



SWIFT. SILENT. SECURE.

# HARDWARE KIT FOR POWER-POLE® BLADE MODELS

## INSTRUCTIONS

### Hardware (Included):

- A.** (7) 3/8" x 2 1/2" Bolts
- B.** (2) 5/16" x 2 1/2" Bolts
- C.** (2) 1/4" x 1 3/4" Bolts
- D.** (7) 3/8" Nylon Lock Nuts
- E.** (4) 3/8" Bushings (inner knuckle joint)
- F.** (12) 3/8" Bushings (middle)
- G.** (4) 3/8" Bearings (outside stern bracket)
- H.** (14) 3/8" Washers
- I.** (7) 5/16" Nylon Lock Nuts
- J.** (2) Ram-Spacers
- K.** (2) 3/8" Bushings (opposite side of ram spacers)
- L.** (4) 5/16" Washers
- M.** (2) 5/16" Bearings (outside cylinder mount)
- N.** (2) 1/4" Nylon Lock Nuts
- O.** (4) 1/4" Washers
- P.** (4) 1/4" White Bushings
- Q.** (1) Spreader Block
- R.** (4) 3/8" Bushings (inner stern bracket)
- S.** (10) 3/8" Bearings (outer)
- T.** (4) 3/8" Bushings (middle stern bracket)

- U.** (4) 1/2" Bronze Bearings (3-piece stern bracket)
- V.** (4) 3/8" Jam Nuts (3-piece stern bracket)
- W.** (4) Plastic Washers (3-piece stern bracket)
- X.** (4) 1/2" Washers (3-piece stern bracket)

### Installation Tools:

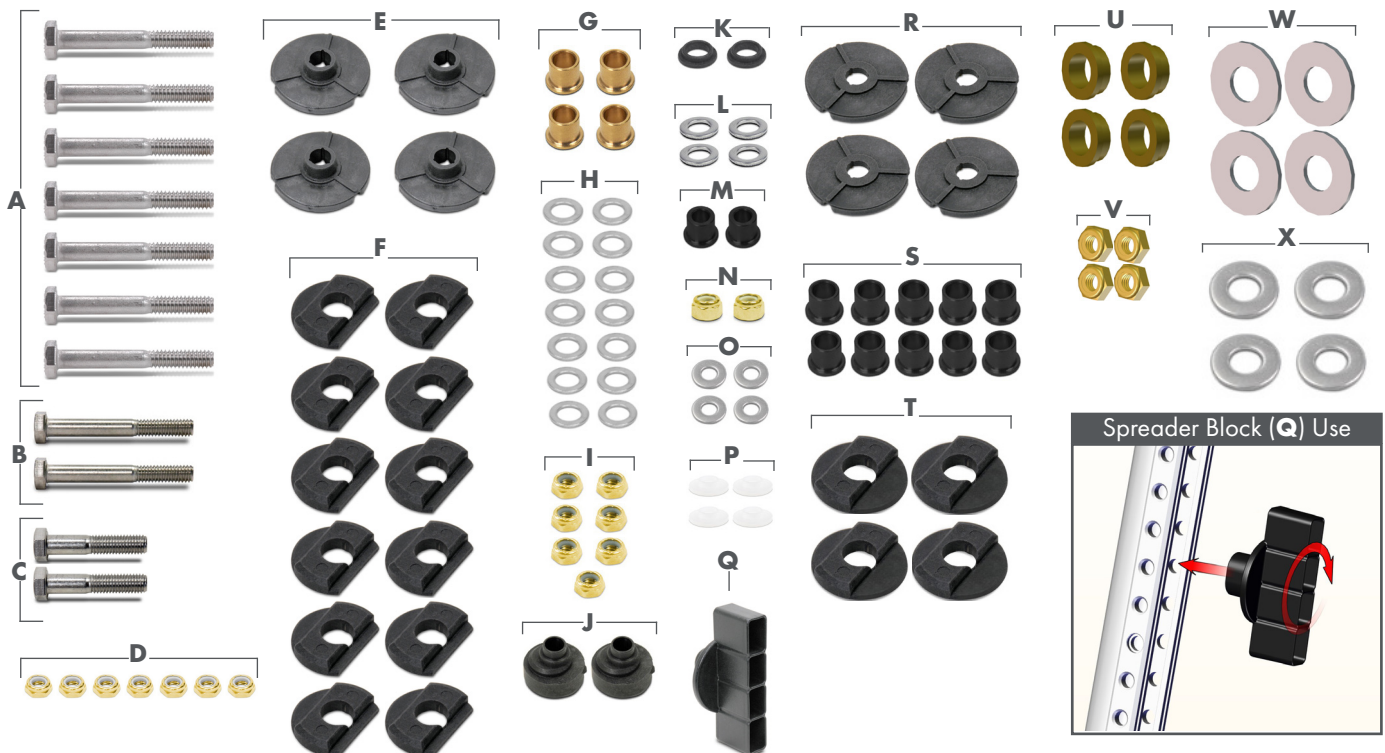
- 7/16", 1/2" and 9/16" Wrench
- 7/16", 1/2" and 9/16" Socket
- Ratchet
- Protective Gloves
- 1/4" Flat Punch
- Rubber Mallet
- Impact Wrench
- Hammer
- Marine Zip-Ties

### NOTES:

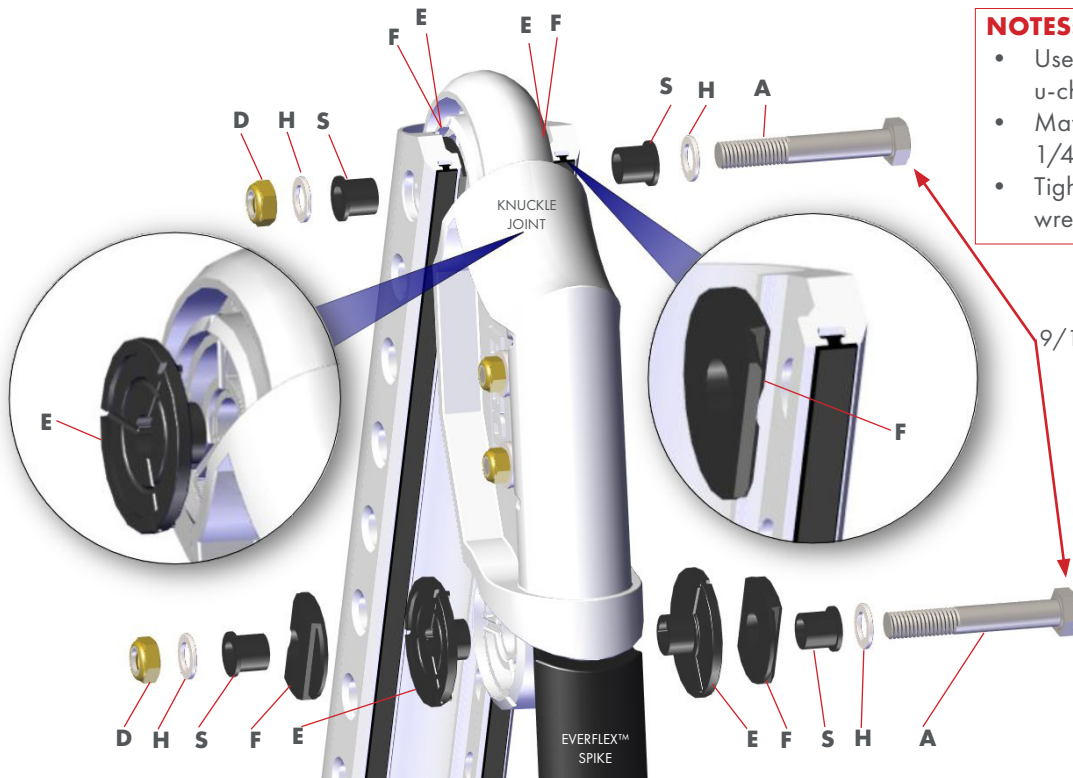
- For all replacements, lower the Power-Pole Anchor so the spike is touching the ground.
- Follow diagrams for proper hardware installation.



Never touch spike with bare hands. Spike may become fibrous after sun exposure and use.



## BOLT SET FOR BLADE KNUCKLE (UPPER OR LOWER)

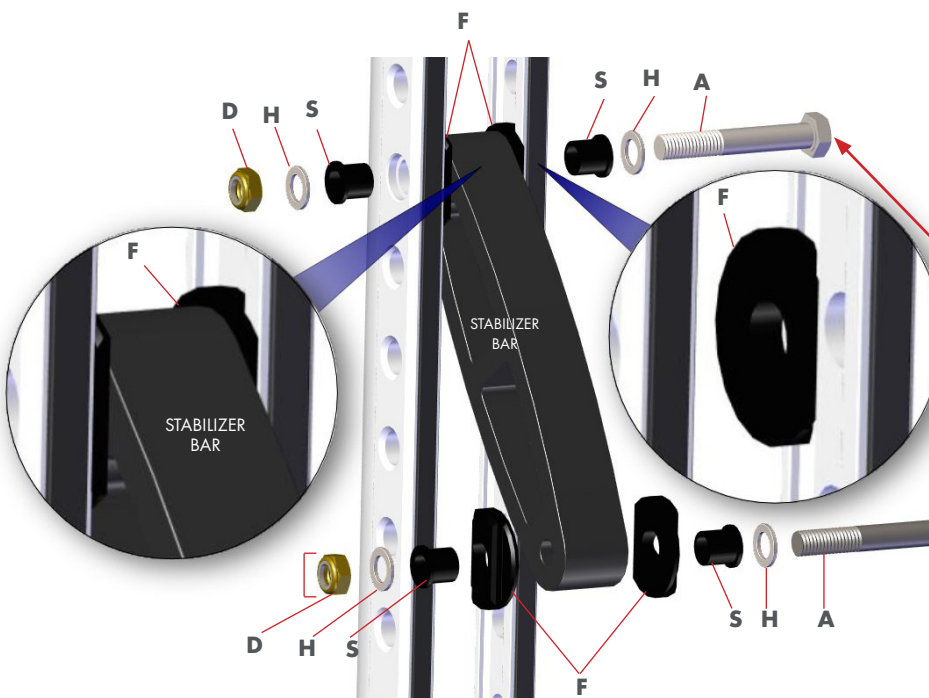


### NOTES:

- Use spreader block (**Q**) to remove knuckle from u-channel.
- May need to drive out bearings (**S**) using a 1/4" flat punch and rubber mallet.
- Tighten nuts (**D**) flush using a 9/16" socket and wrench.

9/16" Socket & Wrench

## BOLT SET FOR STABILIZER BAR



### NOTES:

- Use spreader block (**Q**) to remove stabilizer bar from u-channel.
- May need to drive out bearings (**S**) using a 1/4" flat punch and rubber mallet.
- Tighten nuts (**D**) flush using a 9/16" socket and wrench.
- Lower diagram is for 10' models only.

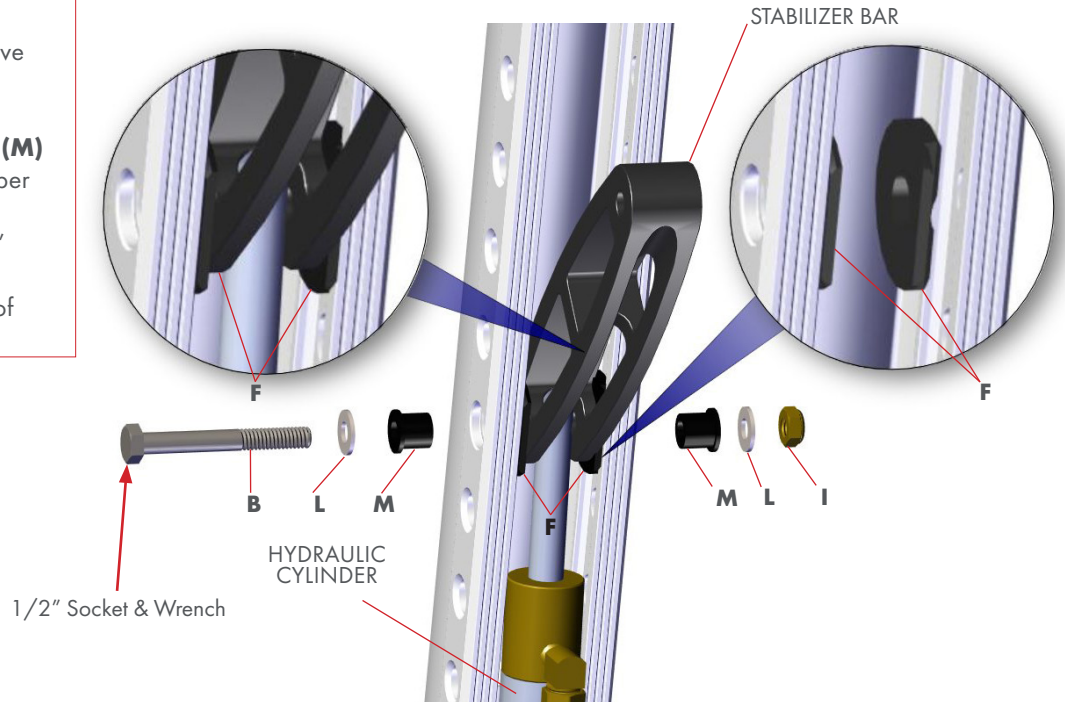
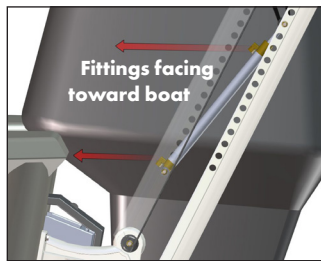
9/16" Socket & Wrench

**IMPORTANT!** Lower diagram only applies to 10' models.

## BOLT SET FOR BLADE CYLINDER / STABILIZER BAR

### NOTES:

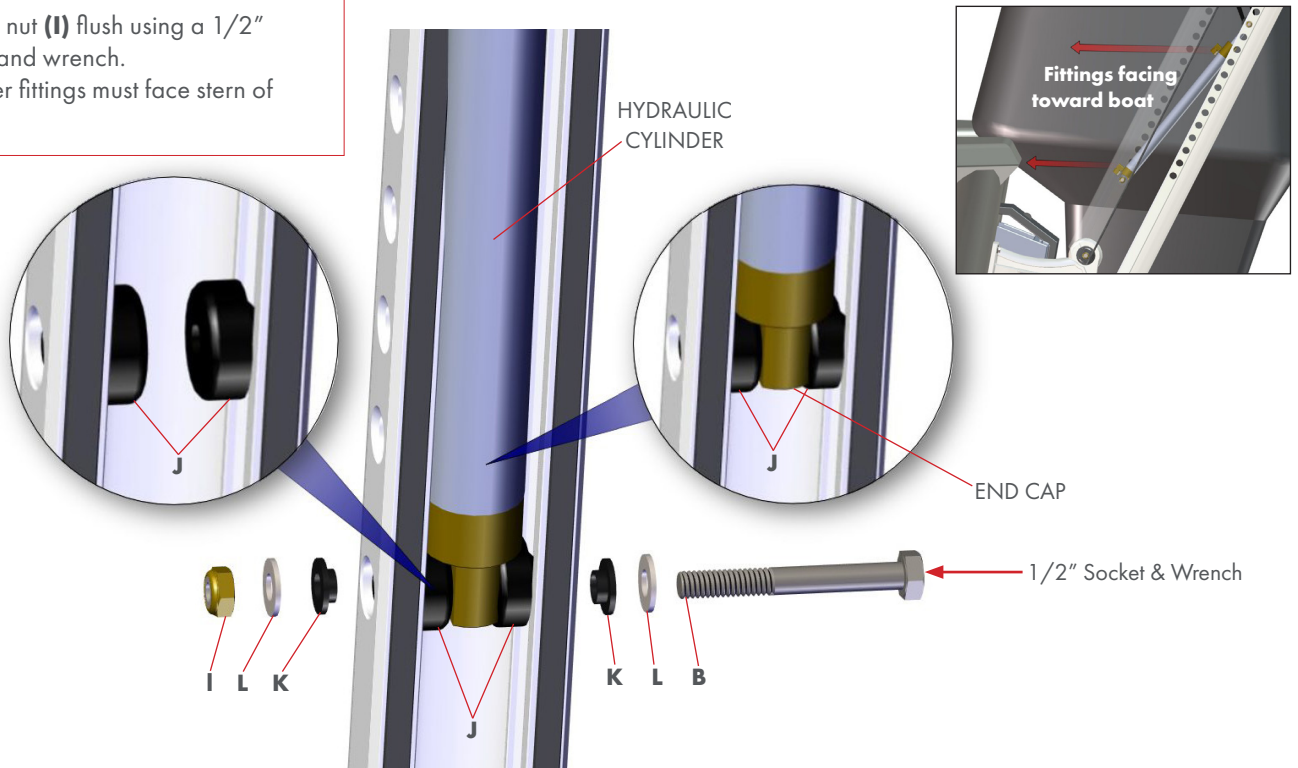
- Use spreader block (**Q**) to remove cylinder and stabilizer bar from u-channel.
- May need to drive out bearings (**M**) using a 1/4" flat punch and rubber mallet.
- Tighten nut (**I**) flush using a 1/2" socket and wrench.
- Cylinder fittings must face stern of boat.



## BOLT SET FOR BLADE CYLINDER END CAP

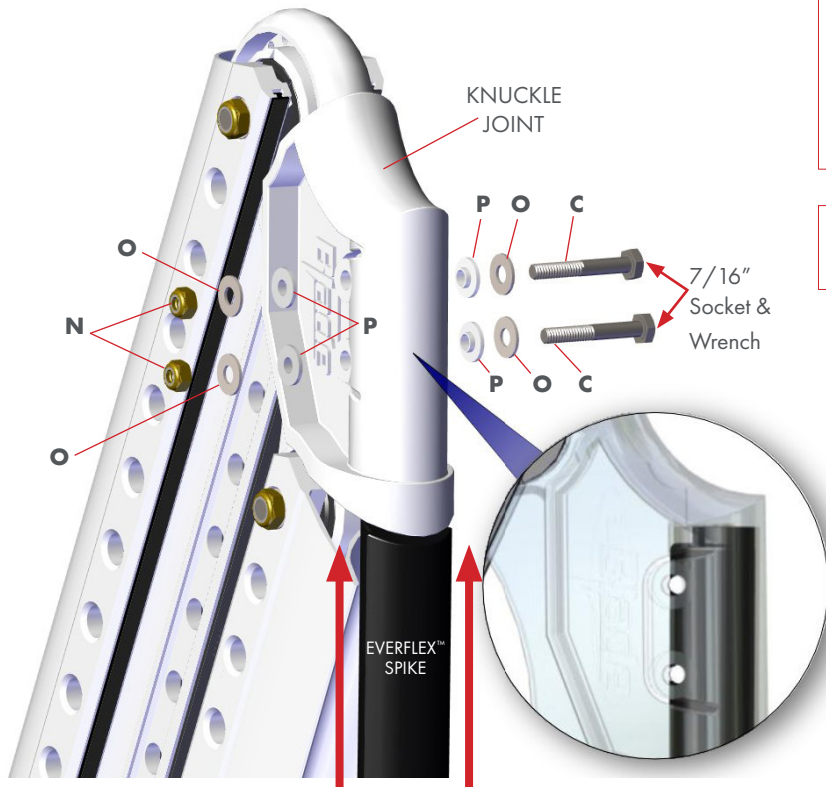
### NOTES:

- Tighten nut (**I**) flush using a 1/2" socket and wrench.
- Cylinder fittings must face stern of boat.



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## BOLT SET FOR BLADE SPIKE



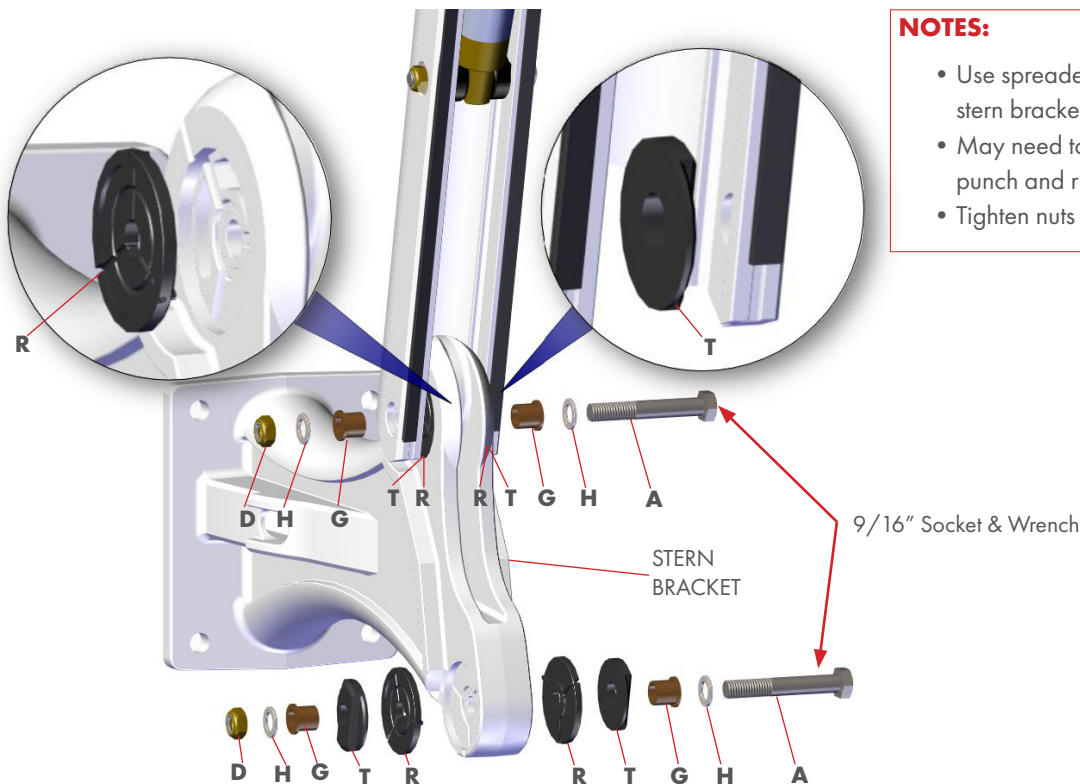
### NOTES:

- If replacing spike, apply Green Marine fluid or grease to top portion of spike before inserting.
- Tighten nuts (**N**) snug using a 7/16" socket and wrench.

**IMPORTANT!** Use bushings (**P**) on the nut side of bolt for metal knuckle joints **only**.

**Everflex™ Spike NOT included with rebuild kit.** If a replacement is needed, visit an authorized dealer or call customer service at **1+813-689-9932 opt. 2.**

## BOLT SET FOR BLADE STERN BRACKET (UPPER OR LOWER)



### NOTES:

- Use spreader block (**Q**) to remove u-channel from stern bracket.
- May need to drive out bearings (**G**) using a 1/4" flat punch and rubber mallet.
- Tighten nuts (**D**) snug using 9/16" socket and wrench.

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# BOLT SET FOR 3-PIECE BLADE STERN BRACKET

## IMPORTANT! READ BEFORE PROCEEDING!

The following instructions are meant to serve as a guide for tearing apart and rebuilding a 3-piece stern bracket. Depending on the hardware being replaced, some steps may not need to be performed and some hardware may not be used.

## PRESSURE RELIEF

- STEP 1** Lower the Power-Pole Anchor down so the Everflex spike is about a foot off the ground.
- STEP 2** Manually push the anchor into closed position, relieving pressure. Manually lower the anchor back to the ground.

**IMPORTANT!** Pressure **MUST** be relieved from hydraulic system before proceeding.

## STERN BRACKET DISASSEMBLY

**STEP 1** Remove the (8) **phillips-head screws** that hold the (2) **shrouds** to the stern bracket assembly using a phillips screw driver. Then, remove **shrouds**. **FIG 1**

**STEP 2** Disconnect the **UP hose** from the **hydraulic cylinder fitting** by holding the **cylinder fitting base** with a **1/2" wrench** and turning the **hydraulic hose fitting** counter-clockwise with a **5/8" wrench**. **FIG 2**

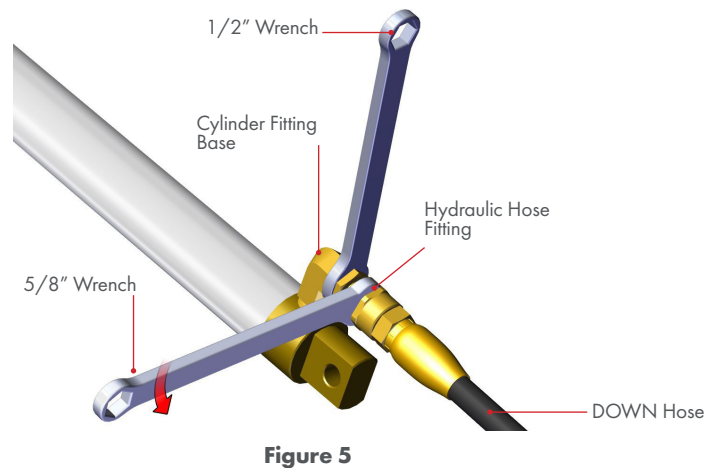
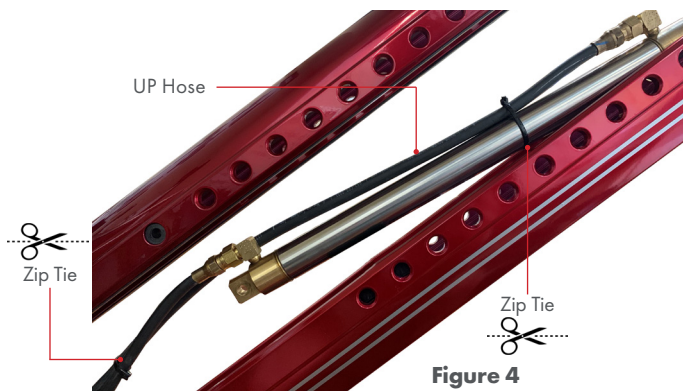
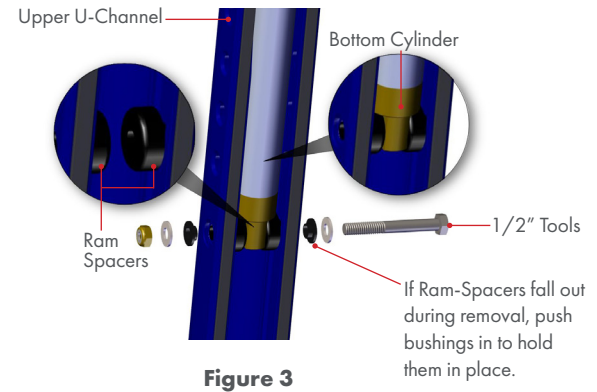
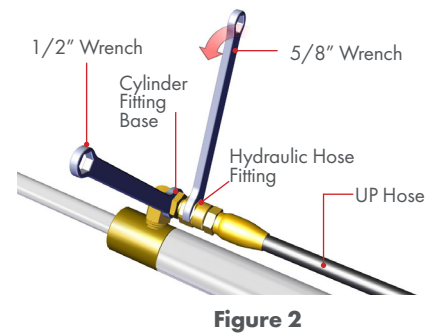
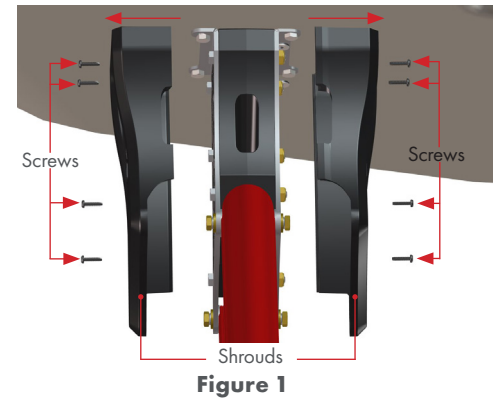
**NOTICE:** Lay **hydraulic hose fitting** down on clean surface to avoid contamination.

**STEP 3** Remove the **bottom cylinder** from the **upper u-channel** using a **1/2" socket & wrench**. Push bottom of cylinder up into **u-channel** and slide it forward past the **ram spacers** to remove it. **FIG 3**

**STEP 4** Cut the (2) **zip ties** with a knife or scissors. **DO NOT** cut through hoses. **FIG 4**

**STEP 5** Disconnect the **DOWN hose** from the **hydraulic cylinder fitting** by holding the **cylinder fitting base** with a **1/2" wrench** and turning the **hydraulic hose fitting** counter-clockwise with a **5/8" wrench**. **FIG 5**

**STEP 6** Pull the hoses back through the holes in the **stern bracket**.



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# BOLT SET FOR 3-PIECE BLADE STERN BRACKET

## STERN BRACKET DISASSEMBLY (continued)

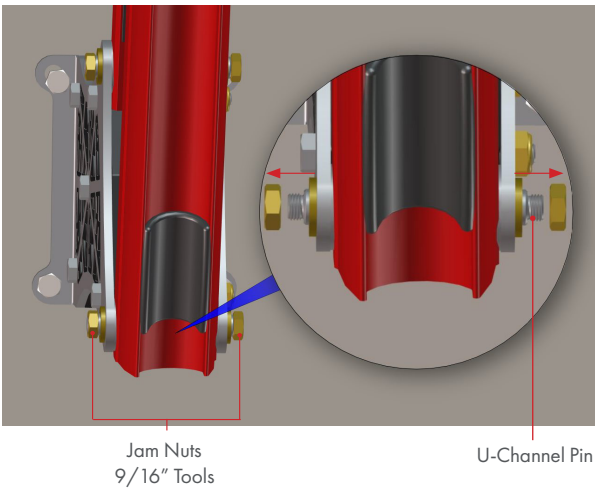
**STEP 7** Hold one of the **jam nuts** with a **9/16" wrench** and place the **impact wrench** on the other. Then, loosen and remove **jam nuts** with the **impact wrench**. Only one **jam nut** will come free. **FIG 6**

**STEP 8** Drive the **u-channel pin** out of the stern bracket using a **hammer** and a **1/4" punch** or **5/16" bolt**. **FIG 6**

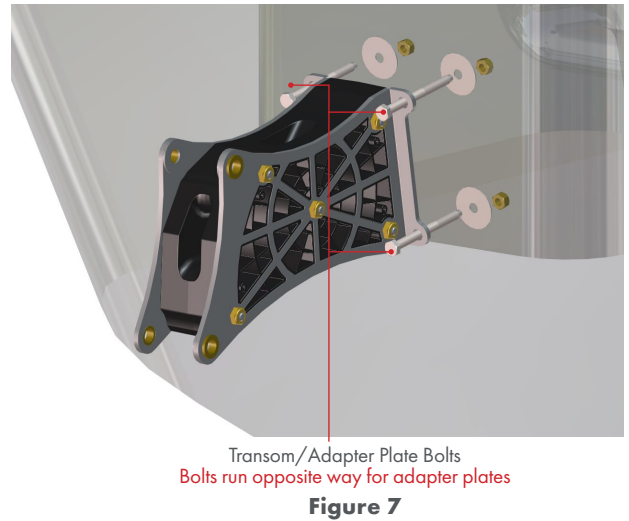
**STEP 9** Repeat **STEPS 7-8** for the other u-channel pin.

**STEP 10** Remove the Power-Pole assembly from the **stern bracket**.

**STEP 11** Remove the **stern bracket** by removing the **(4) bolts** that attach it to the boat transom/adapter plate using a **9/16" socket & wrench**. **FIG 7**



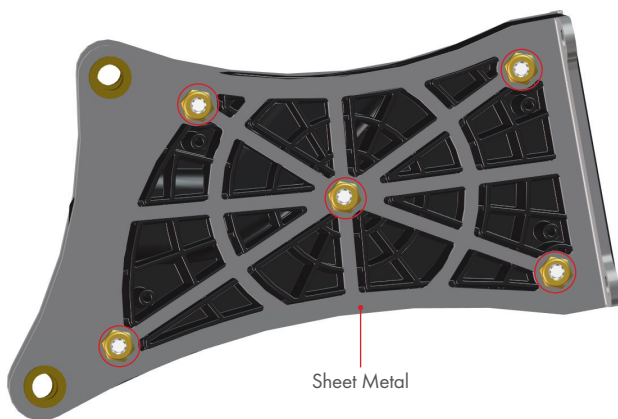
**Figure 6**



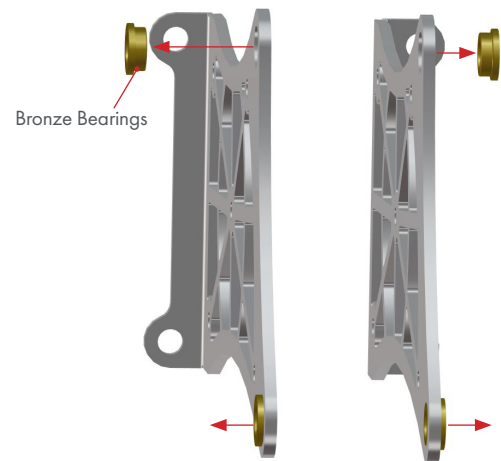
**Figure 7**

**STEP 12** Remove the **(5) 5/16" lock nuts** and **(5) 5/16" bolts** that attach the **left and right sheet metals** to the stern bracket core using a **1/2" socket & wrench**. **FIG 8**

**STEP 13** Drive the **(4) bronze bearings** out of each **sheet metal**. **FIG 9**



**Figure 8**  
Lock Nut Location



**Figure 9**  
Bearing Removal

# BOLT SET FOR 3-PIECE BLADE STERN BRACKET

## STERN BRACKET ASSEMBLY

**STEP 1** Install the (4) **bronze bearings (U)** into the **sheet metal**. **Bronze bearings (U)** need to be driven into the **sheet metal** with a rubber mallet until flush. **FIG 1**

**STEP 2** Line up the u-channel with **bronze bearings (U)** and install each **u-channel pin** through the **sheet metal**, **plastic washer (W)**, u-channel, and **stern bracket core**. **FIG 1**

**STEP 3** Place a **plastic washer (W)** on each **u-channel pin** and install the other **sheet metal**. If there is space between the sheet metal and threads on the **u-channel pin**, install either (1) or (2) **1/2" washers (X)** to the **u-channel pin**. Install a **jam nut (V)** on each **u-channel pin** and tighten snug using a **9/16" socket & wrench**. **FIG 1**

**IMPORTANT!** Do not use an impact to tighten **jam nuts (V)**.

**STEP 4** Insert the (5) **5/16" bolts** into the **stern bracket** assembly and tighten the (5) **5/16" lock nuts (I)** with a **1/2" socket & wrench**. **FIG 2**

**STEP 5** Attach **stern bracket** to **transom/adaptor plate** using a **9/16" socket & wrench** following **FIG 7** of **DISASSEMBLY** section.

**IMPORTANT!** For transom installs, apply a liberal amount of **Marine-Grade Sealant** between the **Sheet Metal** and **Hull** as well as around **Transom Bolt Holes**.

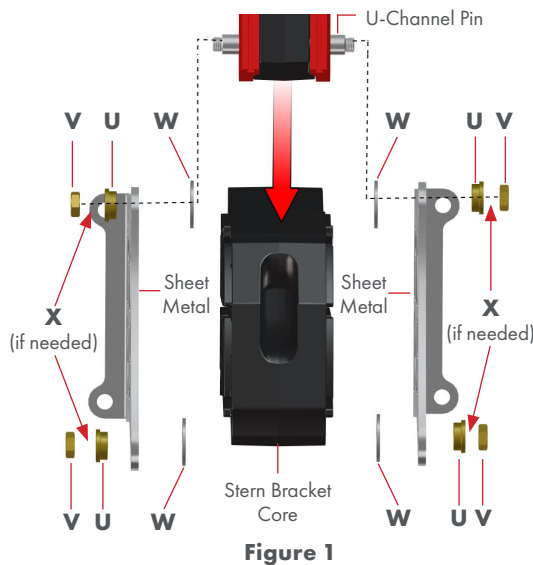


Figure 1

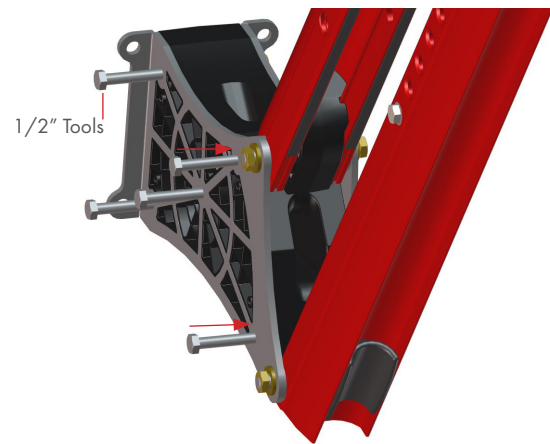


Figure 2

**STEP 6** Re-route hoses through **stern bracket**. **UP hose** goes on the bottom & **DOWN hose** goes on the top.

**STEP 7** Finger tighten the female end of the **UP hose** to the top **cylinder fitting** (on bottom u-channel).

**STEP 8** Hold the **cylinder fitting base** with a **1/2" wrench** and tighten the **hose fitting** clockwise a quarter turn with a **5/8" wrench**. **FIG 3**

**STEP 9** Repeat **STEPS 7 & 8** for the **DOWN hose** (on top u-channel). **FIG 4**

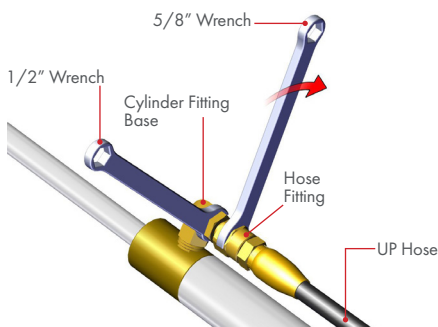


Figure 3

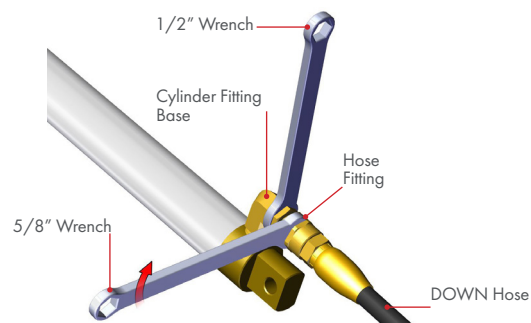


Figure 4

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# BOLT SET FOR 3-PIECE BLADE STERN BRACKET

## STERN BRACKET ASSEMBLY (continued)

**STEP 10** Zip-tie the **UP hose** 2/3 of the way up the **cylinder**. It will run beside the **bottom cylinder fitting** and lay on top of the **cylinder**. **FIG 5**

**STEP 11** Zip-Tie the **UP & DOWN hoses** together halfway between the **bottom cylinder fitting** and the point at which the hoses enter the stern bracket. **FIG 5**

**STEP 12** Re-attach the **bottom cylinder** to the upper u-channel. **FIG 6**

**STEP 13** Reinstall the (2) plastic shrouds using the (8) phillips head screws.

**NOTICE:** Push the **cylinder** up into the **u-channel** and slide it backwards into place in between the **ram spacers**.

**STEP 14** Run Power-Pole Anchor® through several cycles (Up & Down) to purge any air that may exist in hoses.

**NOTICE:** If necessary, full priming instructions may be found in the Installation & Owner's Guide.

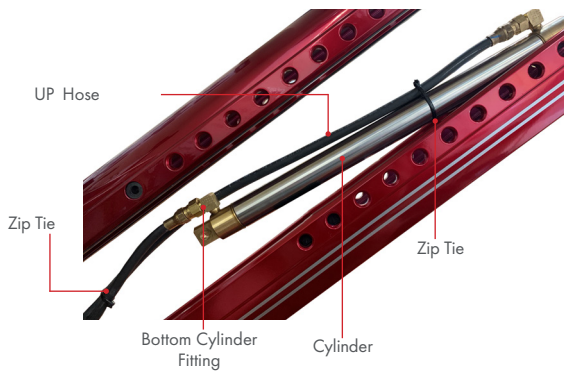


Figure 5

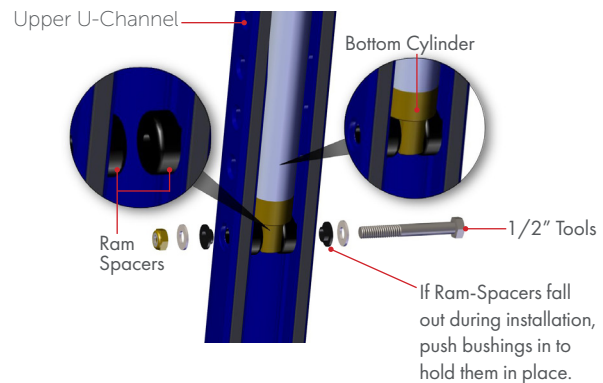


Figure 6

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