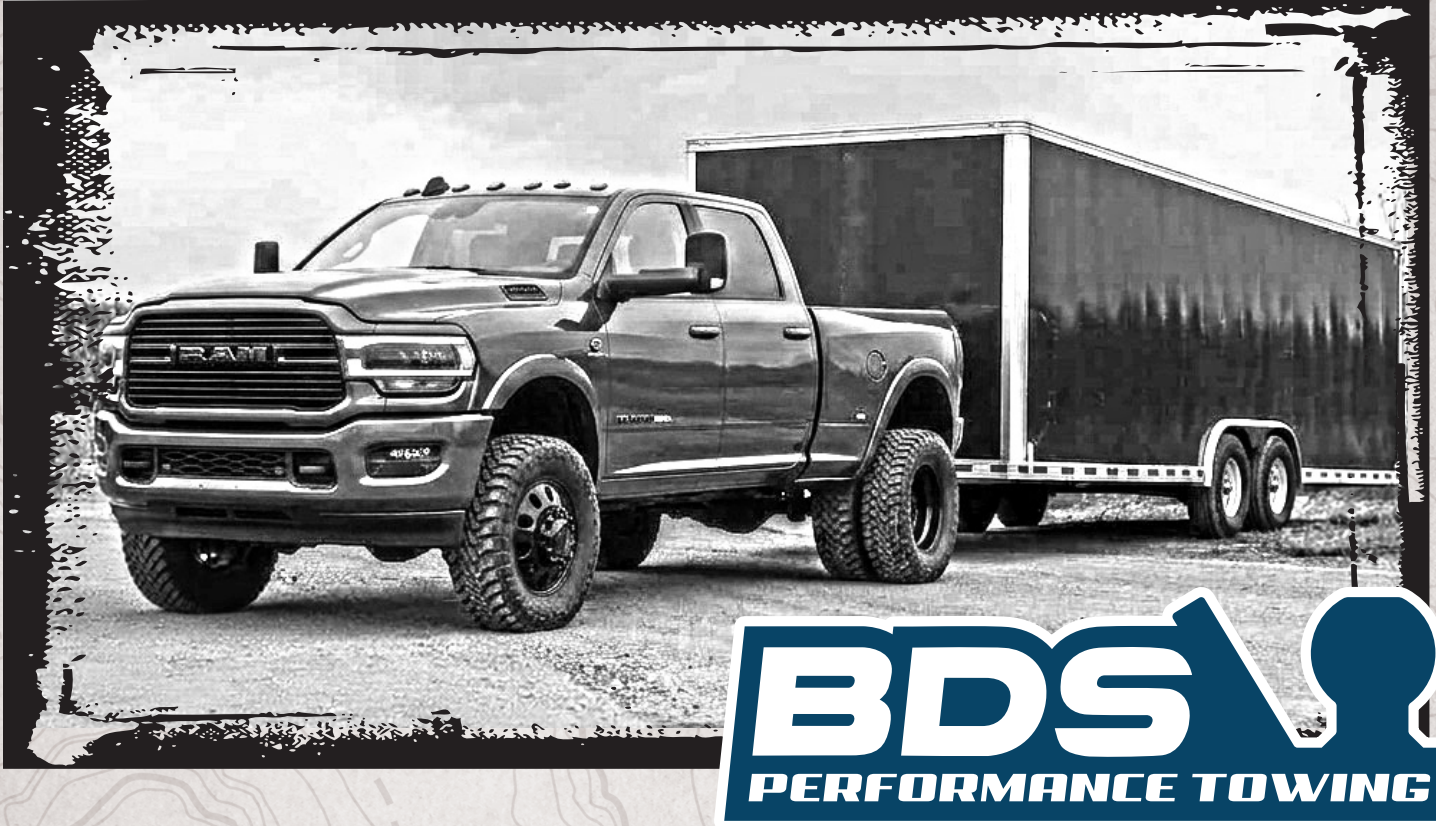


INSTALLATION GUIDE



Part#: 132007, 132406

HARDCORE LIMITED LIFETIME WARRANTY

**Stock to 3" Load Leveling Kit
4" Load Leveling Kit**

RAM 3500 4WD | 2013-26

Rev. 082026

491 W. Garfield Ave., Coldwater, MI 49036 • Phone: 517-279-2135

Web: www.bds-suspension.com • E-mail: tech-bds@ridefox.com

Read And Understand All Instructions And Warnings Prior To Installation Of System And Operation Of Vehicle.



THANK YOU

Your truck is about to be fitted with the best suspension system on the market today. That means you will be driving the baddest looking truck in the neighborhood, and you'll have the warranty to ensure that it stays that way for years to come.

Thank you for choosing BDS Suspension!

BEFORE YOU START

BDS Suspension Co. recommends this system be installed by a professional technician. In addition to these instructions, professional knowledge of disassembly/ reassembly procedures and post installation checks must be known.

FOR YOUR SAFETY

Certain BDS Suspension products are intended to improve off-road performance. Modifying your vehicle for off-road use may result in the vehicle handling differently than a factory equipped vehicle. Extreme care must be used to prevent loss of control or vehicle rollover. Failure to drive your modified vehicle safely may result in serious injury or death. BDS Suspension Co. does not recommend the combined use of suspension lifts, body lifts, or other lifting devices. You should never operate your modified vehicle under the influence of alcohol or drugs. Always drive your modified vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Always wear your seat belt.

BEFORE INSTALLATION

- Special literature required: OE Service Manual for model/year of vehicle. Refer to manual for proper disassembly/reassembly procedures of OE and related components.
- Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the OE manual.
- Larger rim and tire combinations may increase leverage on suspension, steering, and related components. When selecting combinations larger than OE, consider the additional stress you could be inducing on the OE and related components.
- Post suspension system vehicles may experience drive line vibrations. Angles may require tuning, slider on shaft may require replacement, shafts may need to be lengthened or trued, and U-joints may need to be replaced.
- Secure and properly block vehicle prior to installation of BDS Suspension components. Always wear safety glasses when using power tools.
- If installation is to be performed without a hoist, BDS Suspension Co. recommends rear alterations first.
- Due to payload options and initial ride height variances, the amount of lift is a base figure. Final ride height dimensions may vary in accordance to original vehicle attitude. Always measure the attitude prior to beginning installation.



Visit 560plus.com for more information.

BEFORE YOU DRIVE

Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floor boards and wiring harness. Check steering gear for clearance. Test and inspect brake system.

Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/ replacement may result in component failure. Longer replacement hoses, if needed can be purchased from a local parts supplier.

Perform head light check and adjustment.

Re-torque all fasteners after 500 miles. Always inspect fasteners and components during routine servicing.

BDS PERFORMANCE TOWING

HOW TO USE YOUR NEW LOAD LEVELING KIT

Welcome to BDS Performance Towing. Your new air spring kit isn't a basic helper bag—it's engineered by the Sport Truck USA team in Coldwater, Michigan, to perform without limits: loaded, unloaded, on-road, and off. This guide covers how to dial it in and what every owner should know.

To keep it simple:

DAILY USE

- While driving an unloaded vehicle, feel free to release all the air pressure from the air springs. There is no minimum PSI requirement for our air springs when unloaded.
- When loaded, inflate the air springs until the vehicle sits level
- If you need more than 100 PSI to level your vehicle, no problem. We don't recommend going over 125 PSI. That is the limit of our compressor system.

OFF-ROAD USE

- Air springs act as adjustable bump stops, so up travel depends on air pressure. A lower plate design (instead of a fixed mount) preserves full droop travel. Heavy-duty bags handle the rest.

SERVICE & SAFETY

- When having your vehicle serviced, reduce the air pressure to zero if equipped with our compressor system. If not, no action is needed.
- **IMPORTANT:** Never exceed your vehicle's OEM GVWR or GAWR. This kit levels the load; it doesn't increase capacity.
- **GVWR (Gross Vehicle Weight Rating):** The maximum total weight of your truck, including passengers, cargo, fuel, and tongue weight.
- **GAWR (Gross Axle Weight Rating):** The maximum weight each axle can carry.

HAVE QUESTIONS OR NEED HELP?

Contact:

BDS Tech Department (Hours: 8am to 5pm - Mon. - Fri.)

Tech-BDS@ridefox.com

517-279-2135, Option 2



CONTENTS OF YOUR KIT

Box Kit BDS132007 - Stock to 3" Load Leveling Kit

Part #	Qty	Description
B1716	1	Bag Kit - Air Bag Components (90° Fittings)
BP1121	1	Schrader Valve Mounting Hardware
	4	5/16" Panel Nut, 7/64" Thick, Nickle Plated Brass
	2	5/16" External Tooth Lock Washer, Stainless Steel
	2	5/16" Rubber Sealing Washer, Black
	4	8mm Flat Washer, Stainless steel
099000	10	11.5in Nylon Cable Tie - Black
05705	2	1/4" PTC - 1/4 NPT 90° - Air Fitting
05709	1	1/4" PTC Tee - Air Fitting
05710	2	1/4" PTC Schrader Valve - Air Fitting
05711	1	1/4" Air Line - 16'
BP1123	1	2019-2025 Ram 3500 Bolt Pack
	4	3/8" x 7/8" Hex Head Bolt, Clear Zinc
	2	3/8"-16 x 1" Flat Head Cap ScREW, Clear Zinc
	4	3/8"-16 x 1" Carriage Bolt, Grade 5, Clear zinc
	10	3/8" SAE Flat Washer, Clear Zinc
	6	3/8"-16 NyLoc Nut, Clear Zinc
	4	1/2"-13 NyLoc Nut, Clear Zinc
	4	1/2" SAE Flat Washer, Clear Zinc
05901	2	Air Bag Perch/Seat 7"
05903	2	7" Air Spring Cradle Pad
124784120RB	2	1/2" x 4-7/8" x 4-1/2" Round U-Bolt Black E-Coat
05760	1	Upper Bracket - Driver Side
05761	1	Upper Bracket - Passenger Side
05762	2	Lower Bracket

Box Kit BDS132406 - 4" to 6" Load Leveling Kit

Part #	Qty	Description
B1716	1	Bag Kit - Air Bag Components (90° Fittings)
BP1121	1	Schrader Valve Mounting Hardware
	4	5/16" Panel Nut, 7/64" Thick, Nickle Plated Brass
	2	5/16" External Tooth Lock Washer, Stainless Steel
	2	5/16" Rubber Sealing Washer, Black
	4	8mm Flat Washer, Stainless steel
099000	10	11.5in Nylon Cable Tie - Black
05705	2	1/4" PTC - 1/4 NPT 90° - Air Fitting
05709	1	1/4" PTC Tee - Air Fitting
05710	2	1/4" PTC Schrader Valve - Air Fitting
05711	1	1/4" Air Line - 16'
BP1123	1	2019-2025 Ram 3500 Bolt Pack
	4	3/8" x 7/8" Hex Head Bolt, Clear Zinc
	2	3/8"-16 x 1" Flat Head Cap ScREW, Clear Zinc
	4	3/8"-16 x 1" Carriage Bolt, Grade 5, Clear zinc
	10	3/8" SAE Flat Washer, Clear Zinc
	6	3/8"-16 NyLoc Nut, Clear Zinc
	4	1/2"-13 NyLoc Nut, Clear Zinc
	4	1/2" SAE Flat Washer, Clear Zinc
05901	2	Air Bag Perch/Seat 7"
05903	2	7" Air Spring Cradle Pad
124380512RB	2	1/2" x 4-3/8" x 5-1/2" Round U-Bolt Black E-Coat
05760	1	Upper Bracket - Driver Side
05761	1	Upper Bracket - Passenger Side
05763	2	Lower Bracket - 3" to 4" Lift

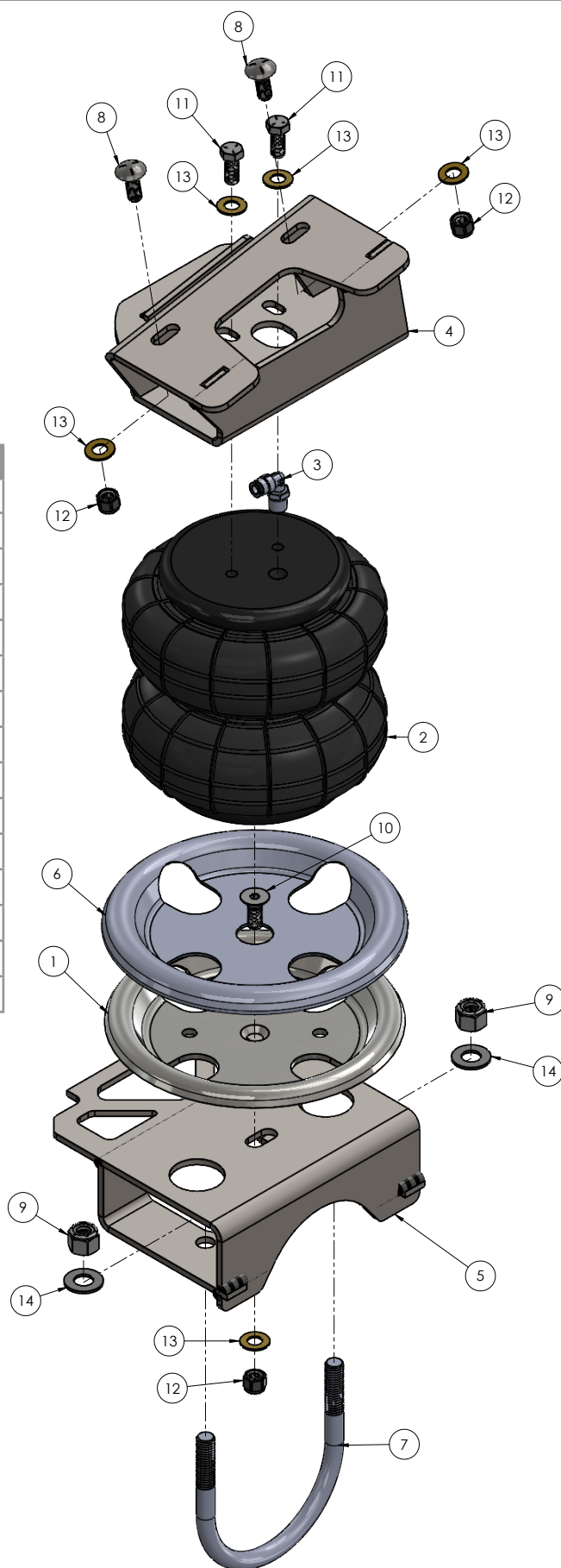
Box Kit BDS139003 - 7" Diameter Air Spring -Short

Part #	Qty	Description
05703	2	2B6 Air Spring - Short

Box Kit BDS139003 - 7" Diameter Air Spring - Short

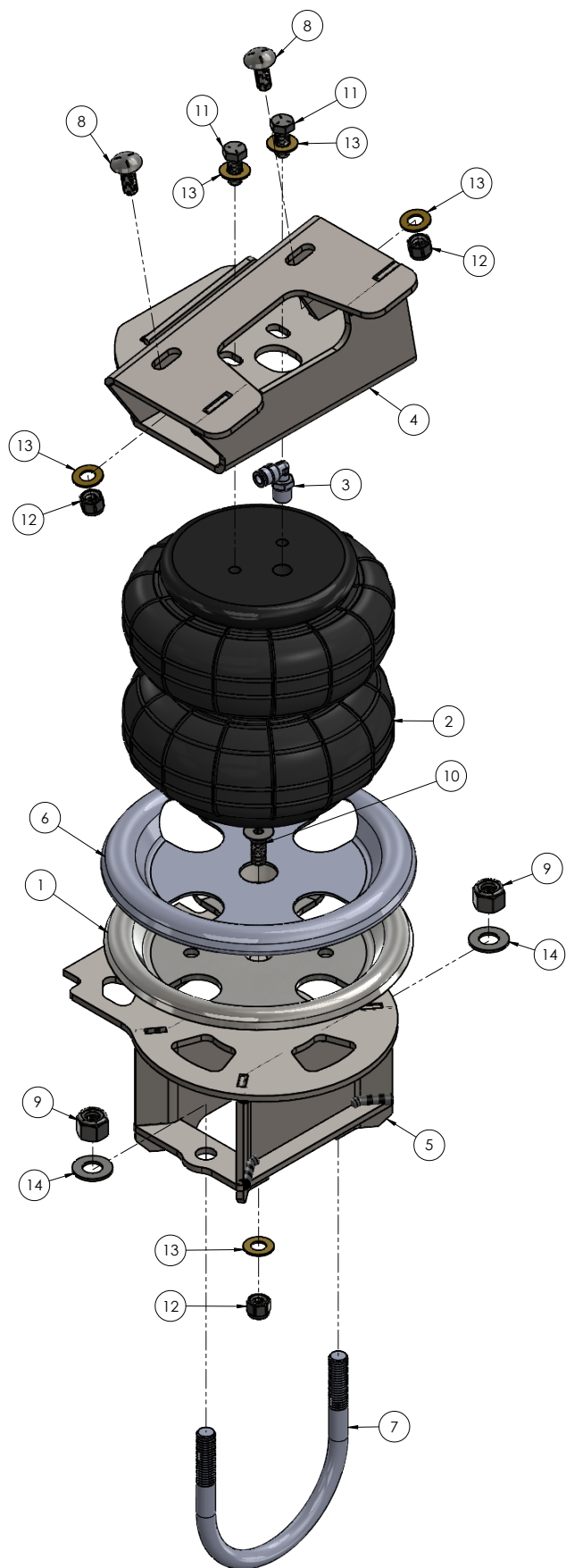
Part #	Qty	Description
05703	2	2B6 Air Spring - Tall

2019-26 RAM 3500 STOCK RIDE HEIGHT AIR BAG ASSEMBLY	
ITEM#	DESCRIPTION
1	7" STAMPED STEEL CRADLE
2	2B7 AIR SPRING - SHORT
3	1/4" PTC - 1/4 NPT 90° - AIR FITTING
4	UPPER BRACKET - DRIVER SIDE
5	LOWER BRACKET
6	7" AIR SPRING CRADLE PAD
7	1/2" X 4-7/8"X 4-1/2" ROUND U-BOLT
8	3/8" X 1" CARRIAGE BOLT
9	1/2" NYLOCK NUT
10	3/8" X 1" HEX HEAD BOLT
11	3/8" X 7/8" HEX HEAD BOLT
12	3/8" NYLOCK NUT
13	3/8" SAE FLAT WASHER
14	1/2" SAE FLAT WASHER

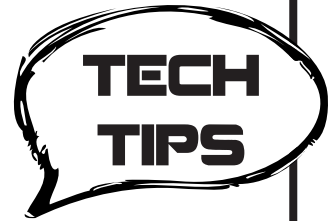


2019-2026 RAM 3500 LIFTED AIR BAG ASSEMBLY

ITEM#	DESCRIPTION
1	7" STAMPED STEEL CRADLE
2	2B7 AIR SPRING - SHORT
3	1/4" PTC - 1/4 NPT 90° - AIR FITTING
4	UPPER BRACKET - DRIVER SIDE
5	LOWER BRACKET
6	7" AIR SPRING CRADLE PAD
7	1/2" X 4-7/8" X 4-1/2" ROUND U-BOLT
8	3/8" X 1" CARRIAGE BOLT
9	1/2" NYLOCK NUT
10	3/8" X 1" HEX HEAD BOLT
11	3/8" X 7/8" HEX HEAD BOLT
12	3/8" NYLOCK NUT
13	3/8" SAE FLAT WASHER
14	1/2" SAE FLAT WASHER



IMPORTANT INFORMATION FOR YOUR VEHICLE



1. Measure distance between air spring mounting plate and top of the cradle pad. The ideal air spring working height for 05703 is 5.0"-6.0".
2. If your air spring is not in contact with the cradle, it may be necessary to add ~ 10 PSI or until the air spring extends to contact the cradle.
3. A BDS Performance Towing Air Bag kits utilize serviceable parts and can be purchased accordingly.
4. BDS Performance Towing Air Bag kits utilize serviceable parts and can be purchased accordingly.
 - Air Bag (Qty 1): BDS139910
 - Air bag cradle pads (Qty 2): BDS139901.
 - Replacement air line (16 feet): BDS139906.
 - Schrader valves (Qty 2) and mounting hardware: BDS139902.
 - 90 Degree air bag fittings (Qty 2): BDS139903.
 - Air line Tee fitting (Qty 1): BDS139905.
5. After installation, if air spring does not self-center into bottom of cradle, a dry lubricant may need to be sprayed onto the air spring cradles to consistently allow the air spring to fall into the cradle.
6. Before adding air pressure above 5 PSI, it is recommended to check that the air spring is fully seated into the cradle.
7. Follow the Air Line Installation Guide for air line install guidelines and tips.
8. For kits containing a BDS emblem, after removing the plastic backer, any remaining adhesive residue can be removed with alcohol.
9. This system does not work with Ram 3500 trucks equipped with an OE air assist system.

INSTALLATION INSTRUCTIONS

SPECIAL TOOLS

- Torque Wrench
- Max Wrench/Socket sizes up to 3/4"

1. Park the vehicle on clean, flat, and level surface. Block the front wheels for safety.
2. Raise the rear of the vehicle and support the frame rails with jack stands.
3. Remove rear wheels.
4. Remove rear bump stop by removing the 2 attaching bolts. (**Fig. 1A, 1B**)

FIGURE 1A

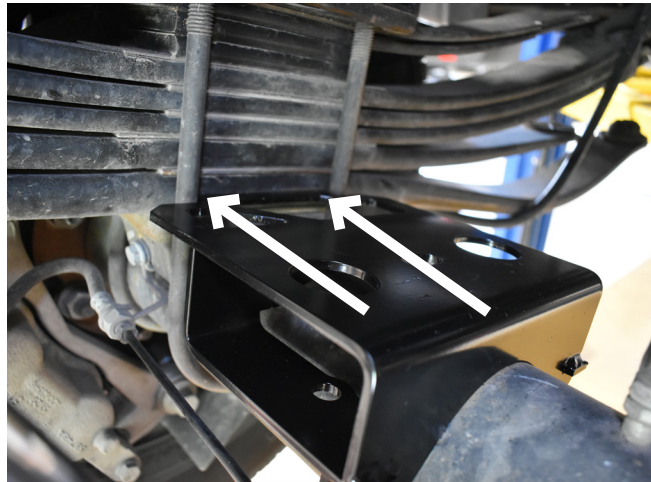


FIGURE 1B



5. Install lower axle bracket to the axle, ensure that the bracket is fully seated between the leaf spring u-bolts. (**Fig. 2**)

FIGURE 2



6. Attach the lower axle bracket to the axle with the provided U-bolt, 1/2" Nylock Nuts and 1/2" washers found in **BP1123**. **Torque to 25 ft-lbs. DO NOT OVER TORQUE** (**Fig. 3A, 3B**)

FIGURE 3A

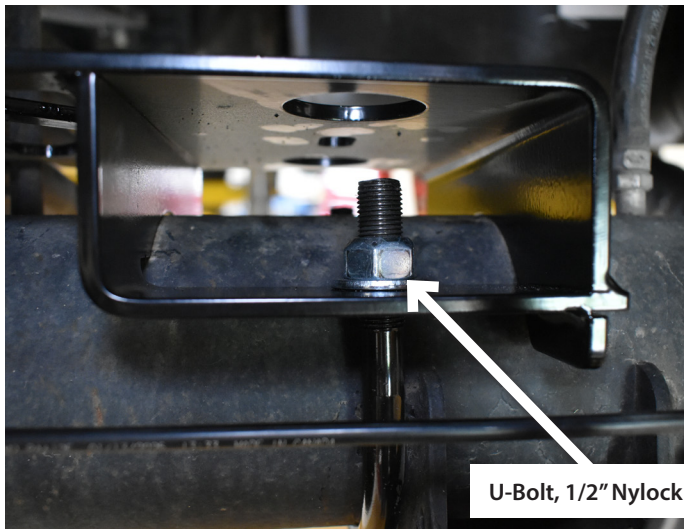
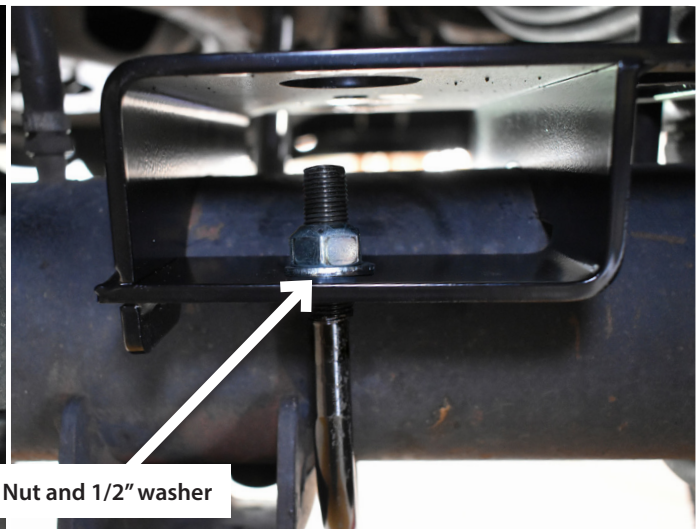


FIGURE 3B



U-Bolt, 1/2" Nylock Nut and 1/2" washer

7. Install the rubber isolator to the cradle by aligning the locking nibs with the holes in the cradle. (**Fig. 4A**) Push the nibs through the 4 holes then wrap the rubber isolators edge around the cradle, snapping it into place. (**Fig. 4B**)

FIGURE 4A



FIGURE 4B



8. Using pliers pull the locking nibs until they fully seat into the cradle holes, you will feel them snap into place. **(FIG. 5A)** DO NOT OVER STRETCH THE NIBS. With all nibs locked into place, use a sharp knife to cut them off flush to the bottom of the cradle. **(FIG. 5B)**

FIGURE 5A



FIGURE 5B



9. Using the hardware in **BP1123**, 3/8" x 1" Flat Head Bolt, 3/8" Nylock Nut and 3/8" Washer, attach the cradle to the lower axle mount. Ensure that the cradles are pulled as far rearward as possible. Torque to 23 ft-lbs **(Fig. 6A, 6B)**

FIGURE 6A

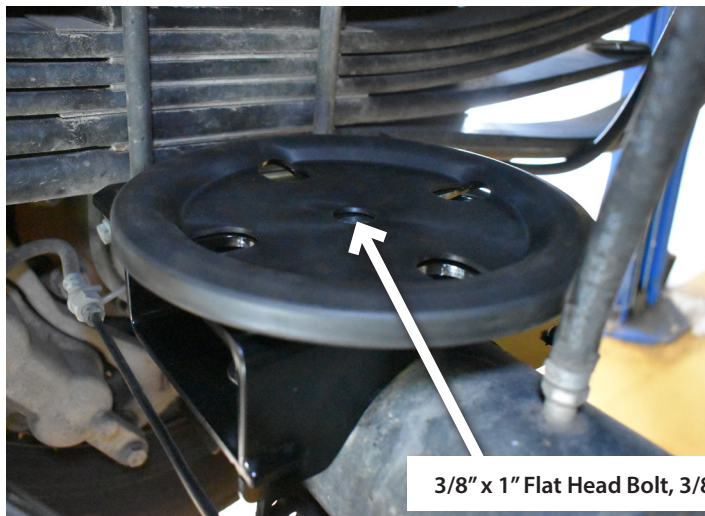
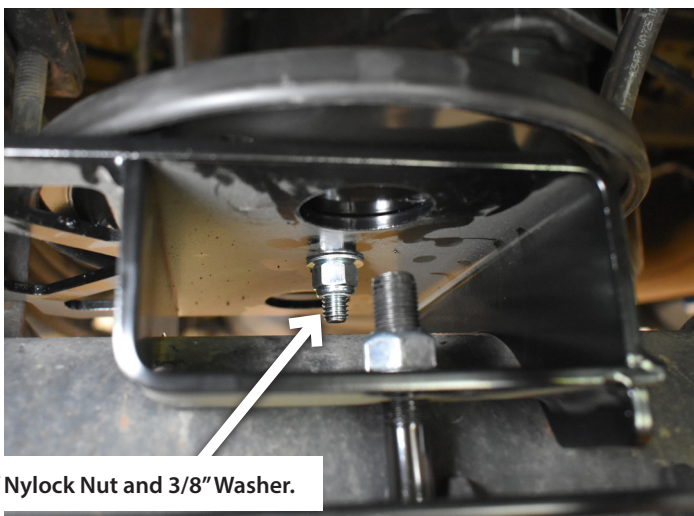


FIGURE 6B



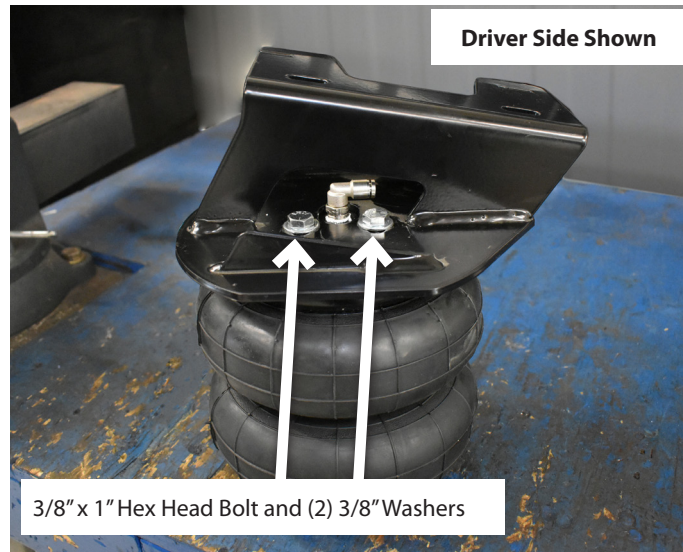
10. Install 90° air fitting to the air spring assembly. Hand tighten, then 1 and a 1/2 turns. **(Fig. 7)**

FIGURE 7



11. Mount the air bag to the upper mount bracket, make sure the air spring is slid to the inboard position when tightening hardware **(2) 3/8"x 1" hex head bolts and (2) 3/8" washers in BP1123. Torque to 23 lb-ft (Fig. 8)**

FIGURE 8



12. Position the upper bracket and air bag assembly at the frame under the bump stop mount. Attach the assembly to the 2 OE holes on the inside of the frame using the 3/8" carriage bolts, nylock nut and washers in **BP1123. Torque to 23 ft-lbs. (Fig. 9A, 9B)**

FIGURE 9A

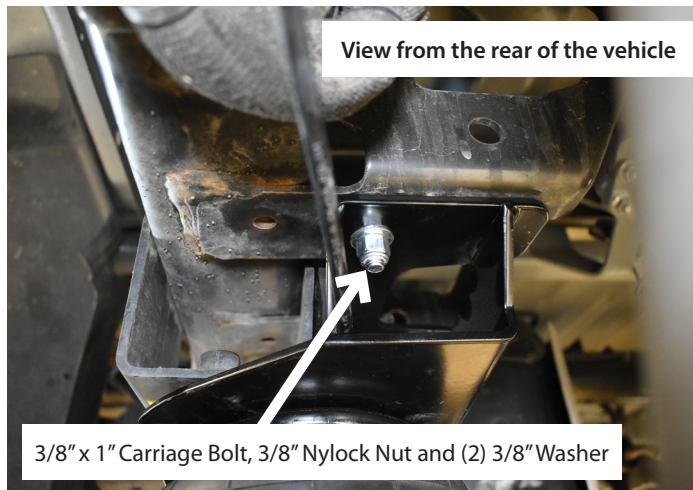
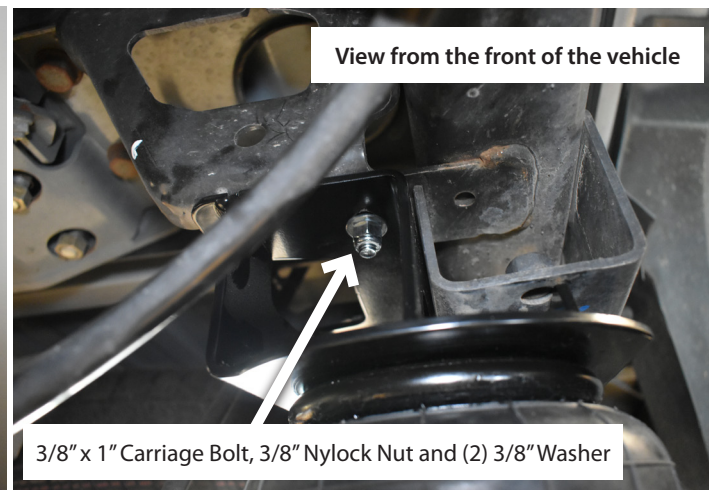


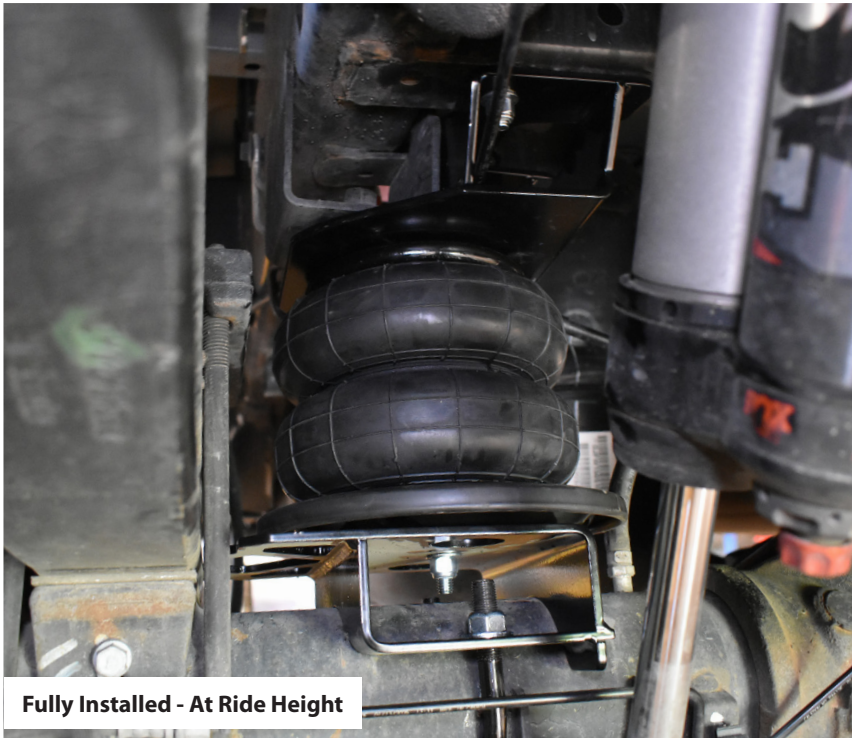
FIGURE 9B



13. Repeat installation on the other side of the vehicle..

SEE AIRLINE INSTALLATION GUIDELINES (PAGE 12)

14. When installation is completed, replace rear wheels, lower vehicle to the ground and torque lug nuts to 130 ft-lbs.
15. Check all lines and hardware after 500 miles and at every maintenance interval.



AIRLINE INSTALLATION GUIDELINES

STEP 1: PICK YOUR SETUP

- Dual-path: Separate valve for each air bag.
- Single-path: One valve for both. (Use the provided T-air fitting).

STEP 2: VALVE LOCATION

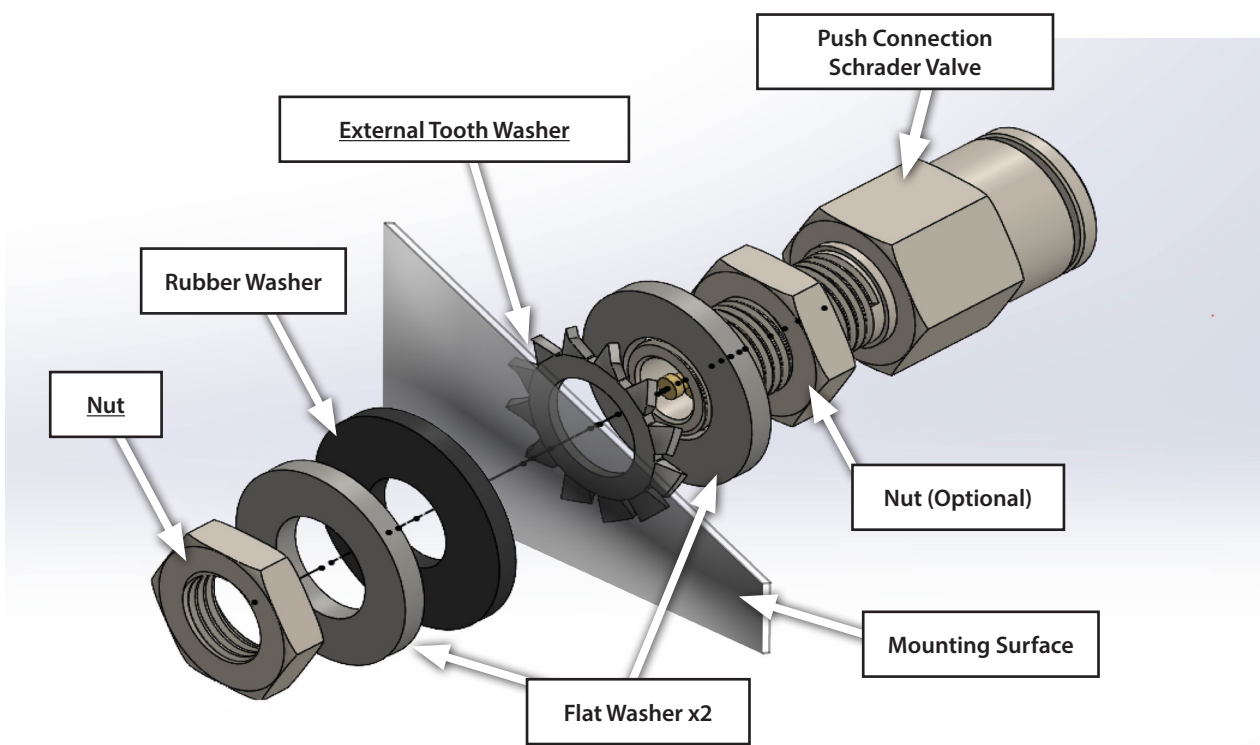
- Choose an accessible location for the air inflation schrader valves.

LOCATION SUGGESTIONS:

- Bumper, near the license plate.
- Tow hitch
- Inside fuel door

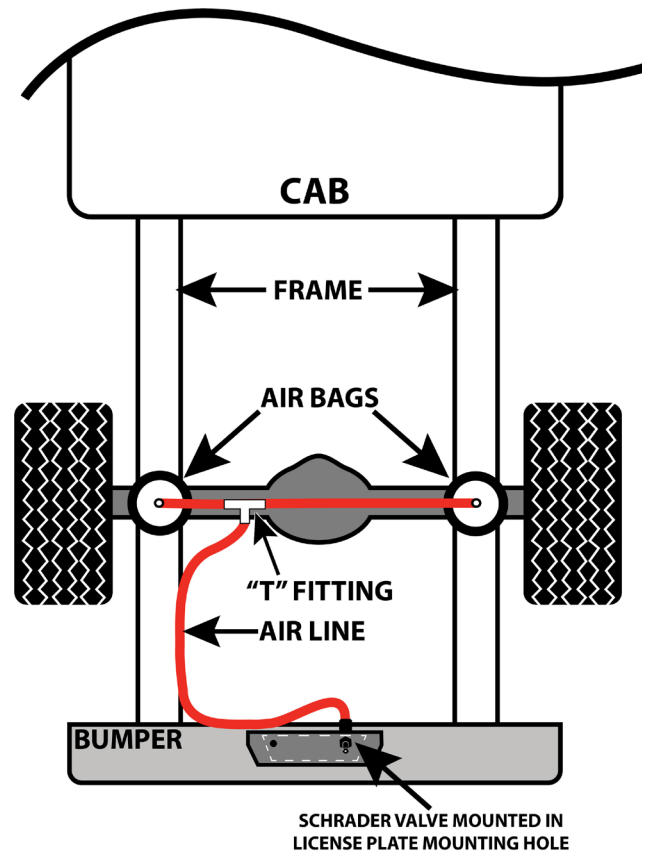
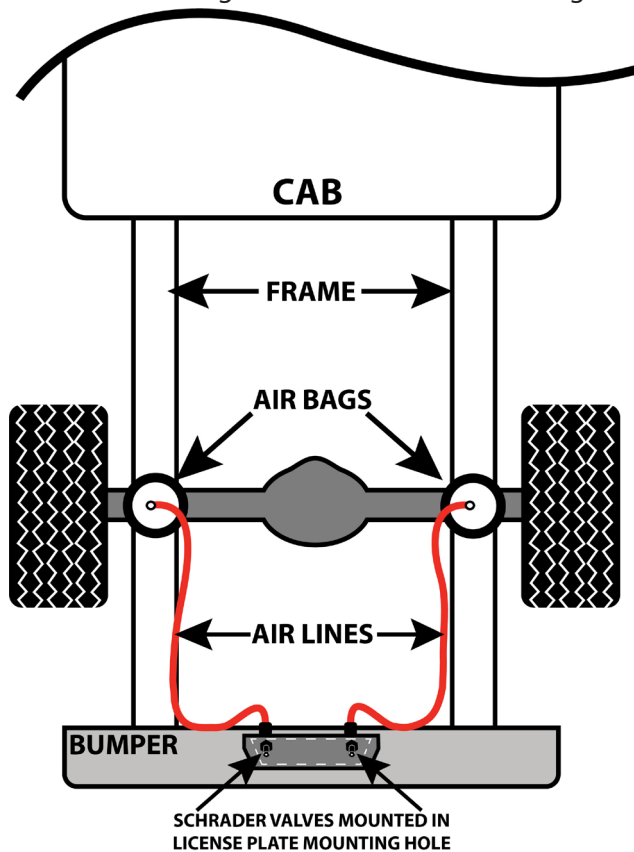
STEP 3: INSTALL SCHRADER VALVES

- Drill a 5/16" hole in your chosen spot
- Mount the valve with washers and nuts found in Bolt Pack BP1121.



STEP 4: ROUTE AIR LINES

- Run air lines along the frame rail toward air bags

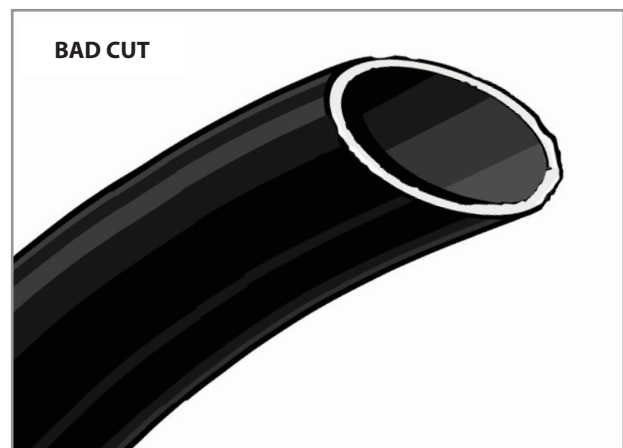
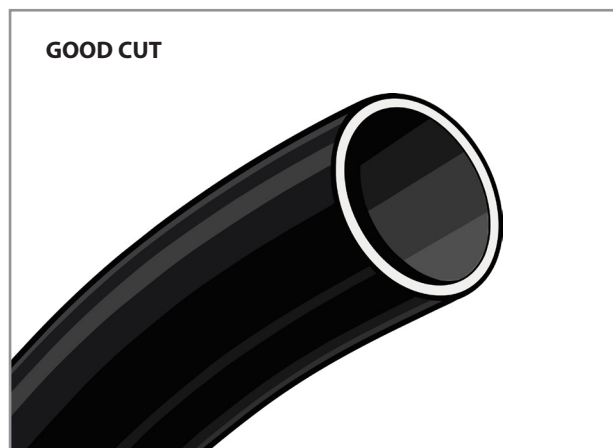


AVOID:

- Exhaust (keep 6+ inches away)
- Sharp edges
- Tight gaps that could pinch the line
- (Bend Radius ~ 2" or smaller).

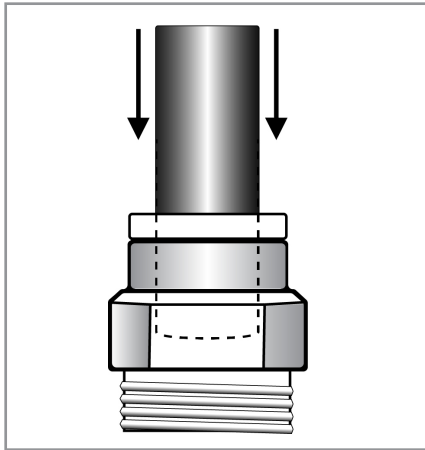
STEP 5: CUT THE LINE RIGHT

- Cut straight (90° only)
- Use a razor or hose cutter
- No scissors or wire cutters**

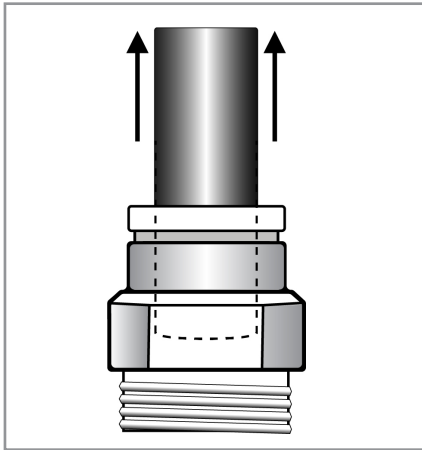


STEP 6: CONNECT LINES TO AIR BAGS AND SCHRADER VALVES

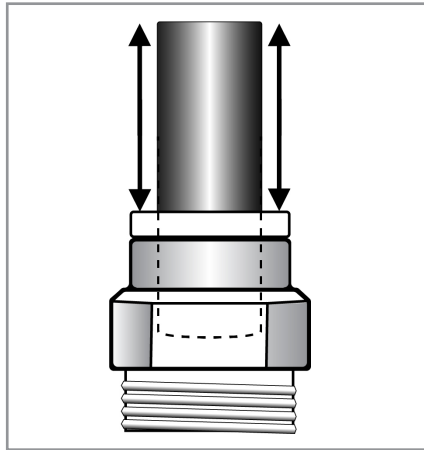
Push line fully into fitting



Tug lightly to confirm it's locked



To remove line, press down on the locking sleeve and pull out the line



STEP 7: SECURE & TEST

- Zip tie every 12–15 inches (not too tight)
- Inflate to 50–70 PSI
- Spray soapy water on fittings:
- Bubbles = leak = re-cut + reconnect
- Let sit overnight (~30 PSI) to confirm no leaks



WE WANT TO SEE YOUR RIDE!

Grab photos of your BDS-equipped truck in action and send them in for a chance to be featured. Send it in to our Bad Ass Rides customer gallery at bds-suspension.com/bar and post them on the BDS Fan Page on Facebook at facebook.com/BDSSuspensions. Don't forget about your BDS swag! BDS offers t-shirts, hoodies, decals and more available on the BDS website or through your local BDS distributor.

TIME TO HAVE SOME FUN

Thank you for choosing BDS Suspension.

For questions, technical support and warranty issues relating to this BDS Suspension product, please contact your distributor/installer before contacting BDS Suspension directly.