

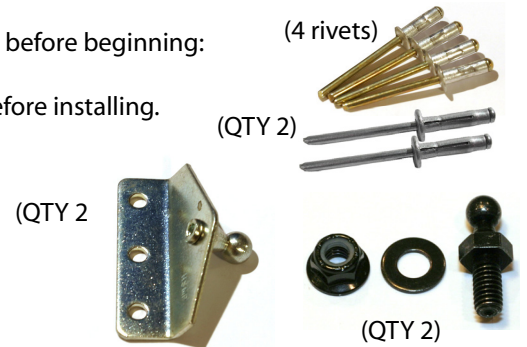


2003-08 Honda Pilot QuickLIFT Installation Guide

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-200-4A) - Be sure to cycle them a few times before installing.
- * (4) 3/16" multi-grip rivets (used on outside holes of hood brackets)
- * (2) 3/16" Aluminum rivets (center hole of hood brackets)
- * (2) ball-studs and washers each with a locking nut.
- * Printed Color Instructions



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 - Position hood bracket mounting location on driver's side of vehicle.

A. Open hood and stand on the driver's side.

B. On inner hood frame, position the hood mounting bracket as shown in the photos to the right. The ball-stud should face inward and down toward the engine with the three mounting holes laying flat on the hood's frame. The center of the bracket should be lined up with the raised ridge on the hood's inner frame.



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

- A. Align the center of the bracket with the ridge on the inner hood frame as described in Step 3.
- B. Holding bracket in place, mark the middle of the center hole using a permanent felt tip marker. Be sure the bracket is straight and sitting flat against the hood's 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 slight 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 center of bracket to hood using Aluminum rivet (center hole only).

- A. Hold the bracket in position.



- B. With the bracket lined up again, place the Aluminum rivet (lighter and longer head) 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 and lower holes

- A. Reposition or rotate bracket into the proper position against hood lip. Carefully drill the lower hole through bracket hole and hood. Rivet into place using the supplied multi-grip rivets (4 included) - these are to be used for the upper and lower holes on each bracket. Follow the same precautions when drilling up through hood frame and install the upper rivet in the same fashion.



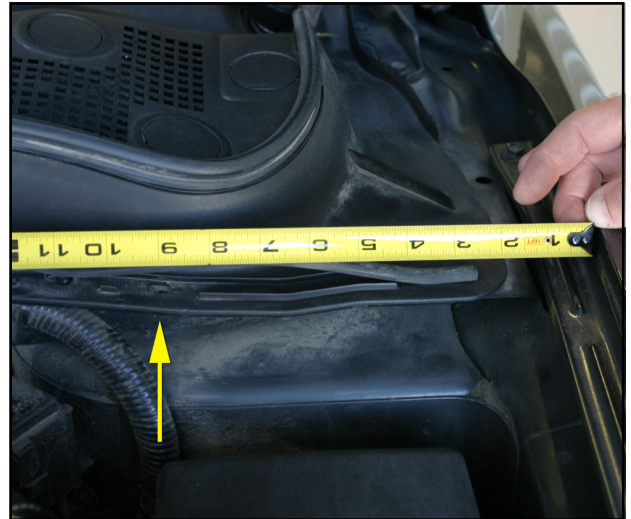
Step 8 - Repeat steps 3-7 and install the passenger side hood bracket.

A. The vehicle 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. Locate and remove the rubber strip at the location **9"** from the inner fender **just in front of the cowl**.

B. Remove the plastic tree that holds down the non-used rubber strip.



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

A. Enlarge the hole using a sharp **5/16"** drill bit.



Step 11 - Attach ball-stud/washer/locknut.

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. Place the lock-nut onto the ball-stud shaft. Tighten using 1/2" wrenches or a deep well 1/2" socket on top and a wrench on the lower locking nut.



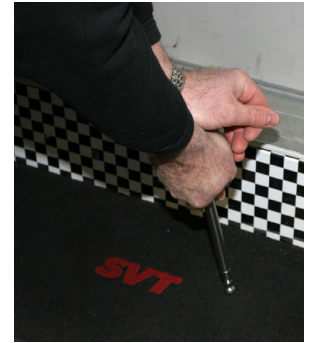
Step 12 - Repeat steps 9-11 to attach the passenger fender bracket.

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.

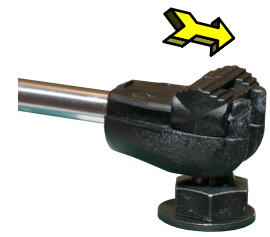
- A. Firmly press the open end of the socket onto the ball-stud.
- B. Lower gas spring down such that the locking mechanism is on top.
- C. Slide the locking mechanism over the ball-stud to secure the gas spring. Be sure that the locking clip slides all the way over the ball-stud - this will ensure that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



A. Snap on socket



B. Lower gas spring



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

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

Step 15 - Install gas springs

A. Snap on the gas springs to the hood's ball-studs. The large end of the gas spring attaches to the hood's ball stud...

