

INSTALLATION GUIDE



Part#: 132008, 132408



HARDCORE LIMITED LIFETIME WARRANTY

**Stock to 2" Load Leveling Kit
4" to 6" Load Leveling Kit**

Ram 1500 4WD | 2019-2026

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 BDS132008 - Stock to 2" Load Leveling Box Kit

Part #	Qty	Description
B1717	1	Bag Kit - Air Bag Components (Straight Fittings)
BP1121	1	Bolt Pack - Schrader Valve Mounting Hardware
	4	5/16" Panel Nut
	2	5/16" External Tooth Lock Washer
	2	5/16" Rubber Sealing Washer, Black
	4	8mm Flat Washer
099000	10	11.5" Nylon Cable Tie - Black
05706	2	1/4" PTC - 1/4 NPT Straight - 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'
BP1112	1	Bolt Pack
	8	3/8" x 1- 1/4" Carriage Bolt
	12	3/8" Nylock Nut
	12	3/8" SAE Flat Washer
	4	3/8" x 1" Flat Head Screw
	4	3/8"x 7/8" Flat Head Screw
	2	5/16" x 1" Hex Head Bolt
	2	5/16" Prevailing Torque Lock Nut
	4	5/16" SAE Flat Washer
05900	2	Air Bag Perch/Seat
05902	2	6" Air Spring Cradle Pad
05718	2	Upper Frame Bracket
05719	2	Upper Air Spring Bracket
05720	1	Lower Driver Side Bracket, Stock
05721	1	Lower Passenger Side Bracket, Stock

Box Kit BDS139000 - 6" Air Spring - Short

Part #	Qty	Description
05700	2	2B6 Short Air Spring

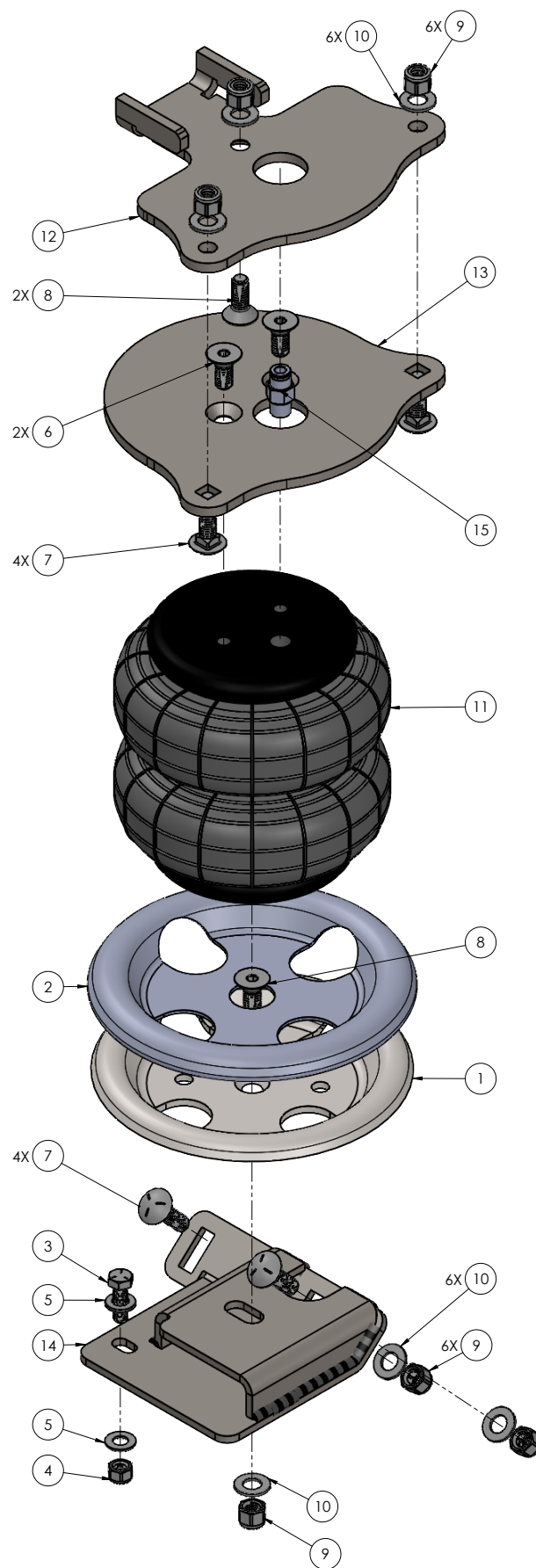
Box Kit 132408 - 4" to 6" Load Leveling Box Kit

Part #	Qty	Description
B1717	1	Bag Kit - Air Bag Components (Straight Fittings)
BP1121	1	Bolt Pack - Schrader Valve Mounting Hardware
	4	5/16" Panel Nut
	2	5/16" External Tooth Lock Washer
	2	5/16" Rubber Sealing Washer, Black
	4	8mm Flat Washer
099000	10	11.5" Nylon Cable Tie - Black
05706	2	1/4" PTC - 1/4 NPT Straight - 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'
BP1112	1	Bolt Pack
	8	3/8" x 1- 1/4" Carriage Bolt
	12	3/8" Nylock Nut
	12	3/8" SAE Flat Washer
	4	3/8" x 1" Flat Head Screw
	4	3/8" x 7/8" Flat Head Screw
	2	5/16" x 1" Hex Head Bolt
	2	5/16" Prevailing Torque Lock Nut
	4	5/16" SAE Flat Washer
05900	2	6" Air Bag Perch/Seat
05902	2	6" Air Spring Cradle Pad
05718	2	Upper Frame Bracket
05719	2	Upper Air Spring Bracket
05722	1	Lower Passenger Side Bracket, 4"-6"
05723	1	Lower Driver Side Bracket, 4" - 6"

Box Kit BDS139001- 6" Air Spring - Tall

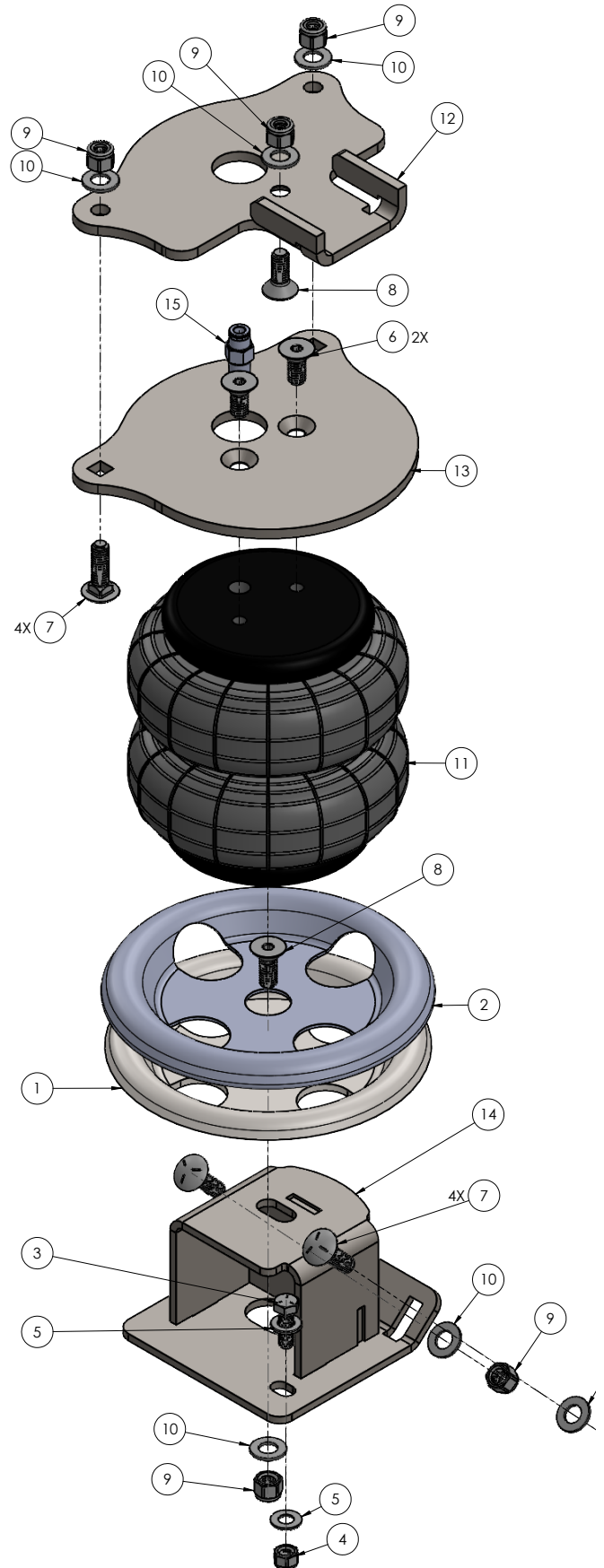
Part #	Qty	Description
05701	2	2B6 Tall Air Spring

2019- 2026 RAM STOCK RIDE HEIGHT AIR BAG ASSEMBLY	
ITEM#	DESCRIPTION
1	6" STAMPED STEEL CRADLE
2	6" AIR SPRING CRADLE PAD
3	5/16" X 1" HEX HEAD BOLT
4	5/16" NYLOCK NUT
5	5/16" FLAT WASHER
6	3/8" X 7/8" FLAT HEAD SCREW
7	3/8" X 1-1/4" CARRIAGE BOLT
8	3/8" X 1" FLAT HEAD SCREW
9	3/8" NYLOCK NUT
10	3/8" FLAT WASHER
11	2B6 SHORT AIR SPRING
12	UPPER FRAME BRACKET
13	UPPER AIR SPRING BRACKET
14	LOWER LEFT BRACKET, STOCK"
15	1/4" PTC - STRAIGHT - AIR FITTING

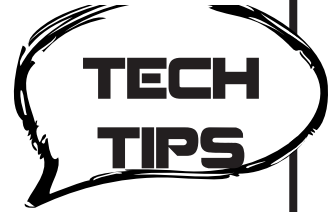


RAM LIFTED AIR BAG ASSEMBLY - PASSENGER SIDE

2019- 2026 RAM LIFTED AIR BAG ASSEMBLY	
ITEM#	DESCRIPTION
1	6" STAMPED STEEL CRADLE
2	6" AIR SPRING CRADLE PAD
3	5/16" X 1" HEX HEAD BOLT
4	5/16" NYLOCK NUT
5	5/16" FLAT WASHER
6	3/8" X 7/8" FLAT HEAD SCREW
7	3/8" X 1-1/4" CARRIAGE BOLT
8	3/8" X 1" FLAT HEAD SCREW
9	3/8" NYLOCK NUT
10	3/8" FLAT WASHER
11	2B6 SHORT AIR SPRING
12	UPPER FRAME BRACKET
13	UPPER AIR SPRING BRACKET
14	LOWER RIGHT BRACKET, 4-6"
15	1/4" PTC - STRAIGHT - AIR FITTING



IMPORTANT INFORMATION FOR YOUR VEHICLE



1. Cutting off the OE bump stop mount is required in the rear for installation.
2. Measure distance between air spring mounting plate and top of the cradle pad. The ideal air spring working height for 05700 is 5.5"-6.5", for 05701 ideal working height is 5.5"-7.5"
3. 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.
4. Air Bag cradle pads are a serviceable item. New air bag cradle pads can be purchased as part # BDS139900.
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.

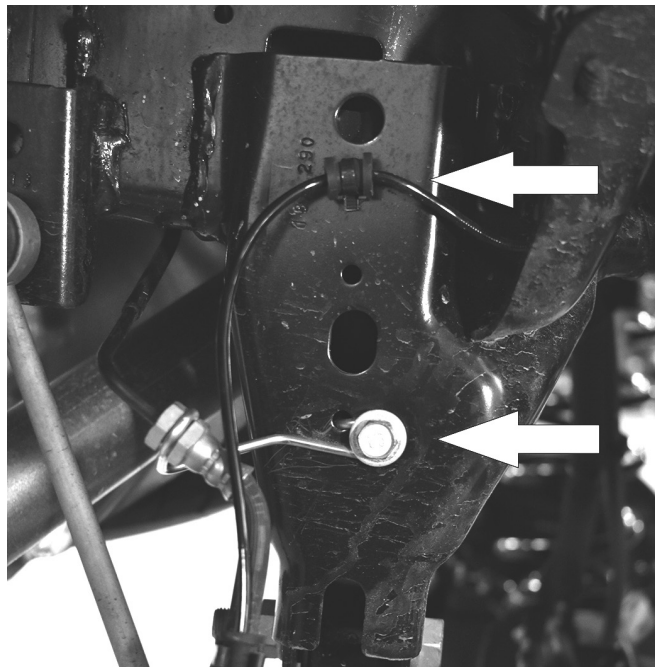
INSTALLATION INSTRUCTIONS

SPECIAL TOOLS

- Sawzall (Recommend 9" 14/18 TPI Blade - Part # DS0914WBF200)
- Angle Grinder with Flap/Fiber Disc
- Torque Wrench
- 3/4" Metal Hole Saw or 3/4" Step Drill Bit
- Center Punch
- Max Wrench/Socket sizes up to 9/16"

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. Disconnect brake line brackets from the outside of the frame rails. Remove the ABS wires from the retaining clips. **(Fig. 1)**

FIGURE 1



5. Remove the rubber bump stop by pulling downward or prying the edge with a flathead screwdriver (**Fig. 2**)

FIGURE 2



6. Remove the bump stop cup by cutting the 2 welds on sides of the cup with a sawzall. (**Fig. 3**)

FIGURE 3



7. Remove any left over weld and smooth bracket with an angle grinder. (**Fig. 4**)

FIGURE 4

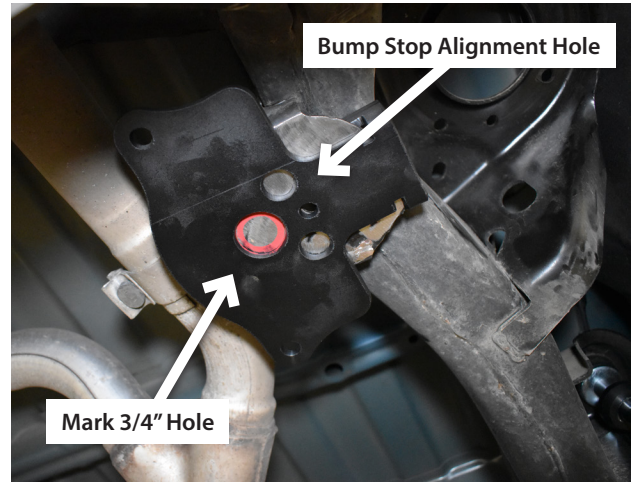


8. Test fit bracket and adjust fitment by grinding the frame bracket where needed.
9. Place upper frame bracket and tap with a rubber hammer until fully seated or use a prybar to press frame bracket onto bump pad, the bracket is properly centered and seated when the 3/8" frame bracket hole is aligned with the bump stop mounting hole. Note: A large punch or screwdriver can be used to center the frame bracket in the bump stop mounting hole. (**Fig. 5A**) With the bracket properly aligned, mark the center of the large hole for drilling. (**Fig. 5B**)

FIGURE 5A



FIGURE 5B



10. Remove frame bracket from bump stop. Dimple to center of the large hole previously marked and drill a pilot hole. Drill to size using a 3/4" hole saw or step bit. (**Fig. 6A, 6B**)

FIGURE 6A

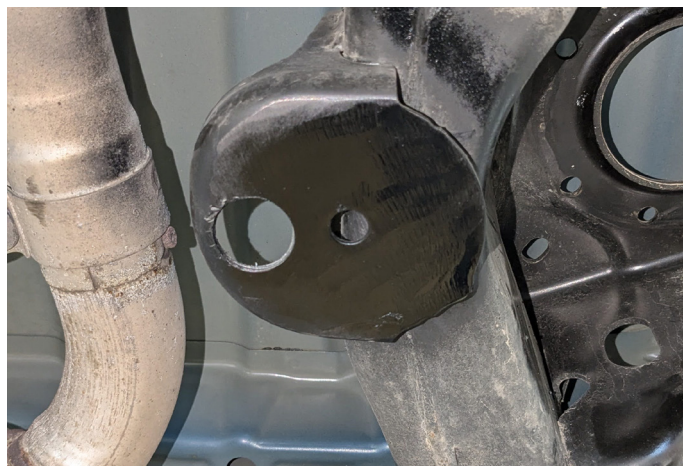


FIGURE 6B



11. Grind off any burrs, then spray paint to prevent rust. (**Fig. 7**)

FIGURE 7

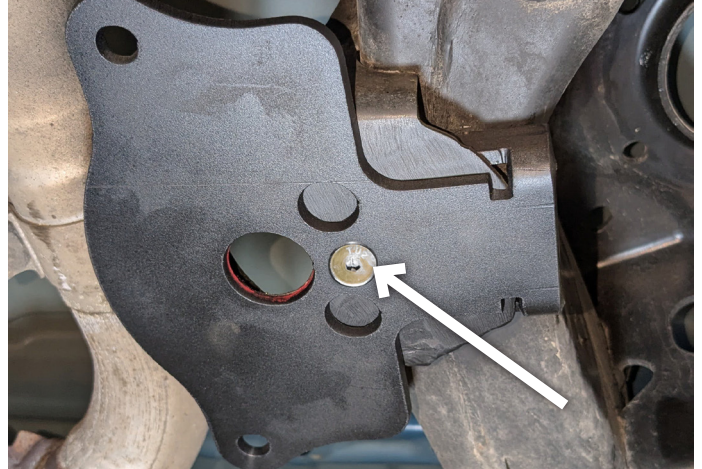


12. Fully seat the frame bracket back into place. Attach to the bump stop mount location using the 3/8" x 1" Flat Head Screw, 3/8" lock nut and washer. **(BP1112)** Torque to 23 ft-lbs **(Fig. 8A, 8B)**

FIGURE 8A



FIGURE 8B



13. Install 1/4" straight air fitting **(B1717)** into the air fitting hole on the top of the airbag assembly until hand tight, then tighten with a wrench 1 and 1/2 more turns. Do not overtighten. **(Fig. 9A)** Mount the bottom plate to the air bag assembly using the 3/8" x 7/8" Flat Head Screws. **(BP1112)** . Torque to 23 ft-lbs **(Fig. 9B)**

FIGURE 9A

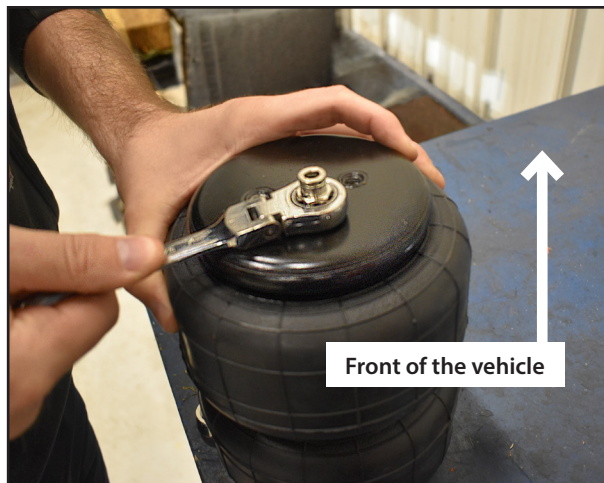
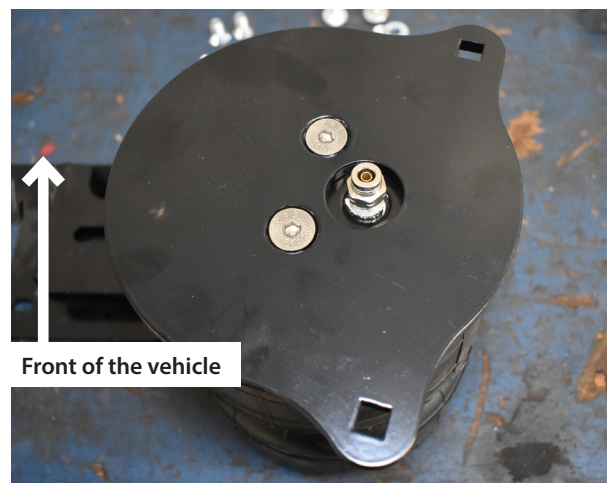


FIGURE 9B



14. If equipped with a bump stop spacer from a suspension lift, remove the lower axle bump stop spacer brackets.
15. *Lower brackets are side specific.* **(Fig. 10A)** is the driver side lower bracket. **(Fig. 10B)** is the passenger side bracket.

FIGURE 10A



FIGURE 10B



16. Install the rubber isolator to the cradle by aligning the locking nibs with the holes in the cradle. **(Fig. 11A)** Push the nibs through the 4 holes then wrap the rubber isolators edge around the cradle, snapping it into place. **(Fig. 11B)**

FIGURE 11A



FIGURE 11B



17. Using pliers pull the locking nibs until they fully seat into the cradle holes, you will feel them snap into place. **(FIG.12A)** 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. 12B)**

FIGURE 12A



FIGURE 12B



18. Mount the air bag cradle to the lower axle bracket using the provided 3/8" x 1" Flat Head Screw, 3/8" Washer & 3/8" Nylock Nut **(BP1112)** Torque to 23 ft-lbs **(Fig. 13A, 13B)**

FIGURE 13A

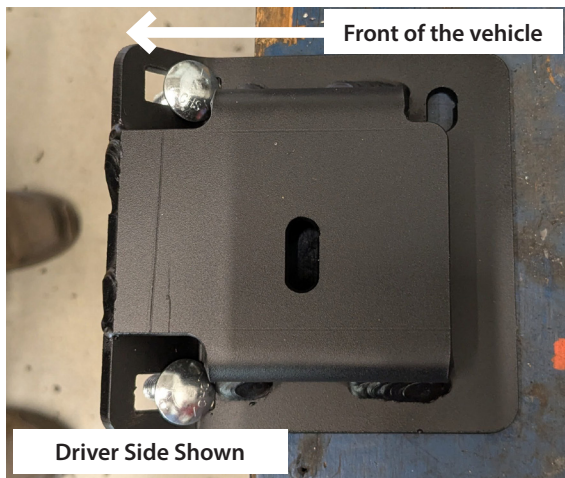


FIGURE 13B



19. Mount the axle bracket to the lower bump plate on the axle. Use the 5/16" bolt, nut and 2 washers on the rear facing side. Torque to 14 ft-lbs (**Fig. 14A**) Place 3/8" x 1-1/4" carriage bolts into the slots of the lower bracket, attach to axle pad with washers and 3/8" nylock nuts. Torque to 23 ft-lbs (**Fig. 14B**) (BP1112)

FIGURE 14A

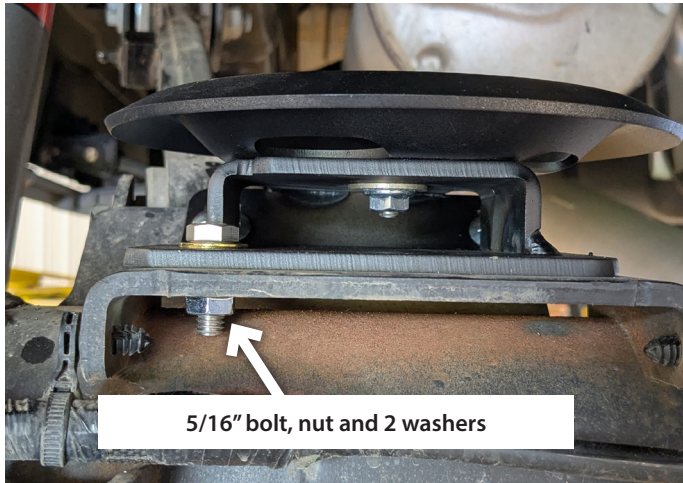
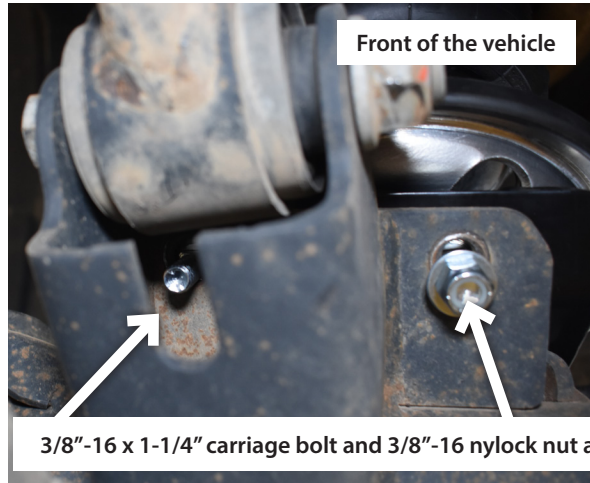
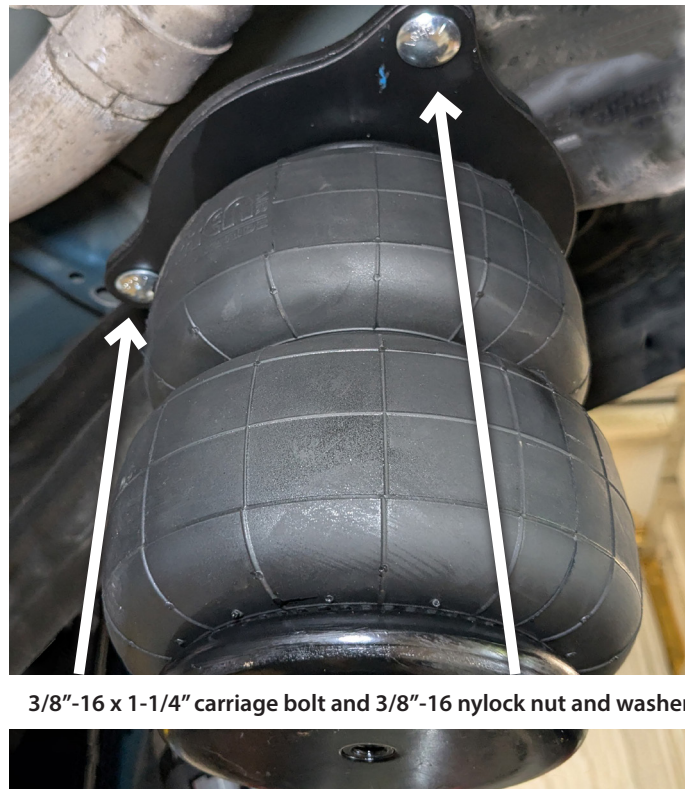


FIGURE 14B



20. Mount the air bag to the upper mount bracket using the provided 3/8"-16 x 1-1/4" carriage bolt and 3/8"-16 nylock nut and washer, from the bottom up. Torque to 23 lb-ft (**Fig. 15**) BP1112

FIGURE 15





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

SEE AIRLINE INSTALLATION GUIDELINES (PAGE 14)

22. When installation is completed, replace rear wheels, lower vehicle to the ground and torque lug nuts to 130 ft-lbs.
23. 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

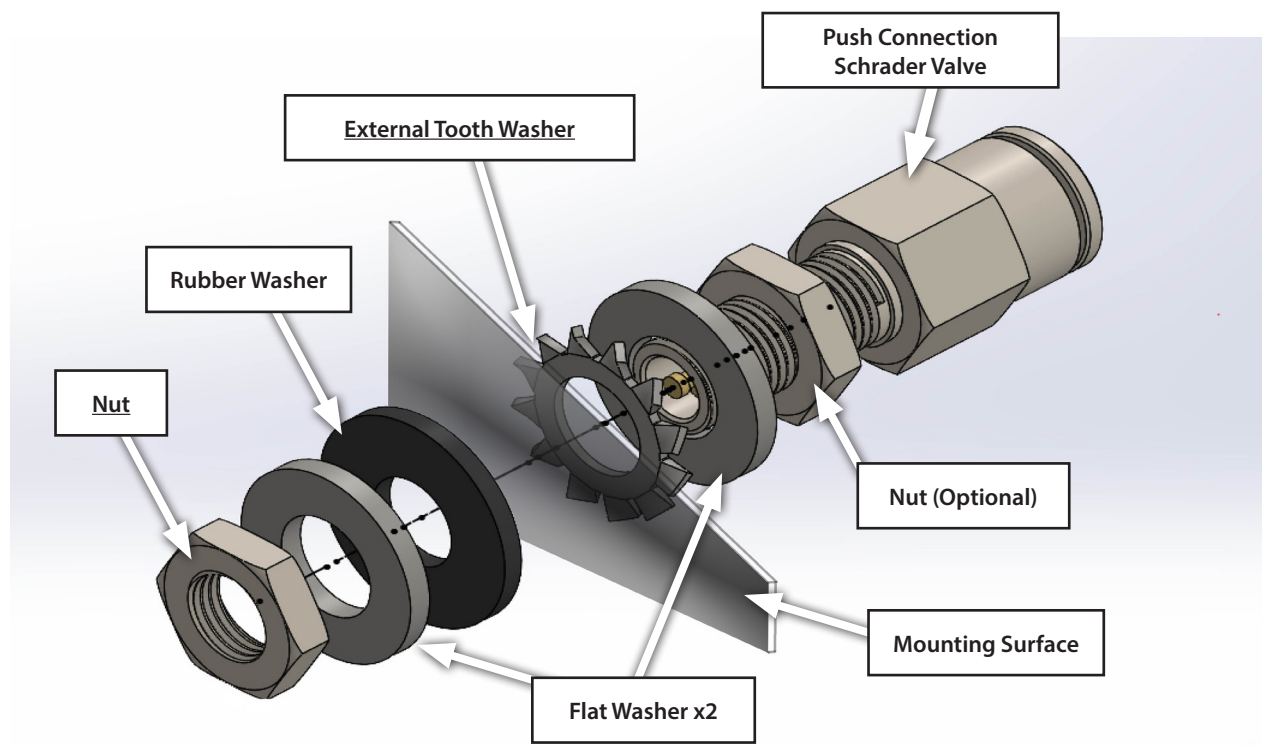
- Choose an accessible location for the air inflation schrader valves.

LOCATION SUGGESTIONS:

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

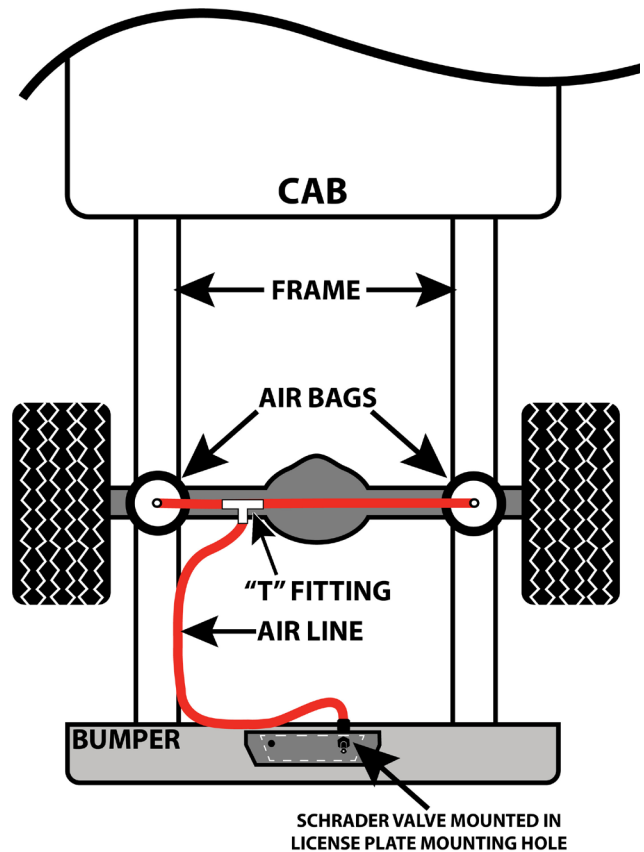
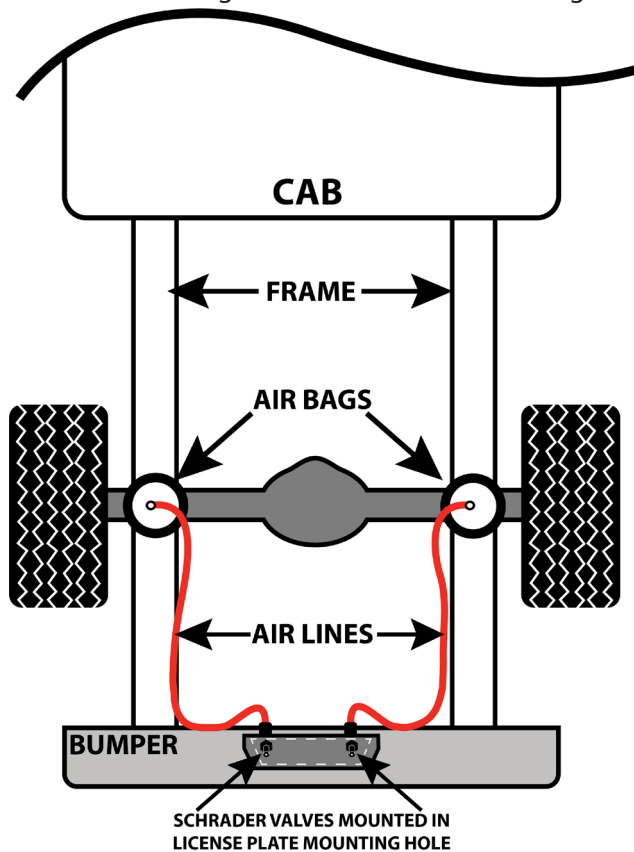
STEP 3: INSTALL SCHRADER VALVES

- 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

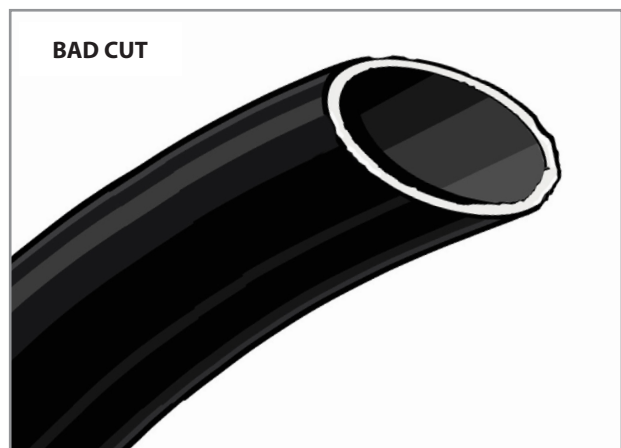
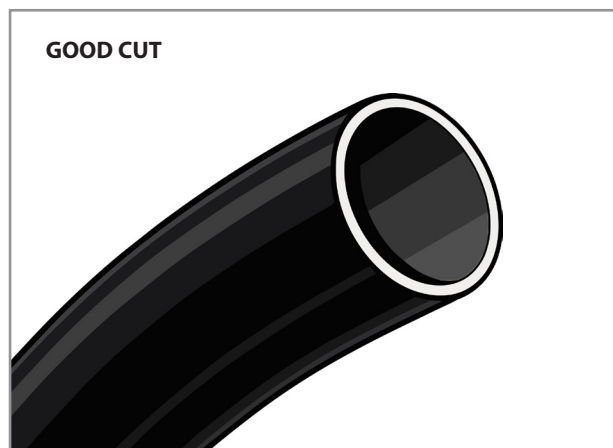


AVOID:

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

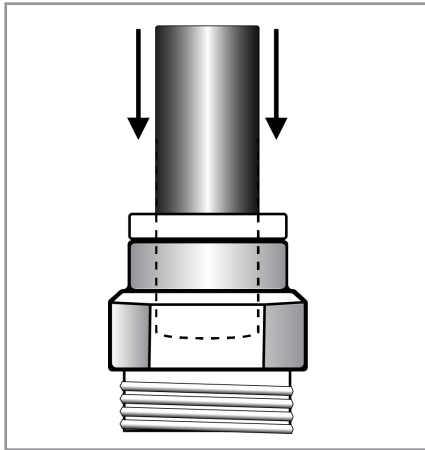
STEP 5: CUT THE LINE RIGHT

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

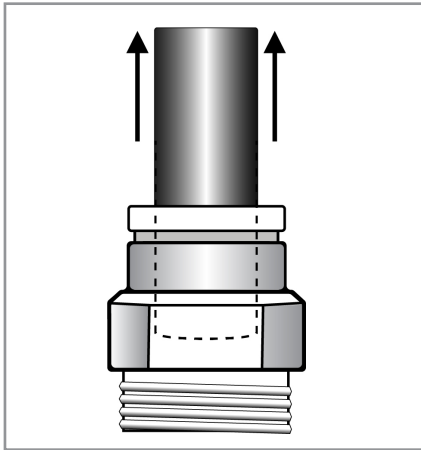


STEP 6: CONNECT LINES TO AIR BAGS AND SCHRADER VALVES

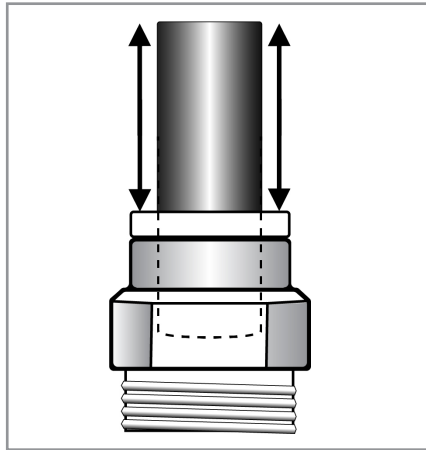
Push line fully into fitting



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.