

Manual Rev.
1.05
10/08/04



This manual is property of Redline Tuning LLC. Any unauthorized duplication or use without written permission from Redline Tuning LLC, violates Copyright laws. Copyright © 2003 Redline Tuning LLC. All Rights Reserved.

Dodge Neon 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 Charged Springs
- * (4) 3/16" multi-grip rivets - used on hood brackets
- * (4) Self tapping high strength screws - used on fender brackets
- * (4) Fender & Hood Steel brackets
- * Printed Instructions
- * Gas Spring locking clips (already installed on the gas spring ball ends - Remove before assembly - **DO NOT LOSE, these are very small and disappear if dropped.**)



Step 2 - Gather the required tools.

Please gather the following tools before you begin the installation:

- * Power Drill
 - * 3/16", indexed #11 & 5/32" drill bits
 - * Fine permanent marker or felt tip pen
 - * Masking tape
 - * Tape Measure
 - * Hammer & center punch
 - * Masking tape
 - * 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 - Locate both driver's side hood bracket and fender bracket centerlines.

A. Place a piece of masking tape on the edge of the hood and the edge of the fender as shown to the right. This will be used to mark the centerlines of both the hood brackets and fender brackets.

B. Hook the tape measure over lower corner of hood - be sure to measure from the hood corner (above hinge). Place a mark at exactly **10-3/4"** on the fender tape, and **22-1/2"** on the hood tape (see table below for model years). Mark both sides the same way and verify your measurement. These measurements are critical, take your time.

MODEL YEARS - USE THESE MEASUREMENTS.

95-02 - Hood bracket centerline measurement **23"**

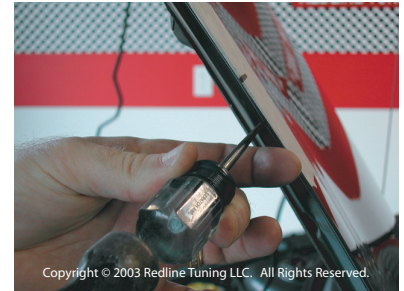
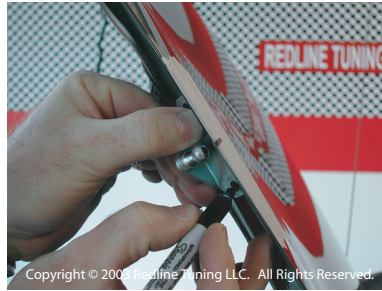
03-04 - Hoodbracket centerline measurement **22-1/2"**



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

A. Hold hood bracket such that the ball stud faces the hood (up). The bracket will tuck up against the hood's structural member and the hood skin.

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



C. 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 it is still centered where it should be before moving to Step 5. Set bracket aside.

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

A. Carefully drill the lower bracket hole as shown to the right using an **#11 indexed bit** or a **3/16" drill bit**. Wrap a piece of electrical tape 1/4" down from the tip - this will keep bit from passing through and hitting the hood skin.

Test fit the rivet - it should be a snug but should fit through hole.

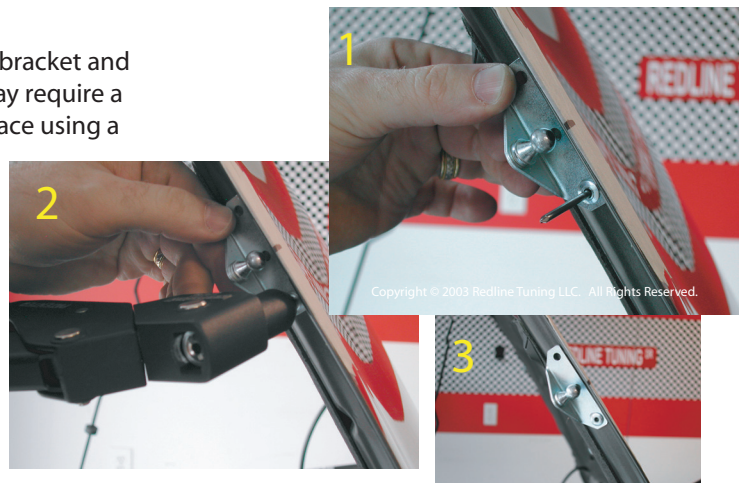
Since the #11 bit is slightly larger than the 3/16" drill bit, it may require slight reaming to fit the rivet if you do not have access to the #11 drill bit.



Step 6 - Rivet 1st side of bracket to hood.

A. With the bracket in place, insert a 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.

B. Check to be sure your rivet gun has the 3/16" rivet head installed, then slide rivet into gun. While applying force to the rivet and bracket, firmly squeeze riveter handle multiple times until rivet gun pops and snaps off the rivet stem. Be careful when rivet stem snaps off not to scratch paint.

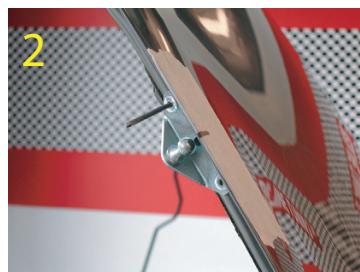


Step 7 - Drill 2nd hole of hood bracket and rivet bracket into place.

A. Use center punch to indent center of upper hole before drilling. Carefully drill the second hole leaving the bracket in place.

Be careful not to drill up through top of the hood. Heed the warnings mentioned earlier.

B. Rivet the upper hole as described in the previous step.



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. Translate the fender centerline mark to the bracket location - The ball-stud should be pointing away from the vehicle (toward you). Align the mark with the centerline of the ball stud.

B. Place the bracket parallel to the fender. Measure **1"** from the fender lip to the back edge of the bracket as shown - Move bracket until both criteria are met.

C. Verify measurement and then mark 1st hole using a fine permanent marker.



Step 10 - Mark hole center and then drill hole using 5/32" 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.

B. Drill the hole at the marked position using a **5/32" drill bit**. You will be using the self tapping high strength screw in the next step to attach the bracket.



Step 11 - Screw the upper or right end of the bracket to fender.

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

B. Using a 5/16" socket and wrench, carefully screw the right or upper screw into the fender. Apply adequate pressure while screwing the sheet metal screw in - you will be creating threads in the fender and it will require force.

Do not over tighten!



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

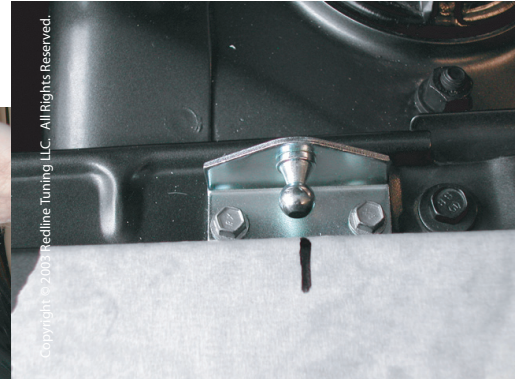
A. Using a permanent marker, mark the lower or left hole of the fender bracket. **Be sure that the bracket is parallel to the fender. Twist to align if necessary.**

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 13 - Drill second hole and screw bracket to fender.

A. Drill the second hole through the bracket hole using a **5/32"** drill bit. Do not ream or over drill the hole.

B. Screw the bracket firmly to the vehicle.



Step 14 - Repeat steps 9-13 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 15 - Cycle gas-springs, then install.

A. Have a friend hold the hood up. Remove the stock prop rod assembly at this time.

Cycle each gas-spring before installing. Hold with both hands and firmly press against carpet or something that won't move. (Compress each spring a few times)

B. Install the driver's side gas spring with the cylinder at the top (large end up and connected to the hood's 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.**



Step 16 - Install the spring locking clips.

A. Insert the spring locking clips as shown below.

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

A. Remove all tools from engine area. Check that all the steps were followed correctly and that the brackets and springs 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 springs will take a few repetitive operations to get them working properly - lower and raise the hood a few times to lubricate the gas-springs.



A. Insert clip into hole.



B. Slide clip down till it stops.



C. Rotate clip until it snaps onto shaft.