



Manual Rev.  
1.01  
2/4/05

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## Scion xB QuickLIFT Installation Guide

### Step 1 - Unpack QuickLIFT kit and verify contents.

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

- \* (2) Gas springs - RT-QL-200-A2A. Be sure to cycle them a few times before installing.
- \* (8) 3/16" Multi-grip Rivets
- \* (2) 3/16" Aluminum rivets (high adhesion) - used in center hole of hood bracket.
- \* (2) Fender Steel brackets - ball-stud pointing inward.
- \* (2) Hood Steel brackets - 110 degree angle - outward pointing ball-stud
- \* Printed Color Instructions
- \* Gas Spring clips (installed in gas spring ends - remove before assembly - be careful not to lose them as they will disappear if dropped)



### Step 2 - Gather the required tools.

Please gather the following tools before you begin the installation:

- \* Power Drill
- \* 3/16" and/or indexed #11 drill bit
- \* Fine permanent marker or felt tip pen
- \* Tape Measure
- \* 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 kit.



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

### Step 3 - Mark hood bracket centerline.

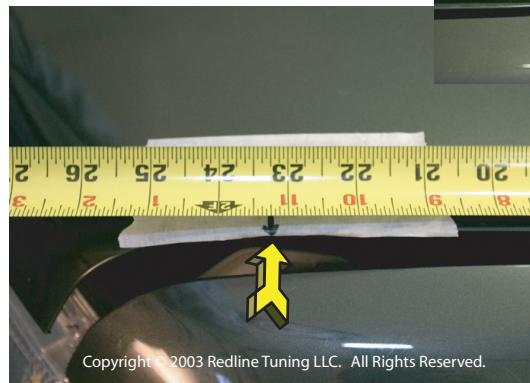
A. Gather masking tape, tape measure, a permanent marker and also the two angled hood brackets.



B. Place a piece of masking tape along the hood's edge near the hood's front edge.



C. Using tape measure, measure from the front corner of the hood **23-1/4"** and place mark on tape - use this line to place the bracket at the centerline of the ball stud shown in the upper right photo.



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## Step 4 - Mark lower hole for drilling.

A. Be sure the bracket is straight and sitting flat against the hood's frame with the ball-stud aligned to the mark you just made. Holding bracket in place, mark the center of the lower hole using a permanent felt tip marker.

B. 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).

Place bracket back in place to be sure it is still centered where it should be.



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

A. Carefully drill the lower bracket 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. Do not use any other drill bit sizes!

**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!**

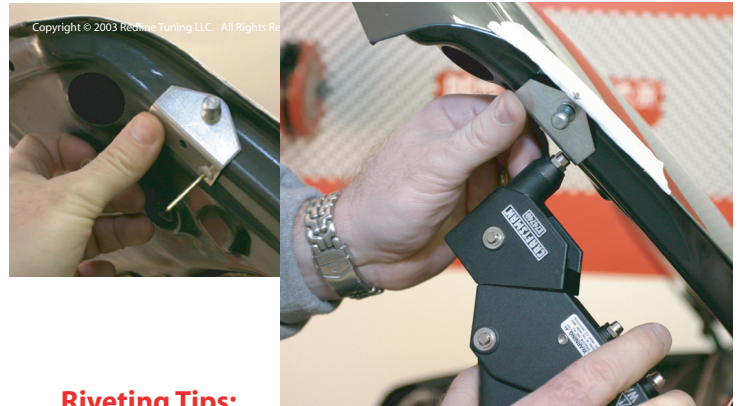


## Step 6 - Rivet lower end of bracket to hood.

A. Hold the bracket in position.

B. With the bracket lined up again, place a rivet through the bracket and hole with the long stem sticking outward - shown to the right. 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 7 - Continued - Drill and install third rivet.

Carefully drill the third center hole - follow same precautions. Then rivet using the Aluminum rivet into this hole (longer rivet, 2 included). This rivet helps stabilize the bracket and should be installed last.



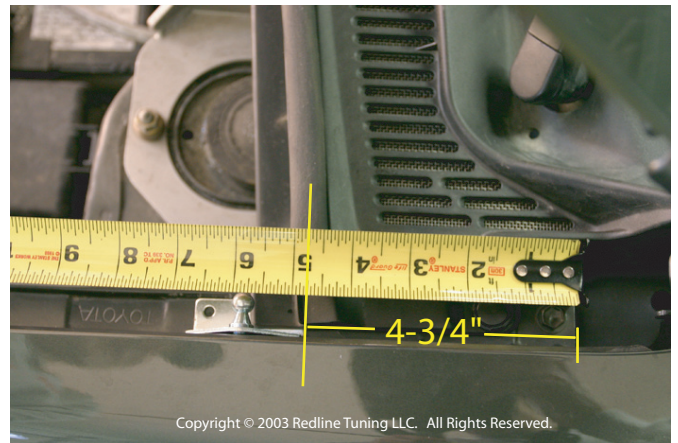
## Step 8 - Repeat steps 3-7 and install the passenger side hood bracket.

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

## Step 9 - Position and mark first hole for driver's side fender bracket.



A. Hold the bracket in position as shown to above. The back of the bracket should sit **up against** the fender with the ball stud pointing inward or toward the vehicle and approximately **4-3/4"** from cowl lip to the edge of the bracket.



Use both photos to for correct placement of the fender bracket.

The bracket will fit nicely between a fender strengthening bump and will slide under the black plastic cowl.

B. Mark left hole using a fine permanent marker.

## Step 10 - Mark hole center before drilling left hole using 3/16" or #11 drill bit.

A. Using a center punch and a hammer, tap the center of the marked hole. This will help guide the drill bit and keep it from wandering during the following step.

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



## Step 11 - Attach the left end of the bracket to fender.

A. Using a color matching paint, touch up the area where you just drilled the hole.

B. Place a rivet through the bracket and hole as shown. Then rivet bracket in place.



## Step 12 - Mark center with marker and indent with center punch.

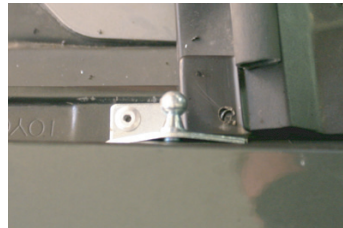
A. Using a permanent marker, mark the right hole of the fender bracket. **The hole is not visible, but the holes are symmetrical about the ball-stud. Place a mark as shown to the right on the cowl plastic about where the hole is underneath.**



B. Using a center punch and a hammer, tap the center of the marked hole.

## Step 13 - Drill second hole and attach bracket.

A. Drill the second hole at the marked position using the same drill bit.



B. Place rivet through hole and rivet into place. The rivet will be on top of the plastic and will secure the bracket in place.



## Step 14 - Repeat steps 9-13 to attach the passenger fender bracket.

A. Repeat Steps 9-13 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 15 - Cycle both gas springs - then install

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. Do this to both springs. Have a friend hold the hood up. Carefully remove the gas spring locking clips from the ends of the ball-stud sockets. You will be reinstalling them in the next step so carefully note how they are removed. DO NOT LOSE THEM.

B. Install the driver's side gas spring with the cylinder at the bottom (large end down). Be sure that the sockets snap securely onto the ball studs. Have friend remain holding the hood up until Step 17 is completed. This procedure is most easily done if the hood ends are snapped on first and attach the lower fender ball studs last.

## Step 16 - Install the gas spring locking clips.

A. Insert the gas spring locking clips.

A. Insert clip into hole.

B. Slide clip down till it stops.

C. Rotate clip until it snaps onto shaft.

