



ReadyMadeRC

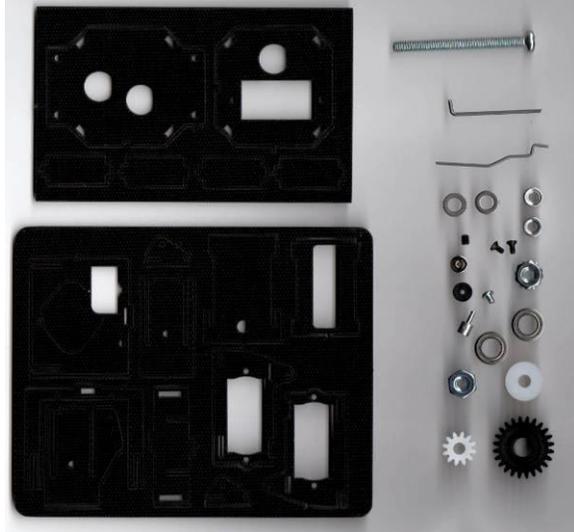
Pro Pan/Tilt Assembly Kit Instructions

Note: prior to gluing pieces, dry fit the parts to insure there are no binding joints.

Items required for completion of pan/tilt kit:

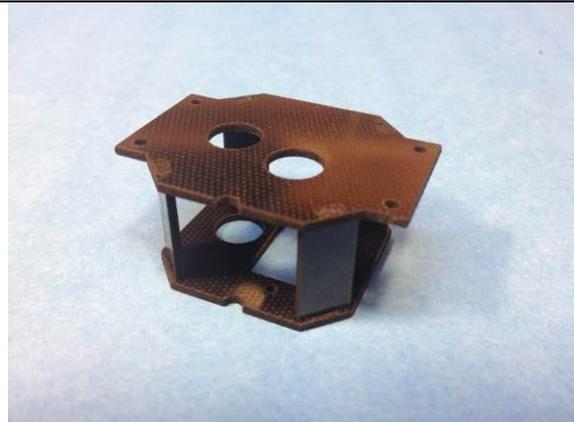
- Medium CA
- 5 Minute Epoxy
- Needle nose pliers and Phillips screw driver.
- Your camera/video TX, and other FPV gear!

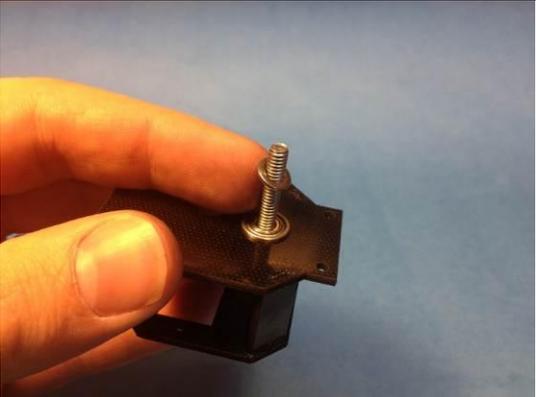
1. Verify all components are included.



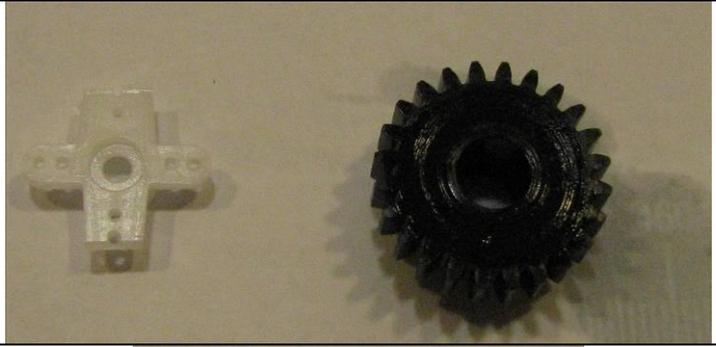
2. Assemble Pan base as shown and glue with CA. Make sure alignment dimples are on the same edge, and the small holes line up. Make sure all pieces are fit completely together and that the unit is not crooked.

** Double check for proper hole alignment prior to gluing. **



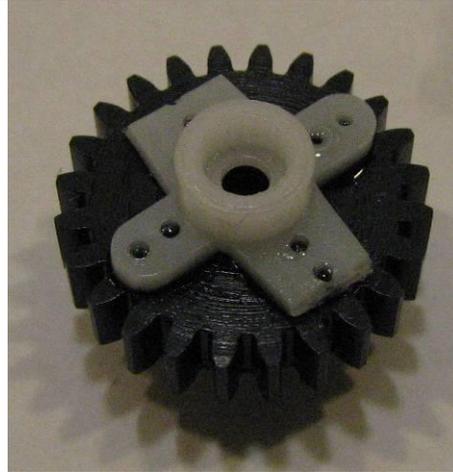
<p>3. Push aluminum spacers into flange bearings until flush on the wide side of the bearing. Install one unit onto main screw with a washer in between as shown.</p>	
<p>4. Place the white gear onto the screw while inserting through bottom of the base. Screw the second bearing/spacer down through the top and sandwich the white gear in between.</p>	
<p>5. Tighten down the top bearing/spacer onto the gear using pliers to keep it in place. The white gear should not be able to spin freely after tightening.</p>	
<p>6. Install washer onto main screw followed by the lock nut and tighten until snug. Verify free movement of assembly.</p>	
<p>7. Cut all four arms of the large servo arm at the second hole.</p>	

8. Sand the top surface of the servo arm and the side of the large gear to roughen.

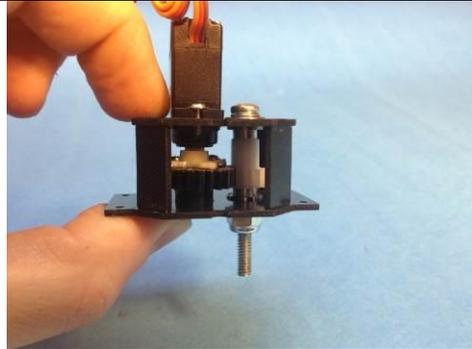


9. Apply a thin layer of epoxy to the top of the servo arms and place it on the gear. Make sure the arm is centered in the gear (look through the opposite side to make sure the holes line up). Be careful to not get any epoxy on the gears. Quickly wipe excess epoxy away using alcohol on a rag if needed.

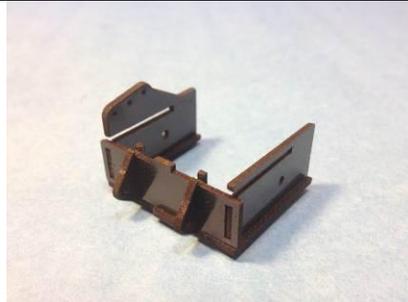
** If desired, you may also add small screws to attach horn to gear at the inner holes. Be sure to pre drill to avoid splitting. **



10. Insert the gear in the large hole and insert servo into gear. Tighten screw to secure servo horn through the hole in the gear center.



11. Dry fit outer portion of camera housing as shown.



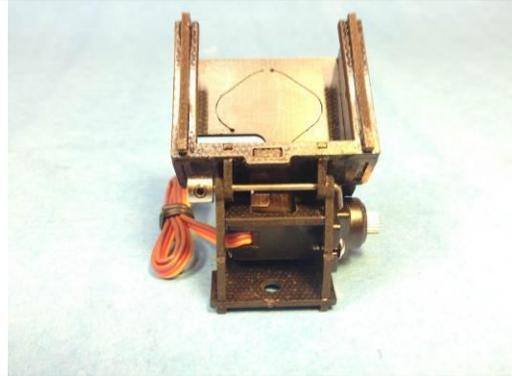
12. Carefully slide back panel into side slots until you are able to snap into place as shown. Make sure all pieces are installed correctly and in the right direction prior to gluing.



13. Assemble and glue tilt base as shown. Insert servo with gear output towards the hinge tabs.



14. Align holes for camera housing and tilt base and insert "L" shaped wire. Use collet to secure as shown.



15. Insert linkage stopper into desired tilt hole and snap black retainer onto back. Push Z bend portion of wire through servo control horn, slide remaining portion into linkage stopper, and fasten set screw. Verify that servo is centered and fasten control horn to servo.



16. Place nylon spacer onto shaft followed by the tilt platform and star nut. Center the pan servo and place tilt platform pointed 180 degrees from the desired direction. Hold the bolt with a screwdriver (DO NOT APPLY FORCE AGAINST THE SERVO). Rotate the tilt platform, making sure the bolt is moving, until the bolt is tight and the platform is facing the proper direction.

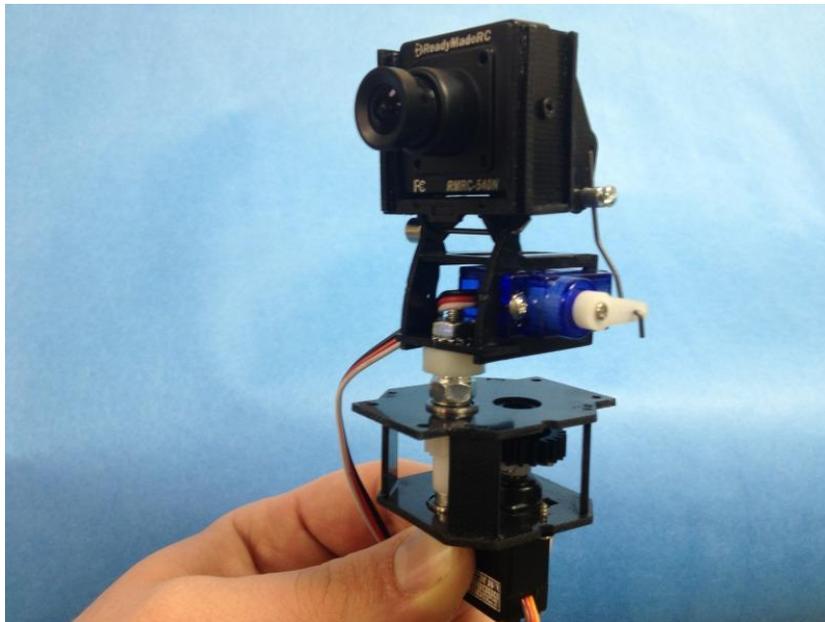


17. Place CCD camera into housing and secure with included fasteners. (Blue Loctite may be beneficial)

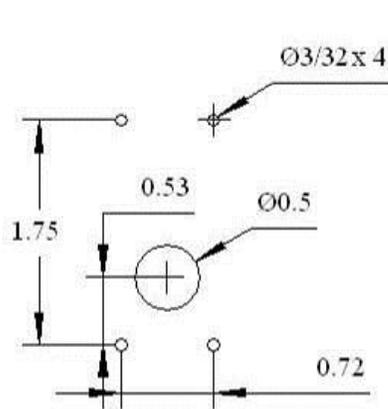
*** WARNING – Only use these screws in this setup! If used by themselves or with a thinner mounting material, you may short out the components inside the camera ***



Assembled Pro Pan/Tilt with Camera Installed:

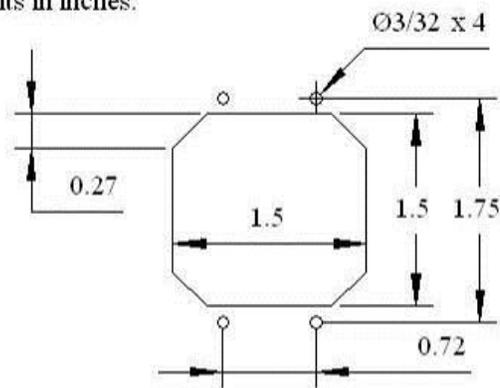


Cutout dimensions for stand-alone use:



Cutout locations for through-mounting

Units in inches.



Cutout locations when inserted through mounting surface.