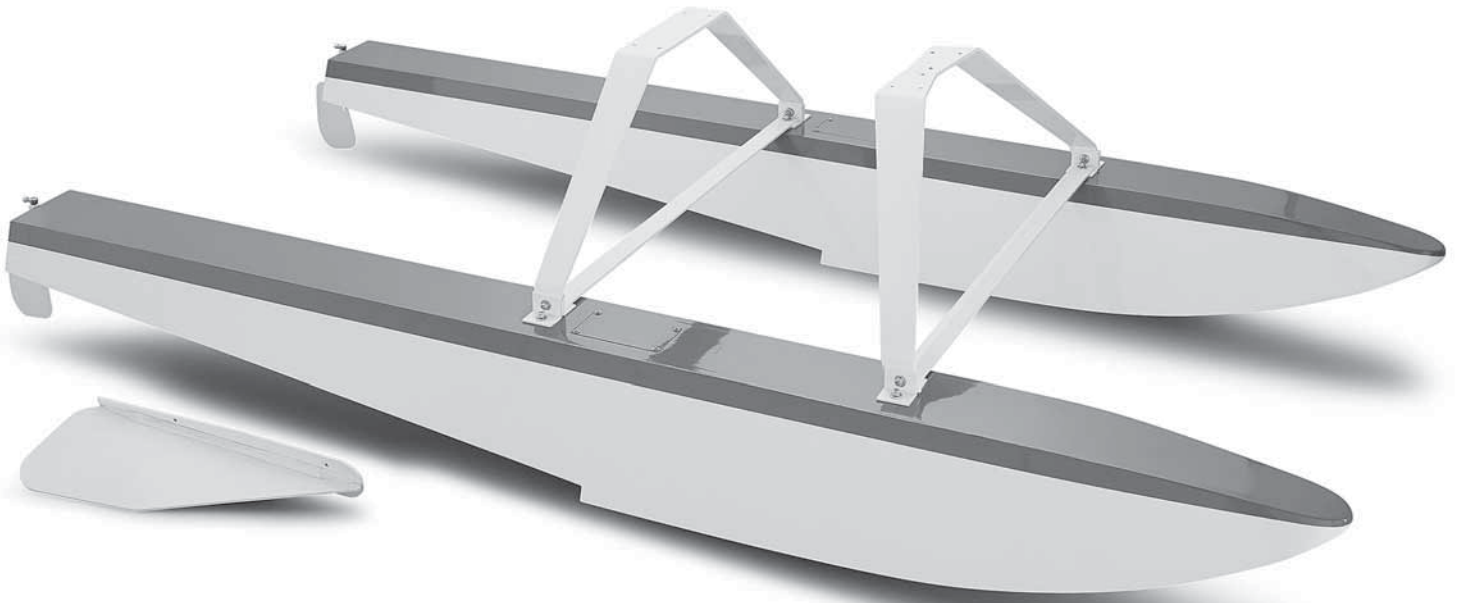


# AVISTAR 30cc EP ARF

# FLOAT SET



## INSTRUCTION MANUAL

### WARRANTY

**Great Planes® Model Manufacturing Co.** guarantees this kit to be free from defects in both material and workmanship at the date of purchase. This warranty does not cover any component parts damaged by use or modification. **In no case shall Great Planes' liability exceed the original cost of the purchased kit.** Further, Great Planes reserves the right to change or modify this warranty without notice.

In that Great Planes has no control over the final assembly or material used for final assembly, no liability shall be assumed nor accepted for any damage resulting from the use by the user of the final user-assembled product. By the act of using the user-assembled product, the user accepts all resulting liability.

**If the buyer is not prepared to accept the liability associated with the use of this product, the buyer is**

**advised to return this kit immediately in new and unused condition to the place of purchase.**

To make a warranty claim send the defective part or item to Hobby Services at the address below:

#### Hobby Services

3002 N. Apollo Dr. Suite 1  
Champaign IL 61822 USA

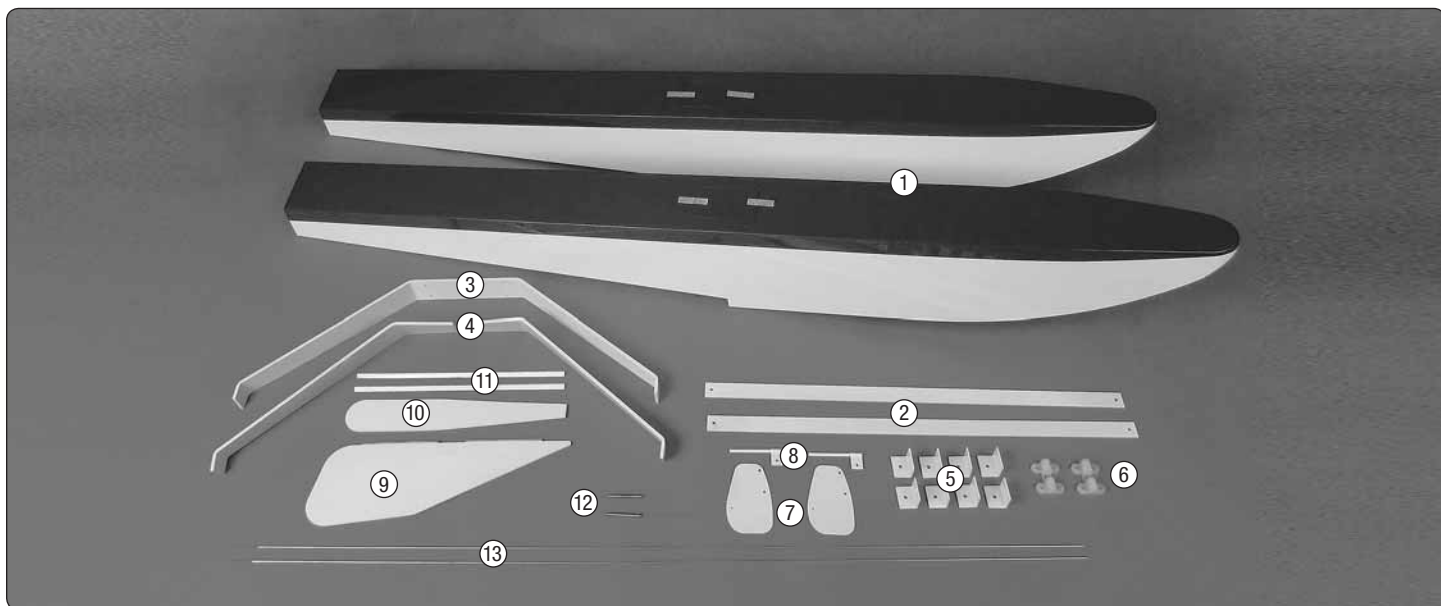
Include a letter stating your name, return shipping address, as much contact information as possible (daytime telephone number, fax number, e-mail address), a detailed description of the problem and a photocopy of the purchase receipt. Upon receipt of the package the problem will be evaluated as quickly as possible.

READ THROUGH THIS MANUAL BEFORE STARTING CONSTRUCTION. IT CONTAINS IMPORTANT INSTRUCTIONS AND WARNINGS CONCERNING THE ASSEMBLY AND USE OF THIS MODEL.



Champaign, Illinois  
(217) 398-8970, Ext 5  
airsupport@greatplanes.com

## KIT CONTENTS



- |                  |                      |                              |
|------------------|----------------------|------------------------------|
| 1. Floats        | 6. Nylon Bearings    | 11. Triangular Sticks        |
| 2. Cross Braces  | 7. Water Rudders     | 12. Water Rudder Spring      |
| 3. Aft Mount     | 8. Rudder Shafts     | 13. 2-56 x 36" Metal Pushrod |
| 4. Forward Mount | 9. Ventral Fin       |                              |
| 5. L - Brackets  | 10. Ventral Fin Base |                              |

### Parts Not Shown

- 4 6-32 nut
- 2 4-40 lock nut
- 2 Nylon steering arm
- 2 Nylon clevis
- 2 Silicone clevis keeper
- 4 #4 x 1/2" sheet metal screw
- 4 6-32 x 1/4" socket head cap screw
- 2 4-40 x 1/4" socket head cap screw
- 8 #2 x 3/8" sheet metal screw
- 12 6-32 x 5/8" socket head cap screw
- 6 6-32 x 3/4" socket head cap screw
- 8 4-40 x 3/4" socket head cap screw
- 4 5/32" Wheel collar
- 8 #4 lock washer
- 22 #6 flat washer
- 14 #4 flat washer
- 8 #2 flat washer
- 18 #6 lock washer

### REQUIRED FOR COMPLETION

- 2 Futaba S3001 Servos with at least 30 oz. of torque (FUTM0029)
- 4 oz. Pro Epoxy 6-minute (GPMR6042)
- Pro Thread Locking Compound (GPMR6060)
- Y-Harness (TACM2751)
- AquaCraft Radio Box Water Proof Tape (AQUB8606)

### Optional

- Duratrax Shoe Goo (DTXC2460)

### KIT INSPECTION

Before starting to build, inspect the parts to make sure they are of acceptable quality. If any parts are missing or are not of acceptable quality, or if you need assistance with the assembly, contact **Product Support**. When reporting defective or missing parts, use the part names exactly as they are written in the Kit Contents list.

#### Great Planes Product Support

3002 N Apollo Drive, Suite 1      Ph: (217) 398-8970, ext. 5  
 Champaign, IL 61822              Fax: (217) 398-7721

E-mail: [airsupport@greatplanes.com](mailto:airsupport@greatplanes.com)

### ORDERING REPLACEMENT PARTS

Replacement parts for the Great Planes Avistar 30cc ARF Floats are available using the order numbers in the Replacement Parts List that follows. The fastest, most economical service can be provided by your hobby dealer or mail-order company.

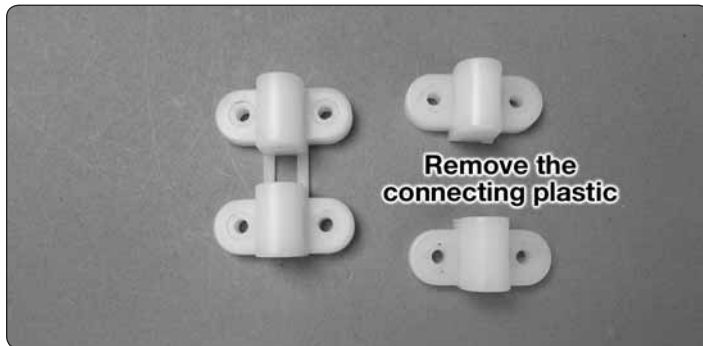
To locate a hobby dealer, visit the Great Planes web site at [www.greatplanes.com](http://www.greatplanes.com). Select "Where to Buy" in the menu across the top of the page and follow the instructions provided to locate a U.S., Canadian or International dealer.

## REPLACEMENT PARTS LIST

GPMA4563 Float (one only)  
 GPMA4564 Ventral Fin  
 GPMA4565 Float Mounting Set  
 GPMA4566 Water Rudder (one only)

## ASSEMBLE THE FLOATS

### Install the Water Rudder



1. Cut the nylon bearings apart.



2. Mount the nylon bearings.



3. Install the water rudder on the rudder shaft.

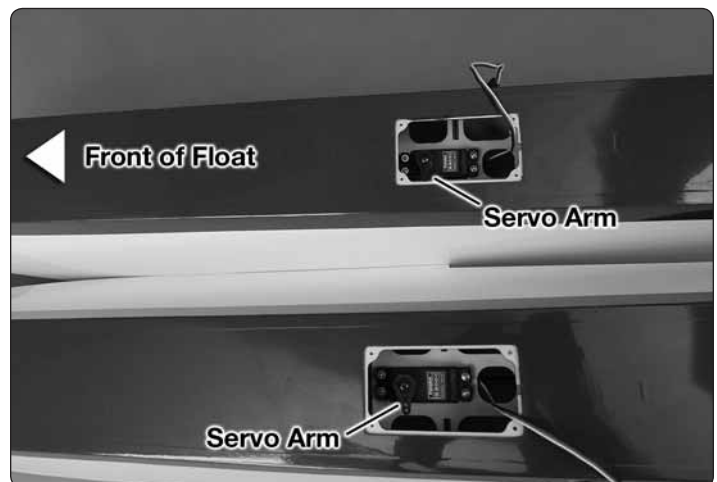


4. Assemble the nylon steering arm.

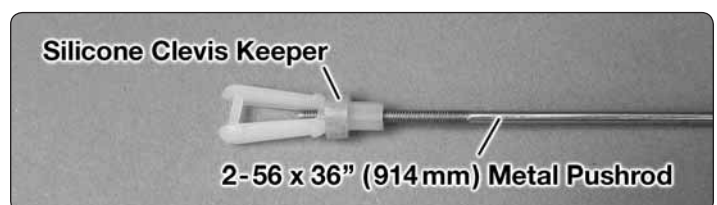


5. Temporarily install the water rudder on the float.

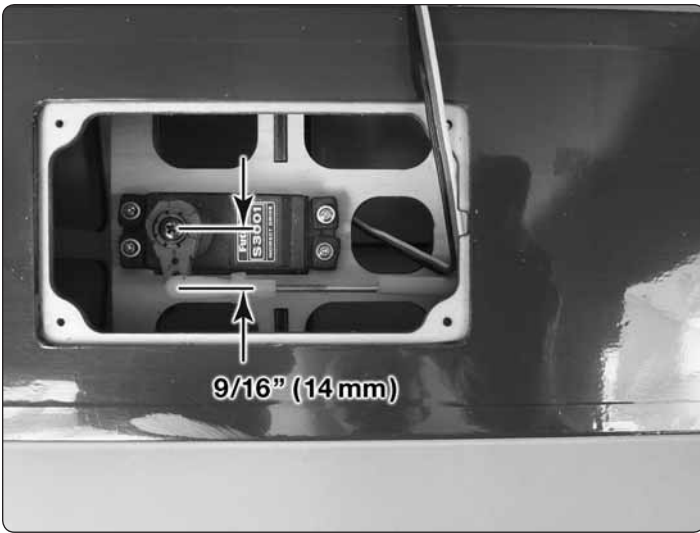
## Servo Installation



1. Install the servos. Connect the servos to a Y-harness on the rudder channel. Center the servo arms.



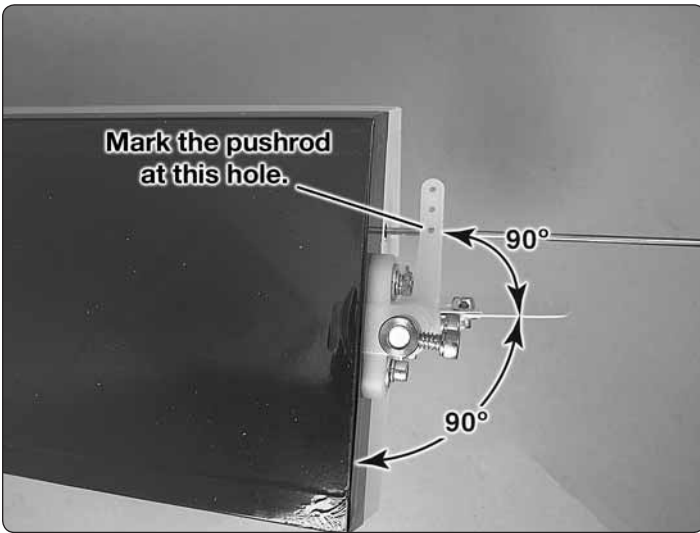
2. Install the nylon clevis (25 turns) onto the pushrod.



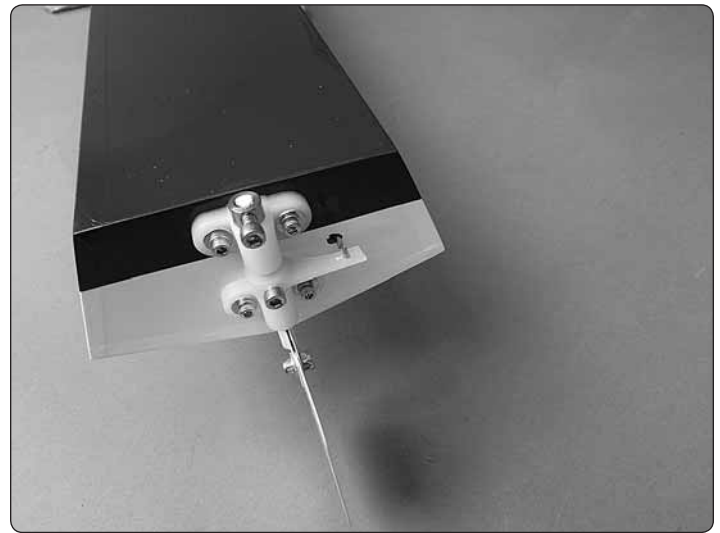
❑ 3. Insert the pushrod into the outer pushrod tube. Connect the clevis to the servo arm.



❑ 6. Remove the steering arm, insert the pushrod and re-install the steering arm.

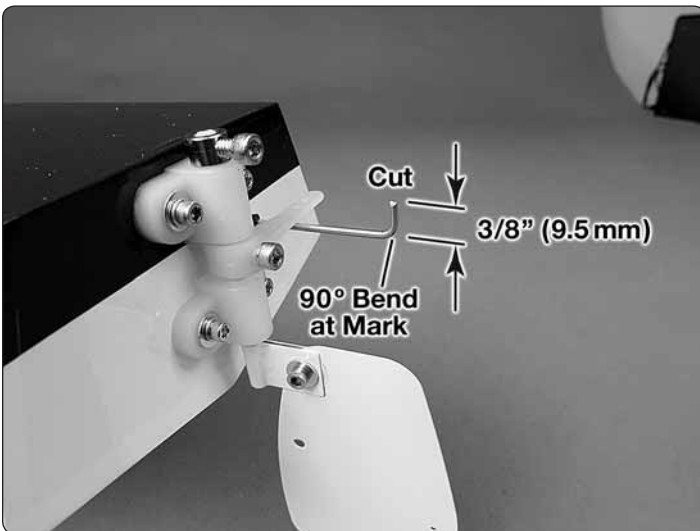


❑ 4. Make sure the servo arm is centered. Position the steering arm so that it is perpendicular to the water rudder.

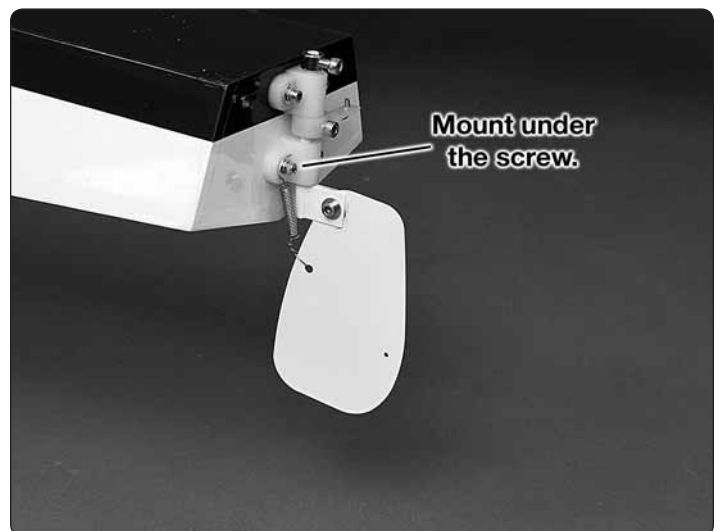


❑ 7. Trim off the excess steering arm.

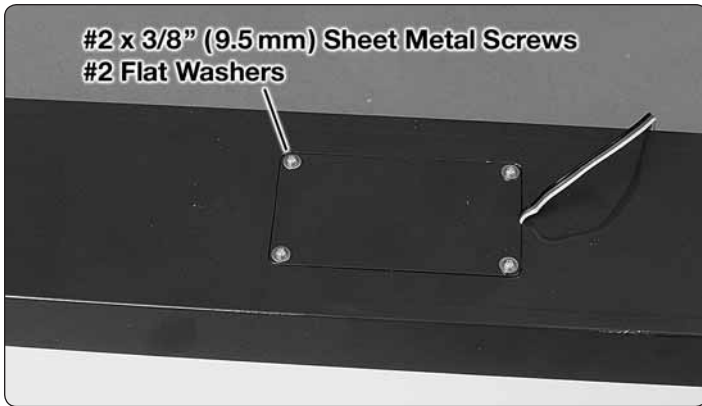
❑ 8. Finish installing the servo in the other float.



❑ 5. Bend the pushrod.



❑ 9. Install the water rudder spring.



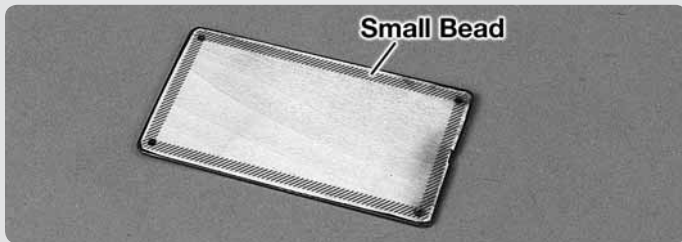
- 10. Install the servo hatch cover.
- 11. AquaCraft Radio Box Waterproof Tape can be placed around the edge of the hatch cover to make it watertight. Or RTV silicone sealant can be used to make a silicone gasket.

**EXPERT TIP**  
**EXPERT TIP**

**HOW TO MAKE A RUBBER GASKET**



Place a piece of thin plastic wrap over the opening.



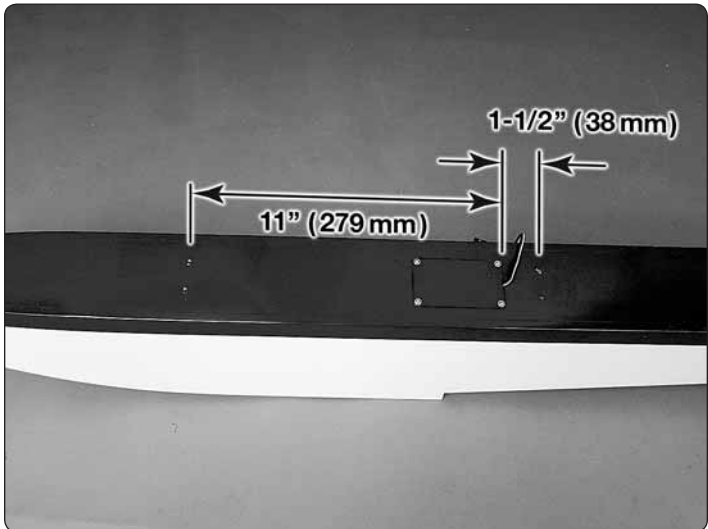
Apply a small bead of RTV around the underside of the hatch cover.



Place the hatch cover over the opening and place a weight on top of it. Wipe off any excess RTV from around the edge before it cures.

Once cured, remove the hatch cover and the plastic wrap and reinstall the hatch cover screws.

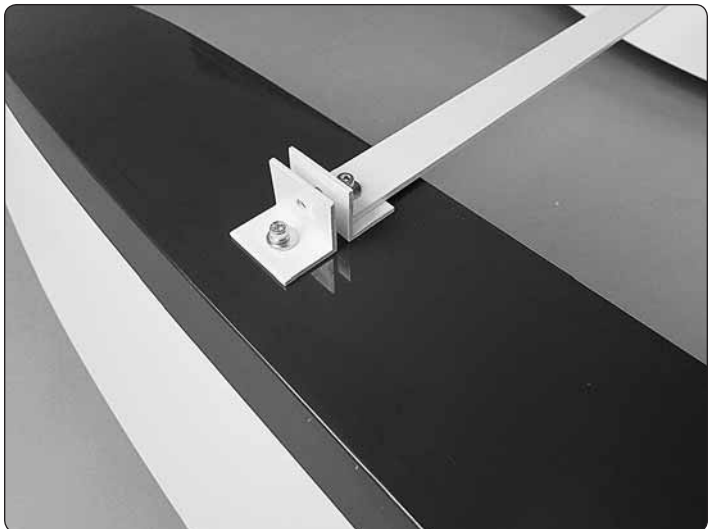
**Assemble the Float Mounting Gear**



- 1. Remove the covering from over the mounting holes.

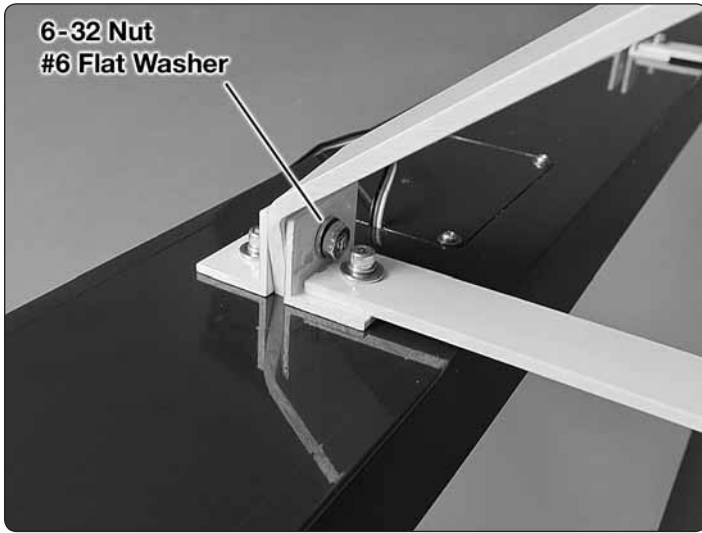
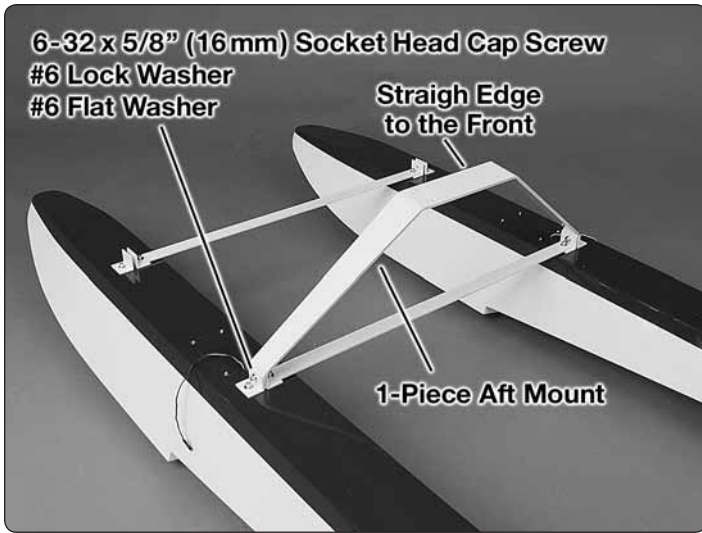


- 2. Install the cross braces on top of the L-brackets. Do not completely tighten the screws. Once the floats are installed on the fuselage and aligned, all the bolts will be tightened.

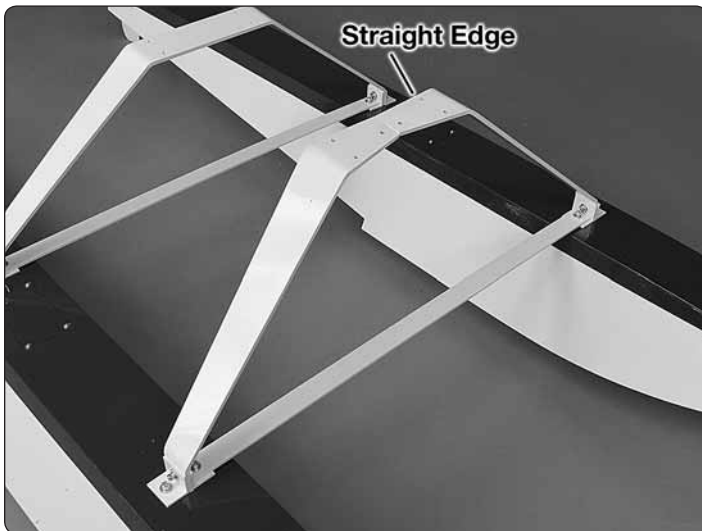


- 3. Install the four remaining L-brackets.

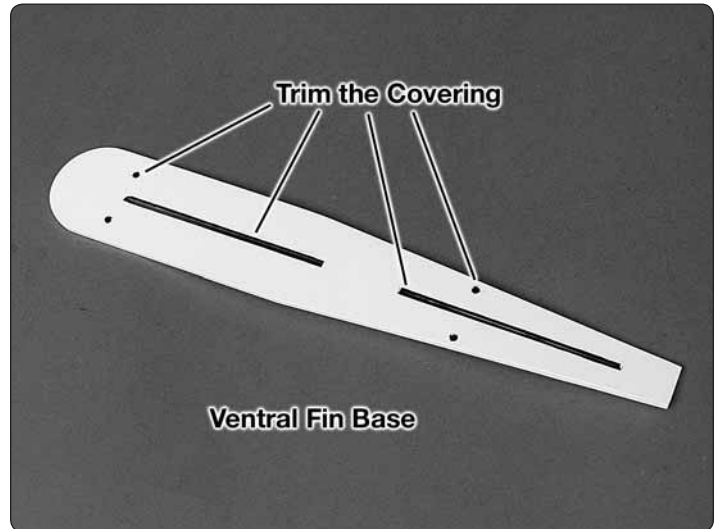
## Assemble the Vertical Fin



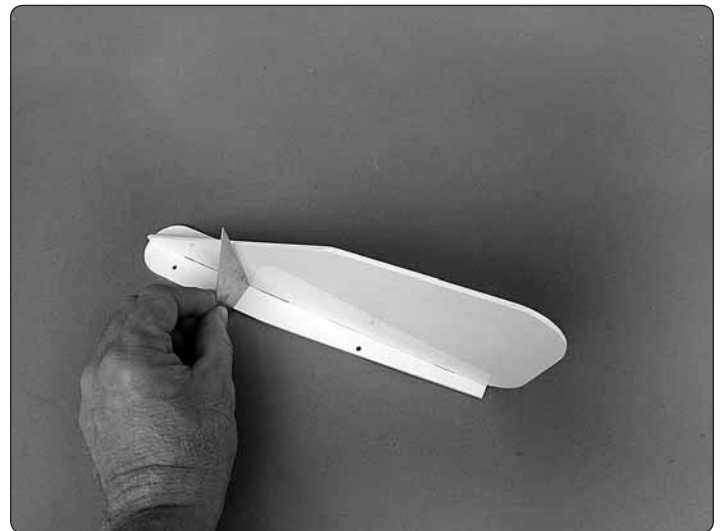
❑ 4. Install the aft mount.



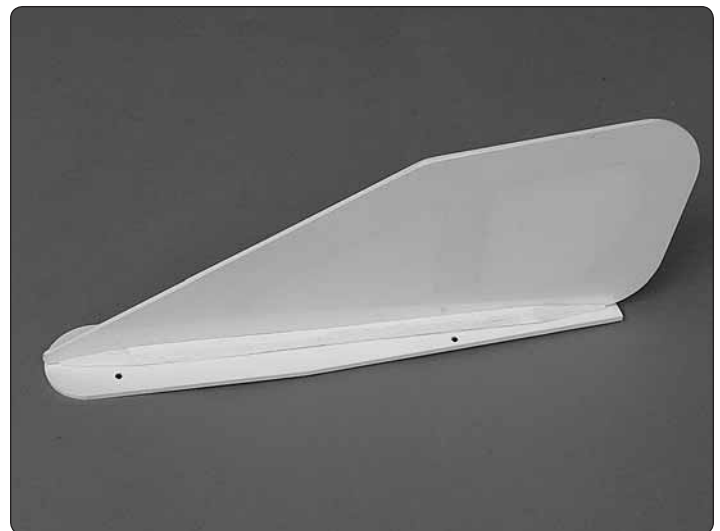
❑ 5. Install the two-piece forward mount.



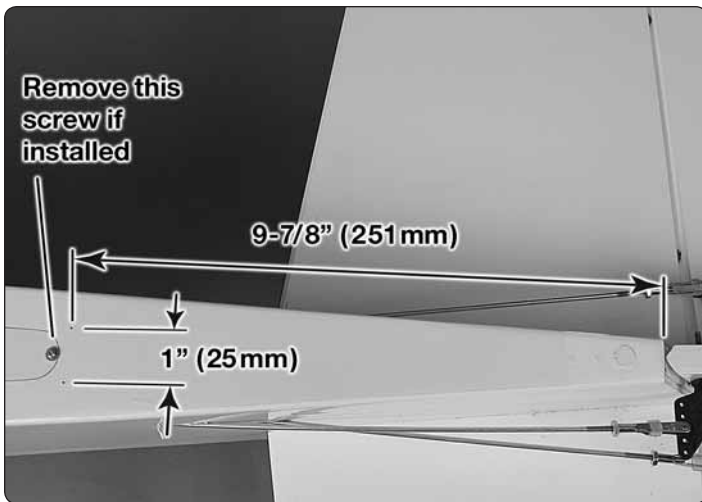
❑ 1. Trim the covering.



❑ 2. Use 6-minute epoxy to glue the ventral fin perpendicular to the ventral fin base. Wipe off any excess epoxy before it cures.



❑ 3. Glue the triangle sticks to the base and ventral fin.



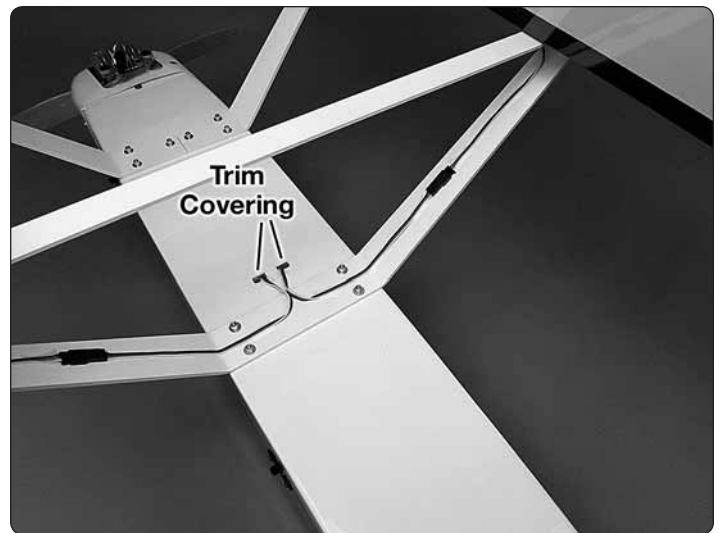
- 4. Locate the forward ventral fin mounting holes.
- 5. Position the ventral fin over the two forward holes and locate the aft holes.



- 6. Install the ventral fin.



- 7. Install the floats.
- 8. Now the previous screws can be tightened.



- 9. Route the water rudder Y-harness out the bottom of the fuselage. Use tape to secure the wires to the gear and to seal the holes in the fuselage.
- 10. Check that the water rudders move the same direction as the rudder and there is no binding.



**IMPORTANT:** Once the floats are installed, recheck the CG.

## FLIGHT TIPS

- Flaps are not needed to take off or land with the floats, but they will allow the plane to take off and land on smaller ponds.
- After flying, check that the MonoKote covering on the bottom of the floats has not been damaged. If the MonoKote covering has been damaged allow the wood to dry out and patch the float with new MonoKote covering.
- Do not use excessive speed when taxiing on the floats.
- Gradually apply power allowing the floats to get up on step before going to full power.
- We recommend using a plastic propeller when flying off of water. Wood propellers will break if water hits them while turning.

