

# DIY Shallow Water Anchor Assembly Instructions for Rods, T-grips, Stainless Tips, Stainless Couplers, and the 4-in-1 Paddle All Shallow Water Anchor Parts



First, start by laying out and identifying all of your components. You may have a different mix of components than those in the picture, but the assembly is the same. We will go in depth with the assembly of each component and where it is typically installed.

Possible components:

- Fiberglass Rod
- T-Grip
- Stainless Tip
- Male/Female Couplers
- 4-in-1 Paddle

## ADHESIVES and BEST PRACTICES

**Adhesives** such as 50/50 epoxy JB Weld "Original Cold Weld Formula" does the job. JB Weld 2 part epoxy in the Red and Black tubes labeled "original cold weld formula steel reinforced epoxy, which is available in most hardware stores, sets up in a few hours and cures fully in a day or so, applies easily, and works very well.

### J-B WELD (Original Cold-Weld Formula)

Glues which expand as they dry, such as "Gorilla Glue" are **NOT** recommended, because the glue tends to push the pieces off of the rods as it expands which is counterproductive to what you are trying to do.. **Do NOT use PVC cement (purple and clear mixture)**, which works by dissolving PVC and "melting" it together. It will NOT dissolve fiberglass, and will not work at all. **Do NOT use Liquid Nails or any other glue designed for gluing wood.** These glues will not bond well to fiberglass and make a big mess.



**Surface Prep:** DO NOT clean the fiberglass surface with alcohol, mineral spirits, etc... if you wish to clean the surface, use **ONLY** a damp towel to wipe off surface dust, then dry thoroughly.

**Best practices when gluing:** When gluing anything onto the end of a solid rod, air pockets can form between the rod and the piece you are attempting to glue on. To avoid this **DO NOT** smear glue around the end of the rod. Instead, apply the adhesive in lengthwise, equidistant, strips around the rod. Leave gaps between the lengthwise strips of adhesive. When attempting to place the piece on the rod this will allow any air to escape between those strips of adhesive. When the piece is fully seated on to the rod, simply twist the piece on the rod and turn it in either direction one quarter turn to then smear the adhesive around the rod.

## PINNING METHOD

**Pinning Method One:** Adhesives are great, but nothing works as well as a physical connection. A pinning method should be used on all parts if you have the capability. Place the part on the end of the tube or rod. With the part "seated" drill a 9/64" hole through the overlap area. Insert a #6:32 machine screw of the corresponding length to the largest diameter piece being drilled. An

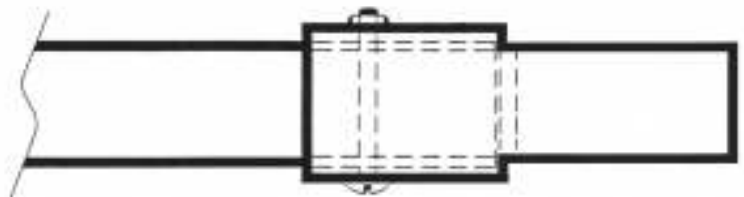
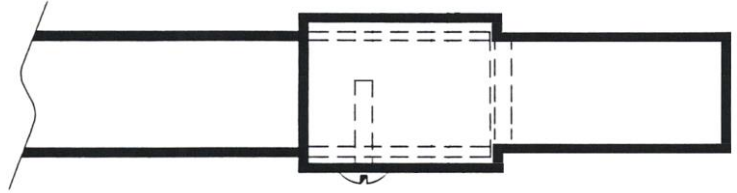


illustration of this method is below is to the right. For Pinning through our 3/4 inch OD Rod Parts, use #6:32 round-head machine screws with at least 1 inch of threads. For 1 inch OD Rod Parts, use #6:32 round-head machine screws with at least 1.25 inches of threads.

**Pinning Method Two:** Pinning without drilling through the entire assembly. A pinning method should be used on all parts if you have the capability. Place the part on the end of the tube or rod. With the part "seated" drill a 9/64" hole through one side of the overlap area and 1/2 inch into the Solid Rod. Empty the hole of dust then fill with epoxy. Insert a #6:32 machine screw of about 1/2 inch in length into the hole. Wipe away excess epoxy and allow time to set. An illustration of this method is below is to the right. For Pinning through our 3/4 inch OD Rod Parts and 1 inch OD Rod Parts, use #6:32 round-head machine screws with at least 1/2 inch of threads.

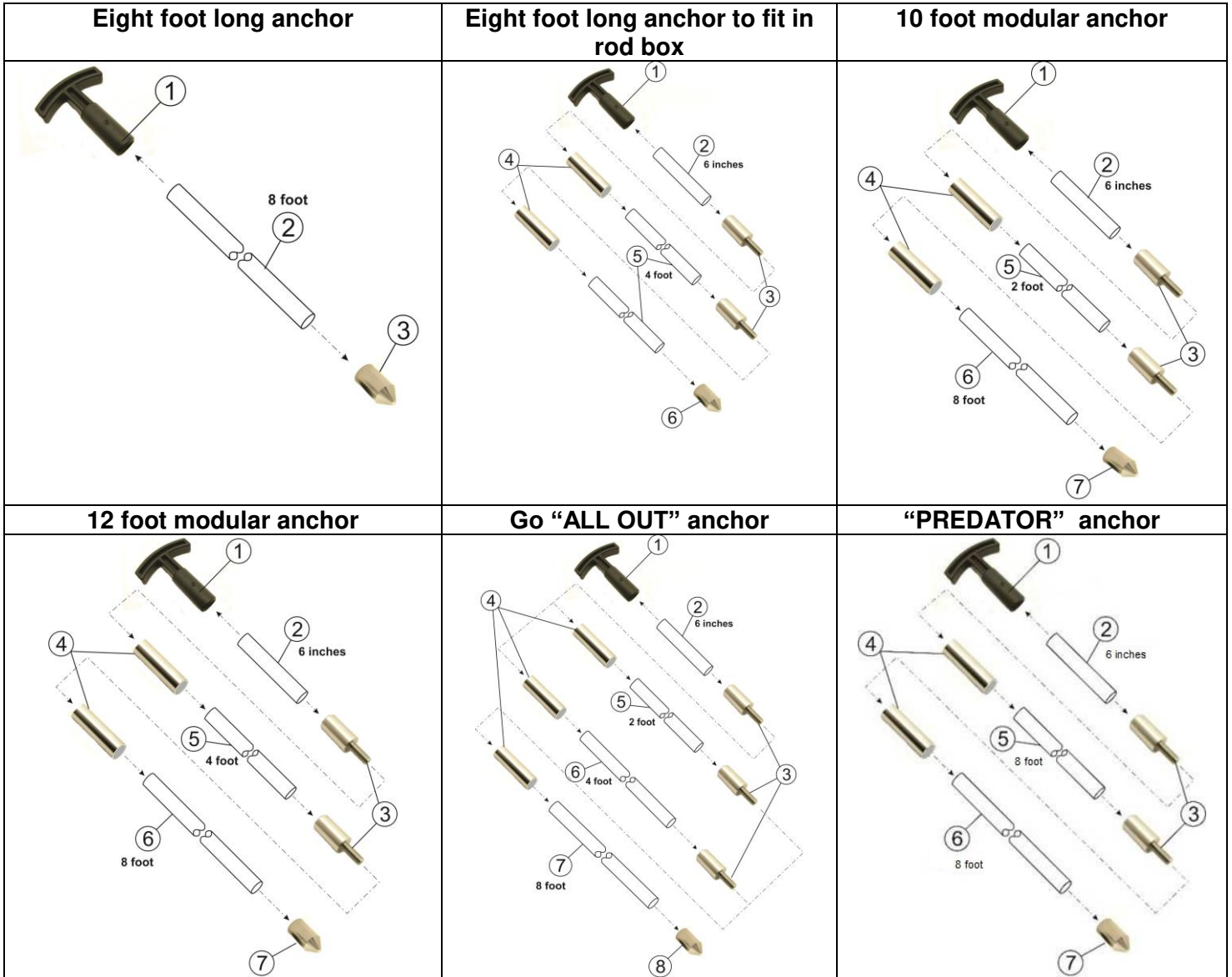


## FIBERGLASS ROD

Our fiberglass rod is available in multiple diameters and in several lengths. The base shallow water anchor is made using an eight foot piece of rod. This allows for maximizing the use of the fiberglass, which is a strong and flexible material which bends and comes back to straight and absorbs the shock of the boat on the water without breaking. Extending that eight foot piece of rod is possible using our rod couplers on shorter pieces of rod (example: 2 foot or 4 foot piece of rod). The 4-in-1 paddle can also be placed on a short piece of rod and extended with extension sections to the desired reach, which can then be used as an emergency paddle, lure retriever, decoy retriever, and push pole. This system is very versatile and adaptable to almost any situation when boating.

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## Most requested layouts



This installation guide is universal for all of the individual components, but for the purpose of demonstration we are using the components of the "ALL OUT" anchor system layout with the addition of the most popular use of the 4-in-1 paddle.

## T-GRIP

The T-Grip is a key part for any shallow water anchor. It provides a better point for you to grip in order for you to push your anchor into the lake bed, river bed, etc, as well as for removal/retrieval of the anchor.



Unassembled



Assembled

**Installation:** When gluing the t-grip onto the end of a solid rod, air pockets can form between the rod and the t-grip. To avoid this **DO NOT** smear glue around the end of the rod. Instead, apply the adhesive in lengthwise, equidistant, strips around the rod. Leave gaps between the lengthwise strips of adhesive. This will allow any air to escape between those strips of adhesive when attempting to place the t-grip on the rod. When the t-grip is fully seated on to the rod, simply twist the t-grip on the rod and turn it in either direction one quarter turn to then smear the adhesive around the rod.

Around the shaft portion of the T-Grip you will see a cone shaped, recessed dimple. This is a starter point for a drill bit. Use a 1/8 inch or 3/32 inch drill bit to drill a hole that does not penetrate through the other side of the t-grip or fiberglass rod. This will not go through the t-grip and fiberglass rod. Use a machine screw of that same depth that you just drilled. Fill the drilled hole with epoxy and insert the machine screw. This will act like a “pin” in the t-grip and you can rest assured that your T-grip is going nowhere. See one of the “pinning methods” on page one and two.

## STAINLESS TIP

The Stainless Steel Tip is another key part for any shallow water anchor. It provides the benefit of increased durability and longevity of your anchor system. The Stainless Steel Tip will also make it possible to anchor in rocky beds, beds with shells, etc...



**Unassembled**



**Assembled**

**Installation:** When gluing the stainless steel tip on to the end of a solid rod, air pockets can form between the rod and the stainless steel tip. To avoid this **DO NOT** smear glue around the end of the rod. Instead, apply the adhesive in lengthwise, equidistant, strips around the rod. Leave gaps between the lengthwise strips of adhesive. This will allow any air to escape between those strips of adhesive when attempting to place the stainless steel tip on the rod. When the stainless steel tip is fully seated on to the rod, simply twist the stainless steel tip on the rod and turn it in either direction one quarter turn to then smear the adhesive around the rod.

## MALE/FEMALE COUPLER

The Stainless Steel Rod Couplers are the key component for any modular shallow water anchor system. They provide the benefit of being able to extend and accessorize your shallow water anchor without sacrificing strength. The couplers are made of stainless steel to be able to take the stresses of anchoring a boat.



**Unassembled**



**Assembled**

**Installation:** When gluing the stainless steel coupling on to the end of a solid rod, air pockets can form between the rod and the stainless steel coupling. To avoid this **DO NOT** smear glue around the end of the rod. Instead, apply the adhesive in lengthwise, equidistant, strips around the rod. Leave gaps between the



lengthwise strips of adhesive. This will allow any air to escape between those strips of adhesive when attempting to place the stainless steel coupler on the rod. When the stainless steel coupler is fully seated on to the rod, simply twist the stainless steel tip on the rod and turn it in either direction one quarter turn to then smear the adhesive around the rod.

## 4-IN-1 PADDLE



**Unassembled**



**Ferrule Installed in Paddle**



**Rod and Stainless Screw**



**Assembled**

**Installation:** The 4-in-1 paddle can be used on 1 inch and  $\frac{3}{4}$  inch diameter rods. The 4-in-1 paddle uses a hollow ferrule for spacing that is 1 inch outer diameter when being used on  $\frac{3}{4}$  inch diameter solid rod. When gluing in this ferrule, lather the outside of the tube with adhesive and slide it into the paddle. When gluing the 4-in-1 paddle on to the end of a solid rod, air pockets can form between the rod and the 4-in-1 paddle. To avoid this **DO NOT** smear glue around the end of the rod. Instead, apply the adhesive in lengthwise, equidistant, strips around the rod. Leave gaps between the lengthwise strips of adhesive. This will allow any air to escape between those strips of adhesive when attempting to place the 4-in-1 paddle on the rod. When the 4-in-1 paddle is fully seated on to the rod, simply twist the 4-in-1 paddle on the rod and turn it in either direction one quarter turn to then smear the adhesive around the rod. When the adhesive has had enough time to set up AND fully cure, it is time to install the provided stainless steel pan head screw. Use a  $\frac{1}{8}$  inch diameter drill bit to drill a hole at the provided screw location in the shaft of the 4-in-1 paddle, through the ferrule, rod, and out the other side. Insert the pan head screw and use the provided nut with the nylon self-locking insert.

**IMPORTANT ASSEMBLY NOTE FOR 4-IN-1 PADDLE:** Before attaching the stainless steel coupler or the 4-in-1 paddle to either side of the rod, be sure to line up the paddle and t-grip by screwing the t-grip section, which should be completed first and was covered on page 3, into the female coupler that should be installed on

the other end of the rod from the paddle. Lay the entire assembly on the ground or table before any adhesive has a chance to cure. This will ensure that the paddle and t-grip are in the correct orientation to one another. If this is not done prior to the adhesive curing, when attaching the t-grip to the rod that has the paddle on the end, the paddle could be perpendicular to the t-grip making it very difficult to use correctly.



## ALL ASSEMBLED COMPONENTS



Combine all of the components for a fully capable anchor with extra utility and versatility!

## CUSTOMER MOUNTING METHODS

We have customers report to us many DIY methods to use their shallow water anchors. Below are some of these methods:

<b>Bee Ready Rod Holder</b>	<b>Ring Method</b>
<p data-bbox="134 982 467 1016"><b>Standard Rod Holders</b></p>  <p data-bbox="207 1409 657 1442">this rod holder to keep you steady.</p> <p data-bbox="527 972 771 1407">A "Bee Ready Rod Holder" used as a shallow water anchor mooring point. Turn the Rod Holder around, facing out away from the boat, to gain a cheap, fast, and easy attachment point. Slide your anchor through</p>	 <p data-bbox="1328 972 1518 1312">A Stainless ring attached to a cleat with a mooring buoy to act as a bumper between the boat and the shallow water anchor.</p>

Thank you for your purchase!



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