



Manual Rev.
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2005+ Nissan Frontier, Pathfinder & XTerra 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-170-6A**) - Be sure to cycle them a few times before installing.
- * (8) 3/16" #2 Multi-grip Rivets
- * (4) Steel ball-stud mounting brackets
- * Printed Color Instructions



Step 2 - Gather the required tools.

Please gather the following tools before you begin the installation:

- * Power Drill
- * 3/16" or 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)



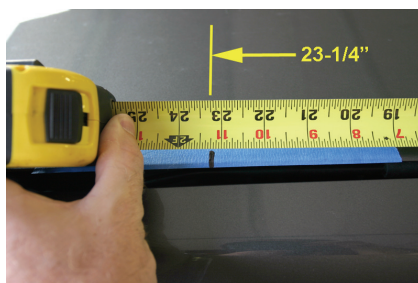
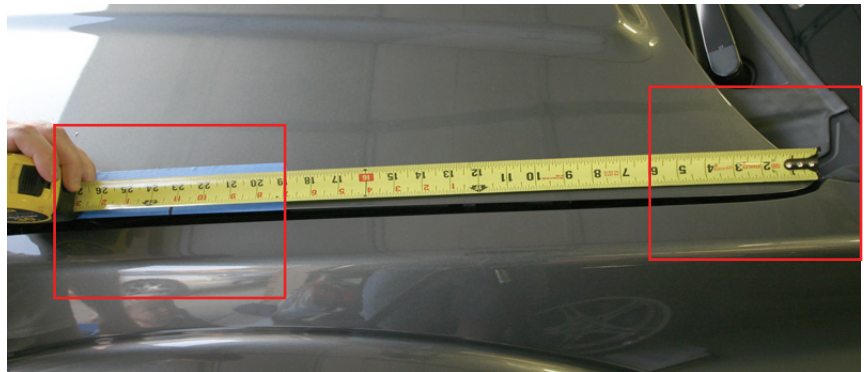
Recommended: Craftsman standard or Swivel Riveter (shown - 974749) - \$9.99 to \$17.99

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

Step 3 - Mark centerline of hood bracket location.

A. Leave your hood closed.

B. Using a piece of masking tape and a permanent marker, carefully measure from the hood's corner (near windshield) and measure along the fender line. Wrap the end of the tape measure over the corner lip and place a mark on the hood masking tape at **23 - 1/4"**.



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

Step 4 - Align bracket and mark 1st 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 hood frame's angled side with the ball stud facing down or toward the vehicle - **Figure 4B**.

B. Holding bracket in place, mark the center of the lower hole using a permanent felt tip marker. Be sure the bracket is straight and aligned closely to the frame's edge.

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). Check placement before continuing.

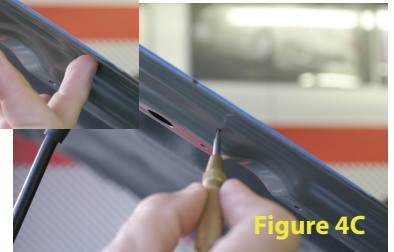
Figure 4A



Figure 4B



Figure 4C



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.

For those who do not have a depth-stop, 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. The rivet may require a few twists while pushing it in.

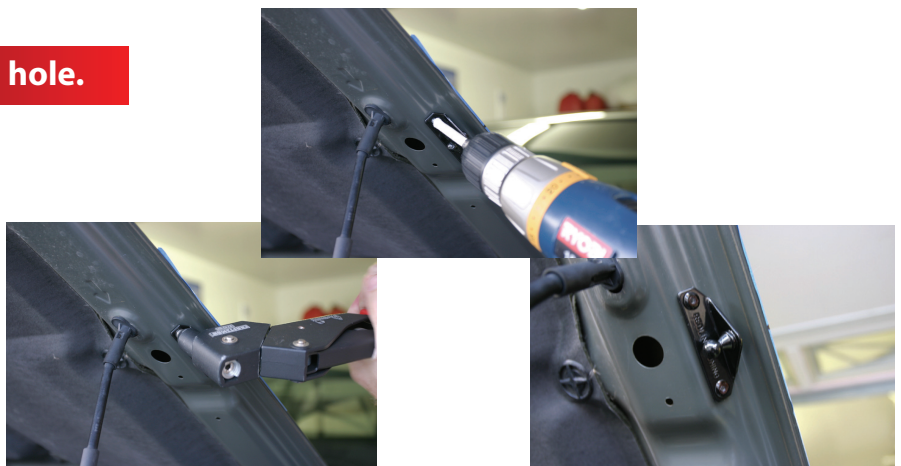
C. Check to be sure your rivet gun has the **3/16"** rivet head installed, then slide rivet gun onto rivet. While applying downward force on rivet and bracket, firmly squeeze riveter handle multiple times until rivet gun pops and snaps off the rivet stem.



Step 7 - Drill and rivet second hole.

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

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

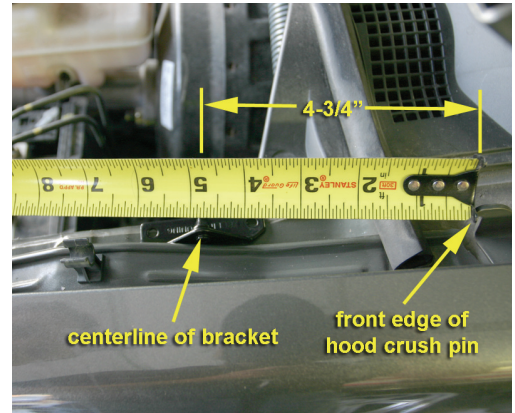
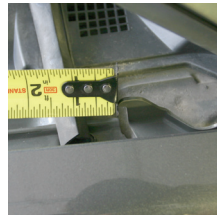


Step 8 - Repeat steps 3-7 and install the passenger side hood bracket.

A. The hood has a symmetrical under structure. Repeat Steps 3-7 to install the upper passenger hood bracket. Take your time and be sure to use the short headed rivets for the other hood bracket.

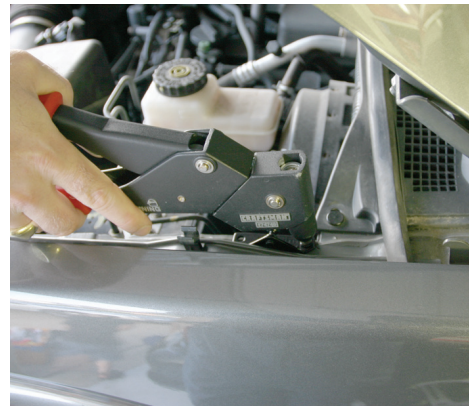
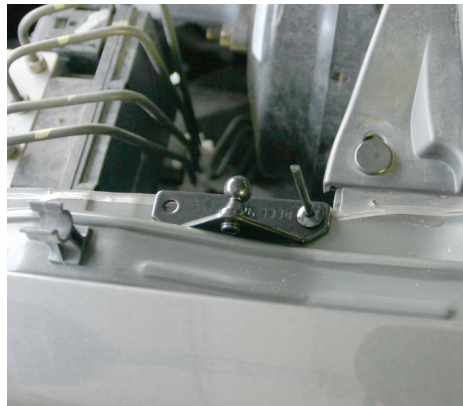
Step 9 - Position and mark first hole for driver's side fender bracket.

A. Hold the bracket in position as shown to the right. Back of bracket should be up against inner fender lip with the ball-stud pointing inward or toward the engine. Mark center of the right hole and drill hole using the same drill bit as used on the hood brackets.



Step 10 - Attach the right side of the bracket to fender.

A. Insert rivet through bracket hole and fender. Rivet one side of bracket into place.



Step 11 - Mark center with marker and indent with center punch.

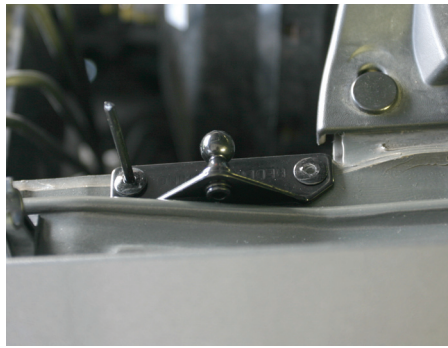
A. Using a permanent marker, mark the 2nd hole of the fender bracket.

B. 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 12 - Drill second hole and attach bracket.

- A. Carefully drill second hole as shown to the right using a (#11 indexed bit) or (use 3/16" bit if #11 bit is not available).
- B. Rivet bracket into place.



Step 13 - Repeat steps 9-12 to attach the passenger fender bracket.

- A. Repeat Steps 9-12 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 14 - 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. Remove the stock prop rod assembly at this time.

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

