

MANUAL

Please read thoroughly before installing or using this product.

The *Navigator* Water Rudder by RAZ™

Designed for use with the HobbyZone® Super Cub LP on floats



Eliminate fighting for control of your HobbyZone Super Cub LP on floats while taxiing it on the water. Experience accurate, predictable, Navigator Water Rudder, control!

The *Navigator* Water Rudder was designed for use on your HobbyZone Super Cub LP, (HBZ7300, HBZ7380 & HBZ7400) while navigating it across the water using the HobbyZone Float Set: HBZ7390.

Intended Use:

This product was designed for the installation and use described herein. Other

uses for this product are at the discretion of the user and not warranted or supported by HOBBY ZONE.com.

Build Skill Level: Beginner; familiar and comfortable with using basic hand and electric powered tools.

Pilot Skill Level: Intermediate; capable of flying the Hobbyzone Super Cub LP on floats and navigating it on the water.

IMPORTANT Product Suitability and Operating information:

Please read this manual in its entirety before installation of the *Navigator* Water Rudder on the HobbyZone Super Cub LP. If you are unsure of any aspect of the contained information, or your ability to assemble and install the *Navigator* Water Rudder, or use it successfully on your HobbyZone Super Cub LP on floats, call HOBBY ZONE.com at **888-953-9663** for further assistance, or to return the unused *Navigator* Water Rudder for a full refund within 30 days.

- 1) The pilot must ensure that he/she has an adequate power system in the HobbyZone Super Cub LP before installing and/or using the *Navigator* Water Rudder. The motor must be in good condition, as new, the battery fully charged, and providing sufficient discharge, in use, to supply the required power to make the aircraft "Rise Off Water" (ROW). The pilot must use the 10X8 propeller supplied with the HobbyZone Float Set. An underpowered, or improperly propped, aircraft will not ROW when using the *Navigator* Water Rudder. Underpowered, or inadequately propped aircraft, are not the responsibility of HOBBYZONE.com .
- 2) The HobbyZone Float Set, HBZ7390, must be in good condition with a clean, smooth, bottom surface and installed

per the instructions included with the float set.

Package Contents:

- 1ea. **Navigator** Water Rudder
- 1ea. Collar
- 1ea. 05 Allen Wrench
- Manual

Tools Required:

- Ruler
- Drill
- 1/16" Drill Bit
- Wire Cutters (optional)

Installation Instructions

Locate the position and drill a 1/16" hole in the plastic about 1/4" from the bottom of the rudder and 1/4" from the leading edge of the rudder as shown in the photo below.



Insert the rudder shaft in the hole on the left side of the rudder and place the collar on the end of the shaft. Hold the collar and the rudder shaft tightly against the rudder and tighten the set screw in the collar with the supplied Allen Wrench. Adjust as required to maintain a tight fit of the water rudder shaft against the flying rudder. See photo below.



Place the water rudder shaft between the tail wheel and the tail wheel gear as shown below. (Loosening, or tightening, of the cap on the tail wheel shaft may be required for a good fit.) This secures the rudder in place while in use. A zip tie, (not included) or similar item, can be used for a more permanent installation. See photo above.



View the assembly from above and ensure the rudder shaft and paddle are in alignment with the flying rudder as it appears in the photo below. Cut off excess rudder shaft beyond the collar as desired. See photo next page.



When transporting the aircraft, a small screw (not provided), placed on the left side fuselage in the plastic tail wheel bracket, can hold the water rudder out of the way as shown in photo below.

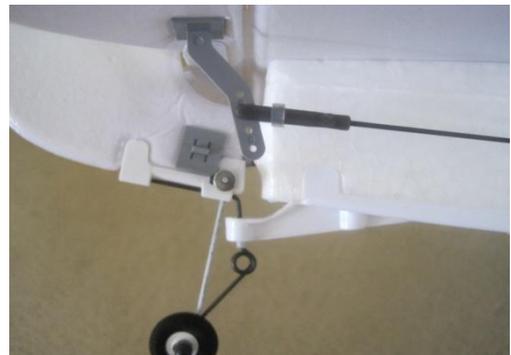


You are now ready to navigate your Hobbyzone Super Cub LP on the water.

Operating Instructions and Tips:

- 1) Taxiing too fast, crosswinds, water current, or rough water, may induce a lack of control as the rudder may come out of the water, or lose the ability, to accurately steer the aircraft.
- 2) The **Navigator** Water Rudder creates drag in the water, which, as the aircraft speed increases and comes on step, may have an effect on the ability for the aircraft to ROW (Rise Off Water). Some additional “up” elevator throw may be

required to become airborne. Moving the elevator control rod up one hole, or more, toward the horizontal stabilizer, on the control horn, may also be required to increase the elevator travel. Be advised that the sensitivity of the elevator, while in flight, will be impacted, resulting in more radical pitching, in the elevator function. See photo below.



- 3) The **Navigator** Water Rudder shaft and rudder paddle were designed to keep weight and drag at a minimum. As a result of the weight and drag saving design; an occasional bend may occur from use or handling. If that happens, gently bend the component back into the original shape. Undue pressure while bending the **Navigator** Water Rudder components may result in damage.
- 4) It is important to check, before each flight, the alignment of the **Navigator** Water Rudder: When viewing down, from above the flying rudder, the water rudder is in line with the flying rudder. Carefully bend the water rudder back into position to achieve alignment as necessary. (see photo next page)



- 5) If you choose to use a screw (not included) to help secure the **Navigator** Water Rudder, adjacent to the fuselage, for transportation and/or storage, **the aircraft cannot be flown with the Navigator Water Rudder in the stored position.** The flying rudder will not move adequately to control the aircraft in the air when the **Navigator** Water Rudder is in the stored position. See photo below.



TIP:

When flying an aircraft off of the water it is recommended to have a reliable method of retrieving the aircraft from a stranded situation. Observe all water safety procedures when operating or retrieving your aircraft off the water.

Parts List:

RAZ0000 **Navigator** Water Rudder
DUB137 Collar
RAZ0000 .05 Allen Wrench

HOBBY ZONE.com warranties the **Navigator** Water Rudder against defects in materials and workmanship. You may return the unused **Navigator** Water Rudder in its original packaging within 30 days for a full refund.

Contact HOBBYZONE.com for assistance with the **Navigator** Water Rudder. **888-953-9663**