



Manual Rev.
1.02
10/2008

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.



2006+ MazdaSPEED6 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-170-4A**) - Be sure to cycle them a few times before installing.
- * (4) 3/16" #2 multi-grip rivets
- * (2) Ball-stud/nut assemblies for fender
- * (2) Low profile steel brackets for hood
- * Printed Color Instructions
- * Gas Spring Locking clips - (Already installed in the gas spring ball ends - Remove before assembly)



Hood bracket

Shock tower hardware

Step 2 - Gather the required tools.

- * Power Drill
- * 3/16" or indexed #11 drill bits, 5/16" drill bit
- * 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)

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 - Place hood bracket in proper location.

A. Open and prop your hood. Roll a piece of masking tape and stick to the bottom side of the bracket. Measure from the top of the hood hinge bolt (photo 2) up **17 - 1/4"** with the ball-stud centered at this dimension. Align the inside mounting edge of the bracket with the edge of the sound dampening material. The ball-stud should be pointing inward or toward the engine. The bracket's mounting surface only has a small flat area on the inner hood frame to sit, use these photos and those in the following steps to clarify this location.

B. Mark the center of the lower hole using a permanent marker.

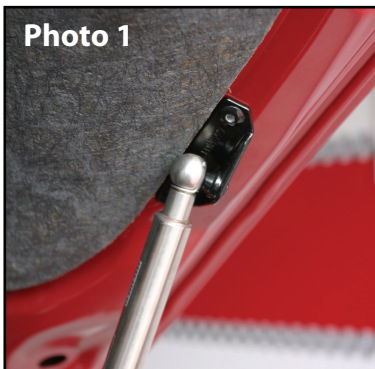


Photo 1



Photo 2



Photo 3

2006+ MazdaSpeed6 Hood QuickLIFT

Step 4 - Align bracket and mark 1st hole for drilling.

A. The bracket should sit on the flat hood frame (lowest portion near liner) with the ball stud facing inward or toward the engine.

B. 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 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 from denting the hood skin. Use new and sharp bits!



Step 6 - Rivet lower end of bracket

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.

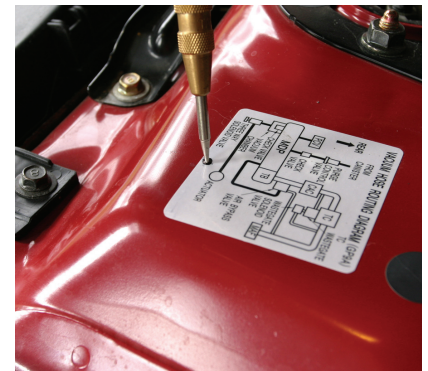
Step 9 - Place mark for fender ball-stud.

A. Measure and mark **6-3/4"** from plastic on firewall (photo 1) and **5"** from inner fender lip shown in photo 2.



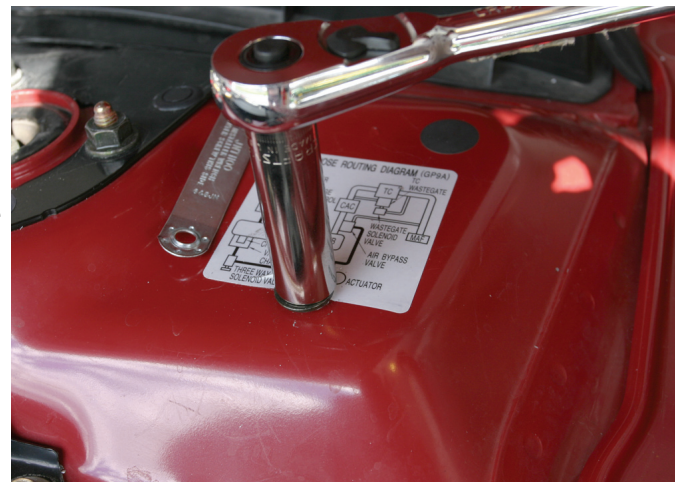
Step 10 - punch and drill hole.

- A. Using a center punch and hammer, mark the center of dot placed from the measurements in Step 9.
- B. Using a **5/16"** drill bit, carefully enlarge the steel hole (Figure 1). Start with a smaller drill bit and work your way up to the 5/16" size. **Do not drill any larger than 5/16"**



Step 11 - Insert nut/washer assembly and tighten

- A. Place one washer onto ball-stud shaft, then insert into hole. Reaching under the shock-tower above the front tire, 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.
- B. Be sure that the washer is on top, just below the bolt... the lock-nut on the under-side does not need the washer.



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

A. Repeat Steps 9-11 to attach the passenger side fender jack-nut. 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 - 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 friend remain holding the hood up until Step 16 is completed. This procedure is most easily done if the hood ends are snapped on first and attach the lower fender ball studs last.

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 - might have to unsnap hood socket.

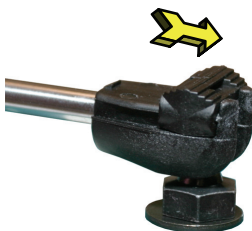
C. Slide the locking mechanism over the ball-stud to secure the gas spring. Be sure that the locking clip slides all the way over the ball-stud - this will ensure that this end of the gas spring will not free itself.



A. Snap on socket



B. Lower gas spring



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



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