



2008+ Mitsubishi Lancer 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-A6A) - Be sure to cycle them a few times before installing.
- * (4) #2-3/16" Multi-grip rivets (used on hood brackets)
- * (2) ball-studs and washers each with a locking nut.
- * (2) mounting brackets
- * Printed Color Instructions
- * Gas Spring locking clips - (Already installed in the gas spring ball-ends - Remove before assembly)

(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 & 5/16" 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)

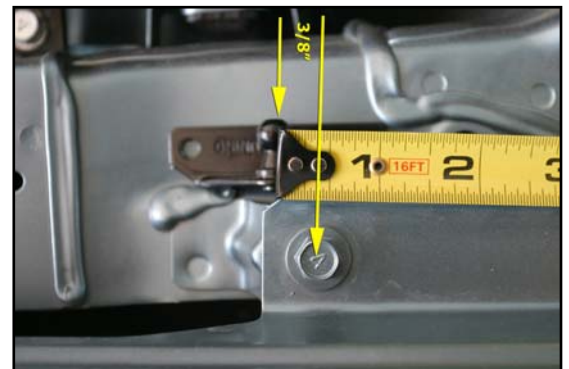
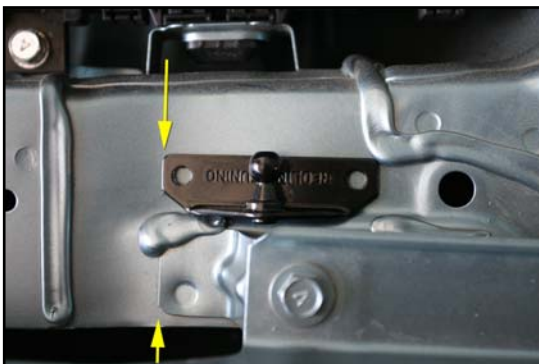


Recommended: Craftsman standard or Swivel Riveter (shown - 974749) - \$9.99 to \$17.99

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

Step 3 - Mark centerline of fender bracket location.

- A. Open and prop your hood.
- B. Standing on the driver's side in the middle of the engine compartment, examine the area on the inner fender lip. Note the overhanging fender mounting bolt. The centerline of this bolt should be used to align the ball-stud mounting bracket (offset 3/8" to the left or front of the vehicle). Back of bracket up against lip.
- C. Place the bracket on the flat surface aligning either the left edge of the bracket with the metal shown below, or using the measurement shown to the right (centerlines offset by 3/8").



Step 4 - Align bracket and mark hole for drilling.

A. Verifying the measurement from Step 3, centerline of bracket should be 3/8" to left of the fender bolt. You will need to view the mounting location directly from the top as shown in **Figure 4A**. The bracket should sit with the left edge aligned with the metal lip shown in the photo and the ball-stud pointing inward toward the engine.

B. Holding bracket in place, mark the center of the right hole using a permanent felt tip marker.

C. Set bracket aside. Using a center punch and a hammer, tap the center of the mark you just made (**Figure 4B**).

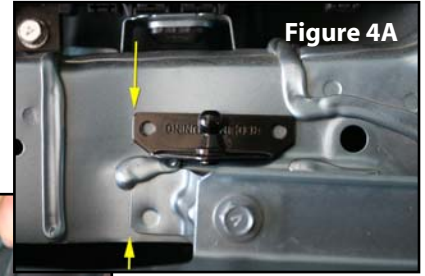


Figure 4A

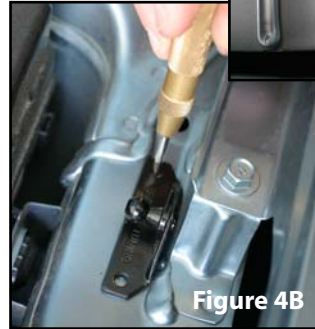


Figure 4B

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 passing too deeply. Use new and sharp bits!



Step 6 - Rivet end of bracket.

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 - 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 hole

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



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

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

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

A. **On the hood hinge**, locate the center end of the location shown to the right. You will marking this hole with a center punch (the upper center point of the indentation on the hinge).

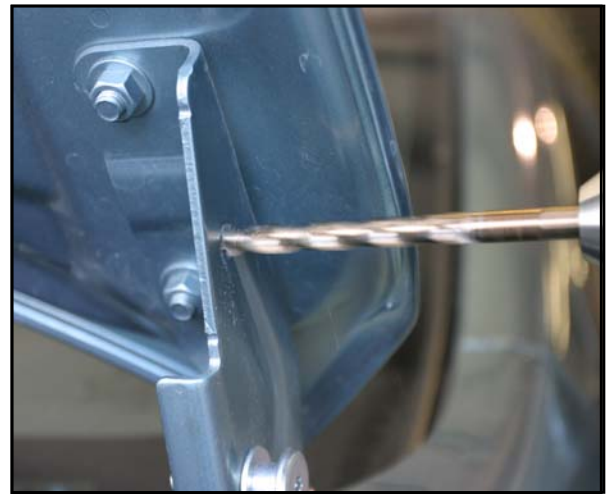
B. Using a center punch, tap the center of the mark you just made - this will help guide the drill bit in Step 10.



Step 10 - Drill hole using 5/16" drill bit.

A. Drill the hole at the marked position using a sharp **5/16" drill bit**.

Tip: First drilling a smaller pilot hole will make the final 5/16" hole much easier to drill.



Step 11 - Attach the ball-stud to the hood hinge.

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

B. Place one washer onto ball-stud shaft, then insert into hole. Ball-stud should point inward or toward the engine with the lock nut on outside. Place the lock-nut onto the ball-stud shaft. Tighten using 1/2" wrenches or a deep well 1/2" socket on ball-stud and a wrench on the locking nut.



Step 12 - Repeat steps 9-11 to attach the passenger side hood ball-stud.

A. Repeat Steps 9-11 to attach the passenger side ball-stud. The vehicle is symmetrical so the same locators can be used to make both sides the same.

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.



A. Securely snap on each end of the gas spring. Install the locking clips in the next step. Large housing end of gas spring attaches to the hood's ball-stud.

Step 15 - Insert gas spring 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.