

MōVI M10 Top Mount Upgrade

INSTALLATION INSTRUCTIONS



Thank you for your purchase of the new Top Mount Upgrade Kit for the MōVI M10. This modification allows the M10 to operate without constraints in the SkyView top mounted position on your ALTA, TERO, or any stable vertical mount like a tripod.

Please give yourself about an hour and a clear work space to work in. We recommend you install our Toad in the Hole kit while performing this upgrade which will allow you to get the most out of your Top Mount Upgrade.

Tools needed:

- Wire cutter / diagonal side cutter.
- 1.5mm hex wrench, straight or ball tip.
- 2.0mm hex wrench, straight tip (not ball end.)
- 2.5mm hex wrench, straight or ball tip.
- Needle nose plier, or similar (optional.)
- Adhesive remover (optional.)
- Toad in the Hole Kit (optional.)

PART 1 : DISASSEMBLY AND PREPPING THE UNIT.



01. Loosen the 4 bolts holding the handle bar on to the pan assembly of your MoVI M10.



(optional) Loctite screws and Install Toad in the Hole Male.



02. Mark motor to show front of unit with marker.



03. Lay unit on its side, cut and remove zip ties from pan motor assembly.



04. Remove these screws, the carbon plate, and metal plate underneath.



05. Unplug the motor, careful not to pull from the wire but the connector.



06. Loosen pan adjustment levers, or unscrew pan clamp and remove pan assembly from unit and set aside.



07. Unscrew the GPS SMA connector.



08. Twist the GPS module off of the carbon plate and clean any tape from GPS, set aside.



09. Loosen the 4 screws holding the vertical tube approx 2-5 turns until the tube is just loose enough to turn.



10. Remove the tube and set it aside.

PART 2 : CONVERTING THE LOWER GIMBAL.



11. Install your new keyed pan assembly as shown, the levers should be pointing to the left of the unit.
12. Slide the tube in until it is just flush with the bottom clamps and is not touching the motor.



13. From above, look down at the gimbal and twist the keyed quick release until it is as square as possible with the roll beam. (this can be adjusted later.)



14. Tighten the 4 screws evenly in a cross pattern until they are tight.



15. Apply provided tape to your GPS unit and peel off red backing.



16. Install your GPS back onto the plate as shown and screw back on the SMA connector.

PART 3 : CONVERTING THE PAN ASSEMBLY.



16. Remove the 4 bolts from the motor and set the carbon plate and bolts aside.



17. Remove the 4 button head bolts with a 2mm driver; use caution and make sure the driver is fully seated to avoid stripping.



18. Remove the 8 bolts with a 2.5mm driver, and the 5 button head bolts with a 2mm driver. Use pliers to hold the posts if they spin.



19. Pull the carbon plates apart, save the motor and set aside or discard the rest.



20. Unpack the parts shown.



21. Using the carbon plate without threaded inserts, install it to the motor as shown so the plug fits in the cut out of the carbon and attach with your original socket head bolts.



21. Insert the 4 M3X37 screws provided through the carbon plate with motor as shown, and lay flat on your work surface.



22. Place your metal tube with the open end inside the plastic clamp as shown, place the matching part over the top of the tube.

PART 3 : CONVERTING THE PAN ASSEMBLY (cont..)



23. Place the metal tube with plastic clamps over the 4 bolts as shown; making sure the keyed rib is on the same side as the plugs on the motor.



24. Place the carbon with inserts over the motor, and install the 4 button head screws into the motor. Make sure the threaded inserts are facing out.



25. Reinstall the carbon plate to the motor, line up your marks and reuse the original hardware with thread lock.



26. (optional) Install your Toad in the Hole Quick Release with the lever facing towards the front.



27. Install battery cages with the M3X8 socket head bolts - orient with the lever of the door facing up.



28. Ensure both cages are installed tight with the doors facing up, and your pan tube is seated fully and the spine is facing down.



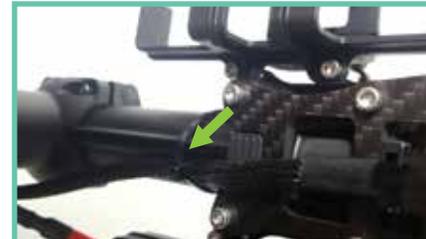
29. Slide the pan assembly on to the vertical tube - you may need to loosen the clamp slightly to get it started. Tighten these screws and adjust clamps to desired snugness.



30. Plug both motor wires back in, being careful not to force them as they are keyed to go in one way.



31. Reinstall metal and carbon cover, use a zip tie to securely tighten the wires to the carbon plate around shrink tubing on wire.



32. Place a second zip tie around the pan tube approx a finger width back and secure the pan wire firmly along the pan tube spine.



33. Place a Freely M10 Aux Pack into the battery holder and close. Plug in battery.



34. Attach top handle, and power on unit. Confirm it will stabilize and you're done!

TROUBLE SHOOTING:

Should the M10 not power on and stabilize check the following:

[LIGHTS DO NOT TURN ON] - Ensure battery is charged, plugged in, and the battery cables are undamaged.

[GIMBAL DOES NOT STABILIZE/FLASHING LIGHTS] - Double check the pan wiring, one of the plugs might not be fully seated. Unplug the pan wires and plug them back in again, ensure the keyed portion of the plug is correct and the plug is seated and not backwards.

[HANDLE BAR IS 90 DEGREES OFF] - Unmount the handle bar and turn 90 degrees, re-attach. If using a TITH you may want to change the orientation of the receiver.

If you're having difficulty, please contact support@freelysystems.com for assistance.