



We'd like to thank you for purchasing a *ShuttleSlide* product. We value your business and pride ourselves on superior craftsmanship and customer support. If there are any questions this document fails to answer clearly, please do not hesitate to contact us. We will respond in most cases within a few minutes and never longer than 24 hours.

Email us at support@shuttleslide.com or call us via phone M-Sa 9-5PM EST: 321.345.3315

This document will cover a typical installation scenario for **HD series mounts**. However, every boat is unique and sometimes requires customized installation. As such, there will be variations that are possible that can't be discussed within the scope of these instructions. If you need help, please reach out to us and we will help with any questions you may have. **We strongly suggest you read through these instructions fully before you begin the installation or operate the mount.**

Important Information, Required components and fastener torque specs

- **FOLLOW ALL PRECAUTIONS FROM YOUR TROLLING MOTOR MANUFACTURER**
- **CRITICAL: All ¼-20 fasteners shall be lightly lubricated** with Tef-Gel, or equivalent, to prevent seizing and torqued to 25 in-lbs before the mount is placed into operational service. (see: <https://www.ultratef-gel.com/tef-gel/>)
- **DO NOT USE POWER TOOLS TO TIGHTEN FASTENERS OR YOU RISK GALLING THE NUT TO THE SCREW.**
- 8-32 fasteners also require Tef-Gel, or equivalent, but do not have a torque rating as they are designed to apply a variable force on the bearing surface to adjust desired friction.
- **ALL 6 fasteners in the 1.5" x 5.50" mounting pattern must be used.** Failure to use all 6 fasteners will reduce the strength of the mount and can lead to premature failure or damage. **Failure to use all 6 fasteners in the 1.5" x 5.50" pattern will void the warranty.**
- **If the 8-32 brake adjustment screws are not set and adjusted properly it can result in movement of the trolling motor. Use of the brake screws is highly recommended.**
- Do not over tighten the screws between the deck and the mount such that the mount is no longer flat. Warping of the mount will greatly increase how much force is required to move the mount between each end of travel.
- Typical distance from edge of rub rail to the **first** screw that **MUST** go through the deck on HD mounts is:
 - Six (6) position pattern: 3.75"
 - **This distance is for reference only to get you close to a good location.**

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Components you will need pictured below



- **Trolling Motor with side covers removed**
- **Rail / carriage assembly**
- **Carriage brackets**
- **Mounting hardware (included)**
- **Tef-Gel or similar (not shown) (<https://www.ultratef-gel.com/tef-gel/>)**
- **Masking type tape or temporary marking device (not shown)**

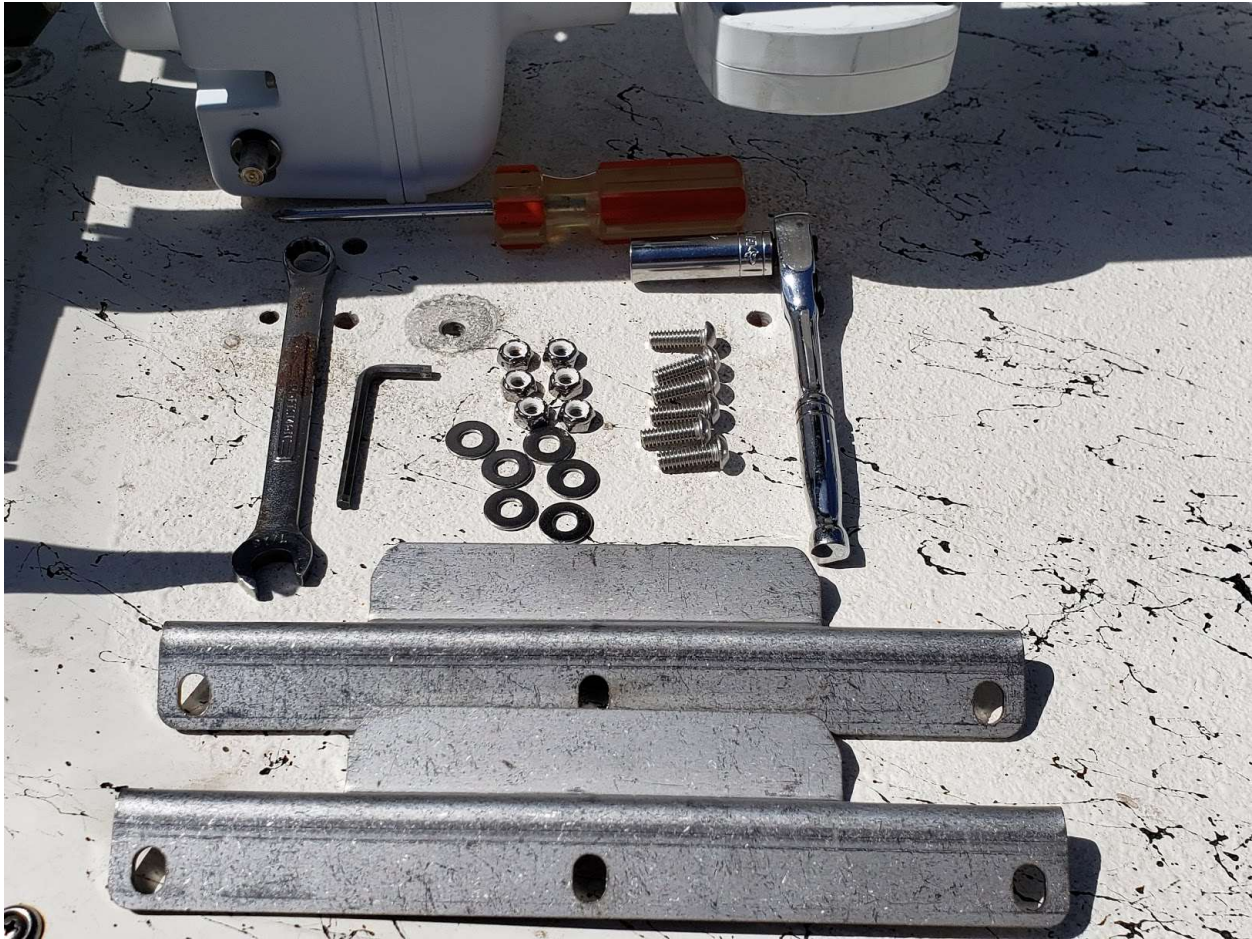


Figure 1.

Step 1: Attach carriage brackets to your trolling motor

- Figure 1 shows the carriage brackets and hardware that will be used to attach the brackets to your motor along with some common tools. Mandatory tools that you will need are:
 - 7/16 Open end wrench
 - Hex key
- **If your HD series mount came with 2 piece brackets see Appendix 1 at the end of this document for details about how to assemble them.**



Figure 2.



Figure 3.

- Figures 2 and 3 show how to attach a carriage bracket.
- Note that the washer is under the head of the fastener and not under the nut.
 - *Placing a washer under the nut can limit the amount of adjustment available that will be important in a later step.*
- Assemble as shown and tighten nuts until they are almost snug but still loose enough that you can move the bracket around freely.



Figure 4.

Step 2: Add white bearing to carriage brackets

- Figure 4 shows the white bearing installed onto the two brackets. Slide the bearing until the brackets are fully engaged as shown.
- Once positioned, squeeze the two brackets together so that they bottom out into the slot that they ride in on the bearing.
- **Once the brackets bottomed out, tighten the middle fastener first then the others.**
 - This will prevent the bracket from walking loose when you tighten the other screws
- Once all 6 screws are tight, slide the bearing along the full length several times to ensure that there is zero, or minimal “wobble” side to side. Adjust as desired / needed.
- **IMPORTANT:** *How hard you squeeze the brackets together sets the “global resistance” of the slide. The harder the brackets bottom out in the slot, the more force will be required to move the motor along the path. You will most likely not want to adjust this too tightly. SEE APPENDIX A for further details.*
- Later steps we will cover adjusting the brakes that hold the carriage at each end of travel



Figure 4a

Figure 4a shows the carriage brackets attached and the HD bearing positioned such that the carriage brackets are at maximum travel location in the “deployed” direction. Ensure that the bearing is adjusted as shown before moving onto the next step.

VERY IMPORTANT : Failure to have the bearing positioned at the maximum travel point will result in the mounting holes in your deck being in the wrong location to avoid the motor shaft from contacting the rub rail when deployed. Be sure the brackets are at the maximum travel location in the bearing before moving onto the next step.



Figure 5.

Step 3: Finding and marking the right installation location

- Figure 5 shows the trolling motor flipped back over with the bearing between the motor and the deck.
- The bearing will not mark or scar the deck of your boat so it can easily be moved around
 - *Be mindful that the bearing is very slippery and the motor may slide off the boat if you are not careful.*
- Position the motor where the shaft will clear the edge of the rub rail by approximately 1.0 inches.
 - *This typically puts the end of the bearing between 2.5 and 3.5 inches from the rub rail.*
- Once you are confident the motor shaft clears the rub rail and is positioned as desired, verify that the carriage brackets are still at the maximum travel position in the bearing. You are now ready to mark locations for the holes



Figure 6.



Figure 7

Figures 6 and 7 shows what the motor shaft and inboard side of the bearing will look like after you position the motor where you want it from the previous steps



Figure 8

Figure 8 shows some methods for marking the boundary of the bearing in order to not lose the proper position when adding the installation holes to your deck.



Figure 9.

Figure 9 shows the edges of the bearing masked off so that you can safely remove the motor in order to mark the 6 hole locations for attaching the mount.



Figure 10.

- Figure 10 shows the trolling motor and white bearing removed from their previous locations.
- Place the white bearing similar to Figure 10 and mark the hole locations in your deck with a drill, pencil, marker, etc
 - *We recommend you mark the two rear most holes first, drill them and drop two screws in so that you don't have to worry about the bearing moving around as you mark the remaining holes.*
- Once all 6 hole locations are marked, use a 5/16 drill bit to add the holes to your deck.



Figure 11.

Step 4: Assembling and installing the mount

- Now that all 6 holes are in your deck you will install the plates and bearing. However, we first need to assemble the mount base.
- Figure 10 shows the top and bottom plates along with the white bearing
- The assembly order is:
 1. Bottom plate
 2. White Bearing
 3. Top plate



Figure 12.

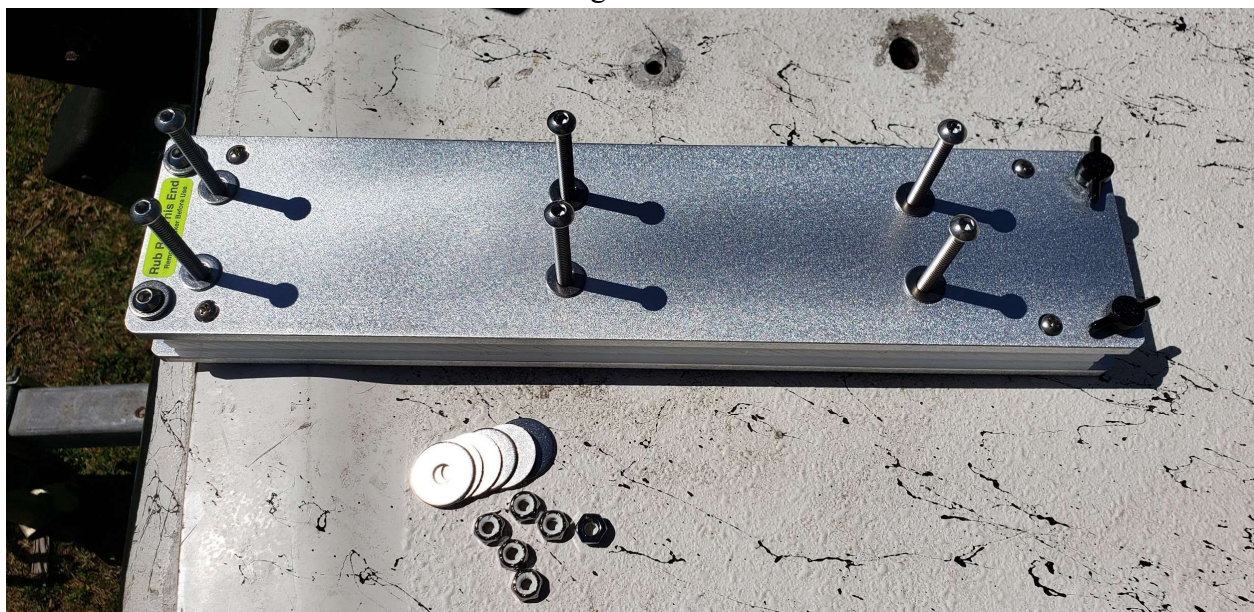


Figure 13.

- Figure 12 shows the six (6), 3 inch long 1/4-20 screws that you will use to assemble the mount together. The large 1 inch fender washers are installed under the deck.
- Figure 13 shows the 6 screws threaded into the bottom plate with the small washers under the heads of the screws.
- Figure 13 also shows the travel stop screws installed with the black wing screws on the inboard side and the socket head screws on the rub rail side.
 - **CRITICAL: Wing Screws MUST NOT be used on the rub rail end. EVER.**



Figure 14.

- Figure 13 shows the long screws fully threaded into the bottom plate which become studs.



Figure 15

- Drop the assembled mount into the holes you drilled earlier and attach nuts.



Figures 16 and 17

- Figures 16 and 17 show the rub rail side travel stop screws properly installed and adjusted with two (2) washers under each screw head.
 - *Failure to use two washers will result in the screw threads extending beyond the bottom plate and potentially marking your deck.*
- Do not over tighten these screws or the carriage brackets will not move easily at each end.



Figure 18



Figure 19

- Remove the wing screws as shown in the Figure 18
- Carefully slide the trolling motor onto the white bearing rail as shown in Figure 19
 - *This part can be difficult the first time you install the motor onto the white bearing. Having an extra pair of hands available for this step can help.*



Figure 20



Figure 21

- Slide the motor forward as shown in figure 20
- Install the wing screws as shown in figure 21
 - *Do not over tighten these screws. Snug is all you need.*

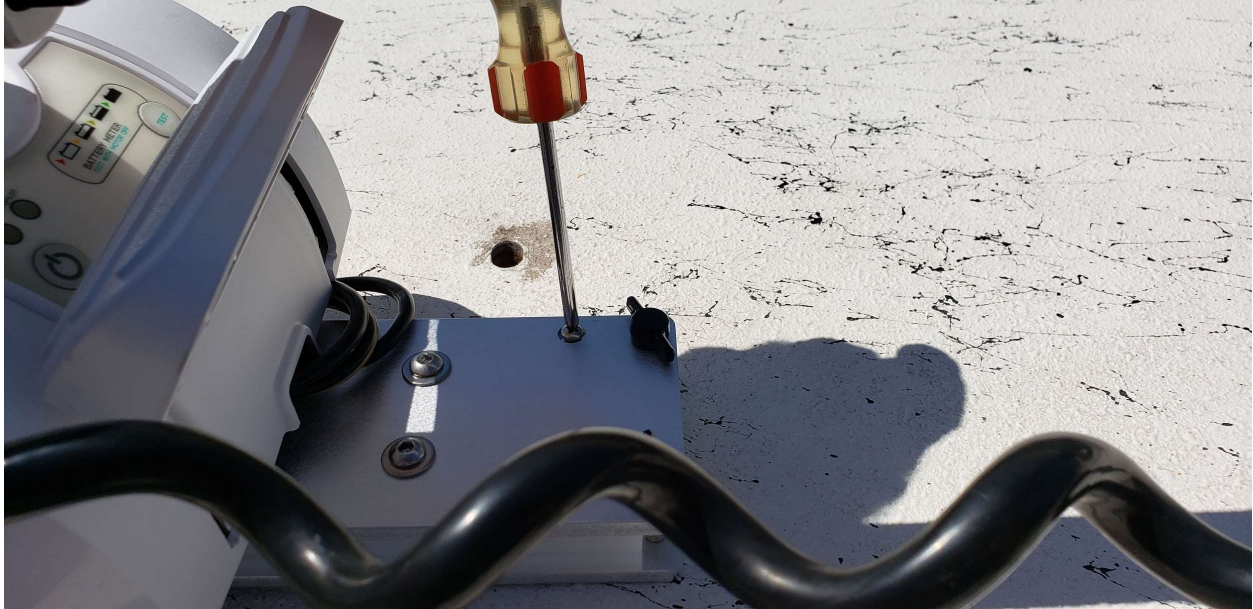


Figure 22



Figure 23

- Adjust the brake screws at each end of travel as shown in figures 22 and 23.
- There are two brake adjusters at each end
 - *These screws can be adjusted differently based on your desired holding force*
 - *Adjust them such that the motor travel is snug at each end and requires a good bit more effort than is required when traveling between both ends of travel.*
- If desired, the motor can be allowed to move around when not in use with no adverse effects to the mount or motor.



Figure 24



Figure 25

- Figure 24 shows the motor fully retracted
- Figure 25 shows the motor removed from the mount base

CONGRATULATIONS! You have now completed the installation of an HD series ShuttleSlide mounting system. Recommendations and Appendix 1 follows.



Recommendations

- **Wash down the mount at the end of each day of use with normal soap and water to minimize corrosion effects over time.**
- **Inspect the mount for damage prior to each day of use**
 - **Especially pay attention to the travel stops and ensure that they have not come loose.**
 - ***The motor will not slide between the full range of travel if the inboard travel stop has backed out some***
- **Lubricating oil is difficult to remove once it gets onto the bearing. Be mindful of applying any lubricants as they will have a major impact on the function of the brakes especially.**
- **After the initial installation the amount of force required to move the motor is slightly more than after it has traveled the full length multiple times.**
 - ***Slide the motor between each end of travel until you feel the resistance is no longer changing before making any final adjustments***

Appendix 1: Two-piece carriage brackets



Figure 26

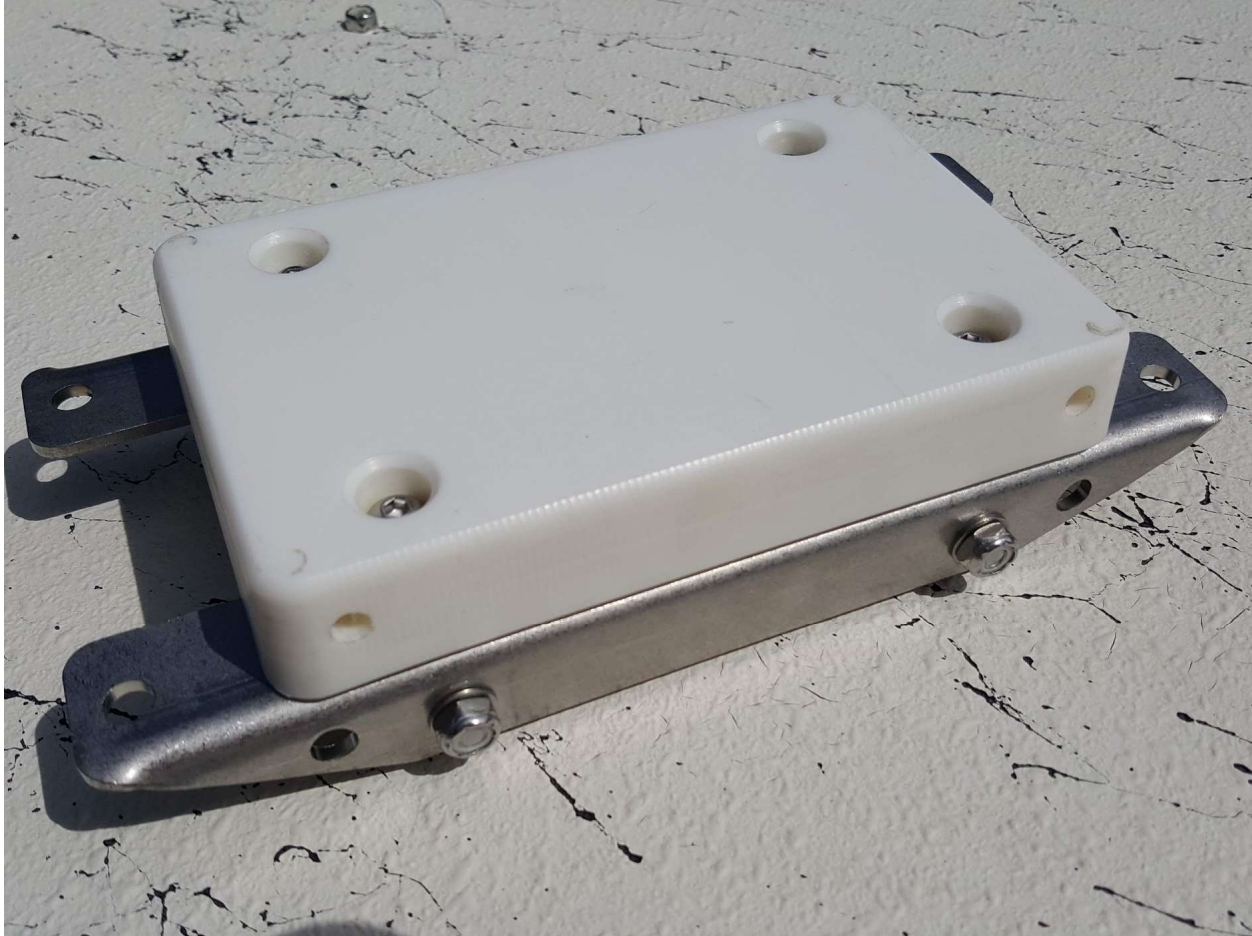
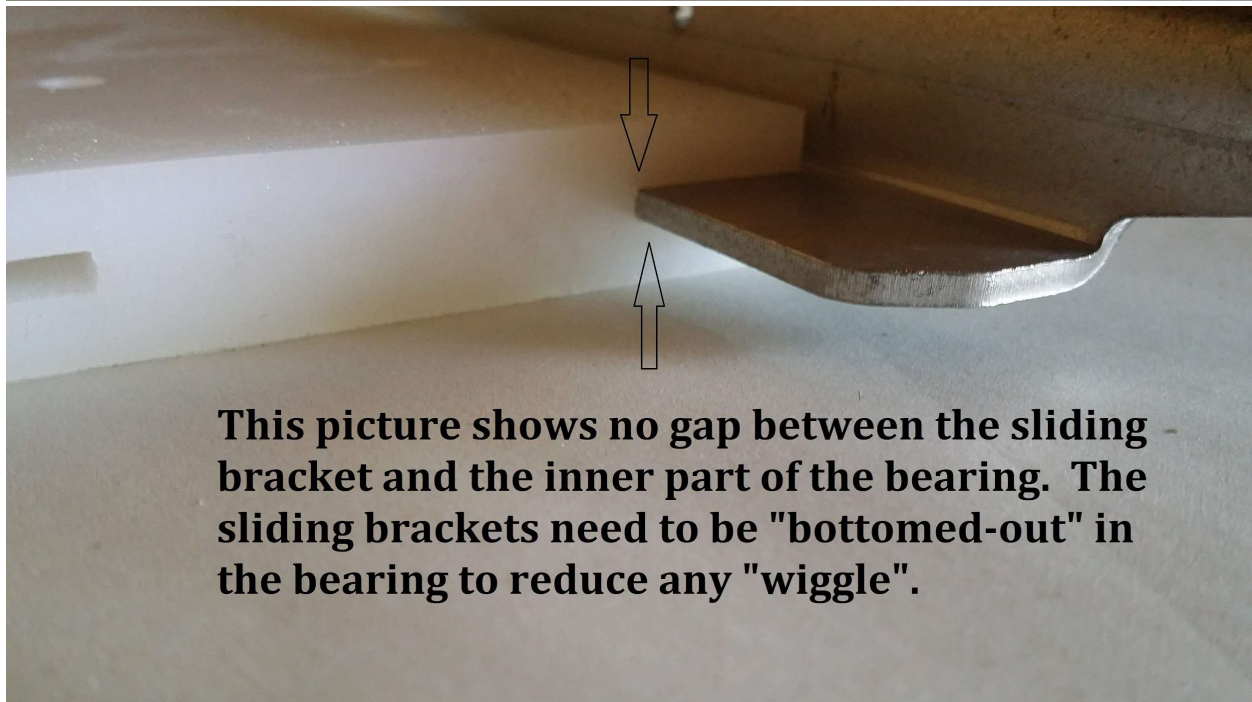
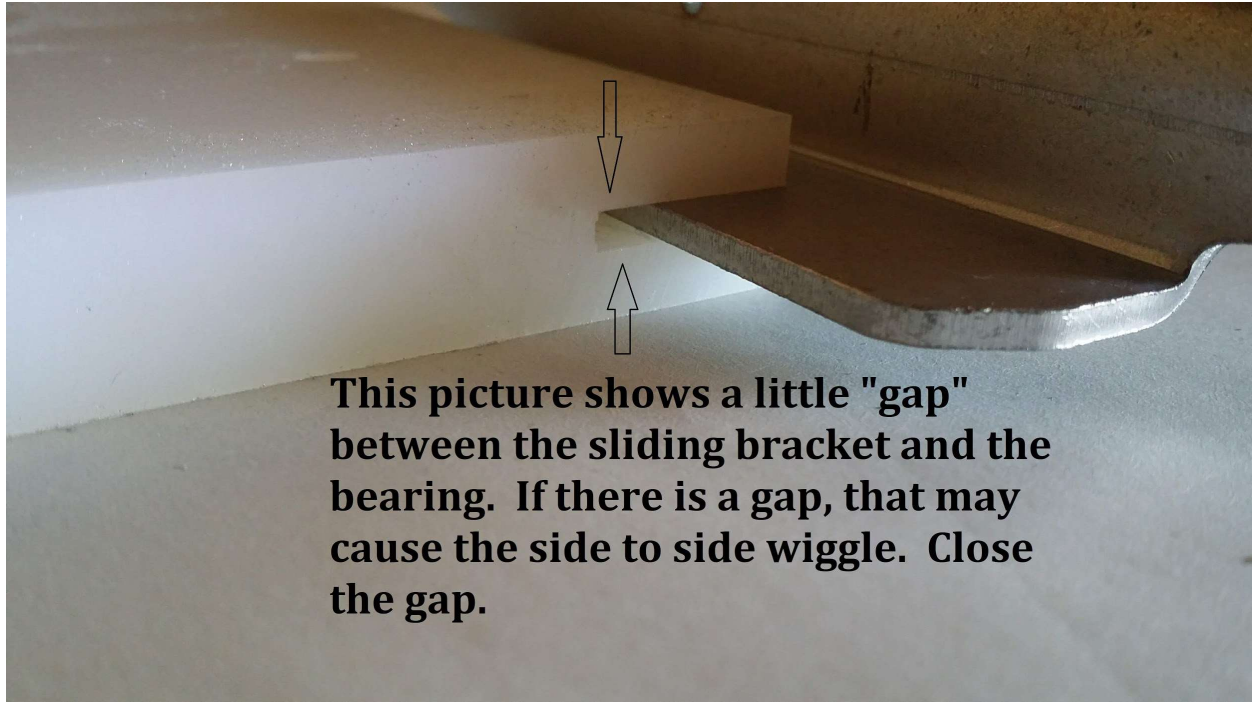


Figure 27

- Figures 26 and 27 show a 2-piece carriage bracket assembled in two configurations.
- The main benefit of this bracket type is that it can be assembled in two orientations in order to support direct mounting of a trolling motor OR attaching an RTA-17 style deck plate or “puck”.
 - This allows the use of an RTA-17 along with the ShuttleSlide mount.
 - To use an RTA-54 requires the use of an additional BMAP-54 adapter plate which is available on our website.
- **Be sure to install the short fasteners such that the socket head is closest to the white bearing with the nuts and washers on the outboard side or you risk rubbing the screw heads on the main body of the mount.**
- **Some models may come with Three (3) fasteners to attach each side with vs the two shown above. Use all Three (3) fasteners if your model came with them.**

Appendix A



IMPORTANT: *How hard you squeeze the brackets together sets the "global resistance" of the slide. The harder the brackets bottom out in the slot, the more force will be required to move the motor along the path. You will most likely not want to adjust this too tightly.*