Note

FLOAT SET ARF

(Almost Ready to Float)

for .40 to .60 size models
weighing 5 - 9 lbs
(2270 gr - 4090 gr)

Assembly
and
Operations Manual

Please review this manual thoroughly
Before assembling or Operating
the
VMAR FLOAT SET

Liability Disclaimer
It is important that the following liability disclaimer be

READ BEFORE ASSEMBLING OR USING THIS PRODUCT.

Model airplanes, model engines, model engine fuel, propellers and products such as the EASY 3D semi scale sport model can be hazardous if improperly used. Be cautious and follow all safety recommendations when using your Model . Keep hands, tools, clothing and all foreign objects well clear of engines when they are operating. Take particular care to safeguard and protect your eyes and fingers and the eyes and fingers of other persons who may be nearby. Use only a good quality propeller that has no cracks or flaws . Stay clear of the propeller and stay clear of the plane of rotation defined by the propeller.

The Manufacturer, Distributor, Retailer and/or other suppliers of this product expressly disclaim any warranties or representations, either expressed or implied, including but not limited to implied warranties of fitness for the purposes of achieving and sustaining remotely controlled flight.

In no event will the Manufacturer, Distributor, Retailer and/or other suppliers of this product have any obligation arising from contract or tort, or for loss of revenue or profit, or for indirect, special, incidental, consequential or other damages arising from the use of this product.

In purchasing and/or using this product, the user accepts all responsibility for its use and accepts all liability associated with such use.

Proceeding with assembly and use of this product Indicates
Agreement With and Acceptance of the Liability Disclaimer .

CAUTION.

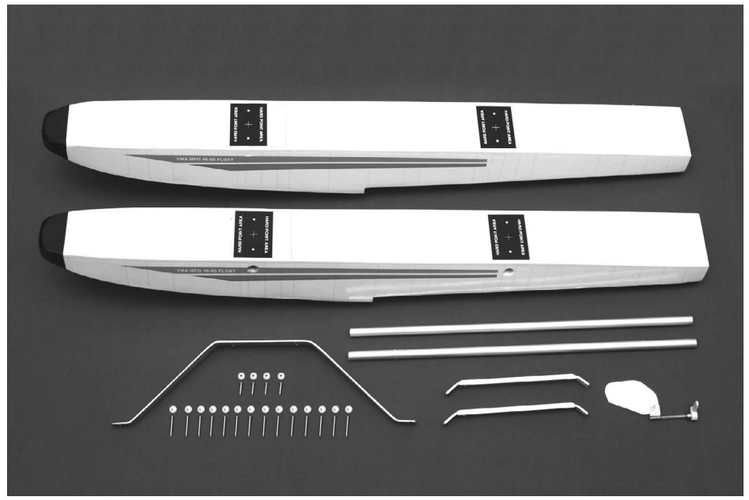
A Remote Control Model Aircraft is not a toy. It is a flying model that functions much like a full size airplane. If you do not assemble and operate this product properly you can cause injury to yourself and others and damage property. DO NOT FLY this model if you are not qualified.

You are solely responsible for the mechanical, aeronautical and electrical integrity of this model and it's structure, control surfaces, hinges, linkages, covering, engine, radio, wiring, battery and all other components check all components before and after each flight. Do not fly until it's right!

CHECK OFF COMPONENTS AND PARTS INCLUDED.

- ❑ - 02 floats (one left & one right)
- ❑ - 02 aluminum spreaders, 12mm diameter, 435mm length (1/2" diameter, 17-1/4" length)
- ❑ - 01 aluminum 6061-T6 front strut
- ❑ - 02 aluminum rear struts
- ❑ - 14 sheet metal screws 3x25mm
- ❑ - 16 beveled plastic washers
- ❑ - 02 sheet metal screws 3x15mm
- ❑ - 01 water rudder assembly

ABOUT WATERPROOFING.
These floats are foam filled to prevent sinking. Apply Silicone Sealer or Pacer Dap-A-Goo to the ends of the spreader bars and all screws before inserting. Repair and seal any punctures in the floats before using again.



Note

Note

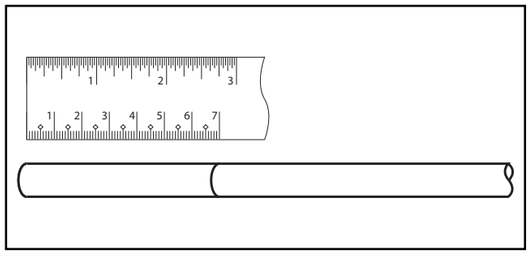
Step 1 INSTALLING THE SPREADERS INTO THE LEFT FLOAT

❑ **Step 1.1**
Using a ruler mark one end of the spreader using a water soluble non permanent felt tip pen as per Figure 1A.

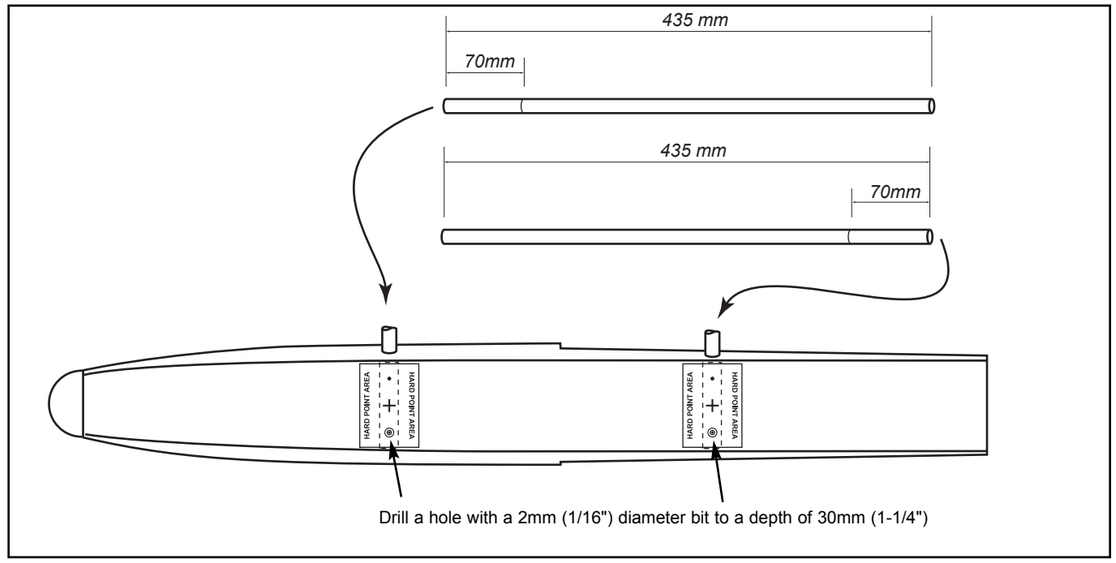
❑ **Step 1.1**
Insert the spreaders into the float as per Figure 1B.

❑ **Step 1.1**
Drill a hole with a 2mm (1/16") diameter bit to a depth of 30mm (1-1/4") as per Figure 1B.

❑ **Step 1.1**
Use 2 sheet metal screws (3x25mm) and plastic washers to secure the spreaders to the float.



1A. Mark spreaders 70mm (2-3/4") from either ends.



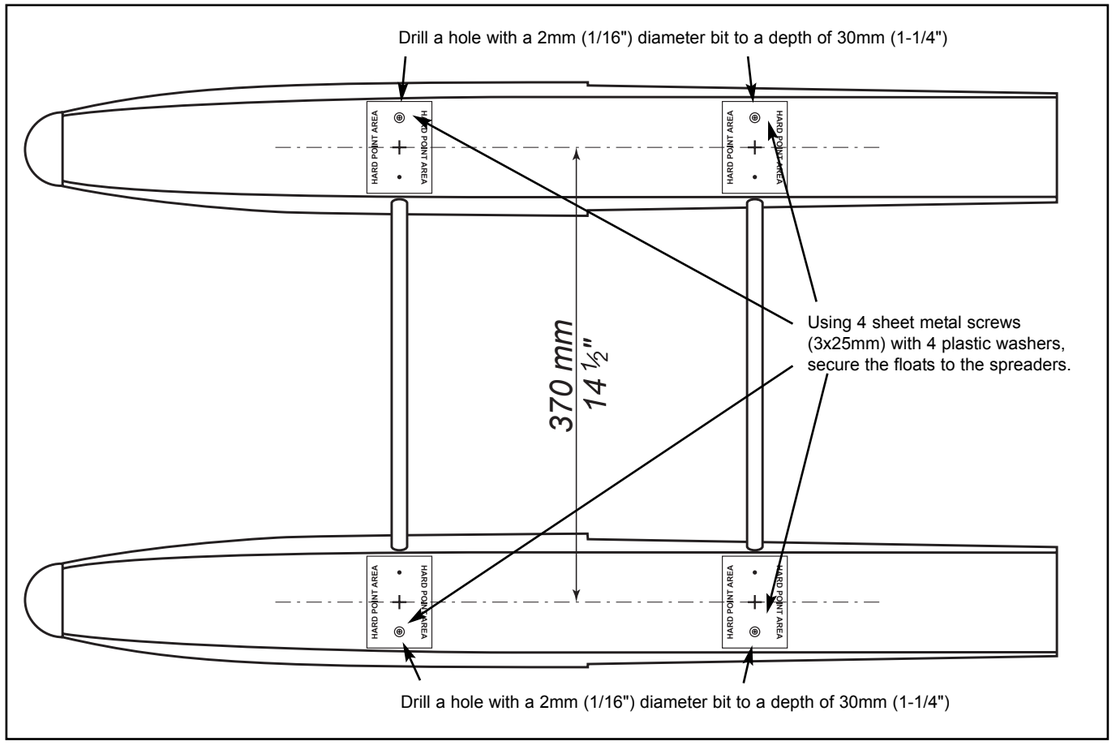
1B. Insert the 2 aluminum spreaders into the left float

Step 2 INSTALLING THE SPREADERS INTO THE RIGHT FLOAT

❑ **Step 2.1**
Insert the second float as shown in Figure 2A. Set the center-to-center distance ("spread") between the floats at 370mm (14-1/2") and make sure the spread is the same at the front as it is at the back.

❑ **Step 2.2**
Drill a hole with a 2mm (1/16") diameter bit to a depth of 30mm (1-1/4") as per Figure 2A

❑ **Step 2.3**
Use 2 sheet metal screws (3x25mm) and plastic washers to secure the spreaders to the float as per Figure 2A.

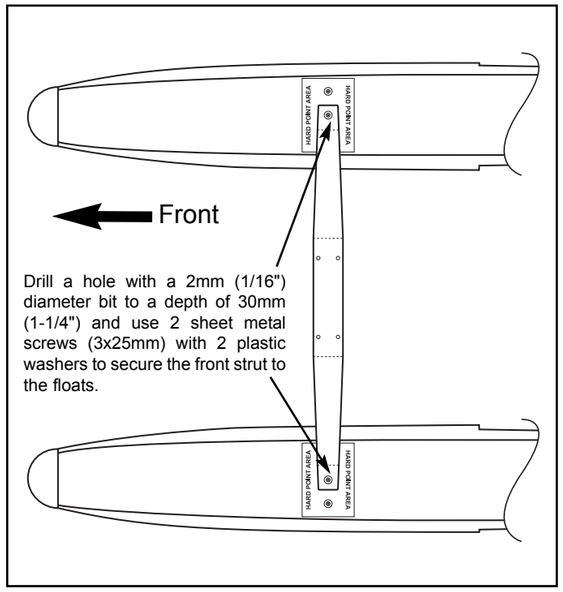


2A. Install the right float.

Step 3 INSTALLING THE FRONT STRUT TO THE FLOATS.

❑ **Step 3.1**
Drill a hole with a 2mm (1/16") diameter bit to a depth of 30mm (1-1/4") as per Figure 3A.

❑ **Step 3.2**
Use 2 sheet metal screws (3x25mm) and plastic washers to secure the front strut to the floats as per Figure 3A.



3A. Install the front strut.

CHECK CG BEFORE FLYING.
After adding floats to any model aircraft, check the CG again to ensure that the CG remains in the correct location for the model. Shift or add weight if necessary but do NOT fly unless the CG is correct.

REPAIRING PUNCTURES and DAMAGE:
These floats are foam filled to prevent sinking. Repair and seal any punctures in the floats before using again. Repair foam and wood sheeting with Epoxy only. Patch skin with peal and stick vinyl or heat activated film.

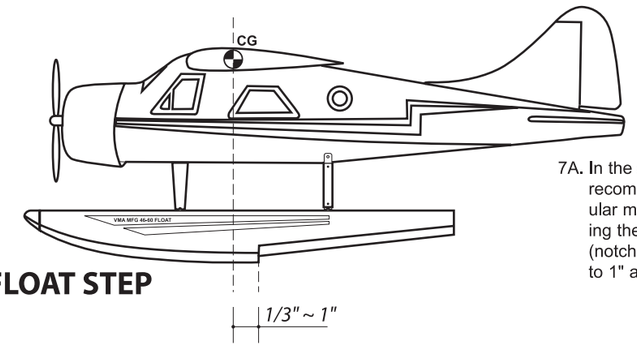
REPLACEMENT PARTS & ACCESSORIES:
In the event that you require replacement parts or accessories for your VMAR FLOATS please contact your retailer or order On-Line at www.richmondrc.com

MORE INFORMATION: For other information related to this product please see www.richmondrc.com

Note

VMAR™

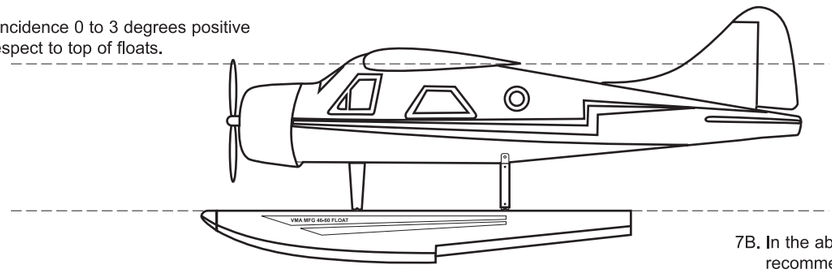
GENERAL MOUNTING INFORMATION



POSITIONING FLOAT STEP

7A. In the absence of detailed recommendations for a particular model, we suggest locating the float step (notch in bottom of float) 1/3" to 1" aft of the model CG.

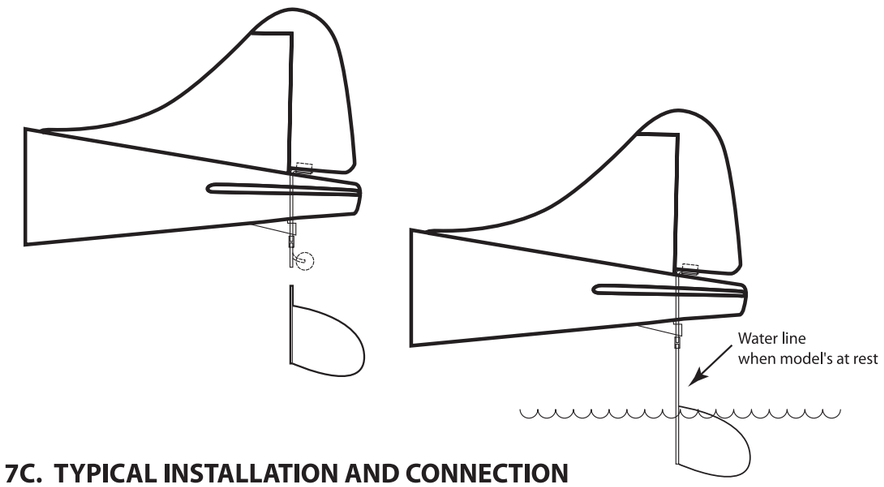
Wing Incidence 0 to 3 degrees positive with respect to top of floats.



FLOAT ATTACHMENT ANGLE

(The wing must have positive incidence compared to the float)

7B. In the absence of detailed recommendations for a particular model, we suggest having the wing incidence 0 to 3 degrees positive with respect to the top of the floats.



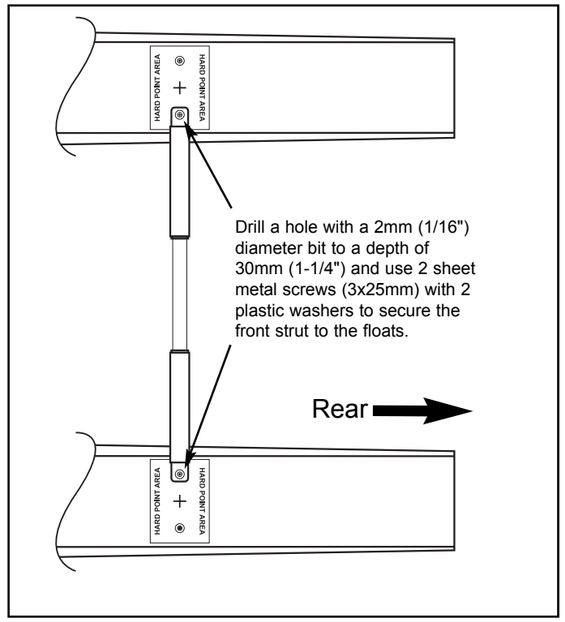
7C. TYPICAL INSTALLATION AND CONNECTION OF STEERABLE WATER RUDDER.

Step 4 INSTALLING THE REAR STRUTS TO THE FLOATS.

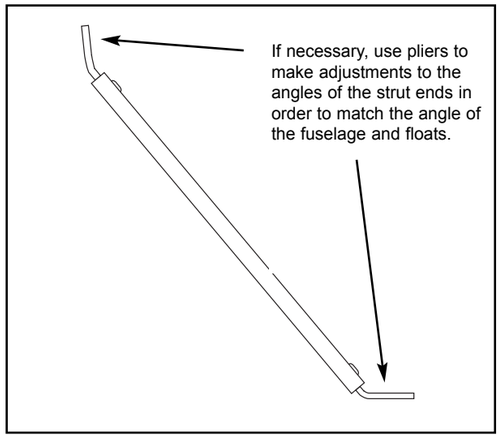
❑ **Step 4.1**
Drill a hole with a 2mm (1/16") diameter bit to a depth of 30mm (1-1/4") as per Figure 4A.

❑ **Step 4.2**
Use 2 sheet metal screws (3x25mm) and plastic washers to secure the rear struts to the floats as per Figure 4A.

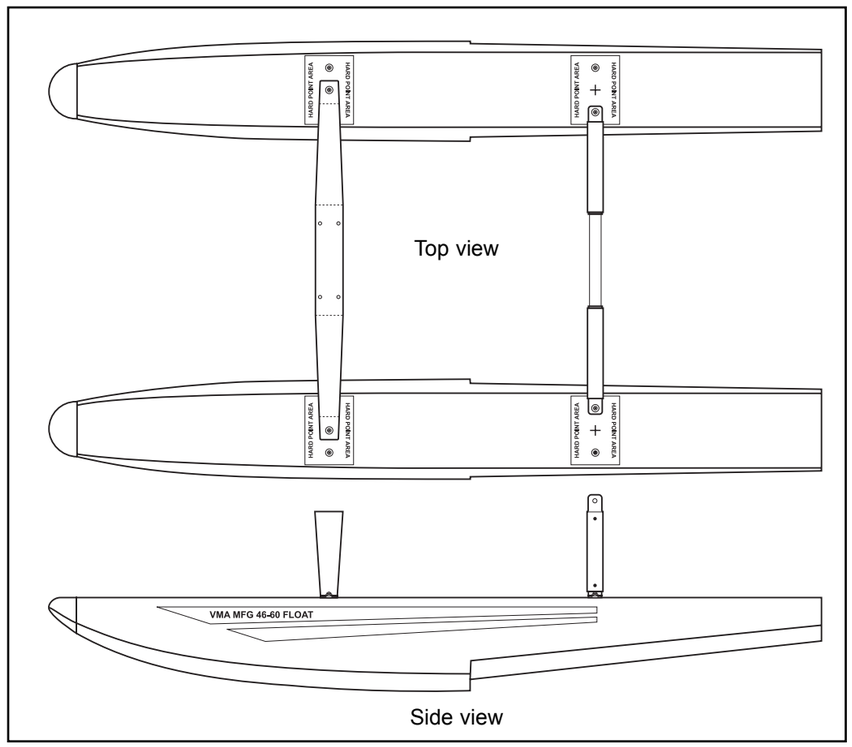
❑ **Step 4.3**
If necessary, use pliers to make adjustments to the angles of the strut ends in order to match the angle of the fuselage as per Figure 4B



4A. Install the rear struts.



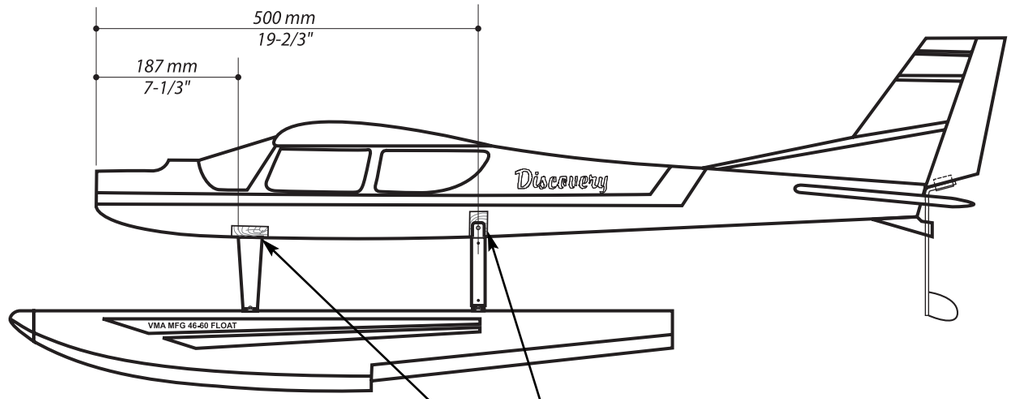
4B. Adjust the angles of the rear strut ends.



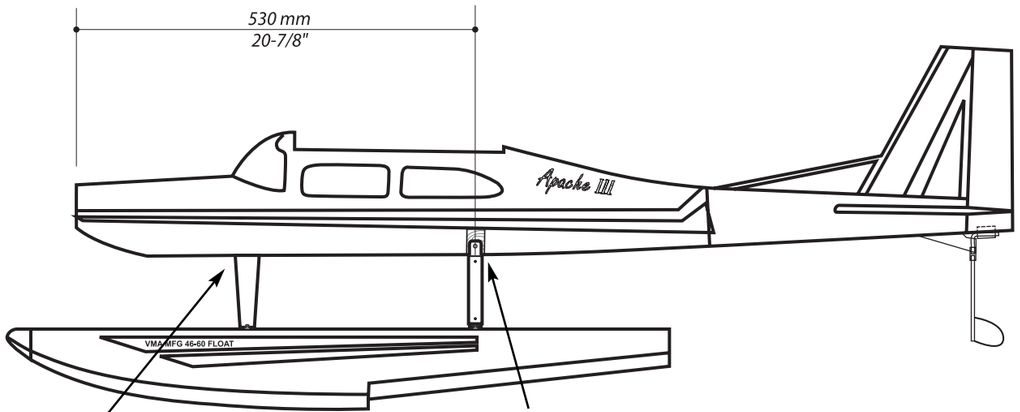
4C. Top and Side view of floats with struts attached.

Step 5 ATTACHING THE FLOATS TO YOUR MODEL.

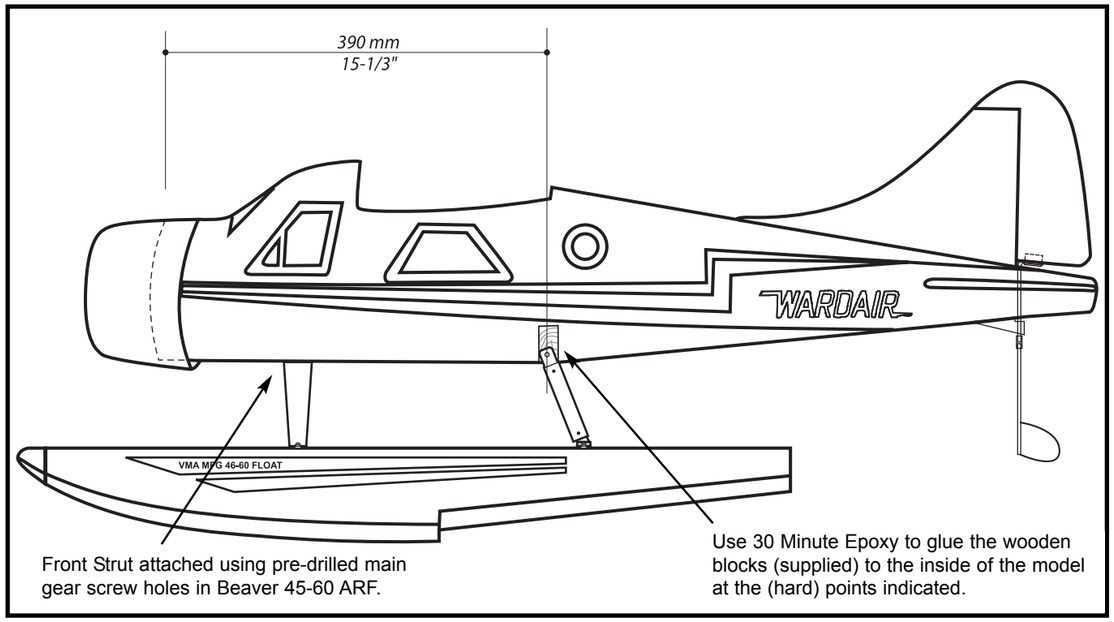
Please review the following typical attachment configurations for popular VMAR ARF's. On page 7 we provide some general information for other models. Some customization and experimentation may be required.



5A. Attaching Floats to the VMAR Discovery (and the Challenger and Hornet)

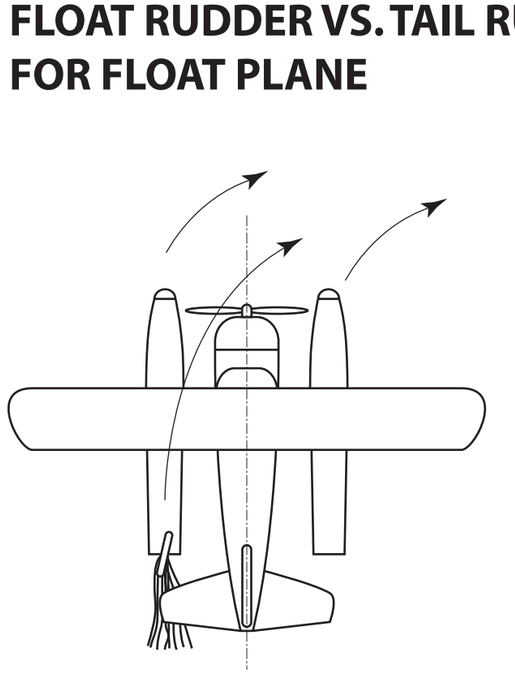


5B. Attaching Floats to the VMAR Apache III.

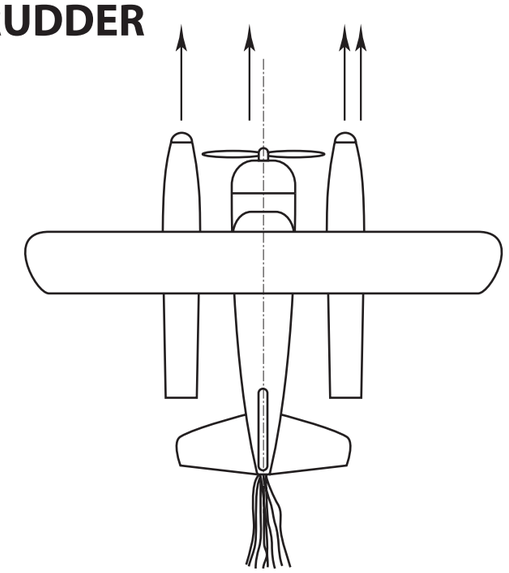


6A. Attaching Floats to the VMAR Beaver 45-60 ARF

FLOAT RUDDER VS. TAIL RUDDER FOR FLOAT PLANE



The water rudder helps steer the model when taxiing at slow speeds and in cross winds. Taxi slowly when near people, land or obstacles. Remember the water rudder takes time to react. Plan and begin any turns well in advance.



Take off and land into the wind. Avoid sharp deflections of the water rudder when at high speed on the water. Stay clear of weeds and debris and remove any weeds from the water rudder before takeoff.