.

Use the bolts to secure the assembly, ensuring the motor wires are not pinched between the parts.

Tighten the bolts in a cross-pattern to ensure even pressure.



Take blade 1 pcs (Fig. 18), 2 pcs of M3 x 12 mm and 1 pcs washer from motor set.



Take 1pcs of washer from the motor set. Place it onto the top of the motor, ensuring it is cantered over the shaft and holes.

Verify that the washer sits flush against the motor surface before proceeding with the propeller or mount installation.



Install the blade onto the motor shaft, ensuring it sits firmly on the washer. Secure the blade using 2 pcs of M3 x 12 mm from the motor set.

Caution: Ensure the screws are threaded directly into the motor housing and tightened securely to prevent the blade from loosening during flight.

2.2. Legs assembly



Take 2 pcs of tubes B (Fig. 21) and legs mount set 1 pcs (Fig. 23) from the body kit.



Insert the tube (without a hole) into the landing gear T-seat from either side. You may need to loosen the seat for a smoother fit.

Next, insert the vertical tube (with a hole) from the top.

Use the fasteners from the set to secure the joint: use the bolt and nut for the upper hole and the screw for the lower hole.

Repeat this procedure for all 2 legs.



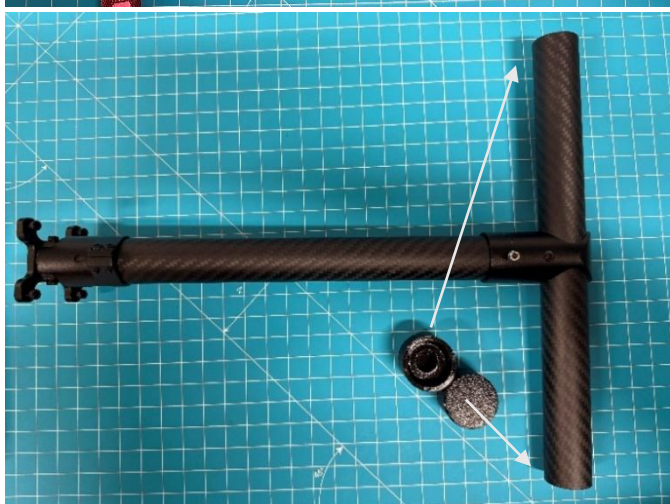
Take tube mount set (Fig. 22) from the body kit. Sort M3 x 12 mm 2 pcs screws and M3 x 8 mm 8 pcs screws.



Join the two metal parts of the holder together.
Ensure the protruding tabs of the upper and lower parts are positioned on opposing sides.
Secure the assembly using 4 pcs of M3 x 8 mm screws (install 2 pcs of screw on each side).
Tighten the screws.



Insert the prepared leg into the mount.
Ensure the leg is fully seated and properly aligned.
Use 2 pcs of M3 x 12 mm screws to secure the assembly to the frame.
Tighten the screws.



Take 4 pcs of protective caps (Fig. 25) from the body kit.
Install them onto the ends of the tubes (legs).
Ensure each cap is fully seated and pressed firmly in place to protect the tubes.
Repeat this procedure for all 2 legs.

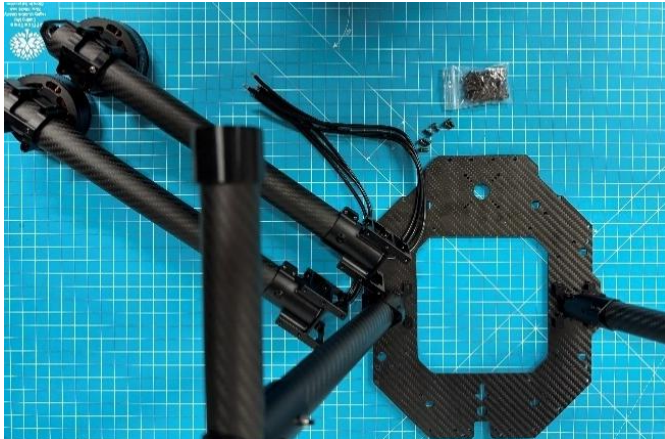
2.3. Frame assembly



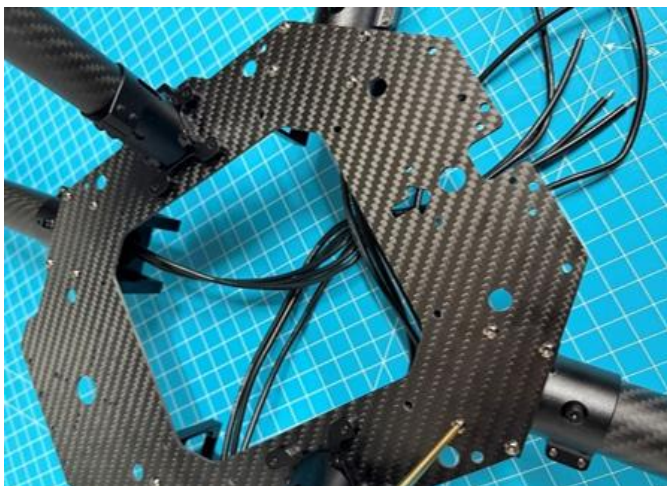
Take 2 pcs of prepared tubes, plate C 1 pcs (Fig. 12) from the body kit and 8 pcs of M3 x 8 mm screw from tube mount set.



Align the leg with plate C.
Use 4 pcs of screws for each leg, inserting them from the upper side of the frame.
Tighten the bolts in a cross-pattern to ensure even pressure.
Repeat this process for all 2 legs.



Take prepared frame plate with legs attached 4 pcs of pre-assembled motor arms and 16 pcs of screws M3 x 8 mm (Fig. 4.).



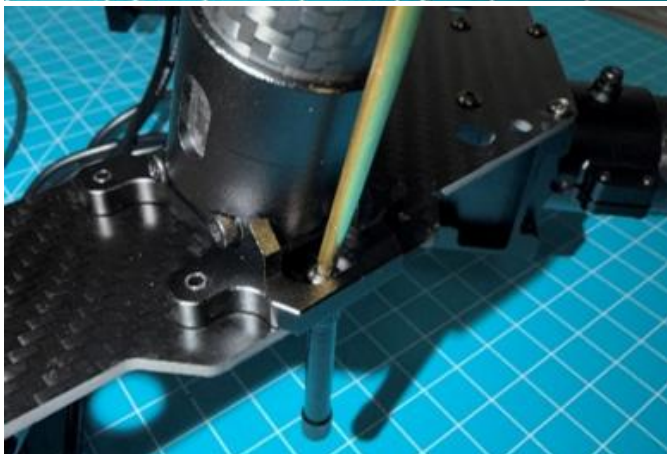
Secure each arm using 4 pcs of screws per leg.

Note: Leave the two inner holes (those closest to the centre of the frame) empty for now (will be used for the last assembly step).

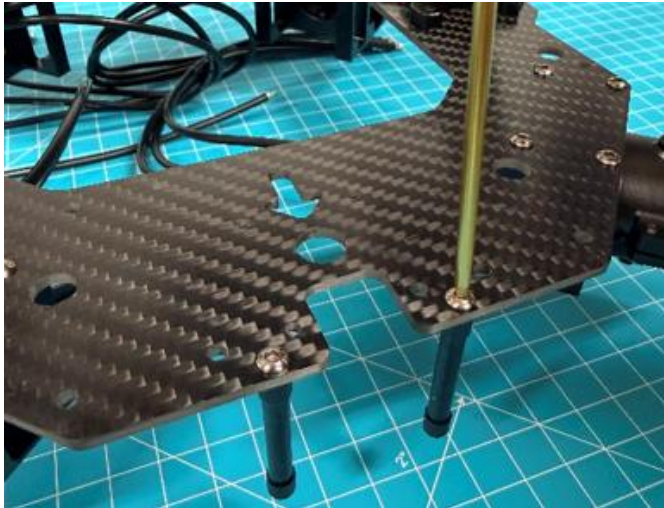
Ensure the screws are tightened evenly to avoid any misalignment of the frame plates.



Take 6 pcs of screws M3 x 40 mm (Fig. 7.) and 6 pcs of screws M3 x 8 mm (Fig. 4.).

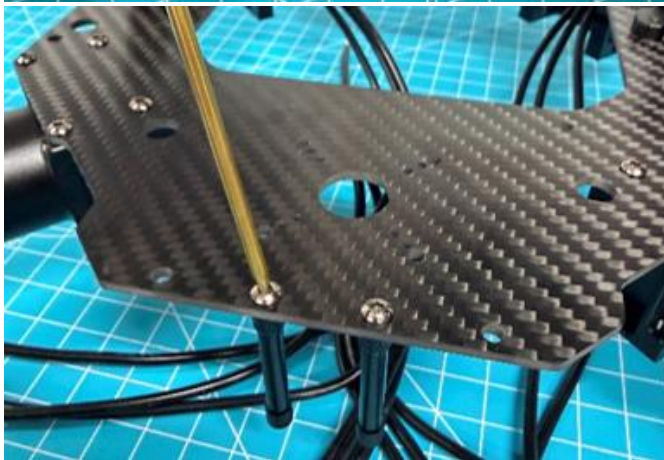


In the protruding mounting hole of each leg, insert 1 pcs of M3 x 8 mm from the top and 1 pcs of M3 x 40mm screws from the bottom.



Identify the front of the frame, which is marked with an arrow indicator.

Insert 2 pcs M3 x 8 mm from the top and 2 pcs M3 x 40mm screws from the bottom into the outermost holes of the frame.

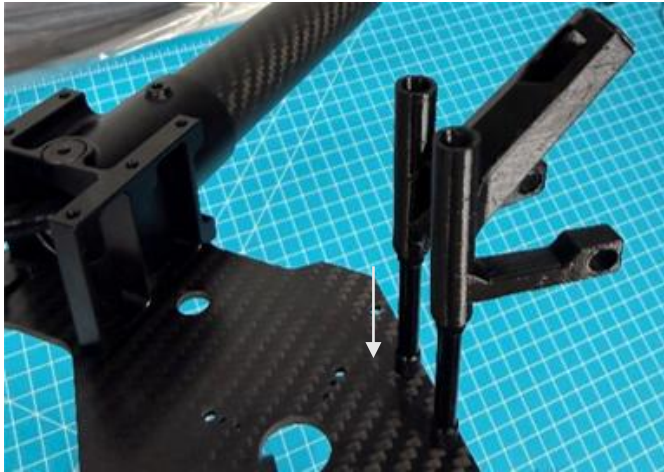


Identify the back of the frame, which is marked with a circle indicator.

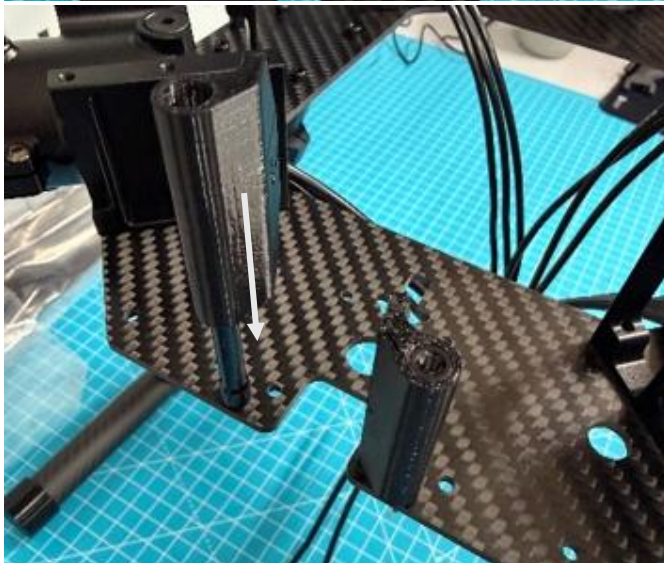
Insert 2 pcs M3 x 8 mm from the top and 2 pcs M3 x 40mm screws from the bottom into the outermost holes of the frame.



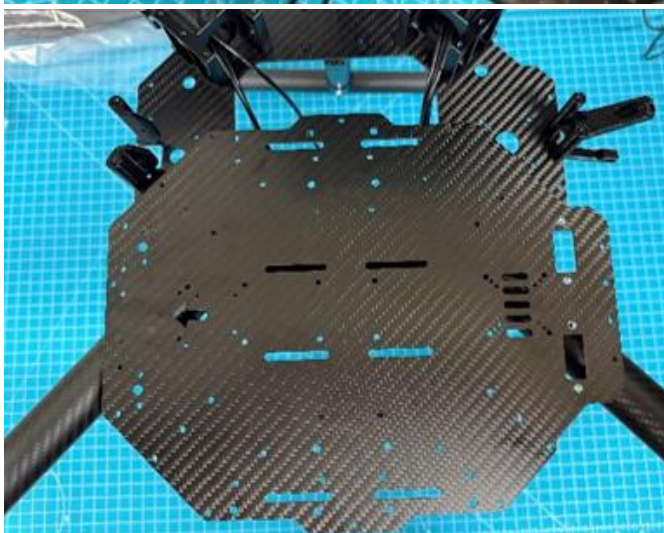
Take 2 pcs of antenna holders and 2 pcs of camera fasteners (Fig. 27, 28).



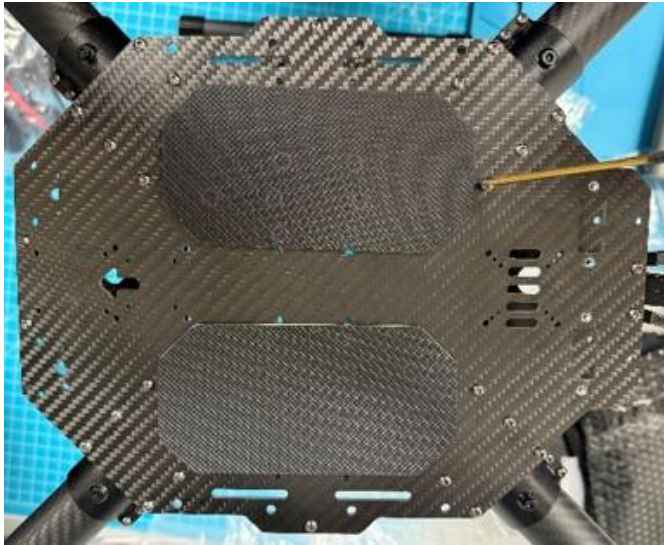
Slide the antenna holder (Fig. 27) onto the 2 pcs M3 x 40 mm screws located at the back of the frame, which is marked with a circle indicator.



Slide the 2 pcs of camera holders (Fig. 28) onto the 2 pcs M3 x 40 mm screws located at the front of the frame, which is marked with an arrow indicator.



Take prepared construction, plate C 1 pcs and 30 pcs M3 x 8 mm (Fig. 4).



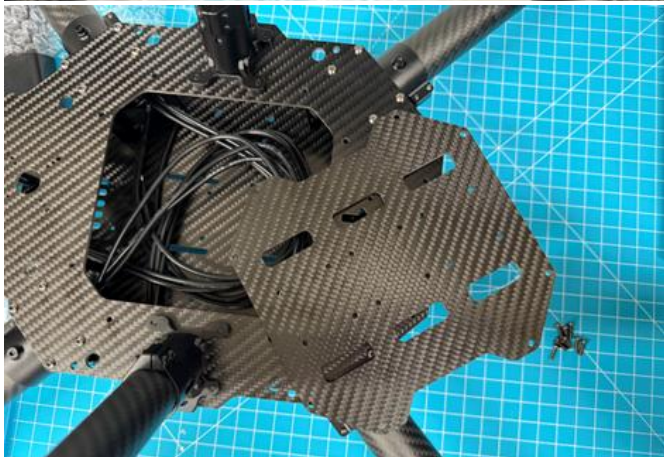
Secure each arm using 6 pcs of screws per leg.

Secure 6 pcs M3 x 40mm using 6 pcs M3 x 8 mm.

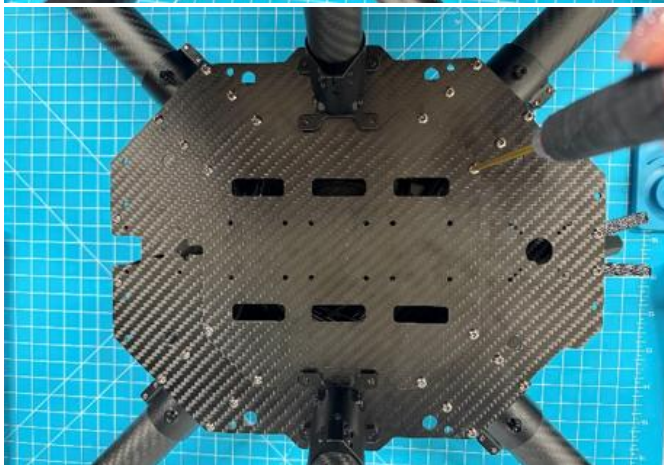
Take 2 pcs of rubber pad and position them as shown in the illustration.

Use the adhesive tape on the back of the pads to secure them firmly to the frame plate.

Press down firmly for a few seconds to ensure a strong bond.



Take prepared construction, plate B 1 pcs (Fig. 11) and 8 pcs M3 x 10 mm (Fig. 3).



Secure 8 pcs M3 x 10 mm.

Ensure the screws are tightened evenly to avoid any misalignment of the frame plates.



The final result.

Contacts:

WhatsApp: +420 777 054 888

Email: support@pilotix.eu

Telegram: https://t.me/PilotixSupport_bot