



1987-1996 Chevy Beretta 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 - **Be sure to cycle them a few times before installing!**
- * (4) 3/16" Steel Rivets (short end) - **USED ON HOOD BRACKETS**
- * (4) 3/16" Steel Rivets (longer headed rivets) - **USED ON FENDER BRACKETS**
- * (2) 3/16" Aluminum Rivets - **USED ON HOOD BRACKETS FOR CENTER RIVET**
- * (2) Fender Steel brackets - ball-studs pointing inward
- * (2) Hood Steel brackets - ball-studs pointing outward and brackets angled
- * Printed Instructions
- * Gas spring locking clips (installed on gas springs - remove before assembly - **DO NOT LOSE!**)

Step 2 - Gather the required tools.

Please gather the following tools before you begin the installation:

- * Power Drill
- * 3/16" drill bit
- * Fine permanent marker or felt tip pen
- * Tape Measure or Ruler
- * Hammer & center punch
- * Rivet gun, capable of 3/16" steel rivets - most decent riveters can handle these rivets.

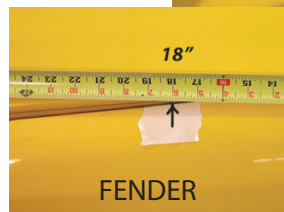
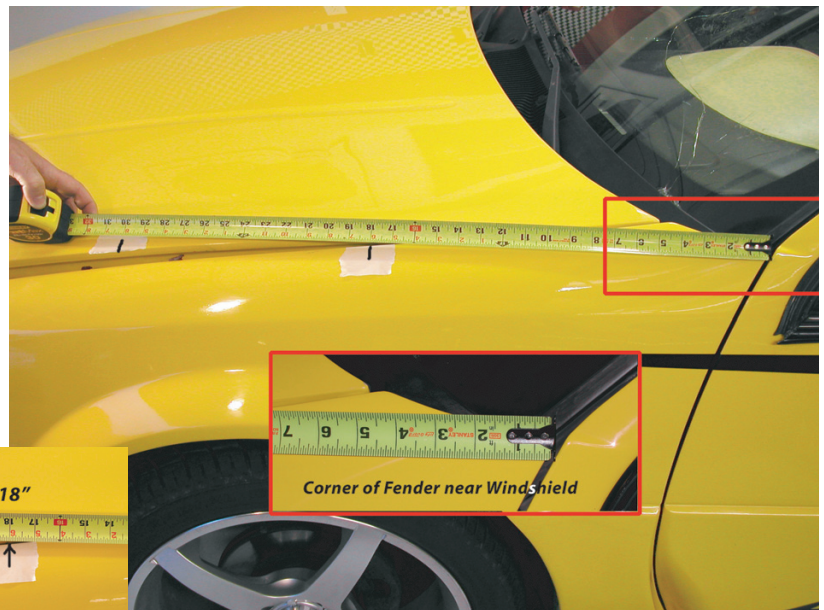


Recommended: Craftsman standard or Swivel Riveter (shown - 974749) - \$9.99 to \$17.99

Step 3 - Carefully measure and mark centerlines for both hood and fender brackets.

A. Starting on the driver's side of the vehicle - Keep your hood closed. Using a tape measure, masking tape and a permanent marker, carefully measure from the fender corner (near the windshield and door) and place a mark at exactly **18"** on fender masking tape and **30-1/4"** on the hood masking tape.

B. These measurements are critical - take your time and use the photos to the right for help.



Corner of Fender near Windshield

Step 4 - Align Driver's side hood bracket and mark the 1st hole.

A. Transfer the hood centerline over the edge of the hood onto the side lip.

B. Hold hood bracket such that the ball stud faces out or away from vehicle - The bracket will wrap around the hood's structural member and sit up against the hood skin. **The ball-stud centerline should be aligned with the line you drew.**

C. Using a marker, place a dot at the center of the upper hole once the centerline of the ball stud is lined up with your mark.

D. Using a center punch and a hammer, tap the center of the dot you just made (the indentation will help guide the drill bit and keep it from wandering) **Place bracket back in place to be sure everything is centered over the indent before continuing.**



Step 5 - Drill a 3/16" hole.

A. Carefully drill the upper bracket hole using a **3/16" drill bit**. **Do not let the bit wander as this will move the bracket location.** Only use a 3/16" drill bit - the rivet will not work properly with any other size drill bit. **Be careful not to drill up through your hood!**

Step 6 - Rivet 1st side of bracket to hood using SHORT ENDED RIVET

A. With the bracket in place, insert a **short-ended rivet** through the bracket and hole with the long stem sticking outward. The rivet may require a few twists while firmly pushing it in. Hold bracket in place using a piece of tape at the other end of the bracket.

1. Hold the riveter with two hands, this will help to stabilize it.
2. Be sure that the rivet is entirely through the hole and that are putting pressure on the rivet through the riveter when squeezing.
3. Squeeze the rivet gun firmly while keeping the head perpendicular to the hood. Keeping the rivet gun head perpendicular to the mounting surface and bracket is desired and will help create a solid bracket mounting. We have found that having someone help hold the hood and bracket while riveting helps out a lot - otherwise, you are trying to rivet to a moving object and is difficult to apply adequate force.

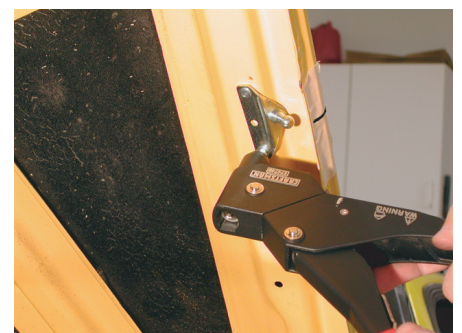


Step 7 - Drill 2nd hole of hood bracket and rivet bracket into place using shorter rivet.

A. Reposition and align bracket into the proper position against hood lip.

B. Use center punch to indent center of lower hole before drilling. Carefully drill the second hole through bracket hole and hood structure. **Be careful not to drill up through top of the hood. Heed the warnings mentioned earlier.**

C. Rivet the lower hole as described in the previous step.



Carefully drill a third hole between the first two - be careful not to drill through hood. Then rivet the Aluminum rivet into this hole. This rivet helps stabilize the bracket and should be installed last.

Though this is optional - we recommend installing this rivet when mounting to hoods made of fiberglass, composite materials, carbon fiber and other non-metal hoods.

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

A. Your hood has a symmetrical under structure. Repeat Steps 3-7 to install the upper passenger side hood bracket. Take your time and verify the measurements using the bracket you just installed.

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

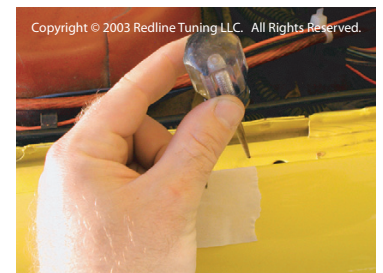
A. Hold the bracket in position as shown to the right. The ball-stud should be aligned with the mark you made on the fender. Double check this measurement and also use the photo to the right. The left edge of the bracket should not overhang the area where the fender bolts to the frame.

B. Ball-stud should be pointing away from vehicle and back of bracket should sit tightly against the inner lip. You may find that a small 'tweak' to the fender inner lip is necessary to allow the bracket to sit as shown. This would be done using a pliers and bending the area directly behind the ball-stud toward the engine just a bit.



Step 10 - Mark hole center before drilling.

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.



Step 11 - Drill upper or right hole using 3/16" drill bit.

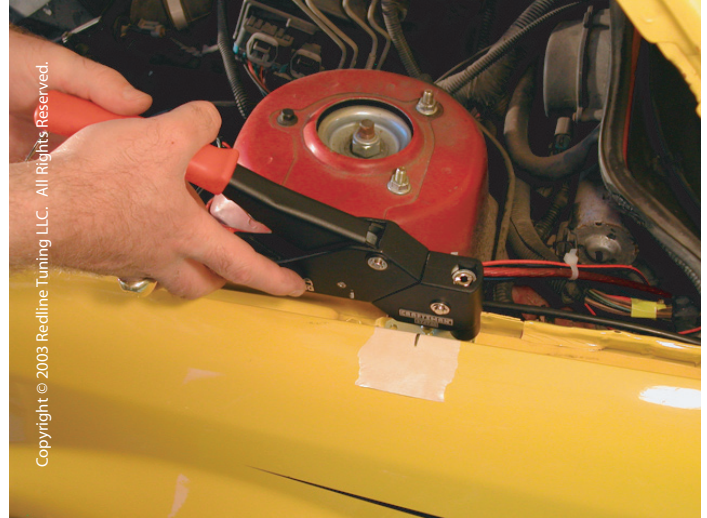
A. Drill the 1st hole at the marked position using a **3/16"** drill bit. Do not ream or over drill the hole - test fit rivet in hole until it makes it all the way in, then remove rivet and put bracket in place.



Step 12 - Rivet the upper or right end of the bracket to fender - USE LONGER RIVETS.

A. With the bracket lined up again, place a **long headed steel rivet** through the bracket and hole with the long stem sticking upright. There should be 4 longer headed rivets left for installation of fender brackets.

B. While applying downward force on rivet and bracket, firmly squeeze riveter handle multiple times until rivet gun pops and snaps off the rivet.



Step 13 - Mark center with marker and indent with center punch.

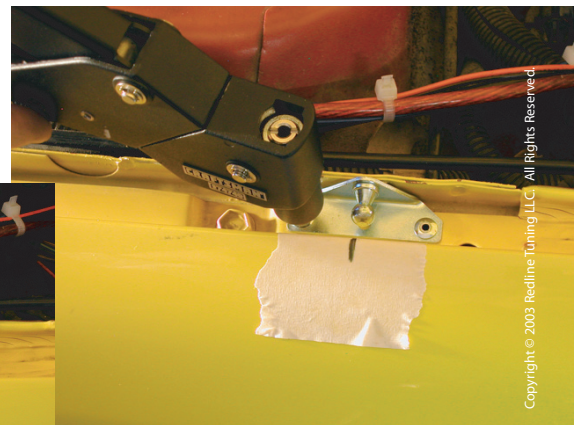
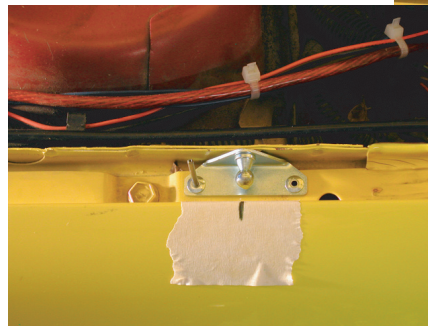
A. Using a permanent marker, mark the lower or left hole of the fender bracket. **Be sure that the bracket is tight up against inner fender lip. Twist to align if necessary.**

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

Step 14 - Drill second hole and rivet bracket to fender.

A. Drill the second hole through the bracket hole using a $3/16$ " drill bit. Do not ream or over drill the hole.

B. Rivet the bracket in place.



Step 15 - Repeat steps 9-14 to attach the passenger fender bracket.

A. Repeat Steps 9-14 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 16 - Cycle Gas-springs!

A. **Cycle your gas-springs.** Holding the thick end with two hands, carefully and firmly push the extending rod against the floor - compress the gas-springs a few times to lubricate shaft.

B. Install the driver's side gas spring with the cylinder at the top (large end up and connected to the hood bracket ball stud). Be sure that the gas spring sockets snap securely onto the ball studs. Continue holding the hood until Step 17 is completed. **This procedure is most easily completed if the upper ends are snapped onto the ball-studs first and the lower ends are snapped on last.**

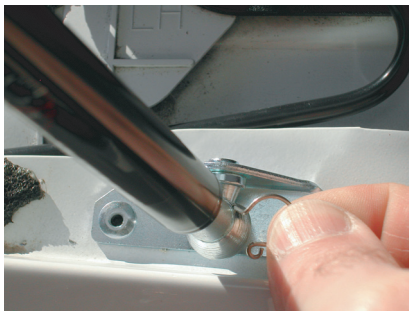


Copyright © 2003 Redline Tuning LLC. All Rights Reserved.

Step 17 - Install the gas spring locking clips.

A. Insert the spring locking clips as shown below.

Note: Photos below show the fender end of the ball stud and are only representative of this process - you will find it easier if you first install the hood end of the gas springs, including locking clips, and then move to the lower fender ends last.



A. Insert clip into hole.



B. Slide clip down till it stops.



C. Rotate clip until it snaps onto shaft.

Step 18 - Test installation.

A. Remove all tools from engine area. Check that all the steps were followed correctly and that the brackets and struts are securely mounted.

B. Lower hood slowly and check for clearance issues. Once you are certain that the steps were followed correctly, carefully lower the hood. The struts will take a few repetitive operations to get them working properly - lower and raise the hood a few times to lubricate the struts.



Enjoy your new Redline Tuning QuickLIFT kit!