



2008+ Scion xB QuickLIFT Installation Guide

Step 1 - Unpack QuickLIFT system and verify contents.

Remove all items from the packing tube. You should have the following before beginning:

- * (2) Gas springs (RT-QL-170-6A) - Be sure to cycle them a few times before installing.
- * (4) 3/16" multi-grip rivets (used on hood brackets)
- * (2) ball-studs and washers each with a locking nut.
- * Printed Color Instructions
- * (2) Plastic (slide lock end-fittings) - (may already be installed on the gas-spring)

(4 rivets)



(QTY 2)



(QTY 2)



Step 2 - Gather the required tools.

Please gather the following tools before you begin the installation:

- * Power Drill
- * 3/16", indexed #11 drill bits
- * Fine permanent marker or felt tip pen
- * Tape measure or ruler
- * Masking tape
- * Hammer & center punch
- * Rivet gun, capable of 3/16" rivets (most brands can handle this size)



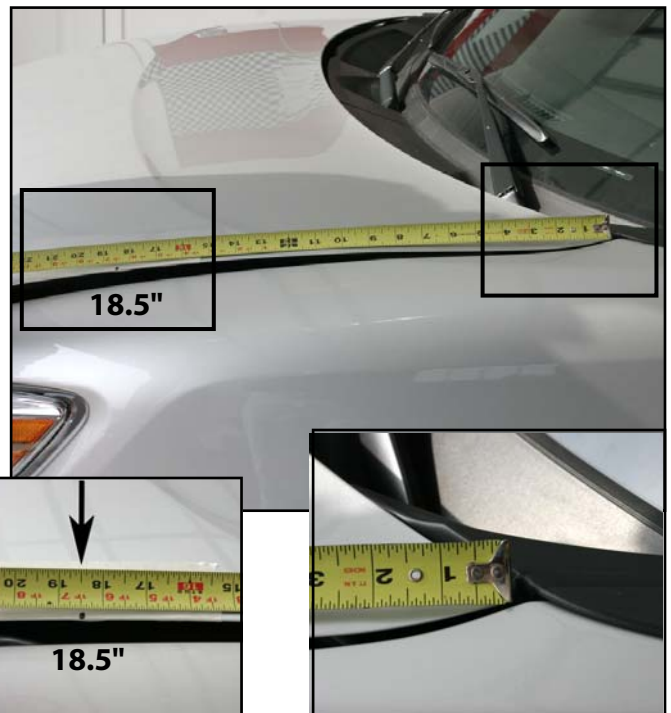
Note: Only use the rivets supplied in the QuickLIFT system.

Recommended: Craftsman standard or Swivel Riveter (shown - 974749) - \$9.99 to \$17.99

Step 3 - Mark centerline of hood bracket location.

- Leave your hood closed.
- Using a piece of masking tape and a permanent marker, carefully measure from the hood's corner (near hinge and windshield) and along the fender line. Wrap the end of the tape measure over the corner lip near windshield and place a mark on the hood masking tape at **18.5"**.

This mark will be used to align the centerline of the bracket's ball-stud in the next step.

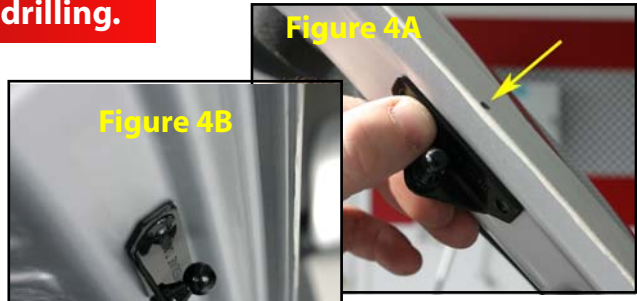


Step 4 - Align bracket and mark lower hole for drilling.

A. Align the center of the bracket with the mark you just made on the hood. You will need to view the hood directly from the side as shown in **Figure 4A**. The bracket should sit on the angled hood frame just inside the round edge with the ball stud facing outward or away from vehicle (**Figure 4B**).

B. Holding bracket in place, mark the center of the lower hole using a permanent felt tip marker or center punch. Be sure the bracket is straight and sitting flat against the frame.

C. Set bracket aside. Using a center punch and a hammer, tap the center of the mark you just made (this indentation will help guide the drill bit and keep it from wandering).



Step 5 - Drill #11 indexed bit hole, or 3/16" hole.

A. Carefully drill the hole as shown to the right using a **#11 indexed bit** or **(use 3/16" bit if #11 bit is not available)**.

If you do not have a #11 indexed bit, you can use the 3/16" bit, however you may have to test fit the rivet and slightly ream hole until rivet fits tightly through bracket and hole - 3/16" is slightly smaller than the #11 bit.

Wrap a piece of electrical tape around the drill bit about 1/4" from the tip to prevent the bit from denting the hood skin. Use new and sharp bits!

Step 6 - Rivet end of bracket to hood.

A. Hold the bracket in position.

B. With the bracket lined up again, place the rivet through the bracket and hole with the long stem sticking outward - The rivet may require a few twists while pushing it in.

C. Check to be sure your rivet gun has the **3/16"** rivet head installed, then slide rivet gun onto rivet. While applying downward force on rivet and bracket, firmly squeeze riveter handle multiple times until rivet gun pops and snaps off the rivet stem.



Riveting Tips: Visit <http://www.redlinetuning.com/QL-tips.html>

Step 7 - Drill and rivet upper hole

A. Reposition or rotate bracket into the proper position against hood lip. Carefully drill the second hole through bracket hole and hood.

Wrap end of drill bit 1/4" down from tip with electrical tape to keep drill bit from pulling through and hitting hood skin.



Step 8 - Repeat steps 3-7 and install the passenger side hood bracket.

A. The vehicle hood has a symmetrical hood frame. Repeat Steps 3-7 to install the upper passenger hood bracket. Take your time.

Step 9 - Position and mark hole for fender ball-stud.

A. **On the inner fender**, locate the hole next to the fender bolt. This hole is located up near the firewall by the hinge.



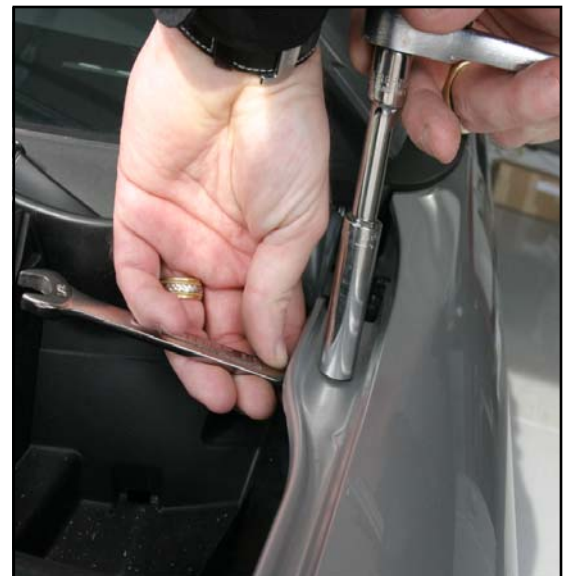
Step 10 - Insert ball-stud, washer/nut on back

A. Insert the ball-stud through the hole. Then slide the washer on the back side followed by the lock-nut.



Step 11 - Attach the ball-stud to the fender.

A. Slide the ball-stud closest to the middle of the car before tightening down the assembly - There is a slight elongation in the mounting hole, clearance is needed along the fender line for the gas-spring assembly so be sure to hold ball-stud assembly toward center of vehicle when tightening.



Step 12 - Repeat steps 9-11 to attach the passenger fender bracket.

A. Repeat Steps 9-11 to attach the passenger side fender bracket. The vehicle is symmetrical so the same locators can be used. Feel free to measure off of key areas to ensure a symmetrical installation.

Step 13 - Cycle both gas springs a few times.

A. **CYCLE EACH GAS SPRING BEFORE INSTALLING - firmly hold a gas spring with both hands by the thick cylindrical end - firmly press down on the floor or carpet and compress the spring. Compress both springs.** Have a friend hold the hood up.

Compress each gas spring a few times - Note: If you unable to compress the gas springs, do not worry. Normal function after installation will also serve the same purpose.



Step 14 - Install gas springs onto fender ball-studs.

- A. Firmly press the open end of the socket onto the ball-stud.
- B. Lower gas spring down such that the locking mechanism is on top.
- C. Slide the locking mechanism over the ball-stud to secure the gas spring. Be sure that the locking clip slides all the way over the ball-stud - this will ensure that this end of the gas spring will not free itself.



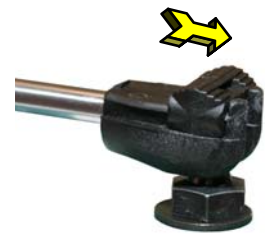
*** SLIDING LOCK MUST BE ON TOP WHEN HOOD IS LOWERED**



A. Snap on socket



B. Lower gas spring



C. Slide clip over ball-stud to lock end-fitting

Step 15 - Insert hood locking clips into ball-stud sockets

A. Holding curved end of locking clip, slide the straight end back through both holes in the hood's ball-stud socket. Once securely through both holes, rotate clip to 'snap' the locking clip onto shaft.

