

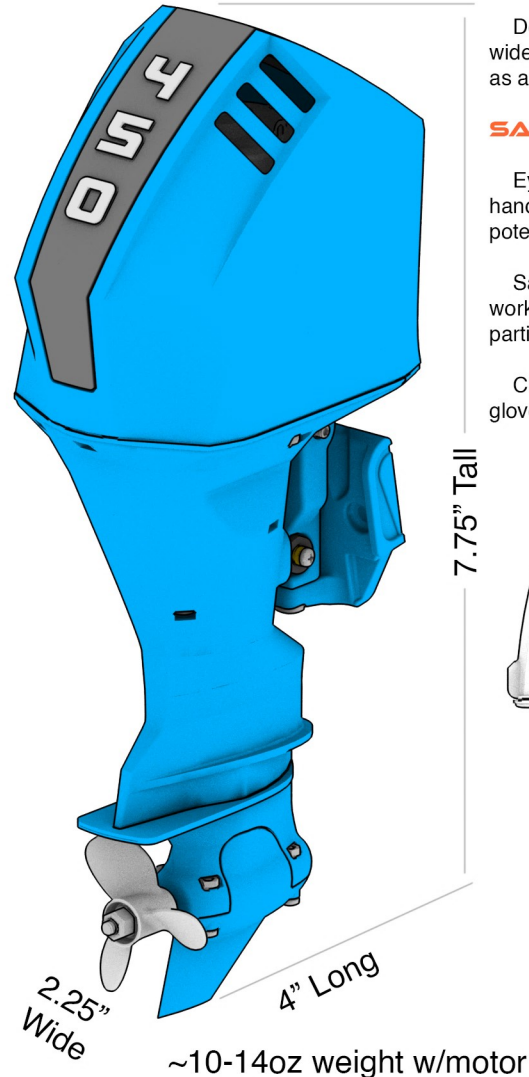
SPYKER WORKSHOP - 1/10TH OUTBOARD KIT

V1.0

Outboard Motor Assembly Guide (Page 1)

Steering / Trim Servos Built-in
High-Quality Resin Prints
Scale Look

Designed by Ryan at
spykerworkshop.com



INTRODUCTION

Welcome to the fascinating world of scale RC boating! You are now the proud owner of a Resin 3D Printed 1/10th scale RC Outboard Kit, meticulously designed and engineered by Ryan @ Spyker Workshop. This manual provides step-by-step instructions, tips, and safety guidelines to ensure an enjoyable and successful building experience. Please note that this guide serves as a general roadmap; feel free to exercise your creativity as our pontoons are highly modular.

MODULARITY AND CUSTOMIZATION

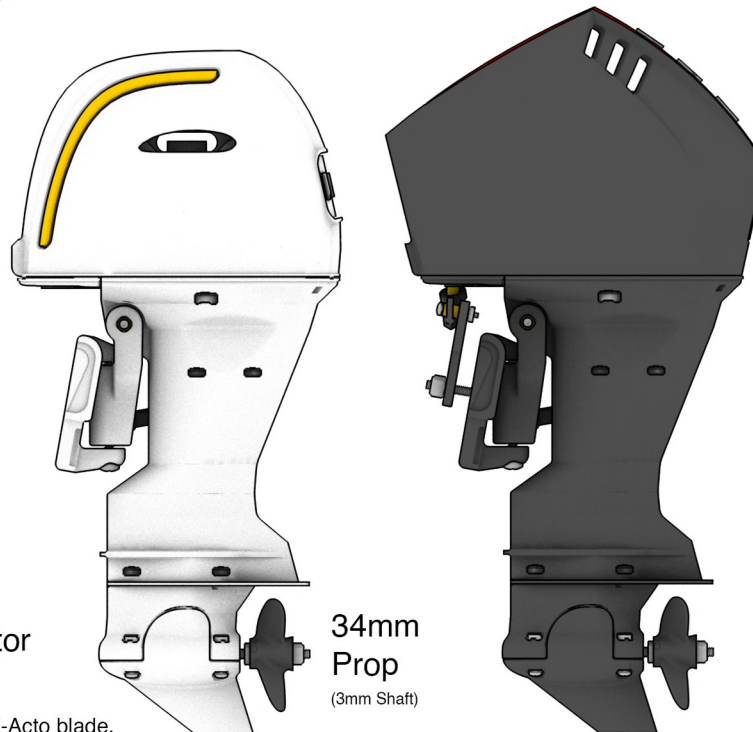
Design Flexibility: Our outboards are highly modular, allowing you to create a wide range of designs and different motors/power options etc. This manual serves as a guideline but certainly does not cover all the variations you can explore.

SAFETY AND PRECAUTIONS

Eye Protection: Resin-printed parts can sometimes break or go flying during handling or assembly. Always wear safety glasses to protect your eyes from potential injury, during support removal specifically.

Sanding Resin Prints: Due to the fine dust produced while sanding resin prints, work in a well-ventilated area. Consider using a filtered fan to catch airborne particles. Always wear a dust mask and eye protection.

Chemical Safety: Be cautious when using chemicals like epoxy or paint. Use gloves and work in a well-ventilated area.



WORKING WITH RESIN PRINTS

Support Material Removal: **WEAR SAFETY GLASSES!!!** Resin is a very hard material and while removing supports it can snap off and go flying. Carefully snip away support material using flush cutters, taking care not to damage the main part.

Sanding: Sand the surface where the support was attached. Sand rounded surfaces or any imperfections to smooth them out. The finished product is directly related to the effort you put into sanding. A thorough sanding job will result in a smoother, more professional finish. Take your time to sand all surfaces and edges for optimal results. Any defects use body filler or bondo.

Warping: Some resin parts may show signs of warping due to the characteristics of the resin and post-curing process. To return them to their proper shape, apply heat using a heat gun or immerse them in hot water until they become pliable. Once pliable, gently bend them back into shape.

Painting: Clean the parts before painting, such as blowing off the sanding dust with an air gun, or washing with water and allowing to dry. This kit is designed for spray painting, parts are split up to easily paint before assembly. Clean parts and choose a spray paint like Rust-Oleum for best results. Finish with a clear coat.

REQUIRED TOOLS & SUPPLIES

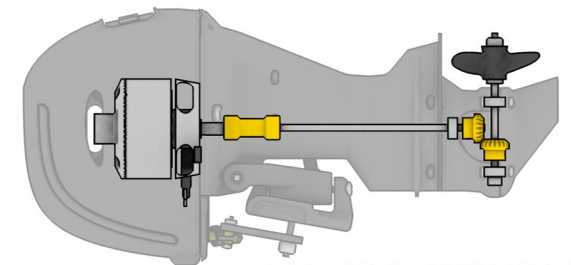
Given the modular and intricate nature of this kit, we strongly recommend you thoroughly review this entire instruction manual before starting. This will give you an idea of the specific tools and supplies you may need for your personalized build.

Tools: Examples include, but are not limited to, screwdrivers, craft knives, tweezers, and flush cutters etc.

Glue: We recommend using gap-filling hobby-grade super glue for assembling the resin parts. It's effective, quick-drying, and ensures a strong bond.

Additional Supplies: You will need other materials not included in the kit, such as primer, paint, batteries, electronics, motors, fabric and more etc.

TROUBLESHOOTING Customer Support: Please email us at spyker.sales@hotmail.com with any help you need!



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- ! Do not drill into resin parts they will crack.
- ! If you need to make a hole, carefully rotate an X-Acto blade.

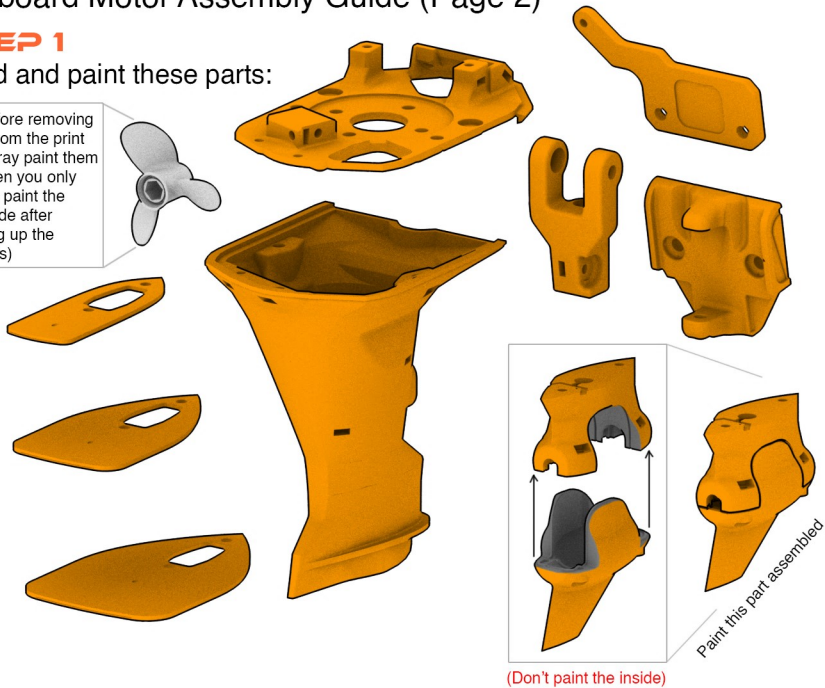
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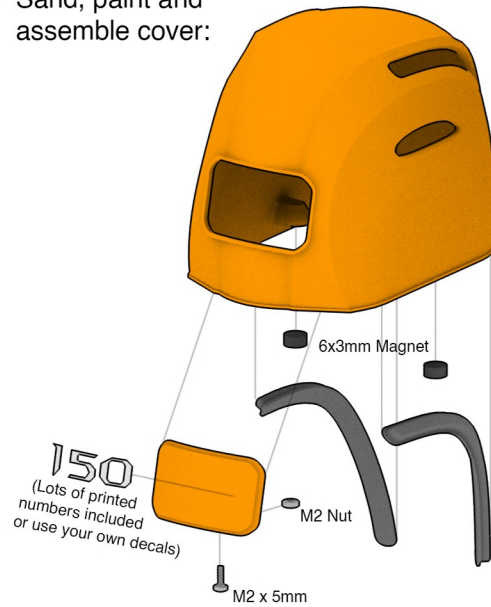
STEP 1

Sand and paint these parts:

Tip: Before removing props from the print tray, spray paint them all. (Then you only need to paint the other side after cleaning up the supports)

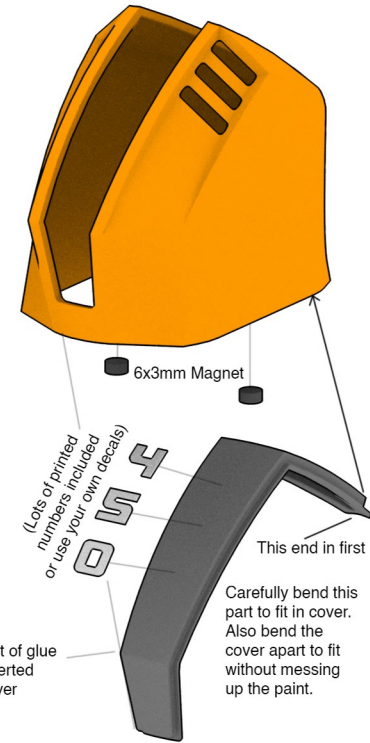


Sand, paint and assemble cover:



Option: Modern Cover

Tip: To glue the numbers on easier:
1. put some super glue on paper towel
2. use tweezers to dip number in glue
3. dab number on paper towel to remove excess glue
4. carefully line up and set the number

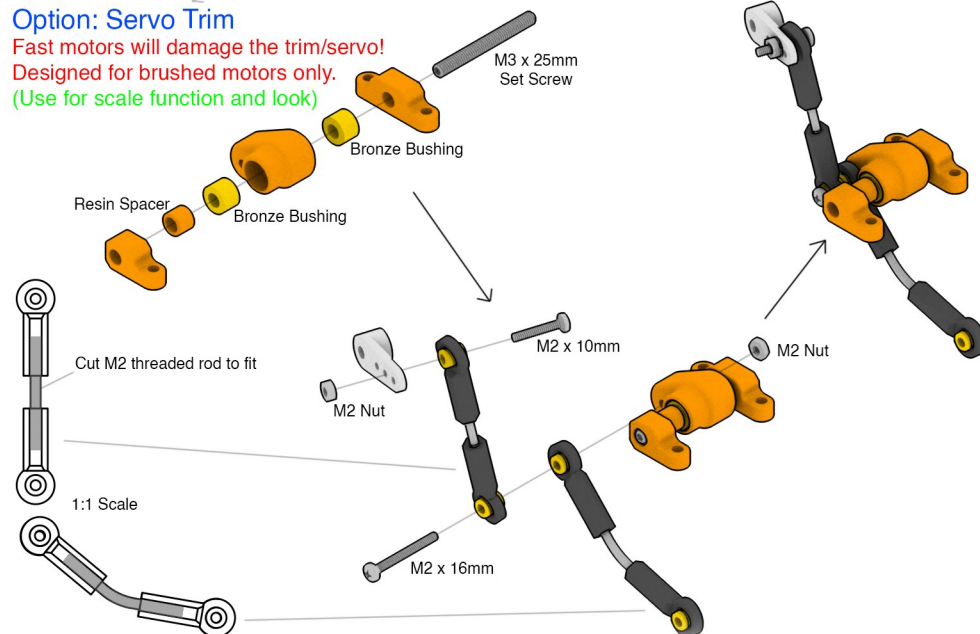


Option: Racing Cover

STEP 2 Decide on Servo Trim or Fixed Trim:

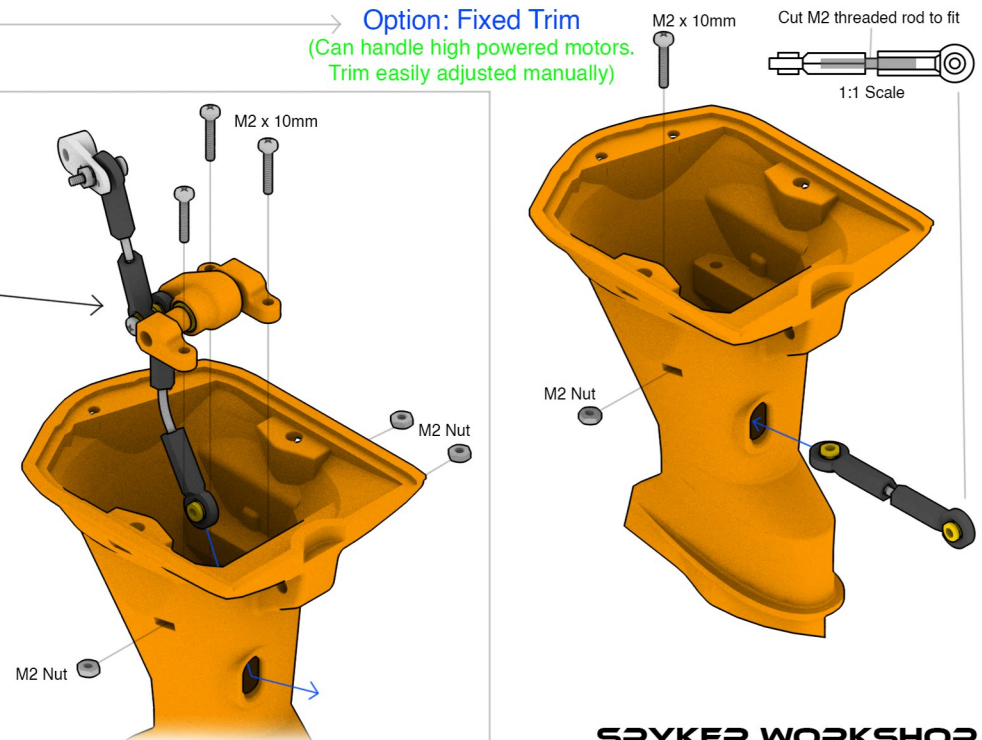
Option: Servo Trim

Fast motors will damage the trim/servo!
Designed for brushed motors only.
(Use for scale function and look)



Option: Fixed Trim

(Can handle high powered motors.
Trim easily adjusted manually)



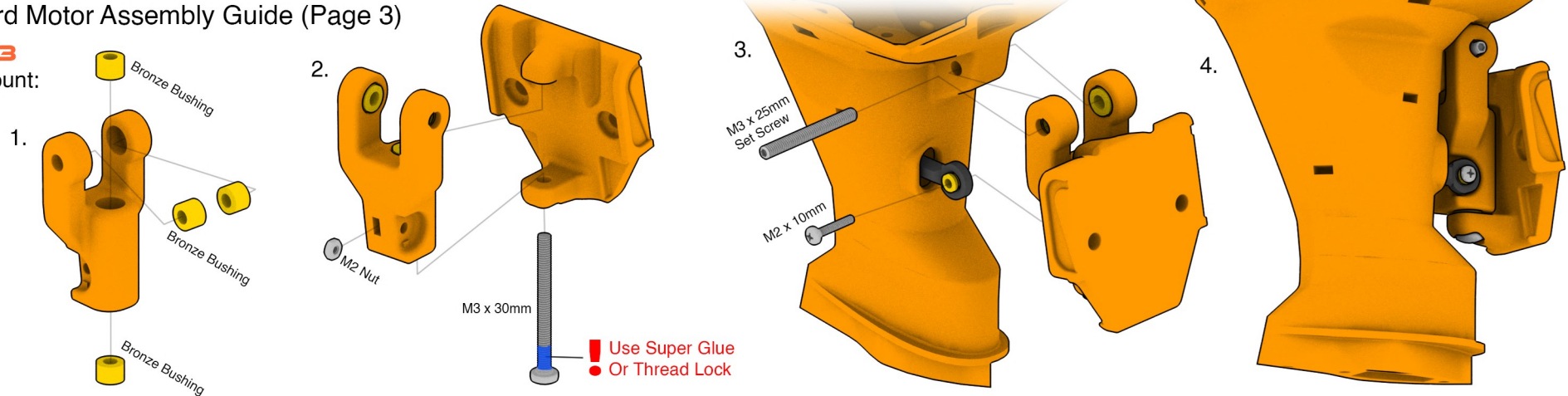
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STEP 3

Install Mount:



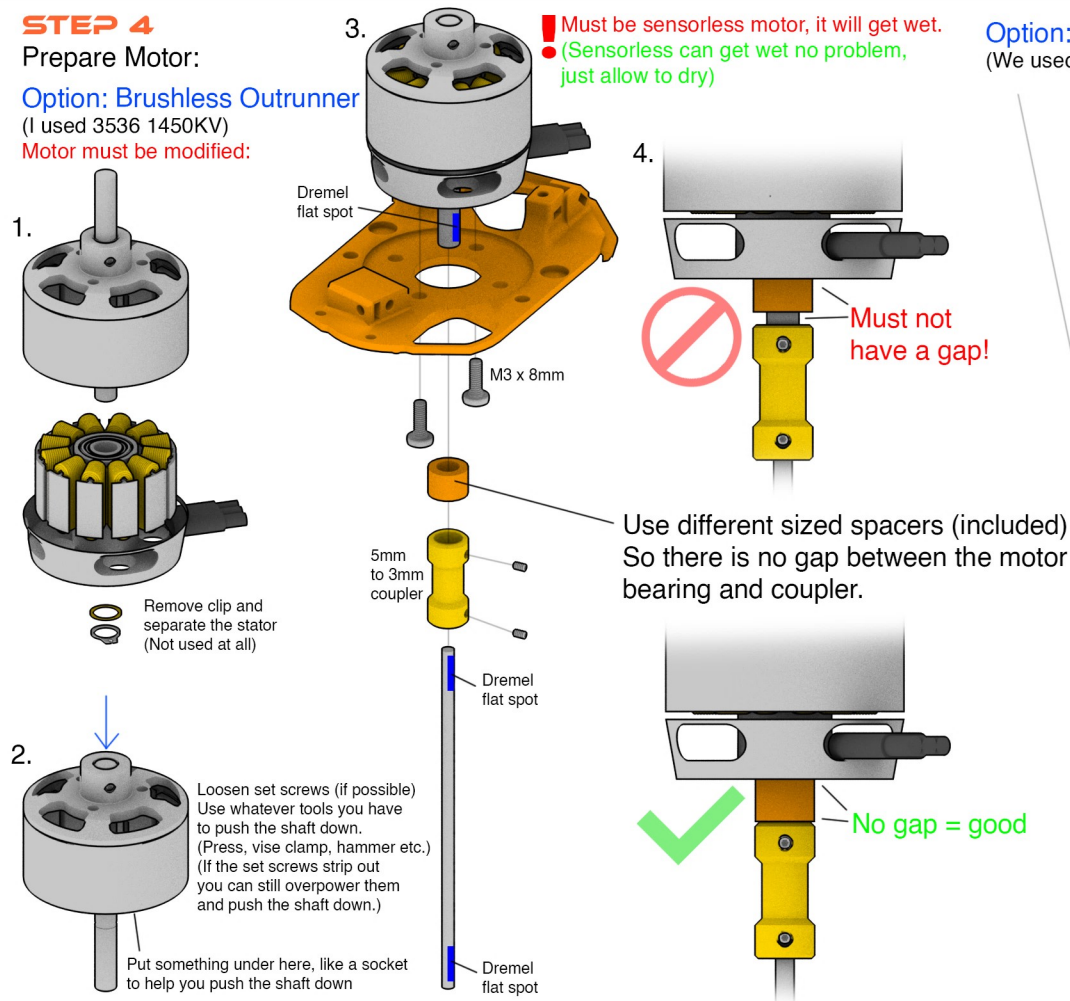
STEP 4

Prepare Motor:

Option: Brushless Outrunner

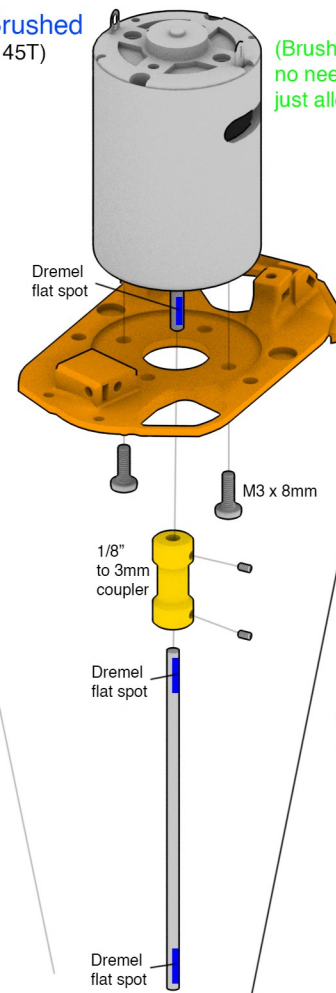
(I used 3536 1450KV)

Motor must be modified:



Option: 540 Brushed

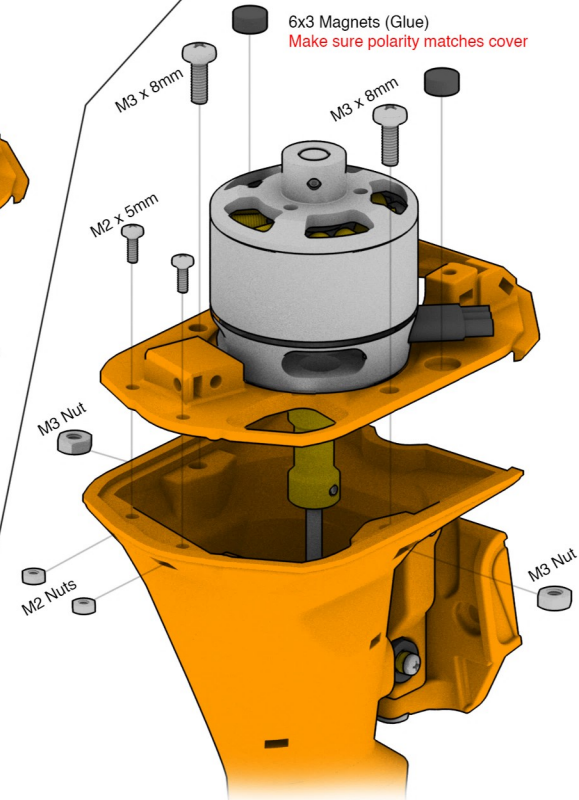
(We used 35T or 45T)



STEP 5

Connect Motor:

(Same for either motor)



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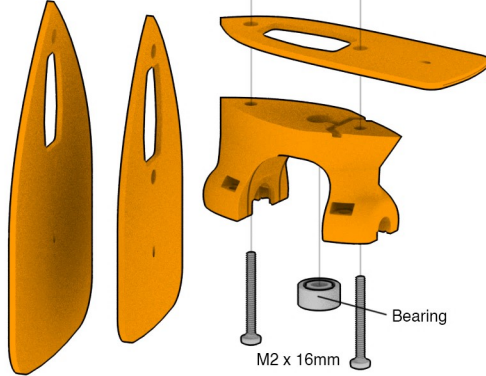
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STEP 6

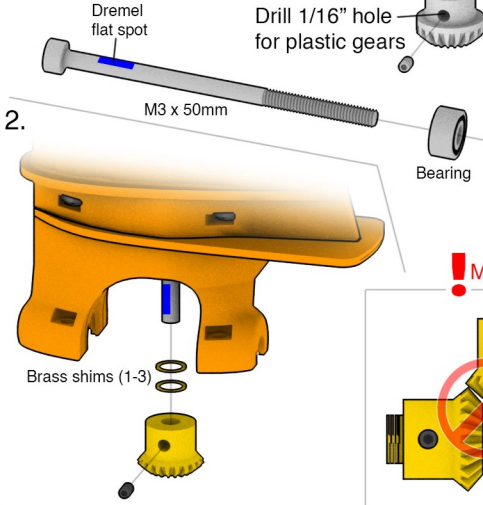
Lower End:

Option:

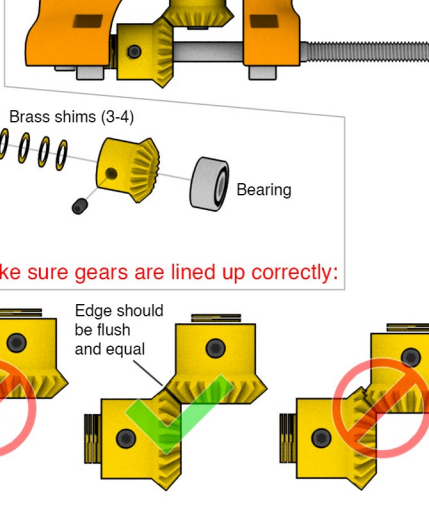
3 cavitation plates:
(Easy to make your own tool!)



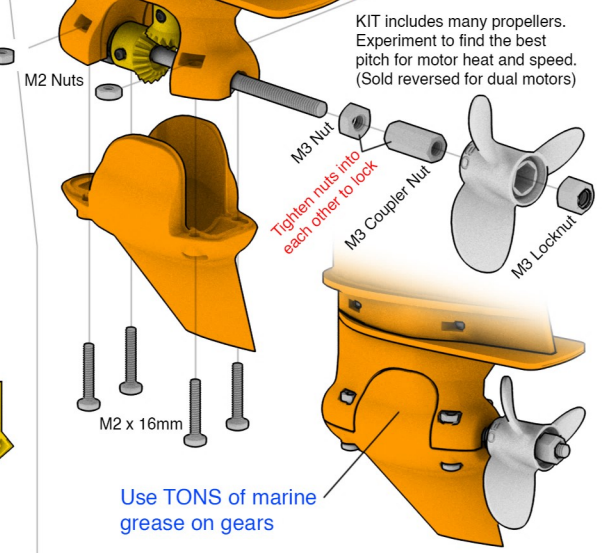
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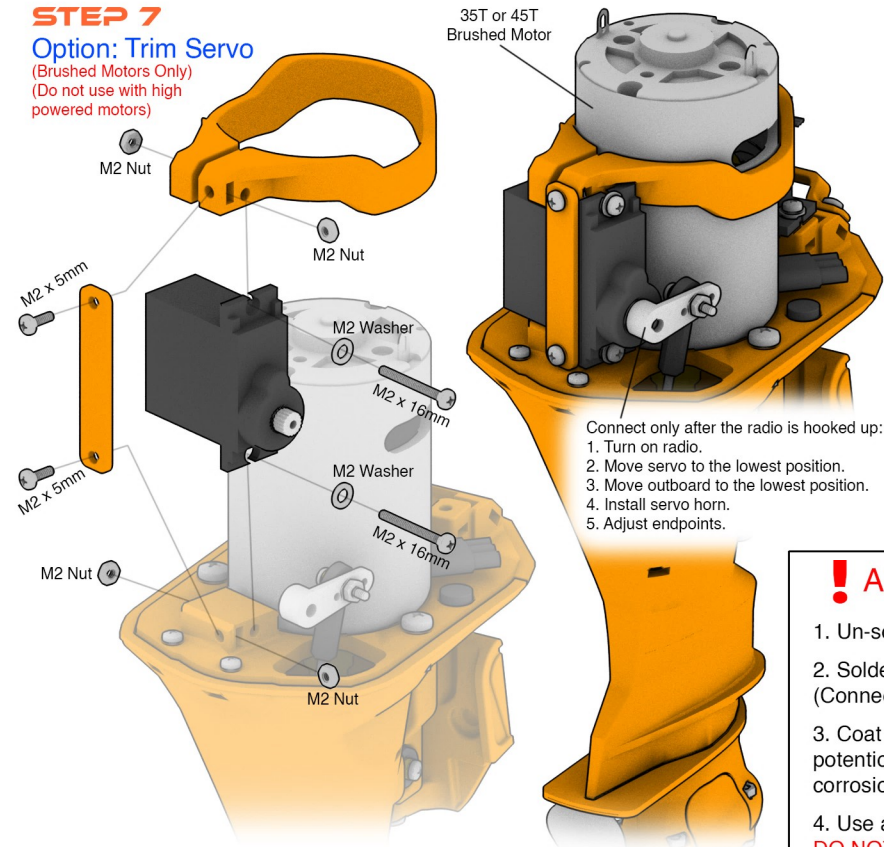
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STEP 7

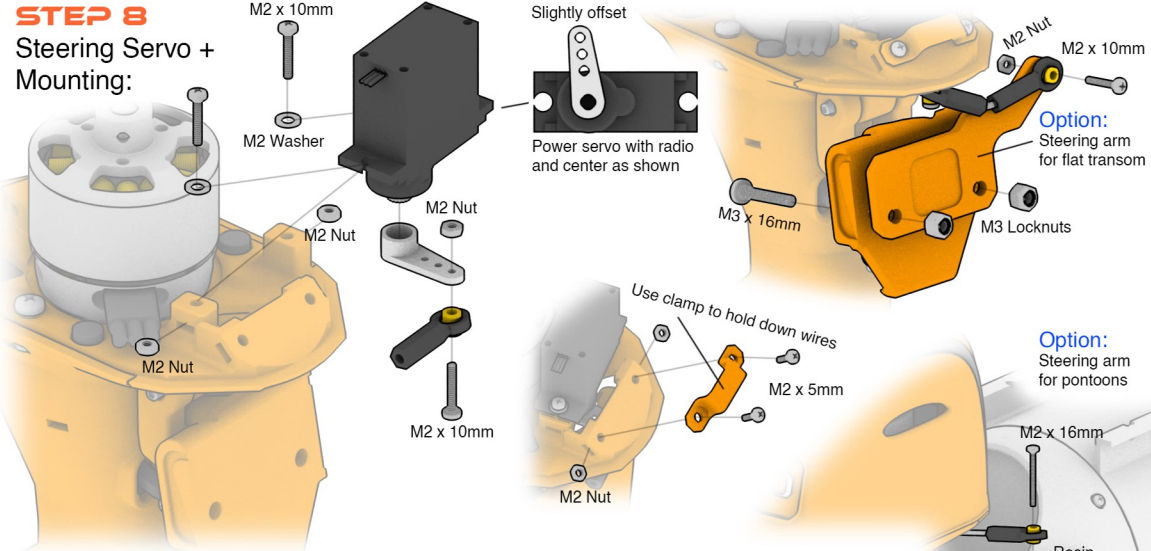
Option: Trim Servo

(Brushed Motors Only)
(Do not use with high powered motors)



STEP 8

Steering Servo + Mounting:



! All micro servos must be made waterproof:

1. Un-solder short wires
2. Solder extension wire inside.
(Connectors corrode easy.)
3. Coat inside of circuit board and potentiometer with grease, liquid tape or corrosionX.
4. Use a little grease on the servo output.
DO NOT grease the gears (too thick)



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