

June 2012

TRACKER  
MARINE GROUP 

## **TRACKER TECH & HOW-TO**

### **GENERAL INSTRUCTION**

### **TIE DOWN ACTUATOR INSTALL**

### **PART #161986 ACTUATOR**

**THE FOLLOWING SLIDES ARE A GENERAL GUIDE FOR PART #161986 ACTUATOR INSTALL FOR ANY TRAILSTAR TRAILER EQUIPPED WITH THIS ACTUATOR FROM THE FACTORY.**

**THE INFORMATION PROVIDED IS A RESOURCE FOR INSTRUCTION INTENDED AS A GENERAL GUIDE FOR THIS AND OTHER SIMILAR APPLICATIONS.**

**SPECIFICATIONS ARE ALWAYS SUBJECT TO CHANGE IN THE MANUFACTURING PROCESS SO SOME PORTIONS OF THIS GUIDE MAY NOT DIRECTLY APPLY TO CERTAIN TRAILERS AND MODELS. SOME MINOR ADJUSTMENTS MAY BE NECESSARY TO COMPLETE INSTALL.**

# **Actuator Replacement**

**Tie Down Engineering**

**Actuator #48867K**

**Tracker Marine Group**

**Part #161986**

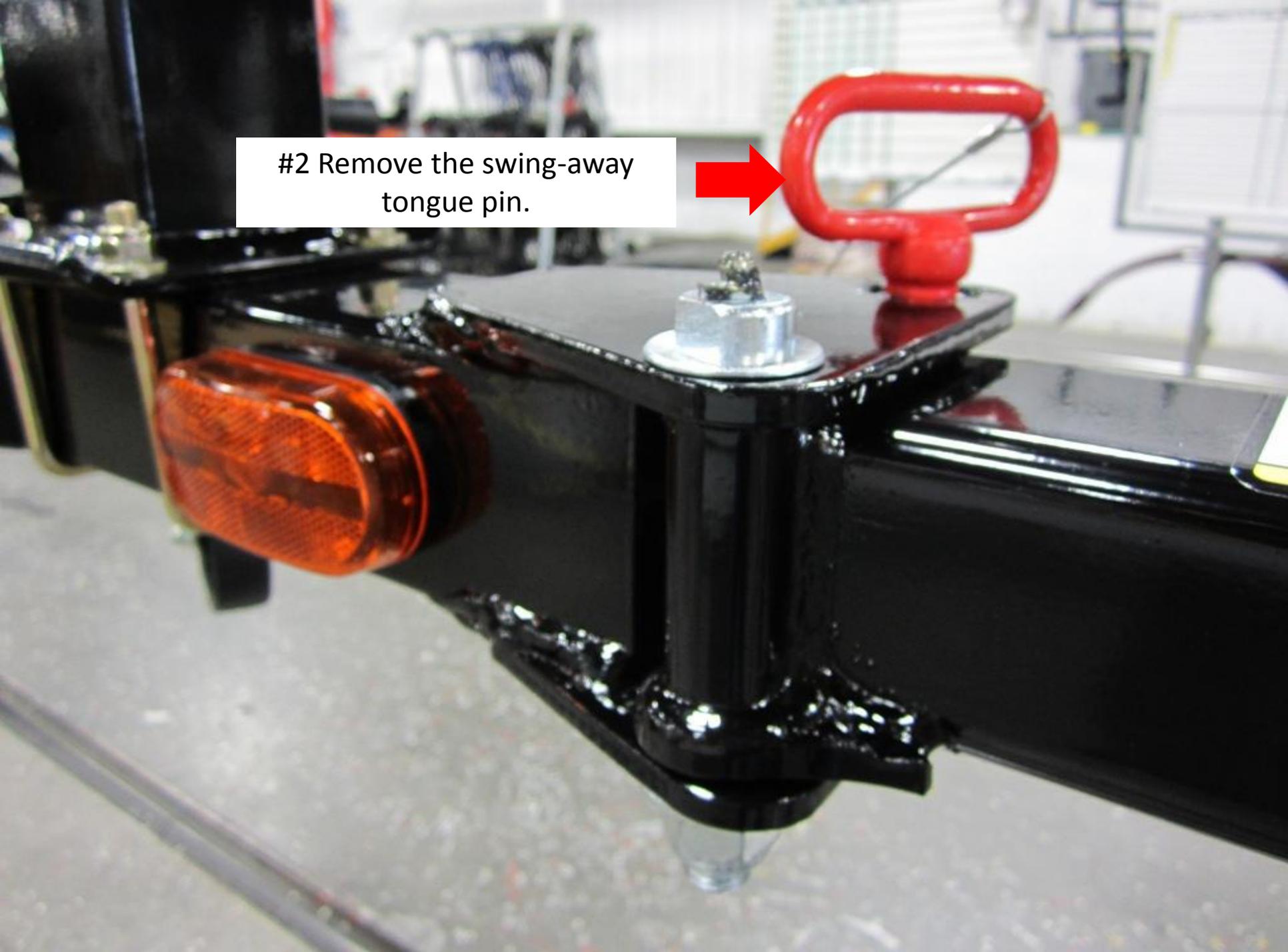
# Tools Needed

- 1- 3/8" Open end wrench
- 1- 1/2" Open end wrench
- 1- 7/16" Open end wrench
- 1- 9/16" Open end wrench
- 1- 3/4" Open end wrench
- 1- 3/4" Socket
- 1- 3/16" Allen wrench
- 1- Ratchet
- 1- Wire cutter



#1 Locate the brake line union behind the tongue brace. Disconnect union with a 3/8" and a 7/16" wrench.

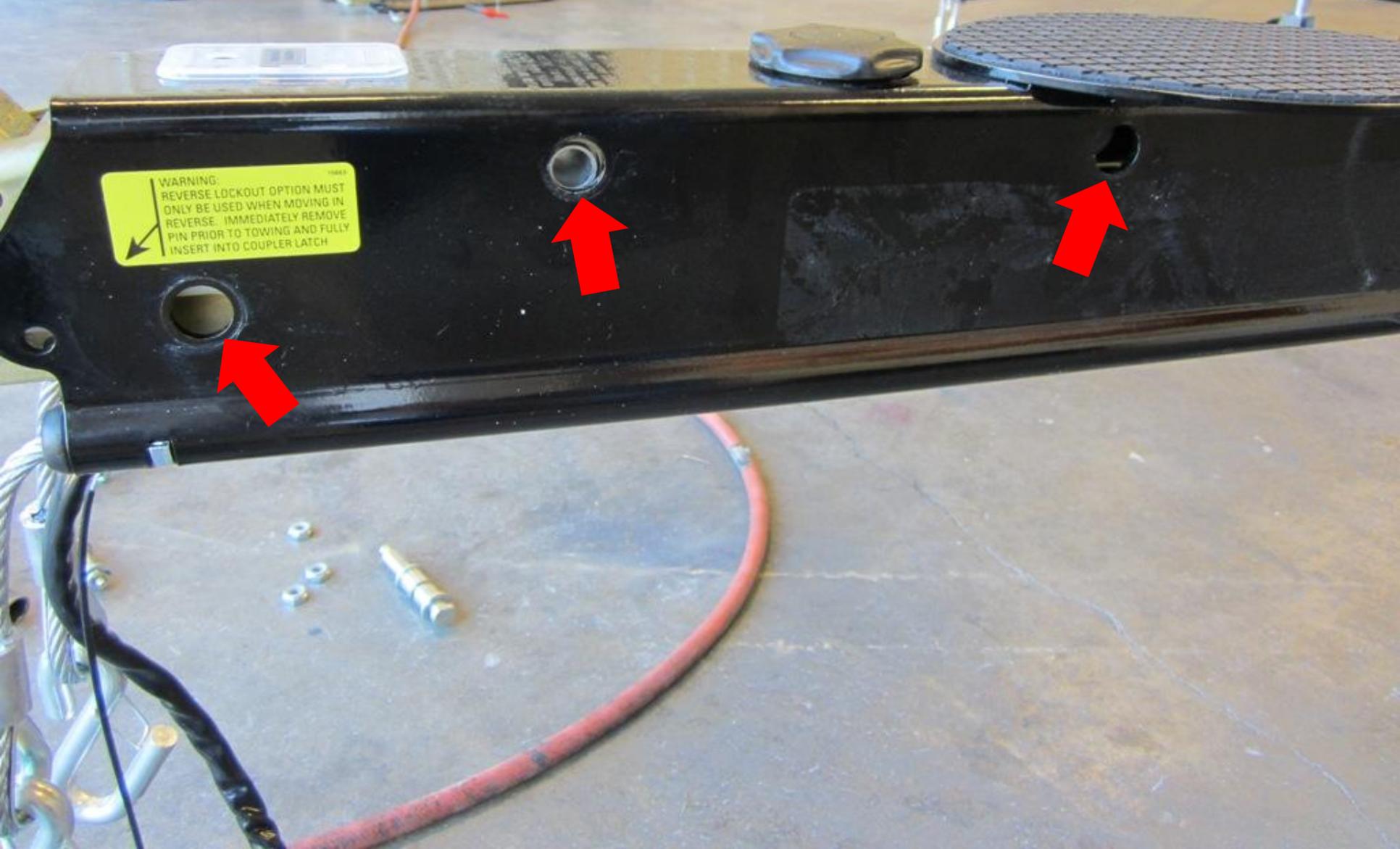
#2 Remove the swing-away  
tongue pin.



#3 Using a 9/16" and a 3/4" wrench, along with a 3/4" socket and ratchet, remove the actuator pins. (Reference next picture)



#3 (continued)  
Remove all 3 actuator pins  
located as shown.

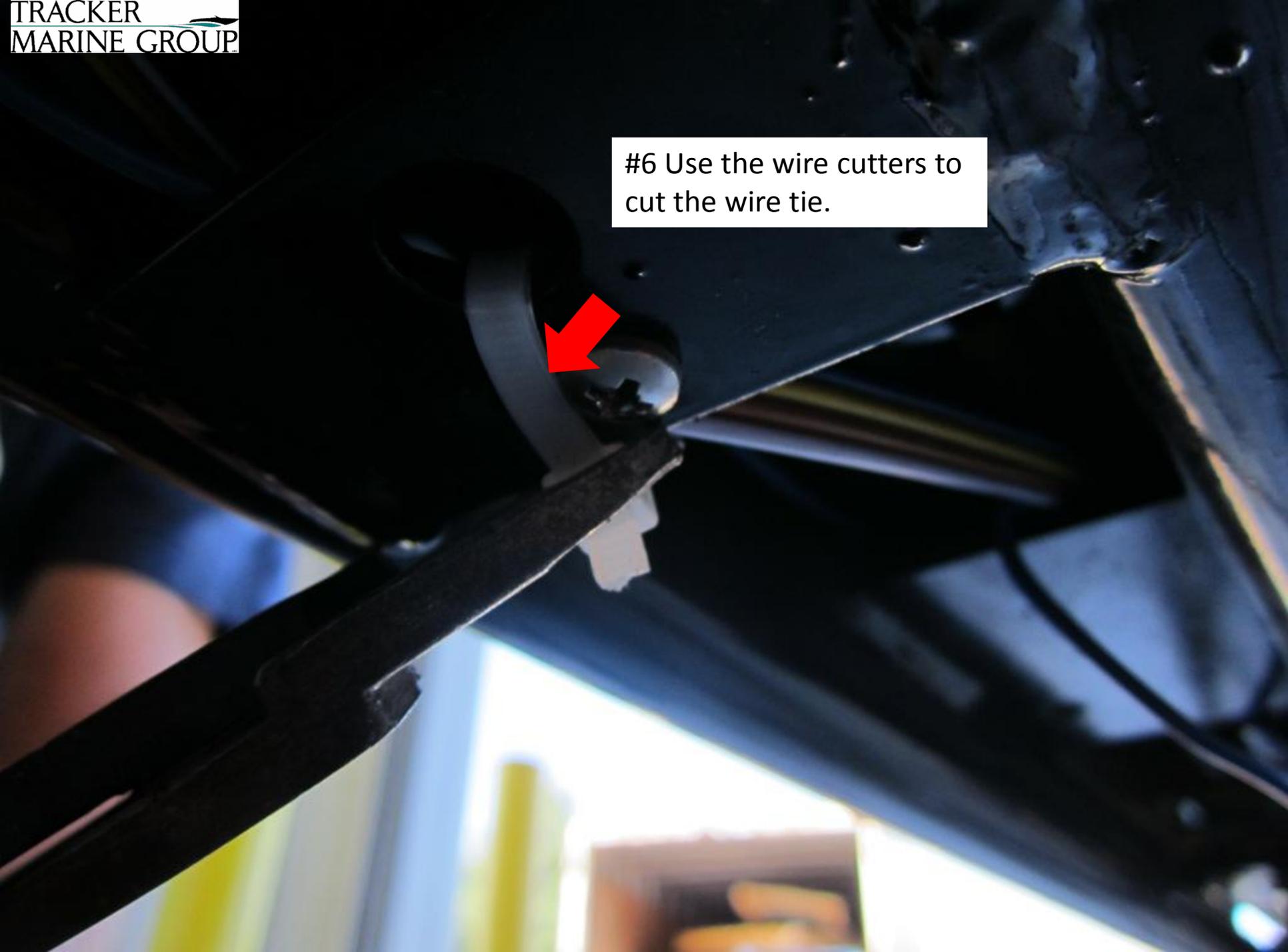


#4 Under the actuator shell use a 3/16" Allen wrench to loosen set screw.

#5 Disconnect the backup brake wire.



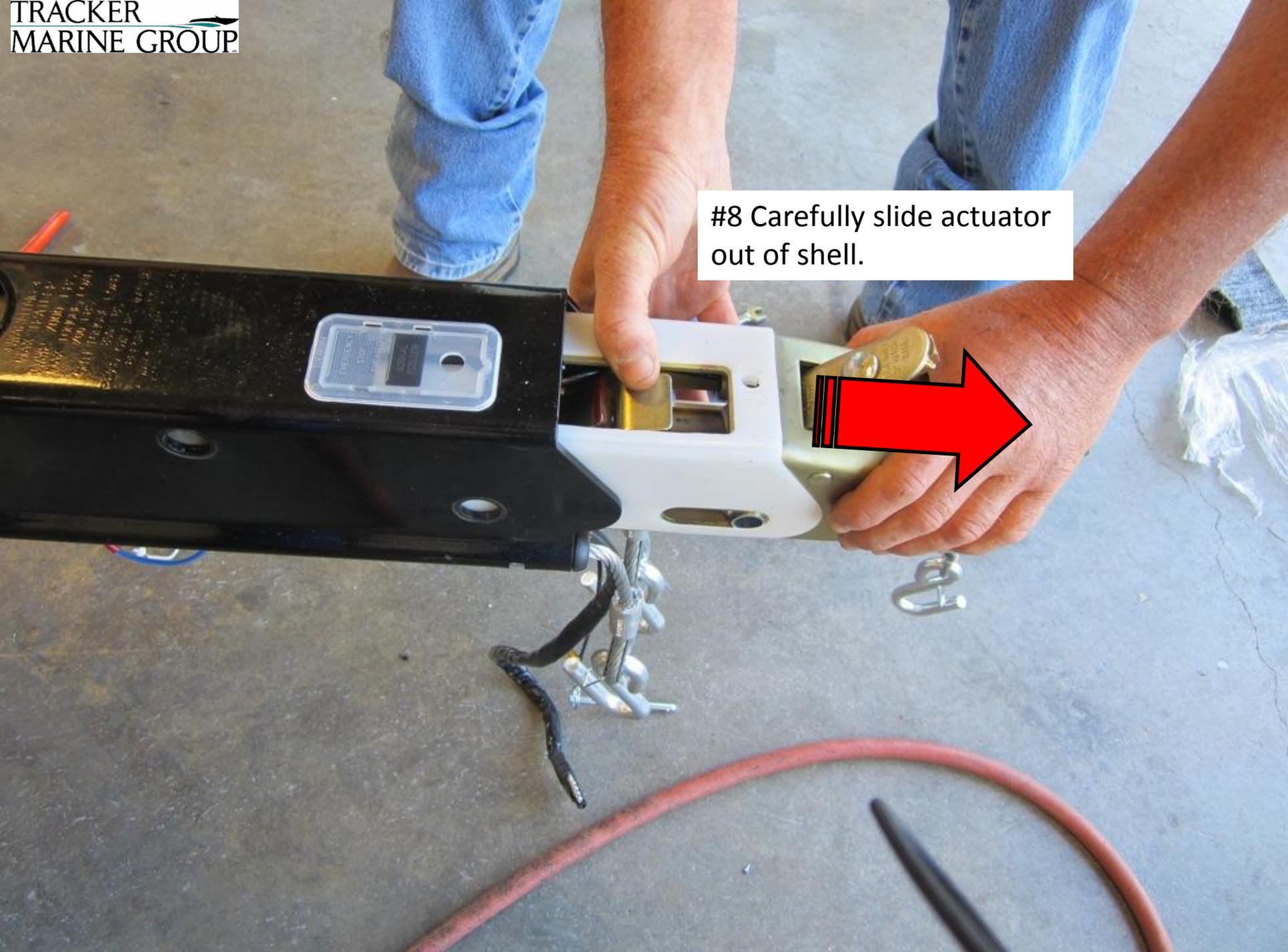
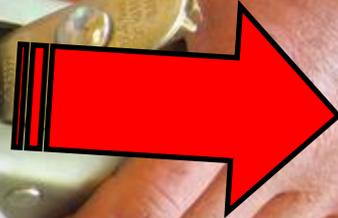
#6 Use the wire cutters to cut the wire tie.



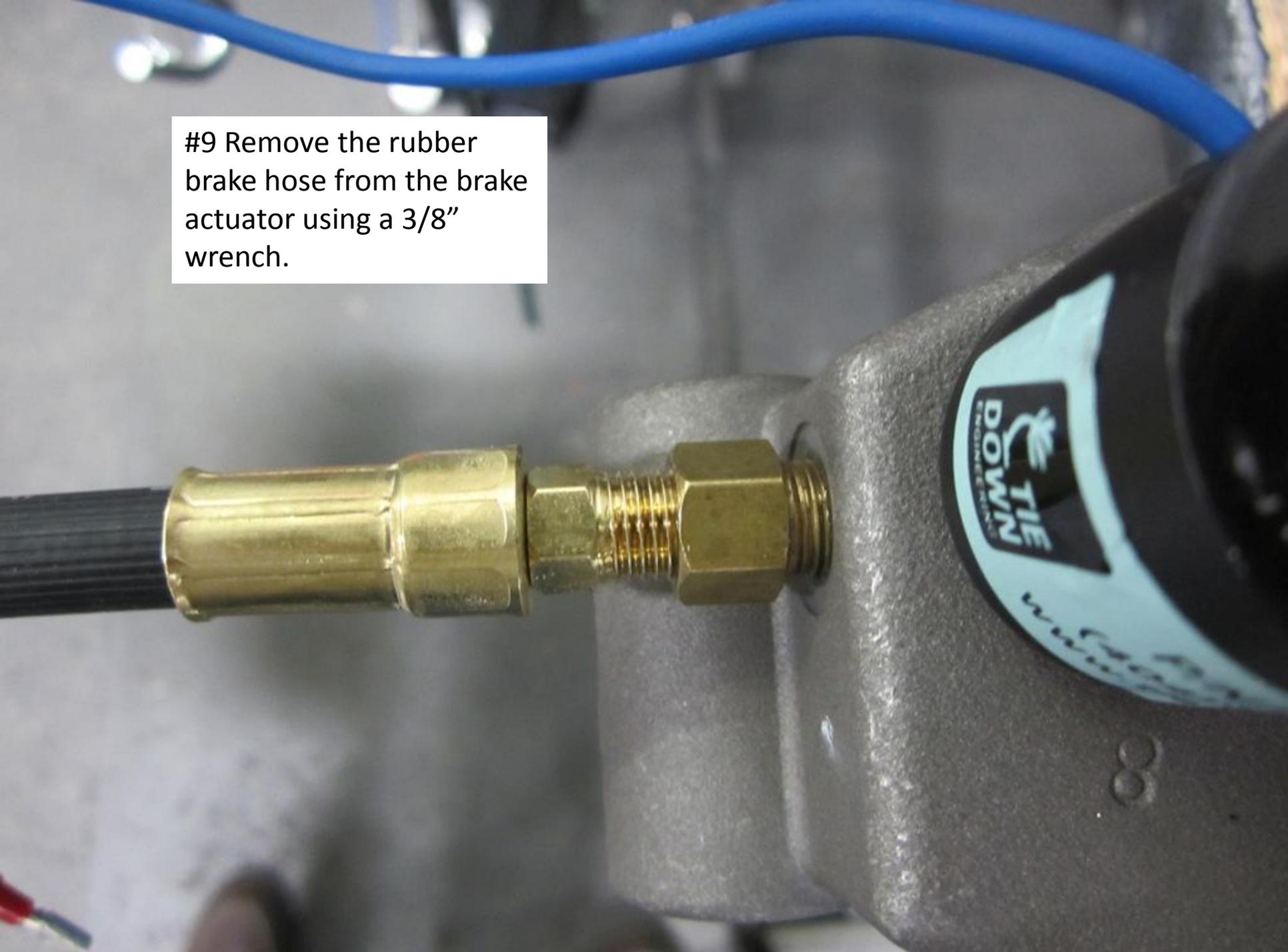
#7 Remove actuator  
reservoir cap.



#8 Carefully slide actuator  
out of shell.



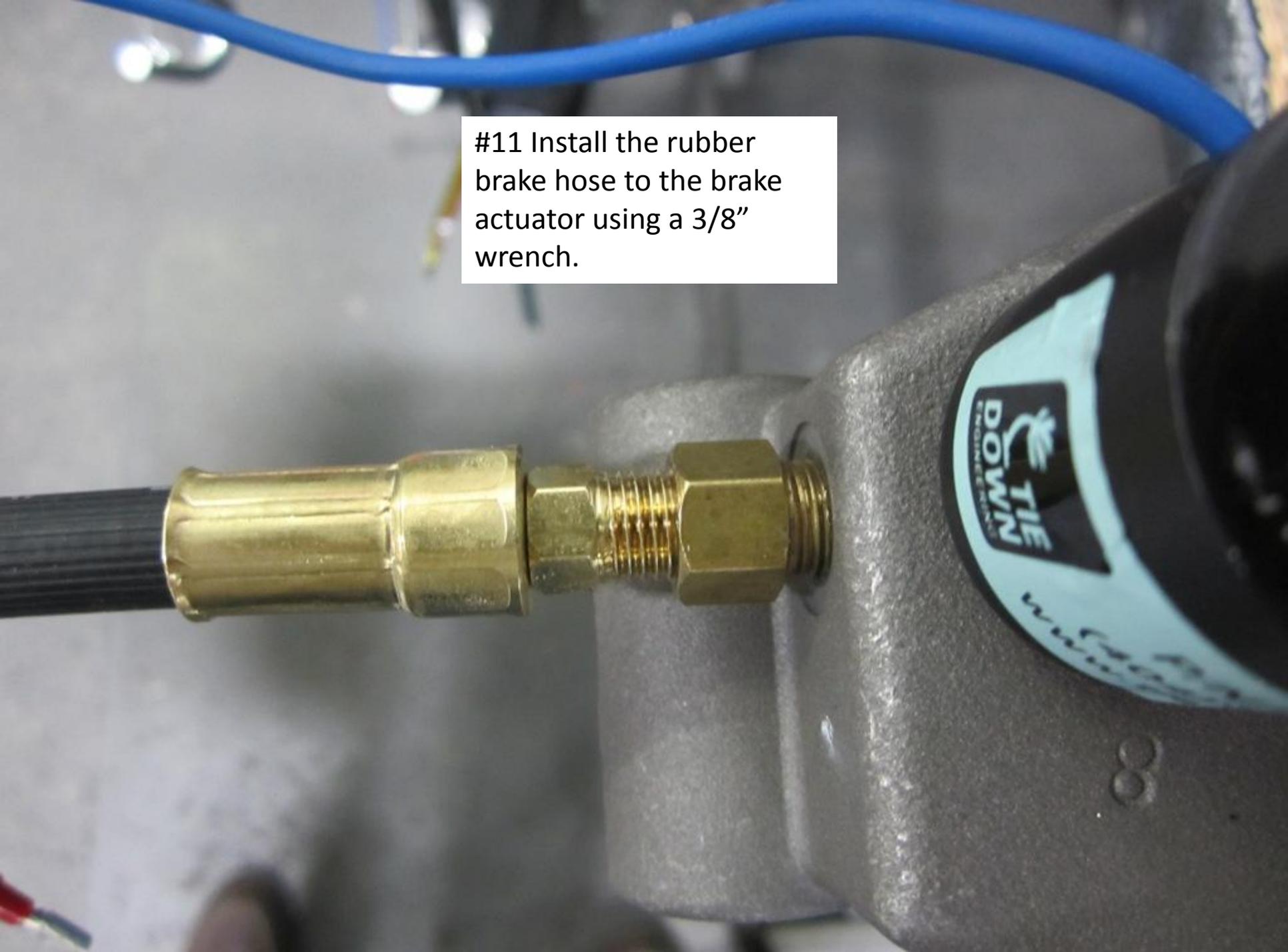
#9 Remove the rubber  
brake hose from the brake  
actuator using a 3/8"  
wrench.



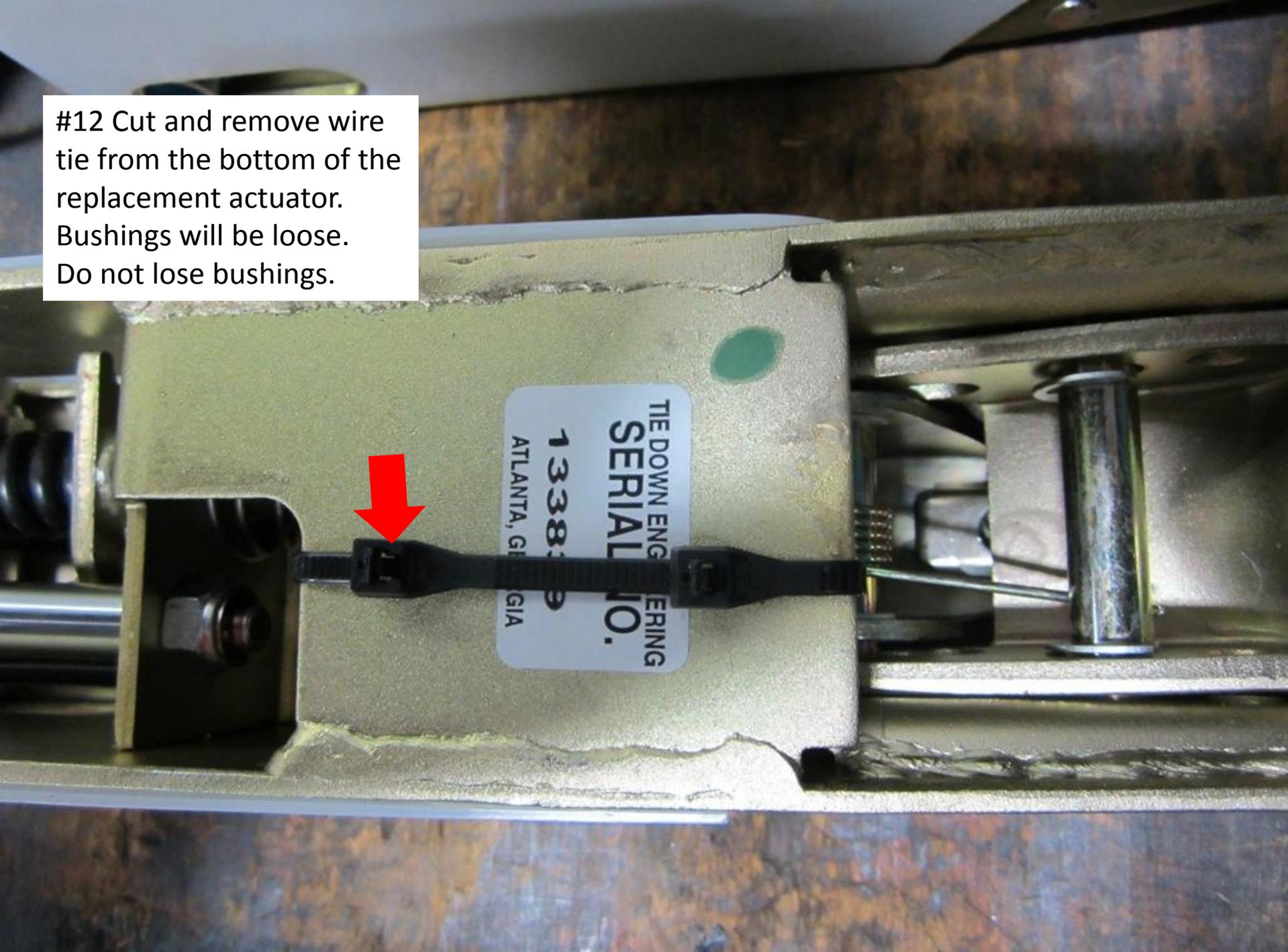
#10 Obtain the new replacement  
brake actuator.

TIE DOWN ENGINEERING  
SERIAL NO.  
133864  
ATLANTA, GEORGIA

#11 Install the rubber brake hose to the brake actuator using a 3/8" wrench.



#12 Cut and remove wire tie from the bottom of the replacement actuator. Bushings will be loose. Do not lose bushings.



#13 Cut and remove wire tie from the top of the replacement actuator. Bushings will be loose. Do not lose bushings.



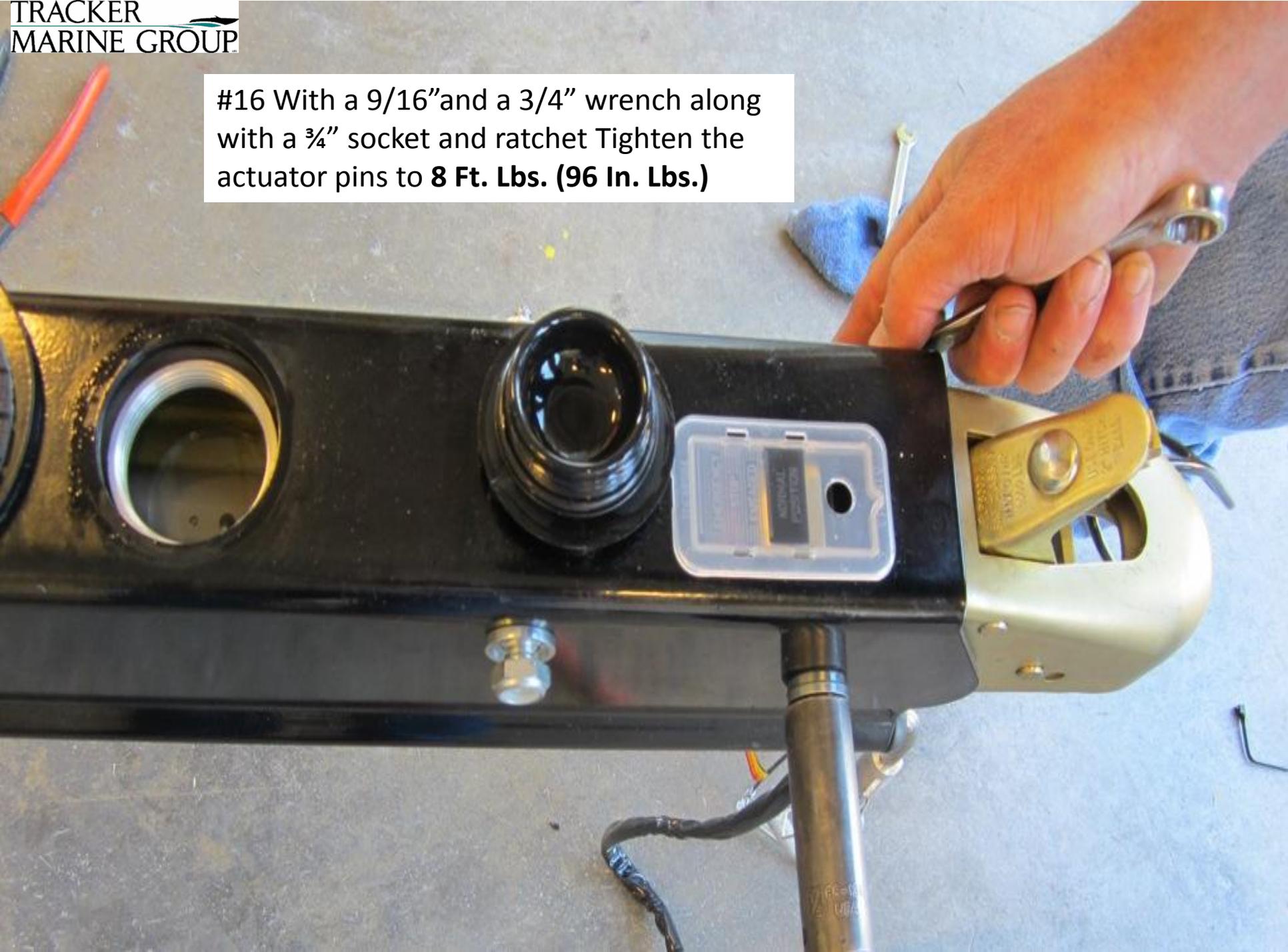
#14 Carefully slide actuator into the actuator shell. Be careful not to cut the trailer wiring harness.



#15 Assemble the 3 actuator pins through the bushings and thread the nuts onto the pins.



#16 With a 9/16" and a 3/4" wrench along with a 3/4" socket and ratchet Tighten the actuator pins to **8 Ft. Lbs. (96 In. Lbs.)**



#17 Under the actuator shell use a 3/16" Allen wrench to tighten the set screw. Tighten nut to keep set screw from moving **Do not tighten set screw with wire harness under set screw. Wire harness damage will occur.**



#18 Connect the backup brake wire.

#19 Insert the swing-away  
tongue pin and retainer pin.



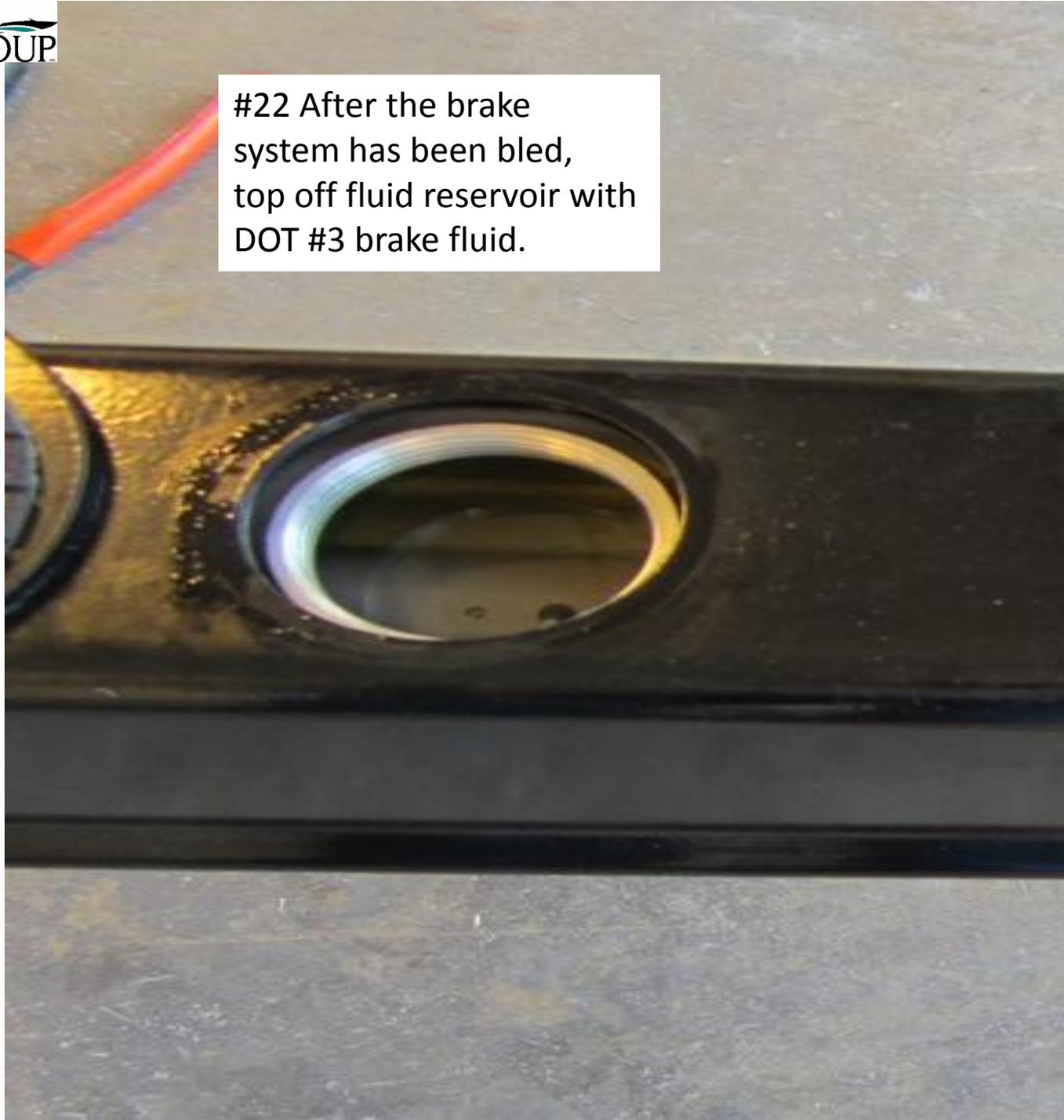


#20 With a 3/8" and a 7/16" wrench reconnect the brake lines as shown.

## #21 Bleed the trailer brakes using DOT# 3 brake fluid.

- \*Tire and wheel removal may be necessary to reach the caliper bleeders**
- \*Torque wheel lug nuts to 90 ft-lb**

#22 After the brake system has been bled, top off fluid reservoir with DOT #3 brake fluid.



#23 Install actuator  
reservoir cap.

Install is complete.

