



# SEADUCER BOATS

## SD3 MONO 33

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### Items you need to purchase

- 1 - Pkg. Of 440 push rod ends
- 1 - Pkg. of solder-on rod ends
- 1 -water outlet fitting
- 1 - 3/16 flex shaft 18 inch long
- 1 -3/16" prop nut
- 1 - 1/4" x 36" brass tubing
- 1 - 3/16 x 12" brass tubing
- 1 - Octura x 440 3 blade prop
- 2 - 12" 440 push rods
- 1 - Pkg. of push rod seals
- 1 - Switch rmount
- 1 - 4' of fuel line
- 1 - 3/16 " drive dog
- 4 - 8/32 screws and nuts
- 4 - 6/32 screws for motor mount
- 1 1/2 x 1/2 x 12" hardwood
- 6' length pipe insulation
- 1 -Sullivan 12 oz fuel tank

**HARDWARE:** We recommend the Seaducer Hardware Kit, which consists of Strut, Rubber shock absorbing Motor Mount, Rudder, & antenna mount & Pipe Mount. IF YOU Don't USE OUR HARDWARE THE BOAT WILL NOT RUN WELL AND YOU WON'T BE HAPPY WITH THE BOAT. DO NOT USE A RPM MOUNT, IT PUTS THE ENGINE TOO HIGH UP IN THE AIR AND YOU'LL HAVE TO CUT THE DECK TO ACCOMMODATE THE HEADER. With our mount you can actually sit the engine against the bottom of the boat.

**RADIO BOX SETUP :** Use a Futaba / Hi Tec high torque for steering & a Futaba mini or a Hi Tec HS 80 for throttle. Align the servo horn with the steering lever then mark the bottom of the radio box with a pencil where the wood will be attached Sand both spots with 80 grit paper then permanently attach both pieces of wood with good epoxy. To secure the radio box in the boat, at the center line of the radio box (from left to right) install 2 cup holders in the top of the stringer. Now stretch 2 rubber bands from hook to hook to hold radio box in place. With a 1/4 " drill bit go threw the hole in the transom for the rudder push rod & drill a hole threw the radio box in alignment with the top of the servo horn. Install the throttle servo vertically to the port-side stern of the steering servo. Use wood to make a platform to install this servo. Then drill a 1/4" hole threw the front of the radio box in alignment with carburetor linkage & servo horn. use whatever push rod seals, you wish.

**INSTALLATION OF FUEL TANK:** Run the brass tubes into the fuel tank, the fuel pick-up to the lower left front corner of the tank & the pressure line to the top center of the tank. Place the fuel tank in the tank mount provided. **PUT THE TANK IN THE TRAY FIRST.** Secure the tank with ty-wraps across the tank. Mount the fuel tank 14 3/4" from the rear of the boat to the starting edge of the tank tray. To attach the tank assembly to the hull use polyester resin & the fiberglass provided or 2-hour epoxy. **DO NOT USE SILICONE CAULKING BECAUSE THE NITRO WILL DISSOLVE IT, and YOU WILL END UP WITH A BIG MESS**

**FLOTATION:** Be sure to add SOME TYPE OF FLOTATION! We suggest air conditioning pipe insulation, found in hardware stores, or use the pool floats you can buy at any home /toy store

**MOTOR MOUNT INSTILLATION:** This boat will run "surface drive". Mount the engine on the Seaducer motor mount and attach the flex coupler to the engine. Insert a short piece of 1/4" material about 3" long into the flex coupler and position the mount between the stringers. Tilt the engine so the 1/4" material touches the bottom of the hull and measure 11 1/4 from the inside of the transom to the center of the engine. **Make sure the engine is at the angle when measuring** With the piece of 1/4" material touching the hull, take a cut off pencil and mark the holes for the engine mount. Drill the holes in the stringer and bolt the motor in the boat using 8/32 screws and lock nuts. **DO NOT USE THE RPM MOTOR MOUNT IT HOLDS THE MOTOR TO HIGH IN THE BOAT AND THE BOAT WILL NOT RUN PROPERLY !!!!!**

**PROPELLER DRIVE SHAFT:** Drill a 1/4 hole in the back of the transom, 1/8" from the bottom to allow for up and down movement for the brass tubing along gate the hole for the shaft log. Now start to bend the brass tubing so that it will line up with the motor. Run the brass tubing all the way through the strut, so that it's even with the back. You may have to sand the brass tubing slightly to achieve a nice tight fit. Cut a piece of 1/4" wood to brace the brass where the brass starts to bend up. Fiberglass in the brass tubing with mat and polyester resin. Two pieces of mat is more than enough. **DO NOT GLASS IT ALL THE WAY BACK. IF YOU DO YOU CANNOT ADJUST THE STRUT UP AND DOWN!**

**TRANSOM :** See attached page.

**STRUT:** Mount on the center line of the transom. The back of the strut needs to be 2 inches from the transom.

**RUDDER:** You will have to cut the rudder bracket to fit in the transom. Just cut it so it will fit next to the strut bracket. Draw a center line on your transom & measure to starboard 1 3/4". Install rudder assemble as high on the transom as possible. . With the rudder installed put a straight edge against the bottom of the boat extending past the rudder. Make a mark on the rudder, then measure down 2 3/4" and make a mark. Cut the rudder off at this point. . Drill a 1/4" hole threw the transom to accommodate the push rod.

**PIPE MOUNT:** Mount the pipe mount on the inside of the transom to allow for the bracket to be long enough. Mount the pipe on the Right Hand side of the boat. This will help in cornering as the weight will be to the inside of the boat. Also you will not burn your hand launching the boat.

**FLEX SHAFT :** Install the prop on the hard part of the shaft, keeping 3/8" of threads exposed behind the prop. Slide the drive dog onto the 3/16 part shaft up against the front of the prop. Mark this position and remove the drive dog and prop. File a flat spot on the shaft where the set screw touches it. Reinstall the drive dog, using Lock-Tite, tighten the set screw. Cut 4 pieces of 3/16" brass tubing 3/8" to 1/2" long and 1 piece 1/4" long. Solder the 1/4" piece just before the weld on the flexible side. This technique is more efficient than using lead Teflon bearings, and lasts a lot longer.

**TROUBLE SHOOTING:**

**I -** Yes, we know the bottom has a HOOK in it. Leave it alone, it's there for a reason.

2. If the boat stuffs You are running the boat to lose, you may need to put some weight under the motor to stop the boat from stuffing but, If the boat is set up right you won't have to do this.

3. The Strut should be straight with the bottom. Watch the attitude of the boat and trim to your driving skills.

**Try it OUR way first if you don't like it then do it your way!!**

IF YOU HAVE ANY QUESTIONS, PLEASE CALL US AT (954) 772-9002 fax / home 954 493-7387 or E mail at [SEADUCE@bellsouth.net](mailto:SEADUCE@bellsouth.net)









