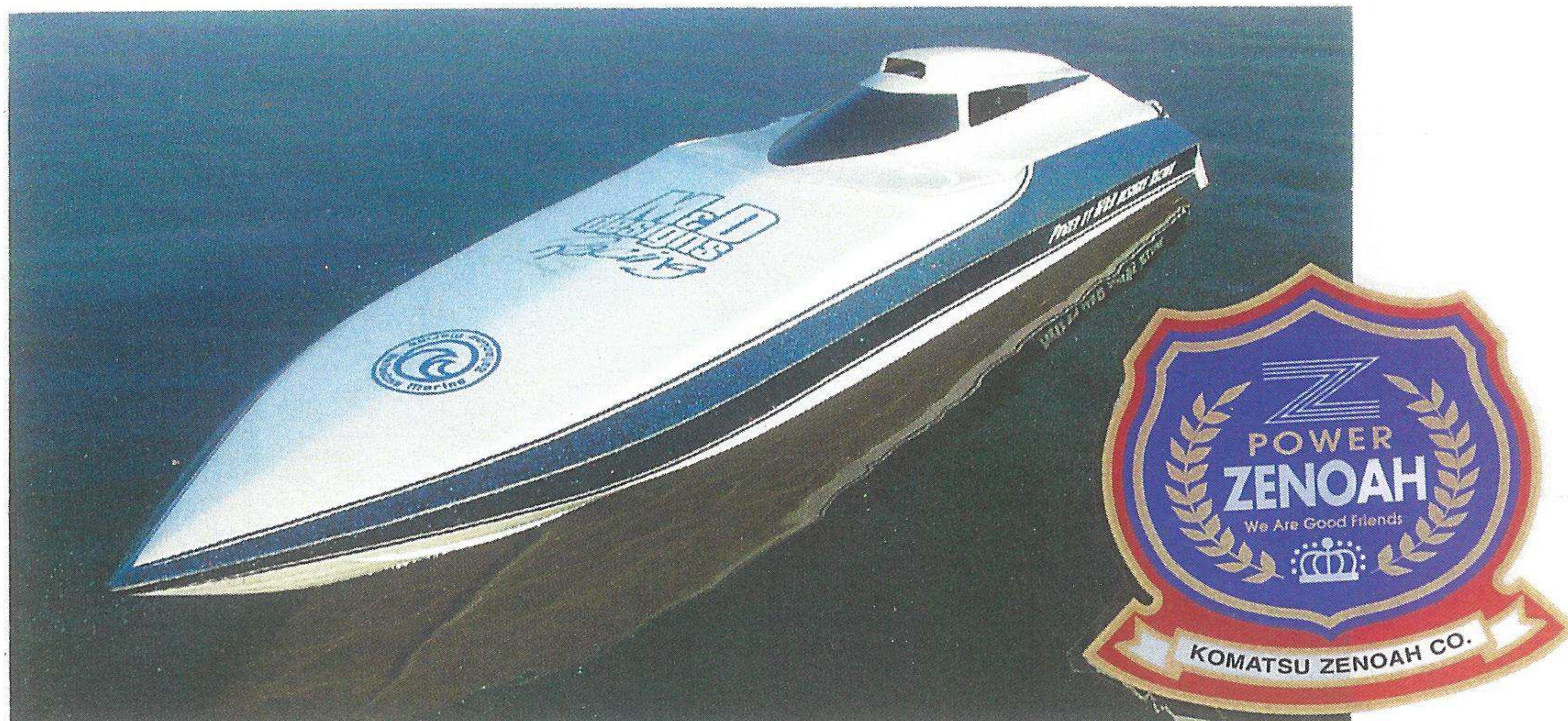


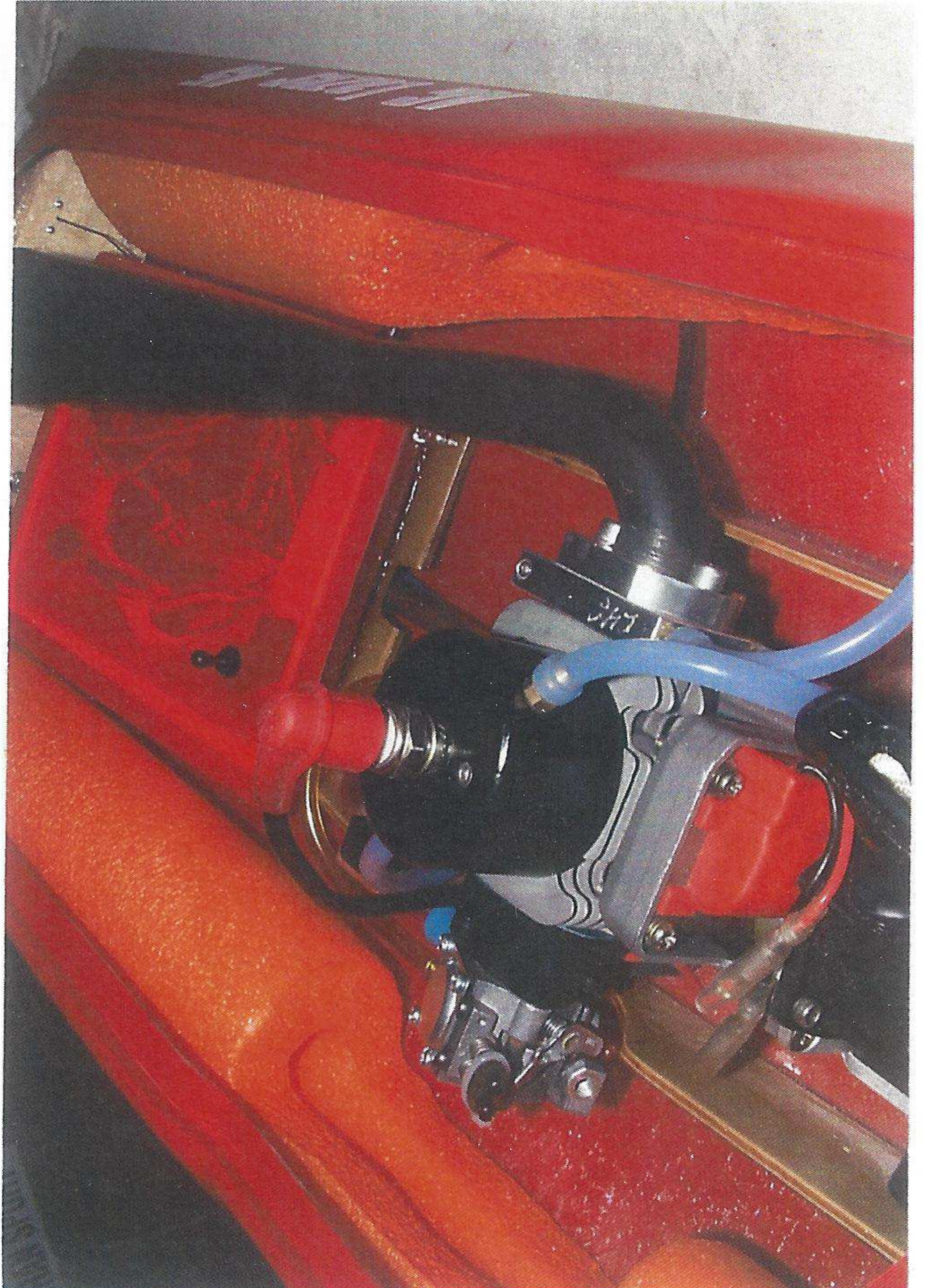
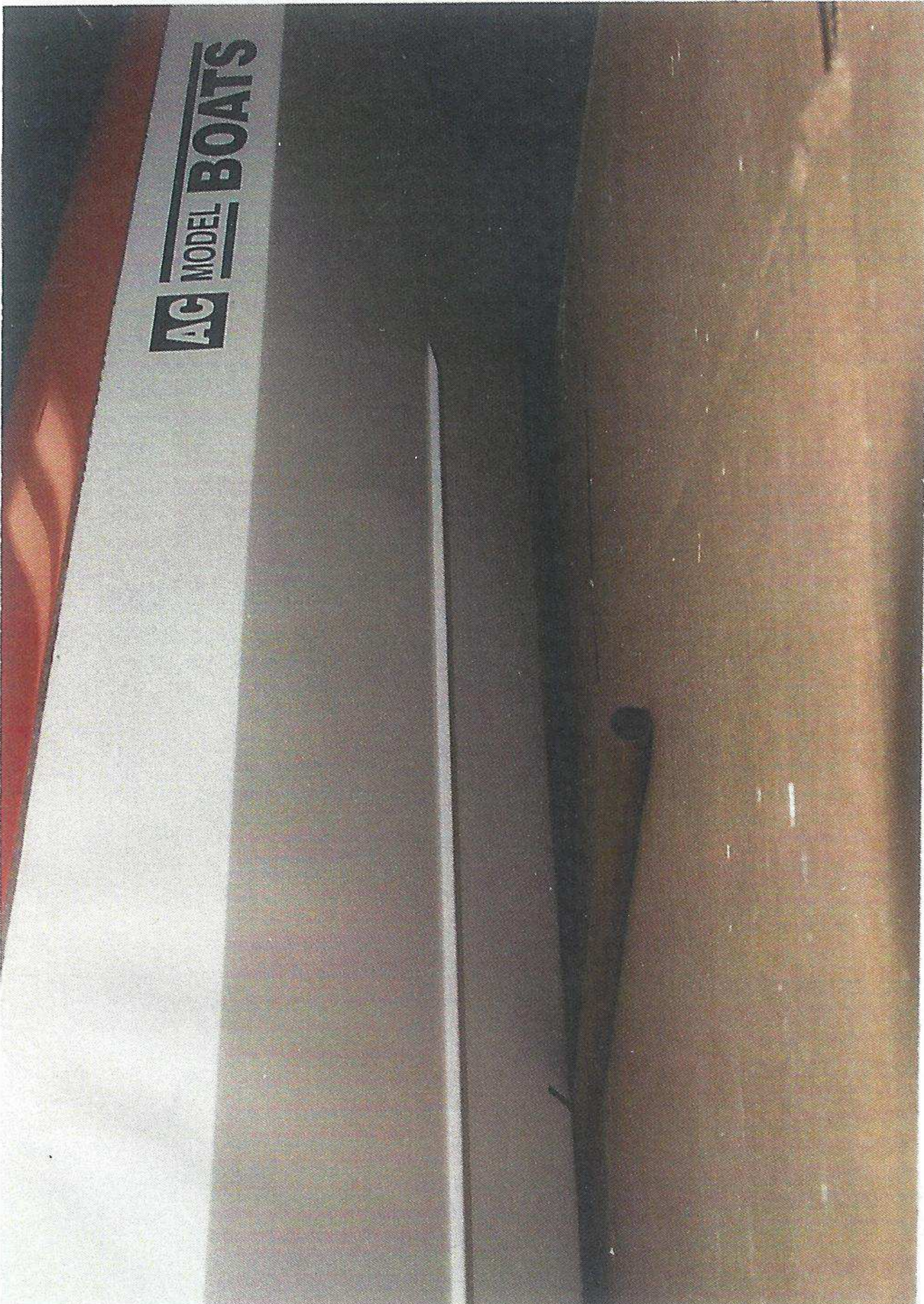
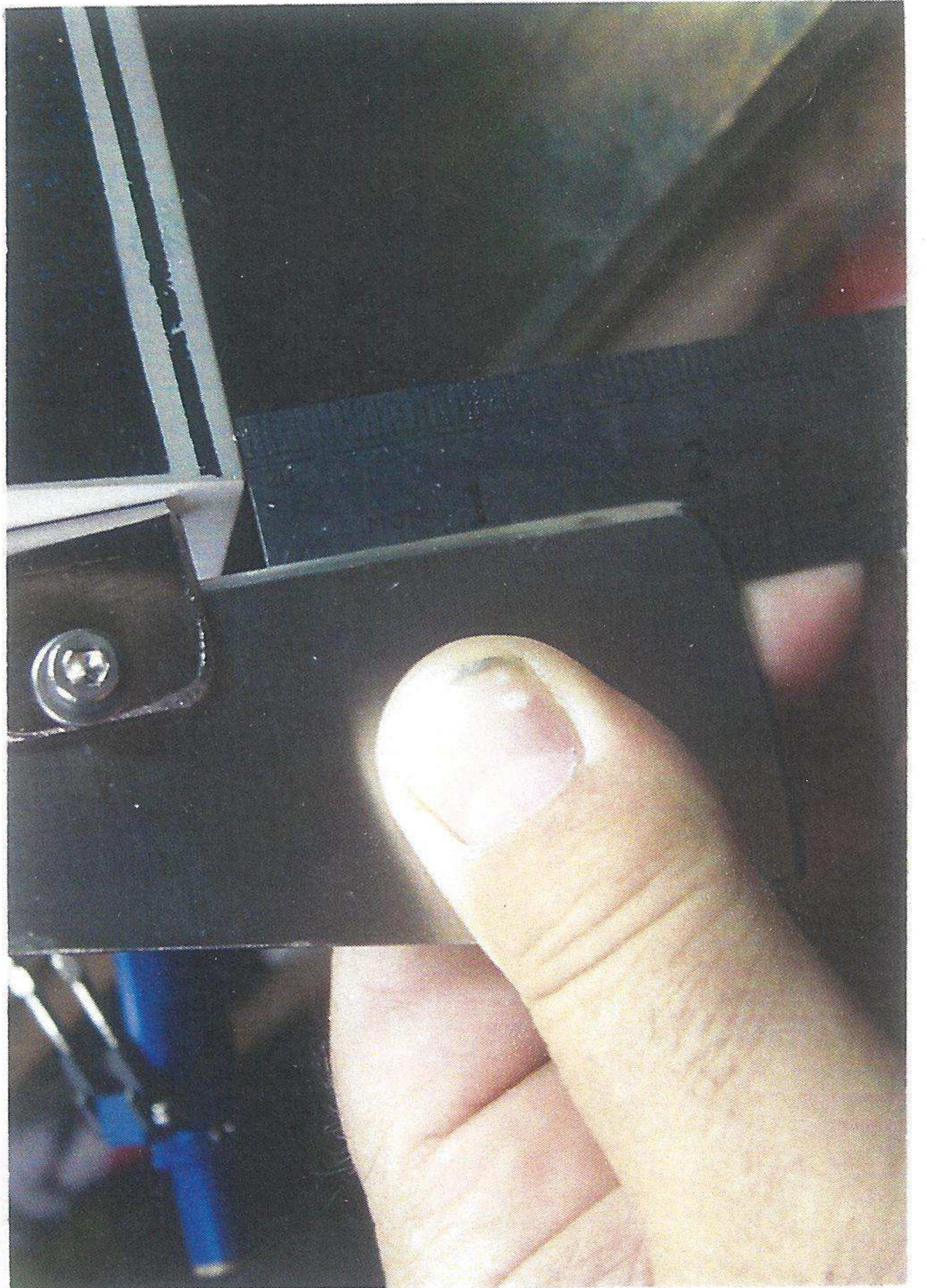
A.C. Model Boats
P.O. Box 23041, Plaza 33
Kelowna, BC. Canada V1X 7K7
Phone 250-765-7730
Fax 250-765-6888



Intro: Thank you for purchasing an A.C. Model Boats Lazer 45. This particular Hull is a proven Heat Race and Rough Water boat that exhibits no bad habits in the straights or corners. The Lazer 45 comes alive and really shows its stuff in Rough and Heat Race water conditions. It works well with the new Mildly Modified Zenoah 260 or High Powered, Highly Modified M&D designs Zenoah 260 Motors as well as the Quickdraw 25 and J&G button headed motors. There are also a few Racers rigging them with the High Powered .90 Nitro motors with very good results. The AC Lazer 45 has been in the R&D stages for a few years now with many hours of R&D and Testing with significant changes being made to the Prototype Hull before the final production boat was released for Public Sale.

Important: The Lazer 45 works so well because of its highly modified and sophisticated

LAZER 45



running surface. To maintain this high level of performance it is important to never paint its running surface or leave the Hull in direct sunlight for extended periods of time. Cover the Hull with a light colored towel or place it in the shade if possible when extreme sun and heat conditions are evident. Never use Bun Gee Straps to secure your boat onto its stand, use Velcro Straps instead. **NEVER** let someone take a Mold from your Lazer 45 as the molding process creates excessive heat and extreme pressure that **WILL** distort your Hull and **"YOU WILL"** loose performance and handling in the process which will result in long term damage to your Hull that is non repairable and non reversible.

Building your New Lazer 45:

Rudder placement on your new Lazer 45 is extremely important. History has shown that the Rudder being placed behind the Propeller will typically help eliminate Bow steer and right steer which could result in either a good handling or an ill handling boat. It is best to mount your Rudder so that the front leading edge of the Rudder Blade is even with the Prop Nut that secures your propeller, or as close to it as possible. Its also a good idea to drill out the water passage in the Rudder Blade with a long 1/8" Drill Bit drilling small sections at a time while removing the shavings often in the passage while drilling. Once drilled use your Dremel and enlarge the water intake passage at the lower portion of the Blade. This will help get more water to the Engine while underway resulting in better cooling. Drilling all the Barb Fittings to 1/8" will also help to increase your water flow.

Mark out and mount your Hardware to the transom as outlined in the **"Specifications Page"**, using a Sharp Pencil works best. Take your time using a Square, a good straight edge and measure twice and drill once. Once all your hardware is mounted place **"everything"** into the Hull temporarily. This includes an empty Gas Tank, Engine and Mounts, Tuned Pipe and Mount, Radio Box and Mounts, Servos, Battery, Drive Cable and anything else your will have your boat rigged with when its completed. You may have to tape some of the items in place into the Hull to hold them until you mount them permanently. Place a Magic Marker mark at your desired CG on the Keel and place a Brass Tube under your boat at your mark. Balance the Hull and all its components on its Keel on the tube by moving the motor and other internal components at your mark until the Hull will teeter totter or balance on your Brass Tube at your mark. The higher the powered motor the higher (more forward) your CG (Center of Gravity) should be set. Once the Hull is balanced mark the location of all the items and start building and mount them permanently.

You will also need to mark off your Right Stringer and notch it out with a Dremel for adequate clearance for your Carburetor and its Linkage. Then reapply some resin back onto the bare wood.

Once you have tested your boat on the water you may find that some High Lift Propellers may cause your Lazer to bounce or the right side lifting in the turns. This is caused by too much lift in the Prop resulting in the Transom of the boat wanting to lift off the water. In most cases tilting the bottom of your Rudder Blade slightly toward the outside of the boat (somewhat like your right turn fin) will help eliminate this condition.

Specifications Page:

- 1 Speedmaster Rudder Bracket is part# SPD-MB65 which includes a 60/90 Single Feed Rudder. When using the M&D designs Racing Gas Drive you can purchase an M&D Rudder extension from M&D which will place your Rudder in the proper location in relationship to their drive. When using the Speedmaster Gas Stinger Drive you can also purchase the longer Rudder mounting bracket from them as well. Speedmaster is now producing a variety of Rudder Bracket lengths to help you place your Rudder in the proper position depending on your Drive choice in relationship to your prop as we talked about previously.
- 2 Center of Gravity (CG) should be between 13 3/4" to 14 3/8" depending on your choice of Power measuring from the Transom forward. The higher the power the higher (more forward) your CG should be placed. Locate "your" proper CG as outlined in the "**Building your New Lazer 45 Page**", this is an **extremely important step** in the Building Process.
- 16 Speedmaster Trim Tabs part# SPD190 come 4 in a package and measure 1 1/2" x 1 1/2". The bottom of them should be mounted on the Transom 1/8" above the bottom surface with the inner tabs starting at 1 1/2" from the Keel and the outer ones starting at 3 1/2". Check The Rule Book of "your" Sanctioning Body for any Limitations. Using the Trim Tab adjustment screws adjust the End Tips of the Tabs down (The Rear Most Part) just above the Running Surface using a straight edge just off the Transom running surface with the right inner one level to help compensate for Prop and Motor torque. Trim Tab adjustments will affect the Lazer 45 dramatically; do your final adjustments on the water.
- 17 Mount your Rudder Blade centered with the right stringer at 2 1/2".
- 18 The Rudder Blade length is not trimmed and used at Full Length for best handling.
- 19 Right Turn Fin is mounted 2" below the running surface and mounted perpendicular to the bottom. I have seen a variety of different style and shaped Turn Fins work very well on the Lazer 45. If you plan on racing an Offshore Class or desire better left turns its best to install a smaller Left Turn Fin that extends 1" below the running surface.
- 20 Drive is mounted centered on the transom, with no offset with the centerline of the drive cable placed at 9/16" up from the Keel. Drive Strut Angle will work well when adjusted Neutral (Level) to slightly Negative (Slightly Down) with the Final Adjustment being made on the water.
- 21 Good all around performance Propellers:
Octura 470/3 / Prop Shop 6518/3 / ABC MW3 / ABC 2714/3 / Prop Shop 6717/3
- 1 If you have any questions or concerns please give me a call after 3:00 PM PST.

AC Model Boats: Lazer 45

