

INSTALLATION GUIDE



Part#: 131007, 131409, 131609



HARDWARE LIMITED LIFETIME WARRANTY

Stock to 2" (Non AT4) Load Leveling Kit

3" - 4" Load Leveling Kit

5" - 6" Load Leveling Kit

Silverado 1500 / Sierra 1500 | 2019-2026

Rev. 090826

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 adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floorboards 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 headlight 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-road. 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 BDS131007 - Stock to 2" Load Leveling Box Kit

Part #	Qty	Description
B1716	1	Bag Kit - Air Bag Components (90deg Fittings)
BP1121	1	Schrader Valve Mounting Hardware
	4	5/16" Panel Nut
	2	5/16" External Tooth Lock Washer
	2	5/16" Rubber Sealing Washer, Black EPDM
	4	8mm Flat Washer
099000	10	11.5in Nylon Cable Tie - Black
05710	2	1/4" PTC Schrader Valve - Air Fitting
05705	2	1/4" PTC - 1/4 NPT 90deg - Air Fitting
05709	1	1/4" PTC Tee - Air Fitting
B1743	1	Bag Kit: Air Support Kit
05812	2	Inner Frame Spacer
05806	2	Air Kit Inner Nut Tab
05907	2	Upper Air Spacer
BP1132	1	Air Spring Hardware Kit
	8	3/8" x 1-1/4" Hex Head Bolt, Yellow Zinc
	4	3/8" NyLock Nut, Yellow Zinc
	12	3/8" Flat Washer, Yellow Zinc
	4	3/8" x 3/4" Button Head Bolt
	2	10mm x 40mm Button Head Bolt
	2	3/8" x 3/4" Flat Head Screw, Clear Zinc
	2	3/8" Prevailing Torque Flange Hex Nut
	6	3/8" x 1-1/4" Carriage Bolt
	6	3/8" NyLock Nut
	6	3/8" Flat Washer
05900	2	6" Air Bag Perch/Seat Cradle
05902	2	6" Cradle Pad
05813	2	Air Spring Upper Mount
05817	1	Air Spring Frame Mount- Driver Side
05818	1	Air Spring Frame Mount- Passenger Side
05835	2	Air Spring Stock Lower Mount
05711	1	1/4" Air Line - 16'

Box Kit BDS139000 - 6" Air Spring - Short

Part #	Qty	Description
05700	2	2B6 Short Air Spring

Box Kit 131409 - 3"- 4" Load Leveling Box Kit

Part #	Qty	Description
B1716	1	Bag Kit - Air Bag Components (90deg Fittings)
BP1121	1	Schrader Valve Mounting Hardware
	4	5/16" Panel Nut
	2	5/16" External Tooth Lock Washer
	2	5/16" Rubber Sealing Washer, Black EPDM
	4	8mm Flat Washer
099000	10	11.5in Nylon Cable Tie - Black
05710	2	1/4" PTC Schrader Valve - Air Fitting
05705	2	1/4" PTC - 1/4 NPT 90deg - Air Fitting
05709	1	1/4" PTC Tee - Air Fitting
B1743	1	Bag Kit: Air Support Kit
05812	2	Inner Frame Spacer
05806	2	Air Kit Inner Nut Tab
05907	2	Upper Air Spacer
BP1132	1	Air Spring Hardware Kit
	8	3/8" x 1-1/4" Hex Head Bolt, Yellow Zinc
	4	3/8" NyLock Nut, Yellow Zinc
	12	3/8" Flat Washer, Yellow Zinc
	4	3/8" x 3/4" Button Head Bolt
	2	10mm x 40mm Button Head Bolt
	2	3/8" x 3/4" Flat Head Screw, Clear Zinc
	2	3/8" Prevailing Torque Flange Hex Nut
	6	3/8" x 1-1/4" Carriage Bolt
	6	3/8" NyLock Nut
	6	3/8" Flat Washer
05900	2	6" Air Bag Perch/Seat Cradle
05902	2	6" Cradle Pad
05813	2	Air Spring Upper Mount
05817	1	Air Spring Frame Mount- Driver Side
05818	1	Air Spring Frame Mount- Passenger Side
05837	1	Air Spring 3" Lower Mount- Driver Side
05838	1	Air Spring 3" Lower Mount- Passenger Side
05711	1	1/4" Air Line - 16'

Box Kit BDS139001- 6" Air Spring - Tall

Part #	Qty	Description
05701	2	2B6 Tall Air Spring

CONTENTS OF YOUR KIT

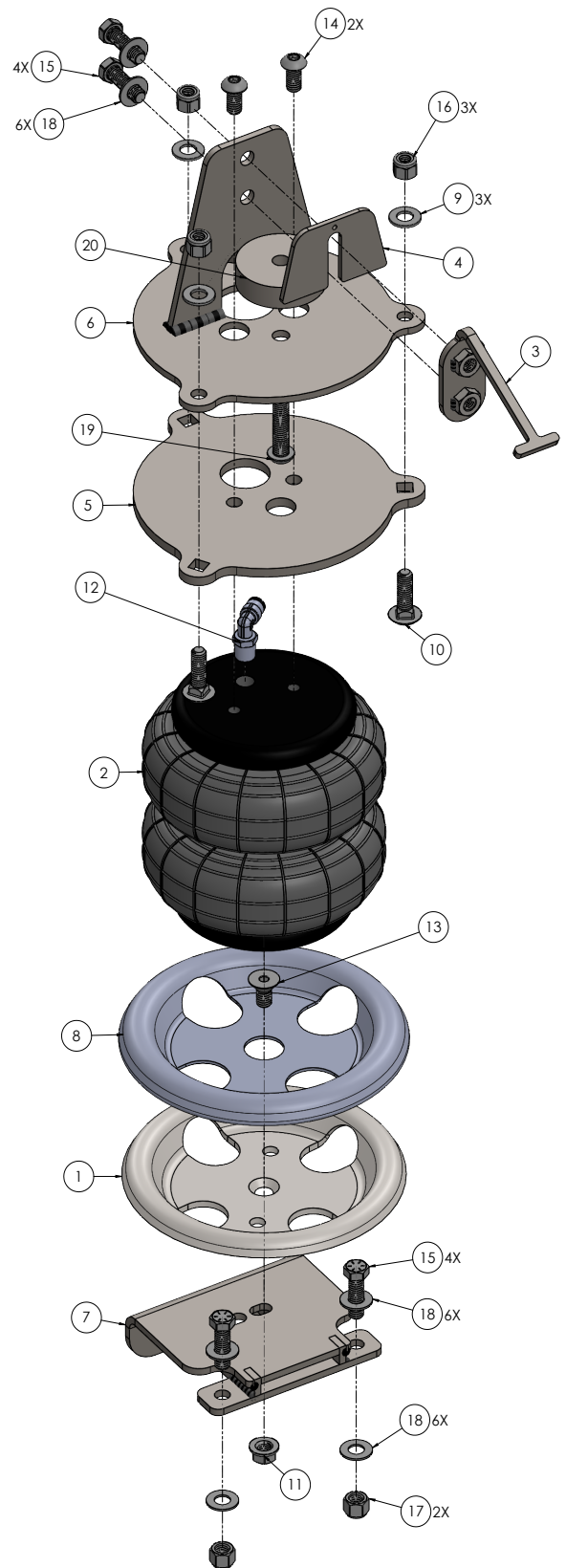
Box Kit 131609 - 5" to 6" Load Leveling Box Kit

Part #	Qty	Description
B1716	1	Bag Kit - Air Bag Components (90deg Fittings)
BP1121	1	Schrader Valve Mounting Hardware
	4	5/16" Panel Nut
	2	5/16" External Tooth Lock Washer
	2	5/16" Rubber Sealing Washer, Black EPDM
	4	8mm Flat Washer
099000	10	11.5" Nylon Cable Tie - Black
05710	2	1/4" PTC Schrader Valve - Air Fitting
05705	2	1/4" PTC - 1/4 NPT 90deg - Air Fitting
05709	1	1/4" PTC Tee - Air Fitting
B1744	1	Bag Kit - BDS Performance Towing Badge Kit
05819	2	BDS Performance Towing Emblem
887	2	Bolt Pack
B1743	1	Air Support Kit
05907	2	Upper Air Spacer
05812	2	Inner Frame Spacer
05806	2	Air Kit Inner Nut Tab
BP1132	1	Air Spring Hardware Kit
	8	3/8" x 1-1/4" Hex Head Bolt, Yellow Zinc
	4	3/8" NyLock Nut, Yellow Zinc
	12	3/8" Flat Washer, Yellow Zinc
	4	3/8" x 3/4" Button Head Bolt
	2	10mm x 40mm Button Head Bolt
	2	3/8" x 3/4" Flat Head Screw, Clear Zinc
	2	3/8" Prevailing Torque Flange Hex Nut
	6	3/8" x 1-1/4" Carriage Bolt
	6	3/8" NyLock Nut
	6	3/8" Flat Washer
05900	2	6" Air Bag Perch/Seat Cradle
05902	2	6" Cradle Pad
05813	2	Air Spring Upper Mount
05817	1	Air Spring Frame Mount- Driver Side
05818	1	Air Spring Frame Mount- Passenger Side
05839	1	Air Spring 5" Lower Mount- Driver Side
05840	1	Air Spring 5" Lower Mount- Passenger Side
05711	1	1/4" Air Line - 16'

Box Kit BDS139004- 6" Air Spring - Tall

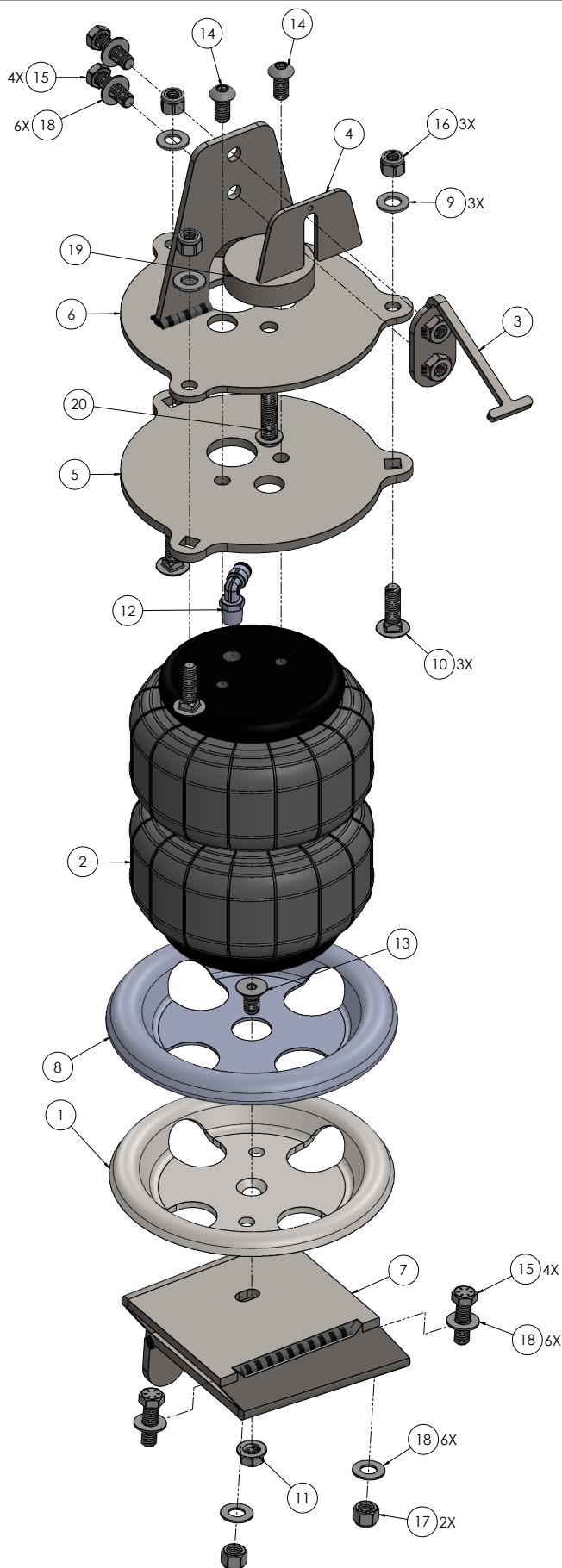
Part #	Qty	Description
05701T	2	2B6 Tall Air Spring

2019-26 GM 1500 STOCK-2" AIR BAG ASSEMBLY	
ITEM#	DESCRIPTION
1	6" STAMPED STEEL CRADLE
2	2B6 SHORT AIR SPRING
3	AIR SUPPORT NUT TAB
4	UPPER FRAME MOUNT SPACER
5	UPPER AIR SPRING MOUNT
6	UPPER FRAME MOUNT - DRIVER SIDE
7	STOCK LOWER AIR SPRING MOUNT
8	6" AIR SPRING CRADLE PAD
9	3/8" SAE WASHER
10	3/8" X 1-1/4" CARRIAGE BOLT
11	3/8" DISTORTED-THREAD FLANGE NUT,
12	90° AIR FITTING
13	3/8" X 3/4" FLAT HEAD BOLT
14	3/16" X 3/4" BUTTON HEAD BOLT
15	3/8" X 1-1/4" HEX HEAD BOLT - ZINC YELLOW
16	3/8" NYLOCK NUT
17	3/8" NYLOCK NUT, ZINC YELLOW
18	3/8" WASHER, ZINC YELLOW
19	10MM x 40MM BUTTON HEAD BOLT
20	UPPER AIR SPACER



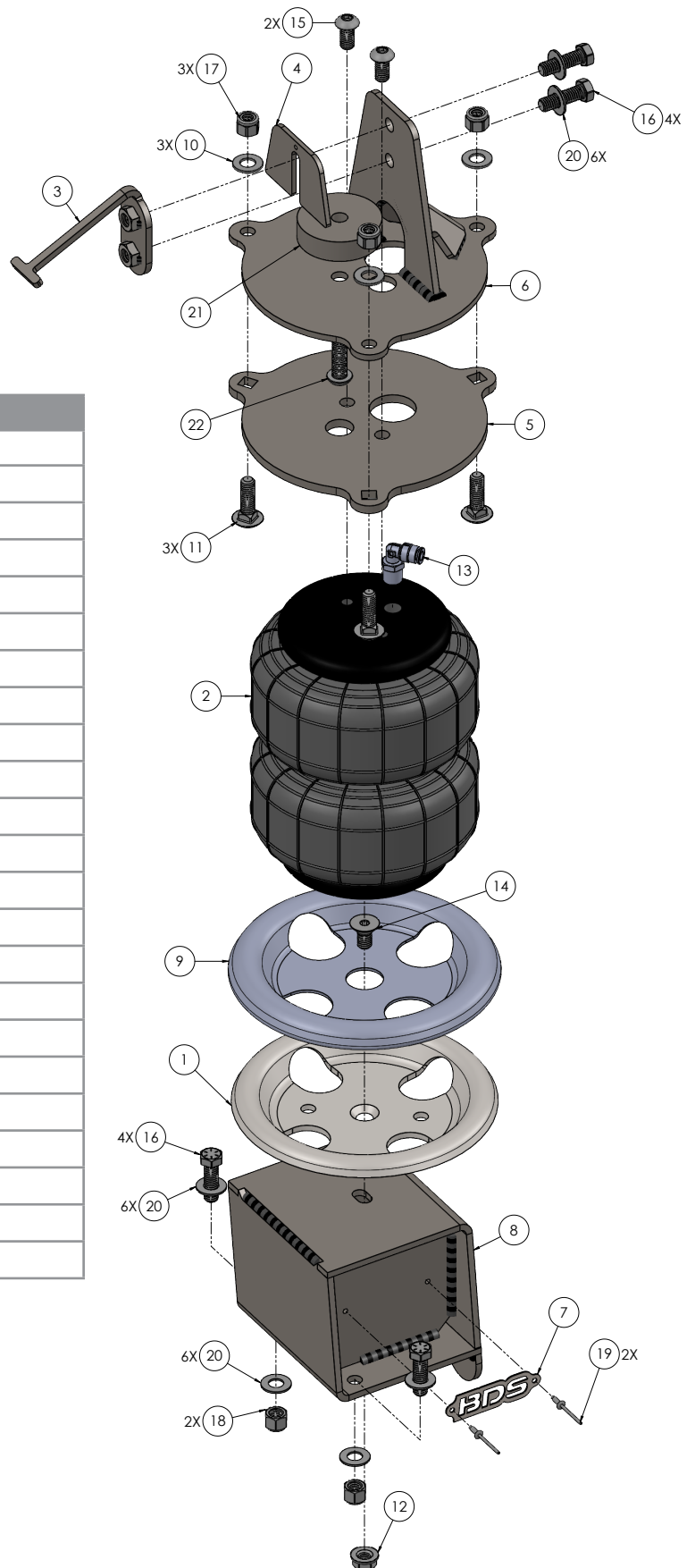
GM 1500 3" AIR BAG ASSEMBLY - DRIVER SIDE

2019-26 GM 1500 3" AIR BAG ASSEMBLY	
ITEM#	DESCRIPTION
1	6" STAMPED STEEL CRADLE
2	2B6 TALL AIR SPRING
3	AIR SUPPORT NUT TAB
4	UPPER FRAME MOUNT SPACER
5	UPPER AIR SPRING MOUNT
6	UPPER FRAME MOUNT - DRIVER SIDE
7	3" LOWER AIR SPRING MOUNT - DRIVER SIDE
8	6" AIR SPRING CRADLE PAD
9	3/8" SAE WASHER
10	3/8"X 1-1/4" CARRIAGE BOLT
11	3/8" DISTORTED-THREAD FLANGE NUT
12	90° AIR FITTING
13	3/8" X 3/4" FLAT HEAD BOLT
14	3/16" X 3/4" BUTTON HEAD BOLT
15	3/8" X 1-1/4" HEX HEAD BOLT, YELLOW ZINC
16	3/8" NYLOCK NUT
17	3/8" NYLOCK NUT, YELLOW ZINC
18	3/8" WASHER, YELLOW ZINC
19	UPPER AIR SPACER
20	10MM x 40MM BUTTON HEAD BOLT



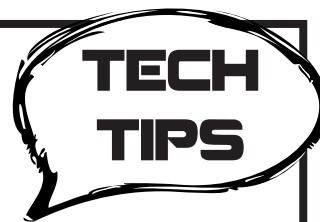
GM 1500 4-6" AIR BAG ASSEMBLY - DRIVER SIDE

2019-26 GM 1500 4-6" AIR BAG ASSEMBLY	
ITEM#	DESCRIPTION
1	6" STAMPED STEEL CRADLE
2	2B6 TALL AIR SPRING
3	AIR SUPPORT NUT TAB
4	UPPER FRAME MOUNT SPACER
5	UPPER AIR SPRING MOUNT
6	UPPER FRAME MOUNT - DRIVER SIDE
7	BADGE: BDS PERFORMANCE TOWING EMBLEM
8	5" LOWER AIR SPRING MOUNT - DRIVER SIDE
9	6" AIR SPRING CRADLE PAD
10	3/8" SAE WASHER
11	3/8" X 1-1/4" CARRIAGE BOLT
12	3/8"-DISTORTED-THREAD FLANGE NUT
13	90° AIR FITTING
14	3/8" X 3/4" FLAT HEAD BOLT
15	3/16" X 3/4" BUTTON HEAD
16	3/8"X 1-1/4" HEX HEAD BOLT, ZINC YELLOW
17	3/8" NYLOCK NUT
18	3/8" NYLOCK NUT, ZINC YELLOW
19	1/8" RIVET
20	3/8" WASHER, ZINC YELLOW
21	UPPER AIR SPACER
22	10MM x 40MM BUTTON HEAD BOLT



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 the 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. BDS Performance Towing Air Bag kits utilize serviceable parts and can be purchased accordingly.
 - Air Bag (**Qty 1**): BDS139907 for short air spring. BDS139908 for tall air spring.
 - Air bag cradle pads (**Qty 2**): BDS139900
 - 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. Any residue on the badge can be cleaned up using alcohol or brake cleaner before installation.
8. 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) | • Torque Wrench |
| • Angle Grinder with Flap/Fiber Disc | • 13/32" Drill Bit or Step Bit |
| | • Max Wrench/Socket sizes up to 9/16" |

1. Park the vehicle on a 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. Install the rubber isolator to the cradle by aligning the locking nibs with the holes in the cradle. (**Fig. 1A**) Push the nibs through the 4 holes then wrap the rubber isolator's edge around the cradle, snapping it into place. (**Fig. 1B**)

FIGURE 1A



FIGURE 1B



5. Using pliers pull the locking nibs until they fully seat into the cradle holes, you will feel them snap into place. **(Fig.2A)** 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. 2B)**

FIGURE 2A



FIGURE 2B



6. TB / AT4 / ZR2/ AT4X Models ONLY: Remove the 4 lower bump bolts (8mm) and nut tabs. **(Fig. 3A, 3B)** Remove lower bump stop spacers.

FIGURE 3A



FIGURE 3B



NOTE: Bolts will likely break, it is recommended that you use a penetrating lubricant prior to removal

7. Remove the 3 T-40 bolts on the brake line rail and unclip the wiring harness connectors from the rail. Remove the brake line rail from the rear axle. **(Fig. 4A, 4B, 4C)**

FIGURE 4A



FIGURE 4B

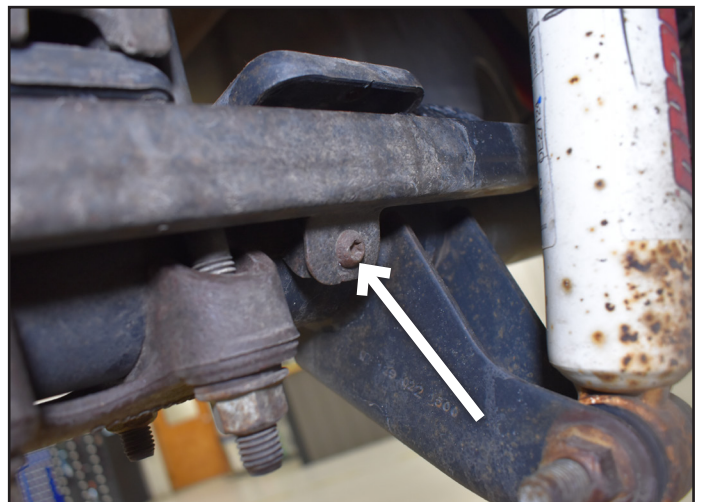
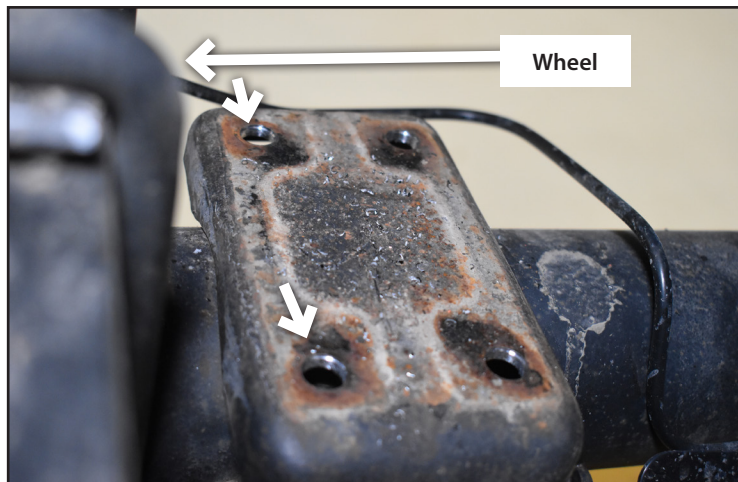


FIGURE 4C



8. Drill the outer (**towards the wheel**), lower bump stop pad holes with 13/32" drill or step bit. (**Fig. 5**)

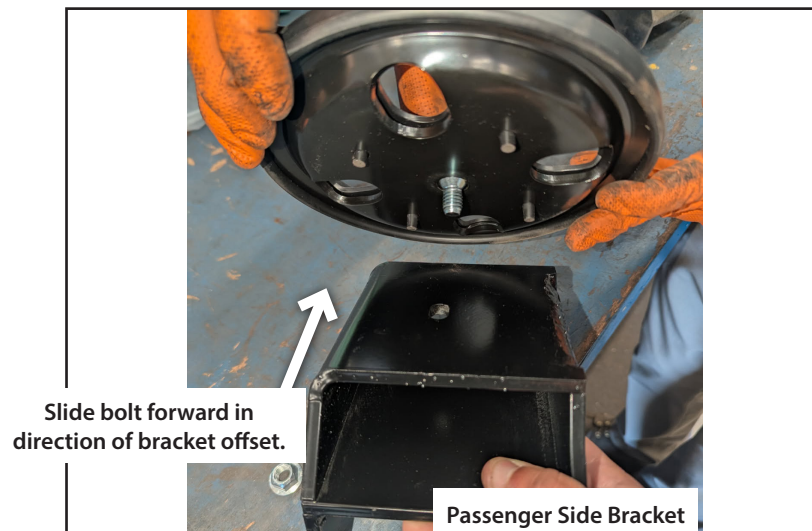
FIGURE 5



9. Mount the cradle to the axle bracket using the 3/8" flat head bolt and 3/8" flanged lock nut found in BP1132 and B1768. Torque to 23 ft-lbs. (**Fig. 6**)

NOTE: For stock height bracket that has two slots to locate the air spring front to back, it is recommended to mount the cradle using the slot offset toward the front of the vehicle. For 3" and 5" brackets, the bracket will be offset to the front of the truck.

FIGURE 6



10. Mount the lower bracket to the axle bump bracket using (2) 3/8" X 1-1/4" hex bolts, washers, and lock nuts found in (BP1132). Torque to 33 ft-lbs (Fig. 7A, 7B, 7C)

FIGURE 7A (STOCK MOUNT)

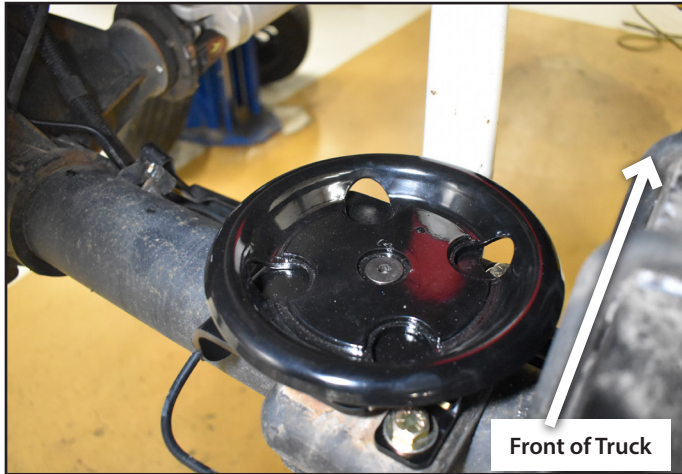


FIGURE 7B (3" MOUNT)

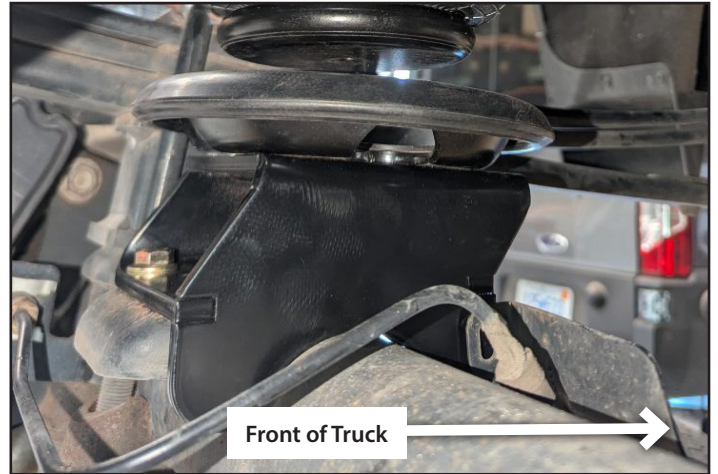
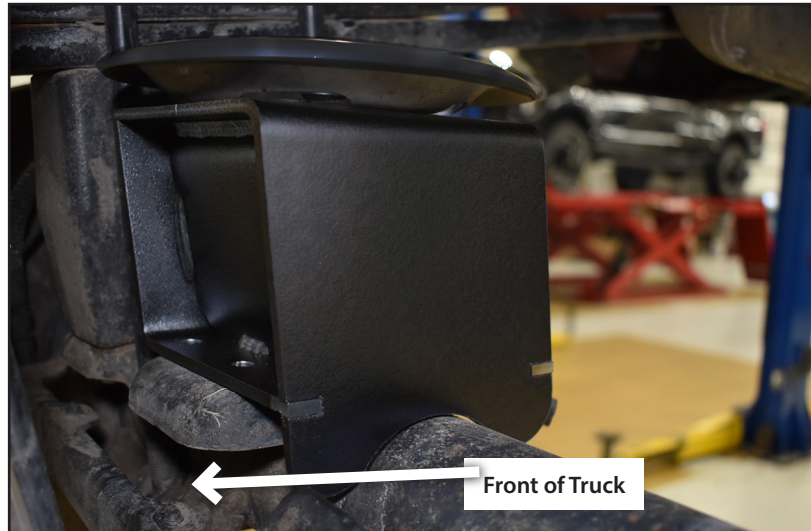


FIGURE 7C (5" MOUNT)



NOTE: The brake line may need to be bent to adequately clear the lower cradle mount. Ensure brake line is not touching the lower mount.

11. For 5" Kits: Install supplied badge to the lower mount using the supplied 1/8" rivets (B1744). (Fig. 8)

FIGURE 8



12. Remove upper rubber bump stop by removing the 10mm bolt. (Fig. 9A, 9B)

FIGURE 9A



FIGURE 9B



13. Mark and cut the upper bump stop cup in-line with the inner frame rail. (Fig. 10A, 10B)

FIGURE 10A

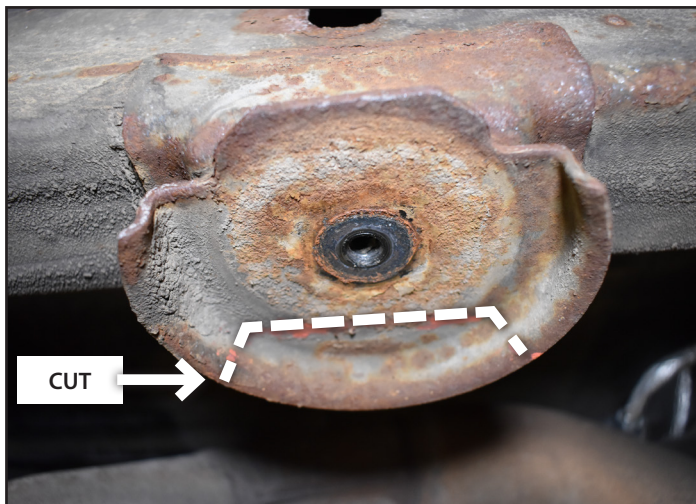


FIGURE 10B



14. Use an angle grinder with flap disc or sander to knock down any burrs or rough edges. Coat the bare metal with paint to avoid rust. (Fig. 11)

FIGURE 11



15. Insert the provided sleeve (**B1743**) between the frame and the air bag bracket and install the provided 10mm X 40mm button head bolt found in (**BP1132**). Torque to 22 ft-lbs. (**Fig. 12A, 12B**)

FIGURE 12A

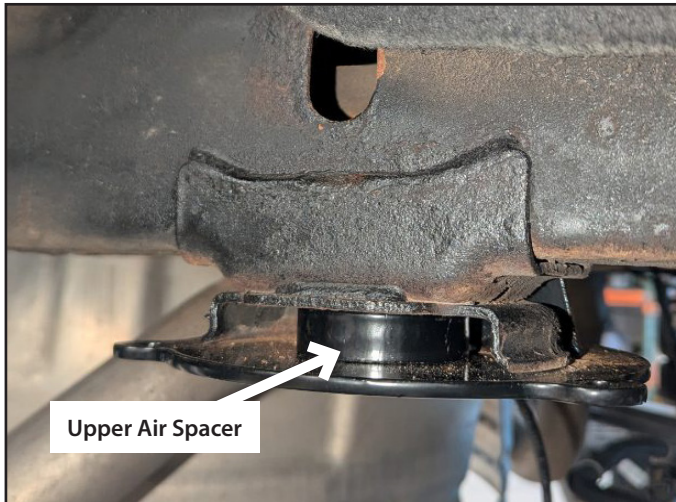


FIGURE 12B



16. Insert the provided nut tab through the outside frame rail slot (**Fig. 13B**) and install the bracket to the frame using (2) 3/8" X 1-1/4" hex bolts and 3/8" washers. With the 3/8" X 1-1/4" hex bolts loose, slide the frame spacer (**B1743**) between the frame and upper bracket. Torque hex bolts to 33 ft-lbs. (**Fig. 13A**)

FIGURE 13A

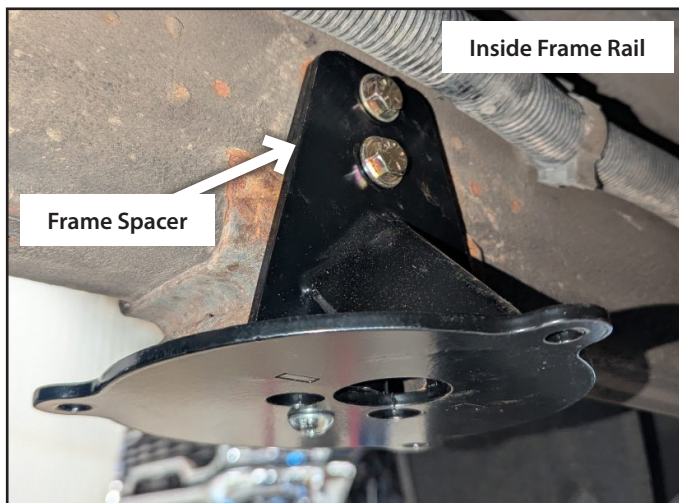
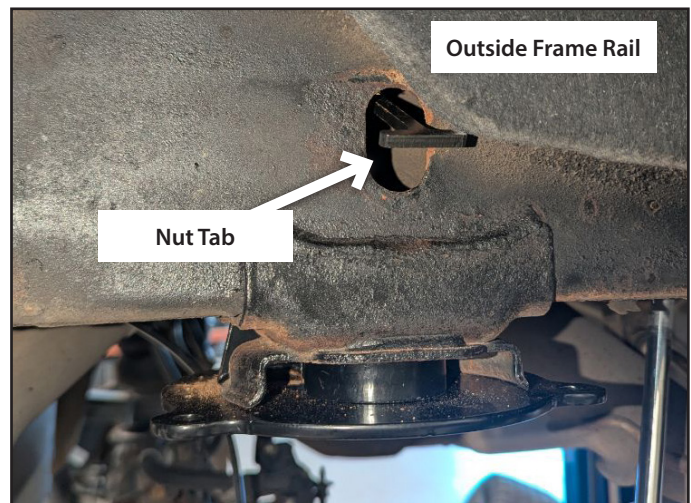


FIGURE 13B



NOTE (4-6" Installs only): The brake line relocation bracket may need to be bent up towards the bed of the truck to avoid interfering with the driver's-side bracket.

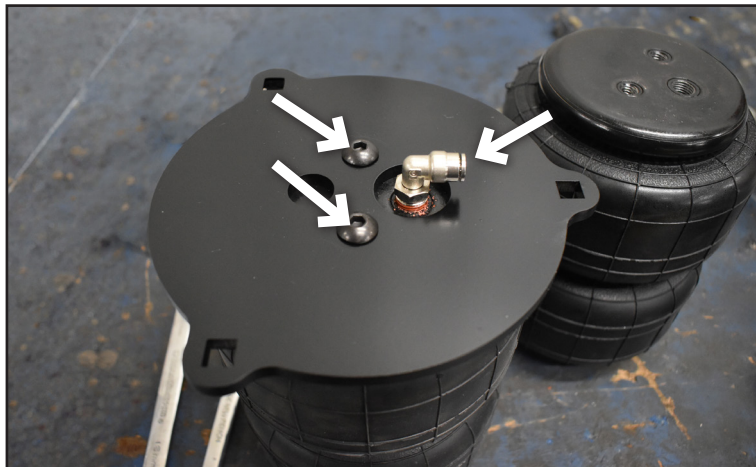
17. Install the fitting finger-tight, then tighten 1 - 1/2 turns. (**B1716**). (**Fig. 14**)

FIGURE 14



18. Attach the upper attachment bracket to the air bag assembly using the provided **(2)** 3/8" X 3/4" button head bolts found in BP1132. Torque to 23 ft-lbs. **(Fig. 15)**

FIGURE 15



19. Install the air bag and bracket assembly to the upper frame bracket using the **(3)** 3/8" carriage bolts, **(3)** nylock nuts and **(3)** flat washers. **(BP1132)** Install the carriage bolts from the bottom up. Torque to 23 ft-lbs. **(Fig. 16A, 16B)**

FIGURE 16A



FIGURE 16B



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

SEE AIRLINE INSTALLATION GUIDELINES (PAGE 17)

21. Reinstall the wiring harness push clips onto the brake line rail. Fasten brake line rail to the axle using the **(3)** factory T-40 bolts. Torque to 16 ft-lbs.
22. When installation is completed, replace rear wheels, lower vehicle to the ground and torque lug nuts to 140 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

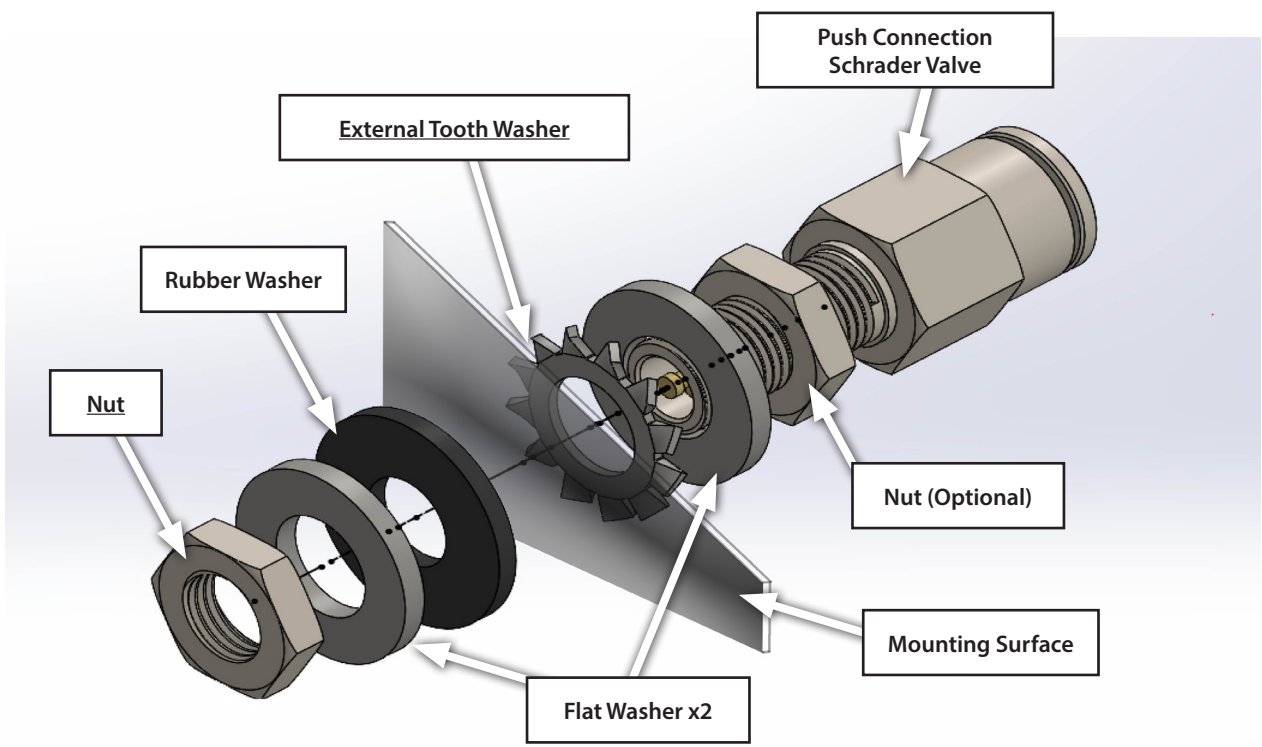
- Choose an accessible location for the air inflation Schrader valves.

LOCATION SUGGESTIONS:

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

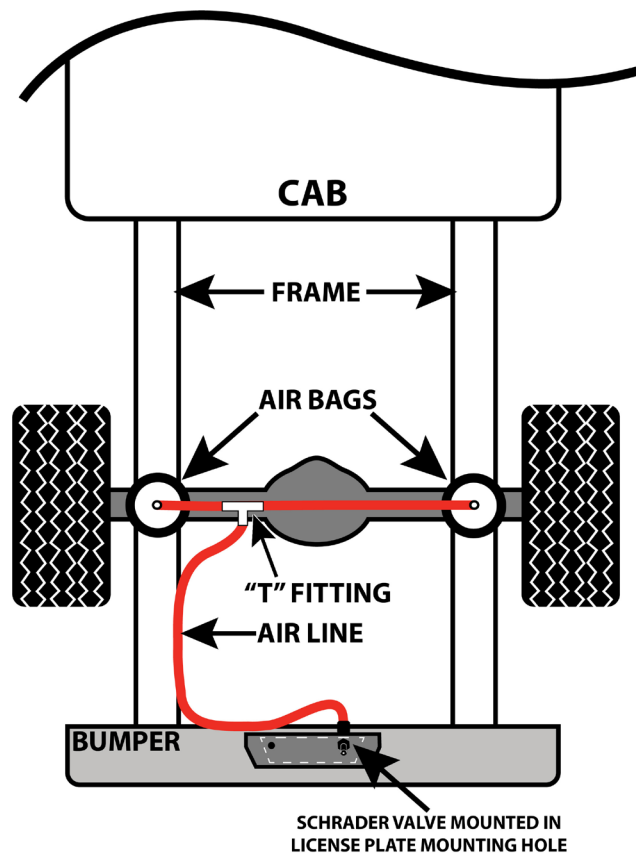
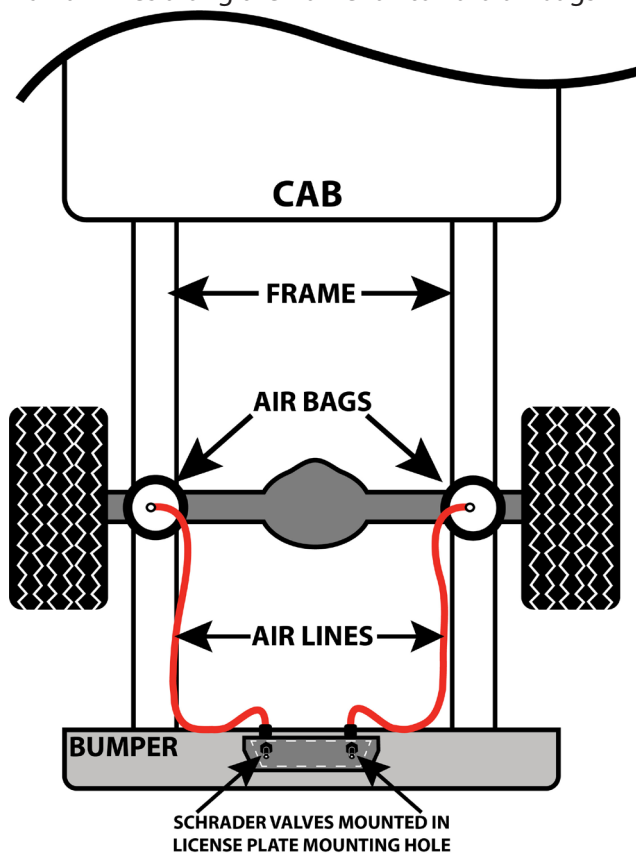
STEP 3: INSTALL SCHRADER VALVES

- 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

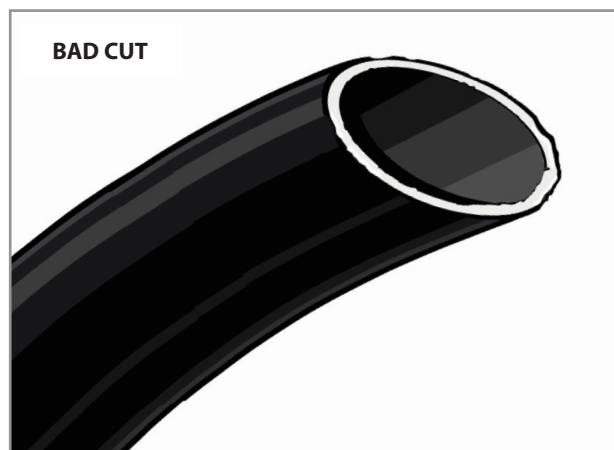
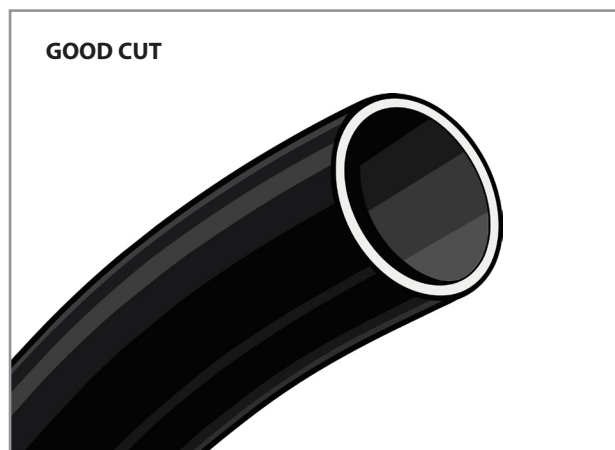


AVOID

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

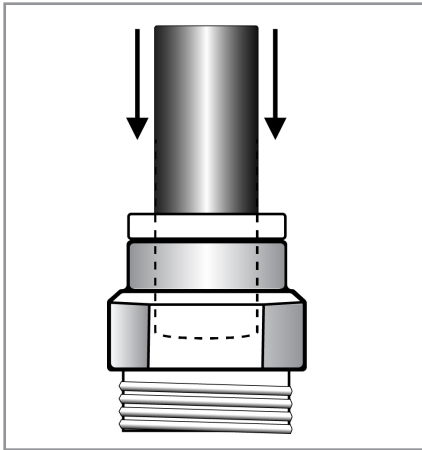
STEP 5: CUT THE LINE RIGHT

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

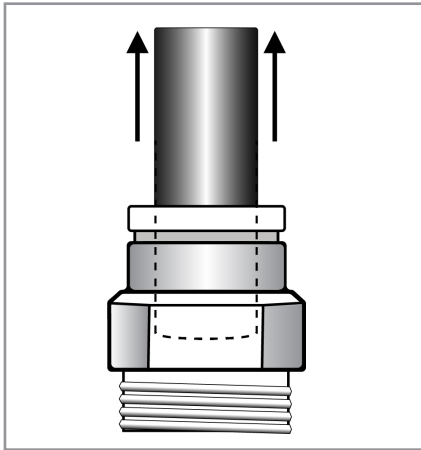


STEP 6: CONNECT LINES TO AIR SPRINGS AND SCHRADER VALVES

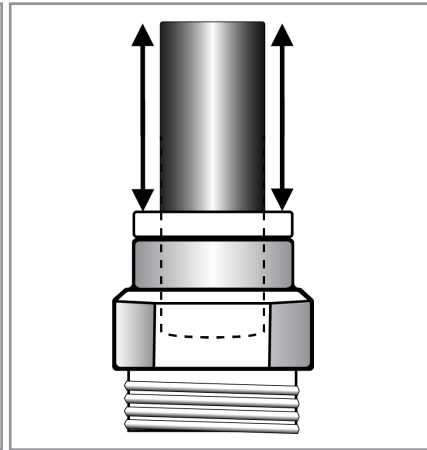
Push line fully into fitting



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.