

E4-WM5-Y676A00 MOUNTING INSTRUCTION



IMPORTANT!

PLEASE READ ALL INSTRUCTIONS FIRST!

If in doubt, please contact your local BILSTEIN dealer or our sales department before installation.

When replacing other brands, BILSTEIN shock absorbers should always be installed as a set. Installation of shock absorbers, struts and cartridges requires special tools and expert knowledge. Accordingly, installation of all BILSTEIN products must be performed by a qualified suspension specialist.

Always use a chassis hoist for the installation of BILSTEIN products, and make certain that the raised vehicle is securely attached to the hoist to prevent the vehicle from slipping, falling, or moving during the installation process.

If you choose to install any BILSTEIN product without the necessary special tools, expertise or chassis hoist, you may subject yourself to the risk of serious bodily injury or death. If you elect not to use a chassis hoist, at least make sure the vehicle is on level ground, that all tires on the ground during installation are blocked to prevent movement, that at least two tires are on the ground at all times, and that adequately secured safety stands (jack stands) are used to support the chassis. **NEVER** get under the vehicle until you have checked to make sure all of these things are done.

All BILSTEIN products must only be used for the specific, intended application as indicated in the application guide. **Any use of any BILSTEIN product other than for its intended use may result in serious bodily injury or death.**

BILSTEIN suspension products are gas-filled and are highly pressurized. Never place any BILSTEIN product in a vise or use a clamp on any BILSTEIN product; never apply heat near any BILSTEIN product, and never attempt to open or repair any BILSTEIN product, in order to prevent **serious bodily injury or death**. Any attempt to misuse, misapply, modify, or tamper with any BILSTEIN suspension product voids any warranty and **may result in serious bodily injury or death**.

Do not use impact tools for loosening or tightening fasteners, because this may destroy the screw threads. Self-locking nuts must only be used **once!**

Reuse original equipment components only if they are in good condition, otherwise replace them with new components. Never remove the slight film of oil on the piston rod and seal.

All mounting fasteners for shocks and struts must be securely tightened before tension is placed on the suspension system.

After installing any BILSTEIN product, the suspension caster and camber must be checked and/or adjusted to comply with the vehicle manufacturer's specifications. Also, the (load dependent) brake compensator and the anti-lock brake system must be checked and/or reset to comply with the vehicle manufacturer's specifications. Also the headlight aim must be checked and adjusted.

Be sure to properly dispose of all old parts.

E4-WM5-Y676A00 MOUNTING INSTRUCTION

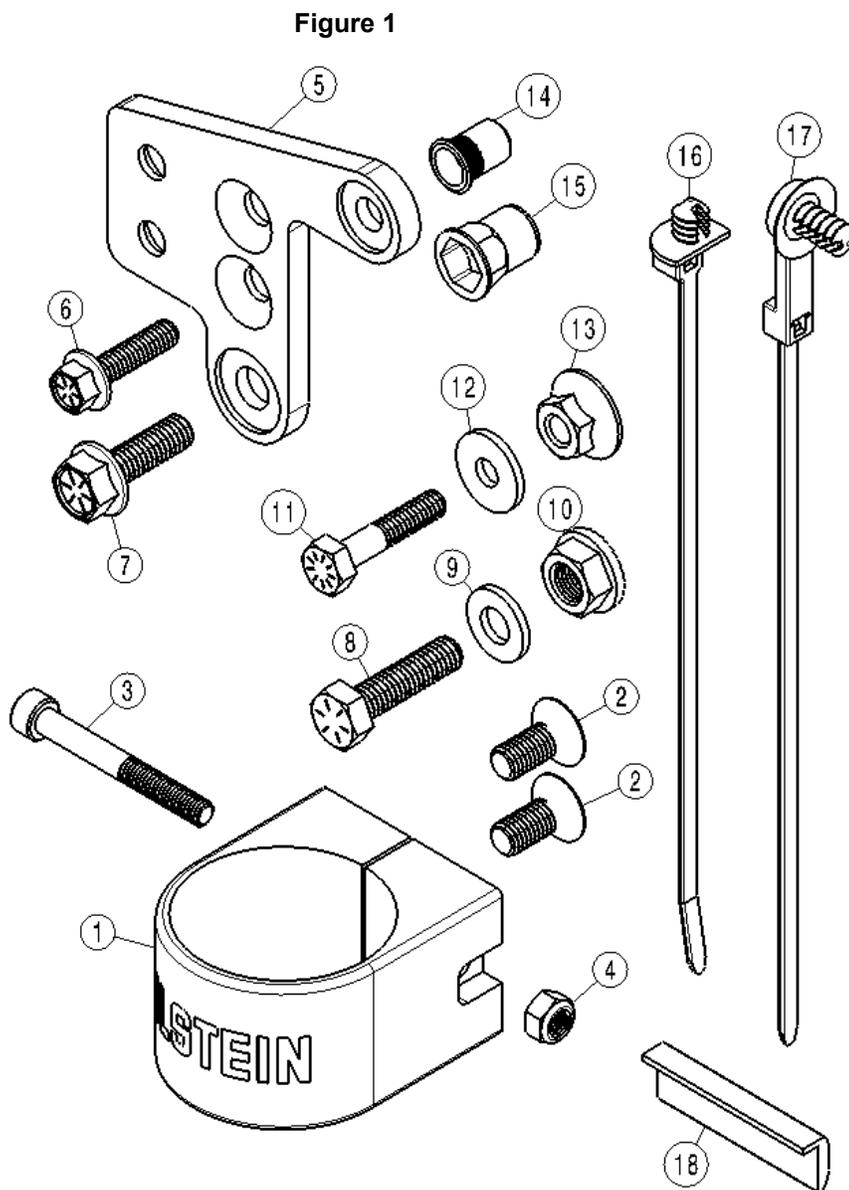


BILSTEIN 5160 Series Reservoir Shock Absorbers are designed to fit your vehicle's original shock mounts with no modifications. With the exception of reservoir placement, the 5160 Series shocks are installed in the same manner as a standard replacement shock.

Installation Procedure:

- A. Remove the existing front shocks from the vehicle following all procedures in the vehicle manufacturer's service manual.
- B. A mount kit is included to allow the remote reservoir to be attached to the vehicle frame rail behind the front bumper. This kit is depicted in Figure 1.

Item	Description	Qty.
1	RESERVOIR CLAMP	1
2	M8 x 1.25 x 18mm COUNTERSUNK SCREW	2
3	M6 x 1 x 50mm SOCKET HEAD CAP SCREW	1
4	M6 x 1 LOCK NUT	1
5	RESERVOIR MOUNT PLATE	1
6	1/4"-20 x 1" HEX SCREW	1
7	5/16"-18 x 1" HEX SCREW	1
8	5/16"-18 x 1.25" HEX SCREW	1
9	5/16" WASHER	1
10	3/8"-24 SERRATED FLANGE NUT	1
11	1/4"-20 x 1.25" CAP SCREW	1
12	1/4" WASHER	1
13	5/16"-18 SERRATED FLANGE NUT	1
14	1/4"-20 THREADED INSERT	1
15	5/16"-18 HEX THREADED INSERT	1
16	ZIP TIE	1
17	OFFSET ZIP TIE	1
18	RUBBER STRIP	1



E4-WM5-Y676A00 MOUNTING INSTRUCTION



- C. If you have access to a nutsert gun or pliers, that may be preferable to set the provided nutsert. Otherwise, using the items in Figure 2, and a 1/2" box end wrench, arrange them as shown and turn the 1/4"-20 screw by hand until it is snug as shown in Figure 3.

Note that the screw will pass through the serrated flange nut without engaging the threads. The serrations on the flange nut prevent the nutsert from rotating while setting it.

Figure 2

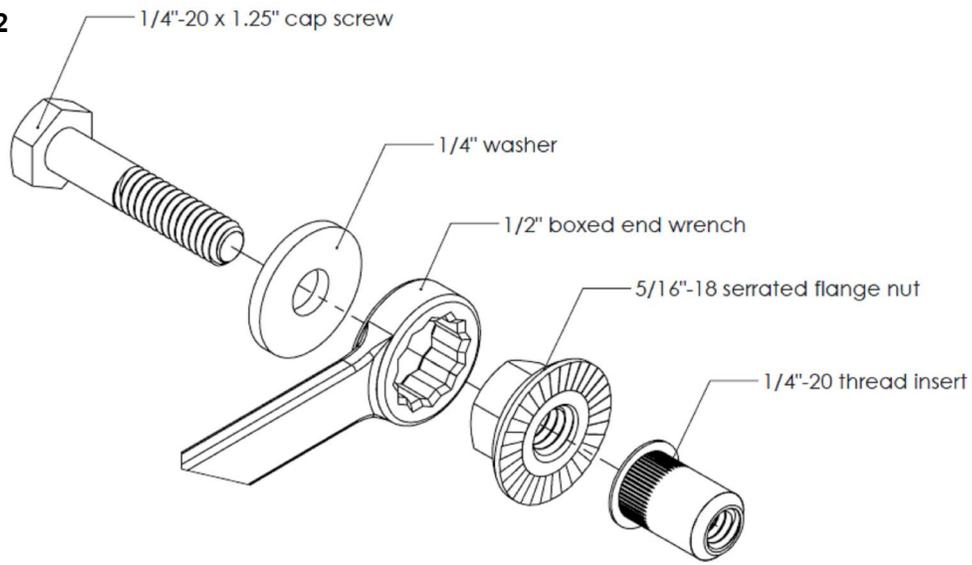
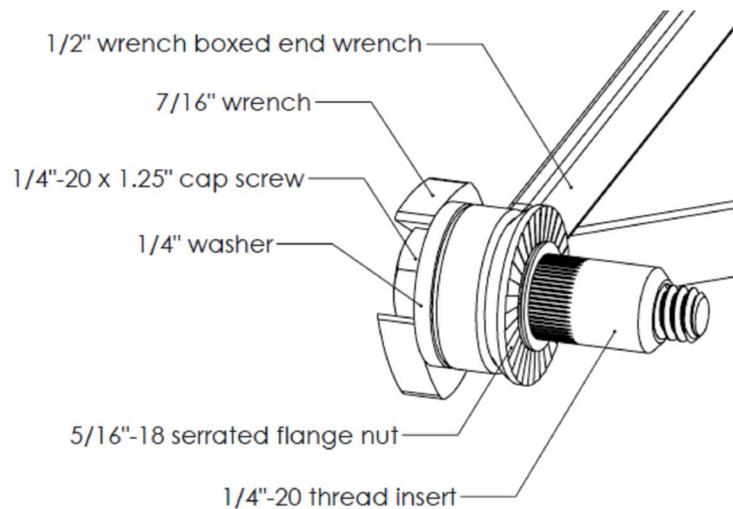


Figure 3



E4-WM5-Y676A00 MOUNTING INSTRUCTION



- D. For the driver side, insert the nutsert into the hole shown in Figure 4. For the passenger side, insert the nutsert into the hole shown in Figure 5.

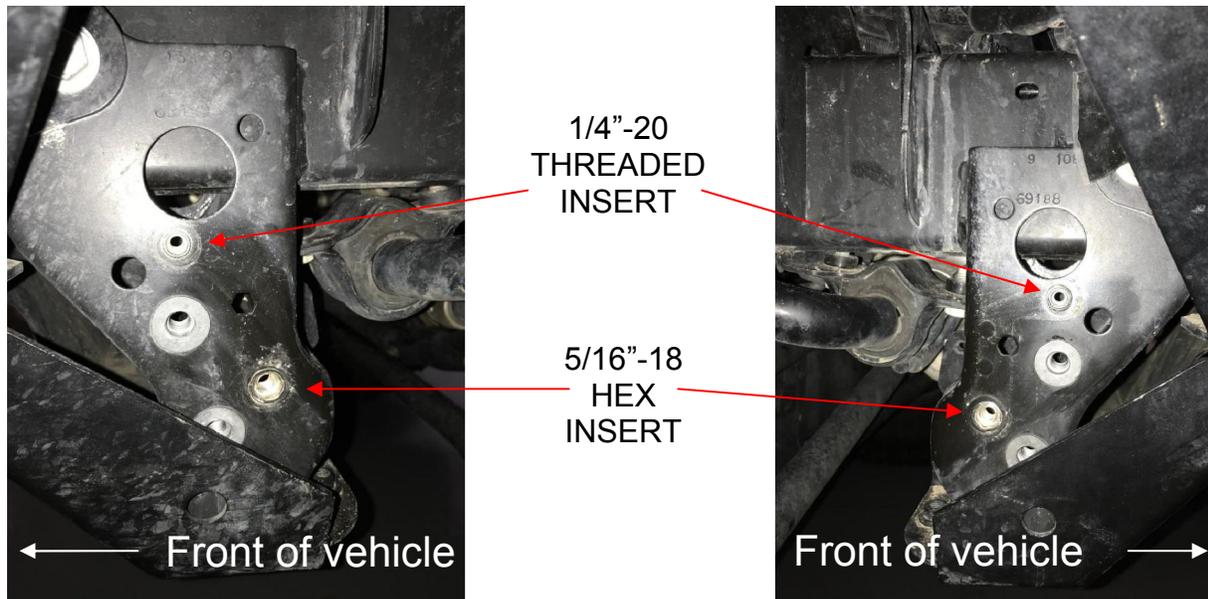


Figure 4 – Driver side

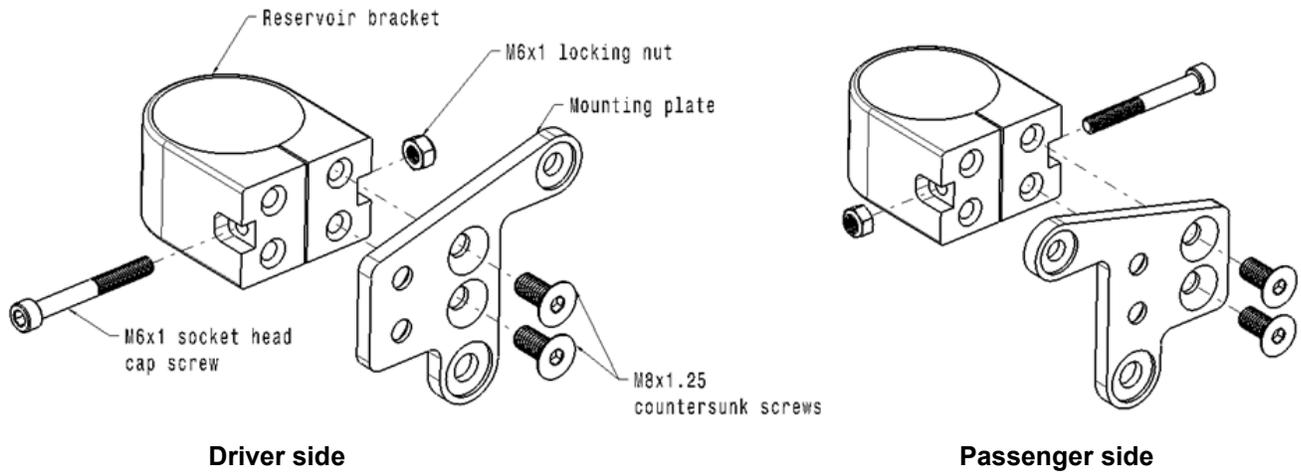
Figure 5 – Passenger side

- E. While keeping the nutsert flange firm and parallel against the bumper support, tighten the screw using a 7/16\" box end wrench or socket. Turn it 2 rotations to set the nutsert. Tightening in 1/4 turn increments tends to work well.
- F. Remove and discard the screw, washer and flange nut. The nutsert should now be rigidly fixed in the hole.
- G. Assemble the 5/16\"-18 hex screw, 5/16\" flat washer, a 9/16\" boxed end wrench, the 3/8\" serrated flange nut and hex threaded insert the same way as in Figure 2.
- H. For driver side, insert the nutsert into the hole shown in Figure 4. For the passenger side, insert the nutsert into the hole shown in Figure 5.
- I. While keeping the nutsert flange firm and parallel against the bumper support, tighten the screw using a 1/2\" box end wrench or socket. Turn it 2 rotations to set the nutsert. Tightening in 1/4 turn increments tends to work well.
- J. Remove the screw and washer. Discard the washer and serrated flange nut. The nutsert should now be rigidly fixed in the hole.
- K. Assemble the reservoir bracket onto the mounting plate using the M8x1.25 countersunk screws as shown in Figure 6. Torque the M8x1.25 countersunk screws to 10 lb•ft (13.6 N•m). Do not torque the M6x1 cap screw at this time.

E4-WM5-Y676A00 MOUNTING INSTRUCTION



Figure 6



- L. Install the plate and bracket assembly with the 1/4"-20 x 1" screw in the bottom nutsert. Rotate the assembly and slide the reservoir into the bracket as shown in Figure 7. Rotate the bracket assembly back up and install the 5/16"-18 x 1" screw in the upper nutsert. Using a nonpermanent thread locker is recommended.



Figure 7 – Passenger side



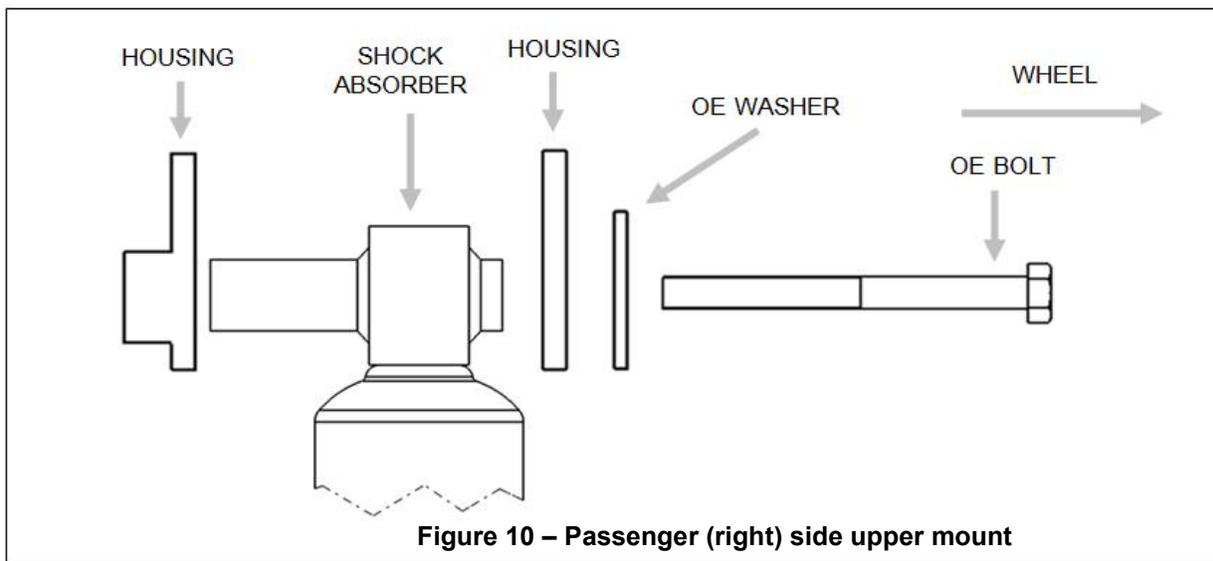
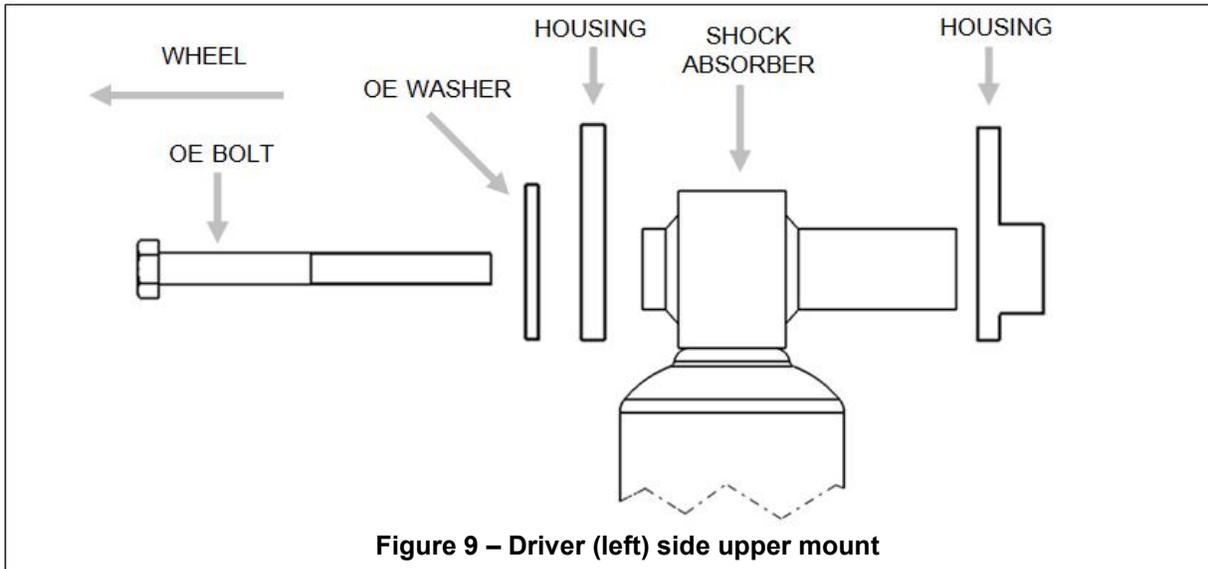
Figure 8 – Passenger side

- M. Torque the two screws to 10 lb•ft (13.6 N•m).
- N. Slide the reservoir down approximately where shown and torque the M6x1 socket head cap screw to 6 lb•ft (8 N•m).

E4-WM5-Y676A00 MOUNTING INSTRUCTION



- o. Install the shock in the original location with the top mount offset away from the vehicle as shown in Figure 9 and Figure 10.



E4-WM5-Y676A00 MOUNTING INSTRUCTION



- P. For the Driver side, route the hose as shown in Figure 11. Use the offset zip tie in the hole shown. Apply the rubber strip where shown.

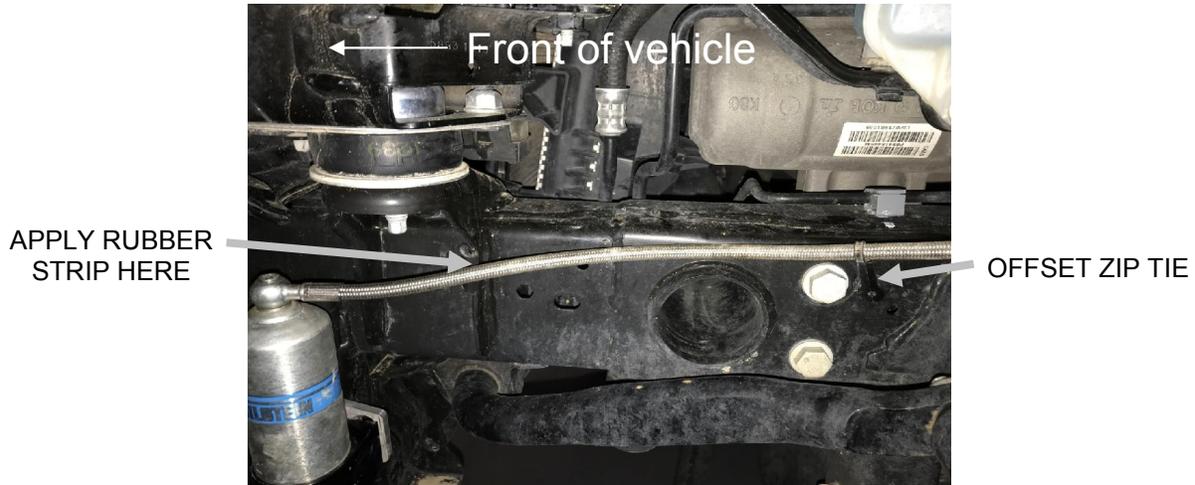


Figure 11 – Driver side

- Q. For the Passenger side, route the hose as shown in Figures 12 and 13. Carefully remove the zip ties holding the electrical cable shown. Route the hose behind these cables. If the factory zip ties are in good condition, reuse them. If not, replace them with the supplied zip ties. Apply the rubber strip where shown.



Figure 12 – Passenger side

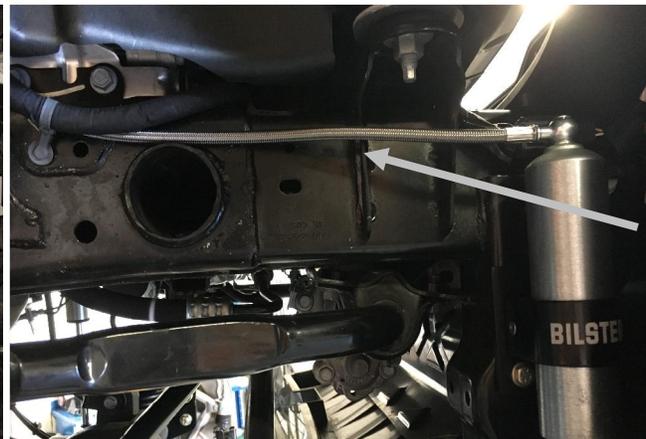


Figure 13 – Passenger side

- R. Carefully check for any possible interference between the reservoirs/hoses and any other components on the vehicle. The reservoir mounting location depicted is appropriate for most vehicles for which this kit is intended, however, some wheel/tire and/or lift kit combinations and/or other vehicle modifications may create interference problems. It is the responsibility of the installer to determine if the reservoirs are mounted appropriately and if there is any potential for interference.
- S. If no potential interference is found, the installation is complete.