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## **2014-2024 Ram 2500 Installation Instructions**

<b>Revision History</b>		
<b>Rev</b>	<b>Date</b>	<b>Description</b>
A	12/15/2023	Initial release

### **PLEASE READ**

Read all instructions before beginning installation. These instructions are provided in good faith to help prevent any problems or injuries that may be caused by errors in installation. Full Travel Bags LLC and its Members shall not be held responsible for installation actions taken or not taken. There are details of the installation that are assumed to be general mechanical knowledge to experienced mechanics; which are not included in these instructions. Selection of an experienced installer is the sole responsibility of the vehicle owner. Full Travel Bags LLC and its Members do not accept any responsibility for failures, injuries or losses resulting from or associated with use of its product.

## GENERAL INFORMATION

### General Notes

1. The compressed height of the airbag is 2.7". Airbags are equipped with internal bump stops and are rated to 250 PSI.
2. Always wear safety glass and any other relevant protective equipment.
3. You should be comfortable and proficient at using an automotive floor jack, vehicle lift, power tools, etc.
4. Install time is approximately 1 hour.
5. Please read through and understand the instructions before beginning any work.
6. This kit is designed for 2014-2024 Ram 2500 coil sprung trucks with a minimum 1.5" rear lift coil spring OR stock Power Wagons. It will not function properly with stock height, lowered height or factory air trucks.
7. These airbags will provide a combined force of approximately 3000 lbs at 100psi.
8. Always consult Full Travel Bags LLC with any questions. Email: [tech@fulltravelbags.com](mailto:tech@fulltravelbags.com) Ph: 714-886-8202.

### After Installation

1. Verify that all fasteners have been properly torqued.
2. Pressurize the system (30-40 psi) and check for air leaks with a soapy water solution in a spray bottle.

### Essential Tips

1. Some on-board air compressors are programmed to maintain a minimum of 5 psi. If this is your case, we recommend that an appropriately rated ON-OFF switch and fuse (not provided) be installed so that power to the compressor can be killed when the airbag assemblies are removed.
2. **DO NOT disconnect the quick connect air fittings when the system is pressurized.** This could result in damage to persons or property. Fully air down the system safely and then proceed to disconnect and remove the Airbag Assemblies.

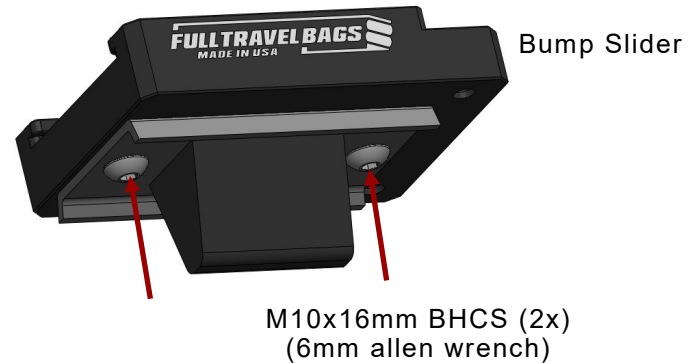
## STEPS

1. Remove the factory rear bump stops and re-install them on the Bump Slider as shown. Secure them with the provided hardware. **DO NOT** use threadlocking compound on a plastic (Delrin-Acetal) Bump Slider.
2. Fasten a Lanyard Assembly to each Receiver Plate with the indicated hardware.
3. Install the Receiver Plates to the bump stop perch as shown. Be sure to wipe clean the mating surface of the perch. Use a medium strength thread locking compound on each fastener. Follow the process steps below.

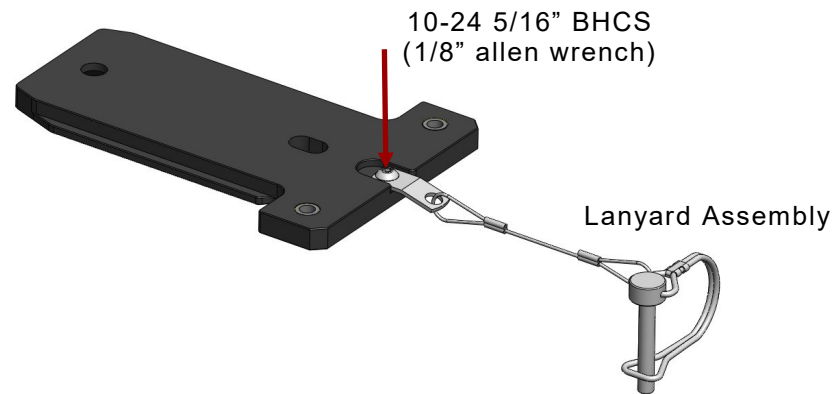
Process steps:

- 1) Loosely install each indicated fastener.
- 2) Torque the M10x35mm FHCS to 30 ft-lbs.
- 3) Torque the M10 Flange Head Screw to 45 ft-lbs.

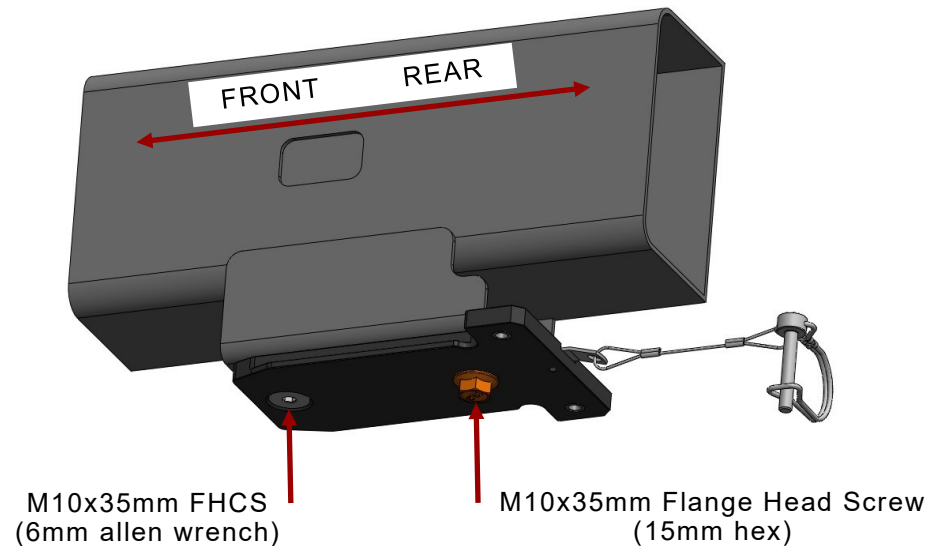
1



2



3



**STEPS**

Bulkhead Assembly

1a) Remove the nut and washer from the 3/8fnpt-1/4"ptc air fitting. Discard the washer.

1b) Apply the provided PTFE thread sealant to the Quick Connect fitting and mate it with the 3/8fnpt-1/4"ptc air fitting.

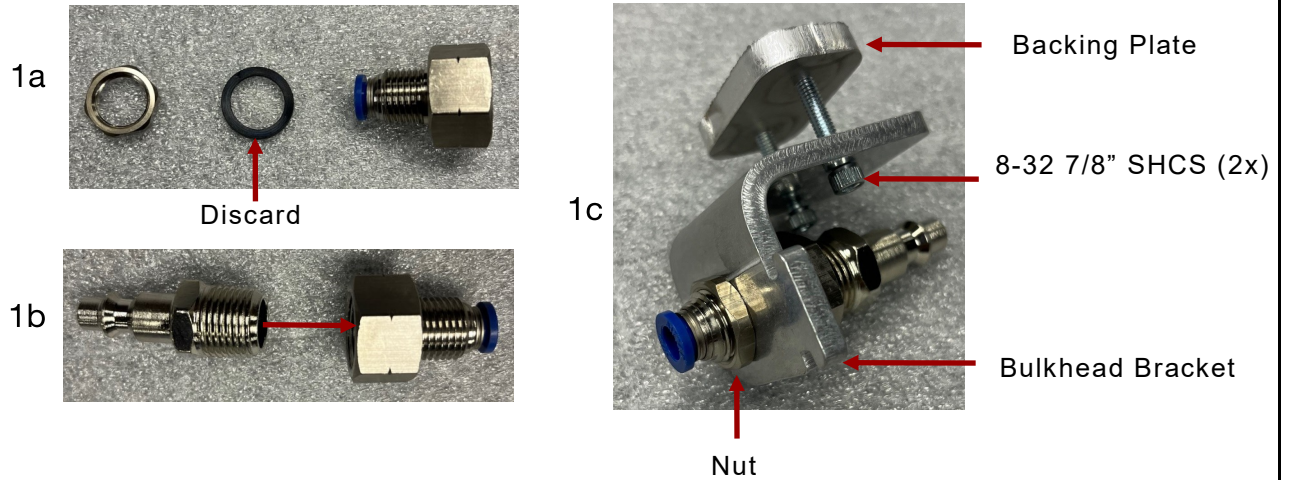
1c) Complete the assembly as shown. Install and tighten down the 3/8fnpt-1/4"ptc nut with a bit of Loctite. Do not allow Loctite to contact any plastic.

Manifold Assembly

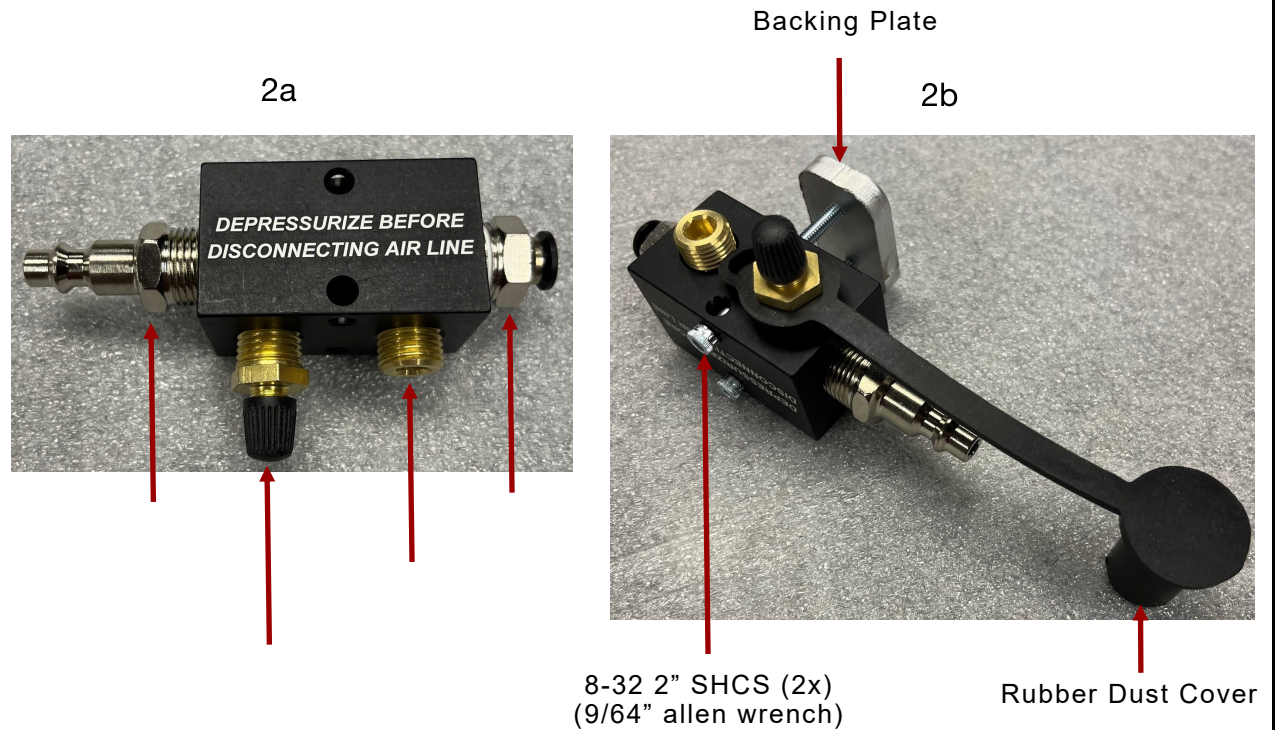
2a) Apply PTFE thread sealant to each fitting shown and install them into the manifold.

2b) Complete the Manifold assembly with the parts as shown.

**Bulkhead Assembly**



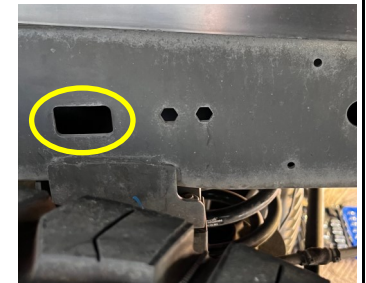
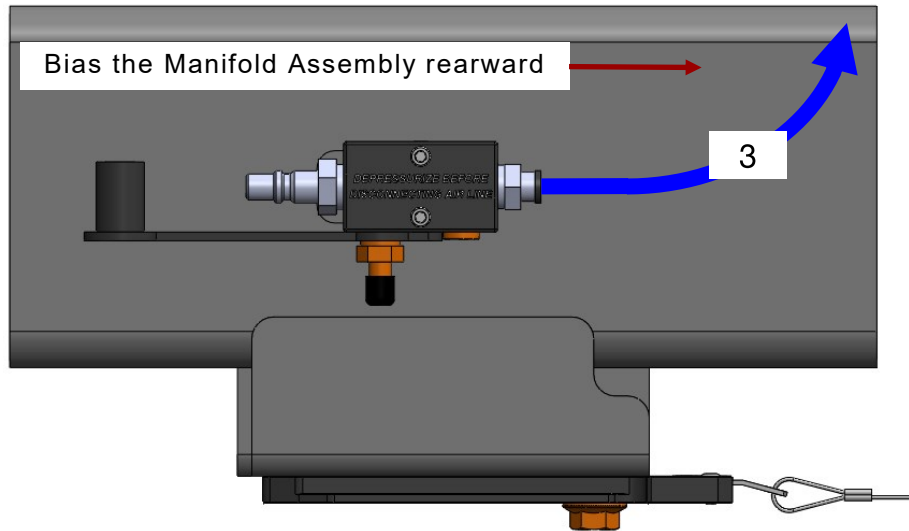
**Manifold Assembly**



## STEPS

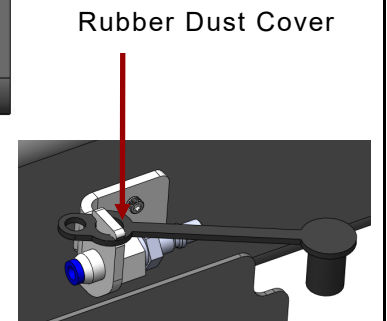
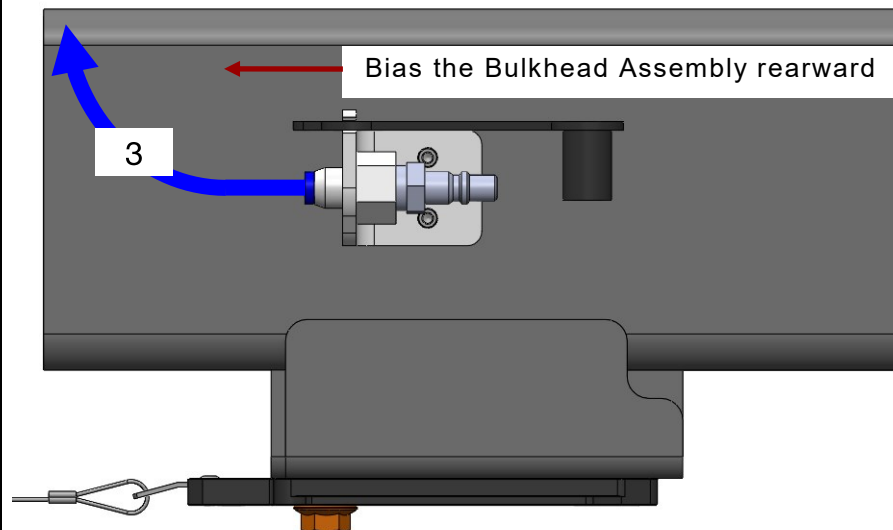
1. Install the Manifold Assembly by securing it to the rectangular cutout in the frame face (see Detail A). Tighten the 2x fasteners (9/64" allen wrench) to sandwich the assembly to the frame wall.
2. Install the Bulkhead Assembly in the same manner. Install a Rubber Dust Cover over the T-barb of the Bulkhead Bracket.
3. Run the provided 1/4" air line to unite the Manifold and Bulkhead Assemblies. It is denoted by the blue colored lines. Flush cut (do not kink) the hose ends and fully insert into the push to connect fittings where shown. Route, secure and shield the hose as required with the split loom shielding and zip ties.

### 1 Driver Side



Detail A

### 2 Passenger Side



## STEPS

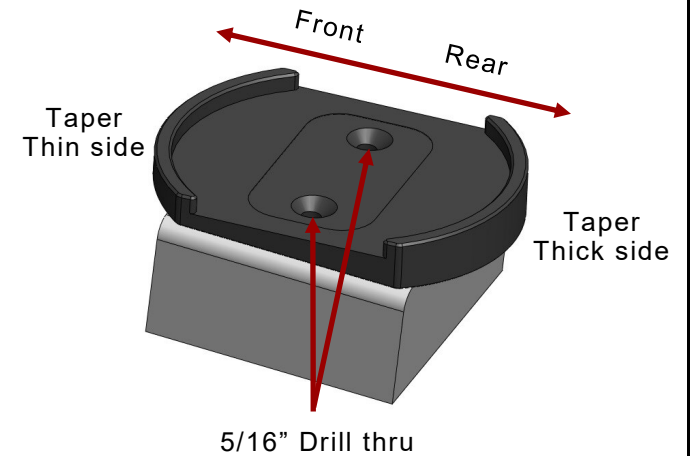
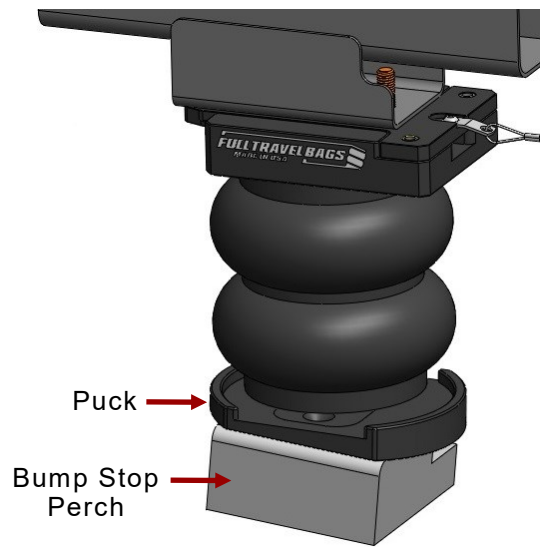
1. Install the Airbag Assembly. Place the Puck on the bump stop perch of the axle with the thin taper side toward the front. Center the Puck underneath the airbag. Mark the location of the Puck and remove the Airbag Assembly. Mark/punch the location of the 2x countersunk holes as required and drill 5/16" holes through the bump stop perch.
2. Secure the Puck with the indicated M8x30mm FHCSs and Flanged Lock Nuts. Use the box opening of a 13mm combo wrench to hold the nut as you pass it through the hole in the perch.

### NOTE A

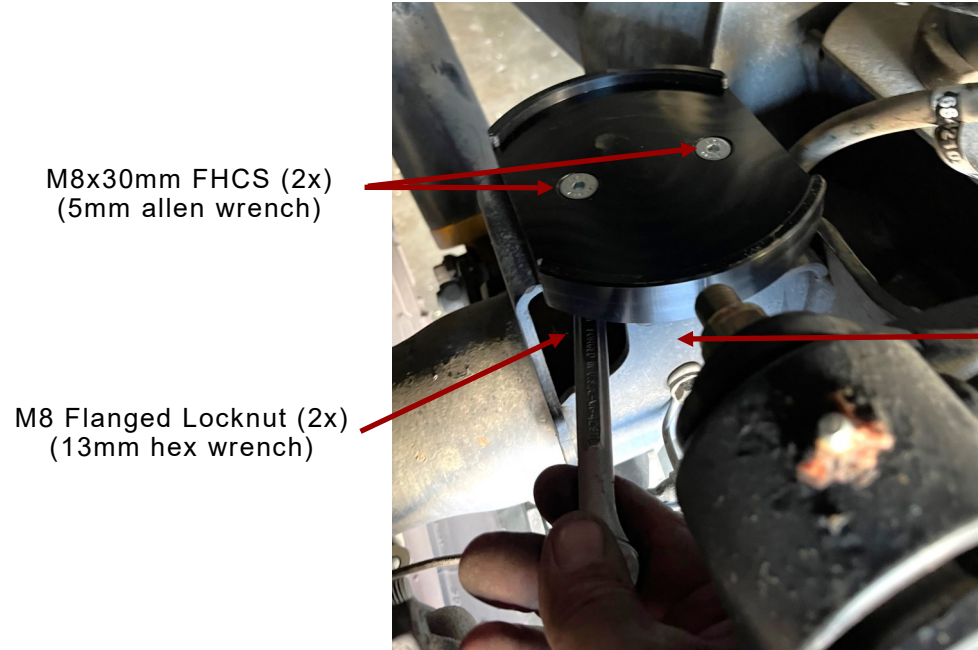
If the perch does not have this access hole, a 7/8" - 1" diameter hole must be drilled in the upper center of the rear face of the perch. This should be adequate to allow passage of the wrench. Use either a stepped drill bit, hole saw bit, etc.

Same process for Passenger and Driver sides.

1



2



M8x30mm FHCS (2x)  
(5mm allen wrench)

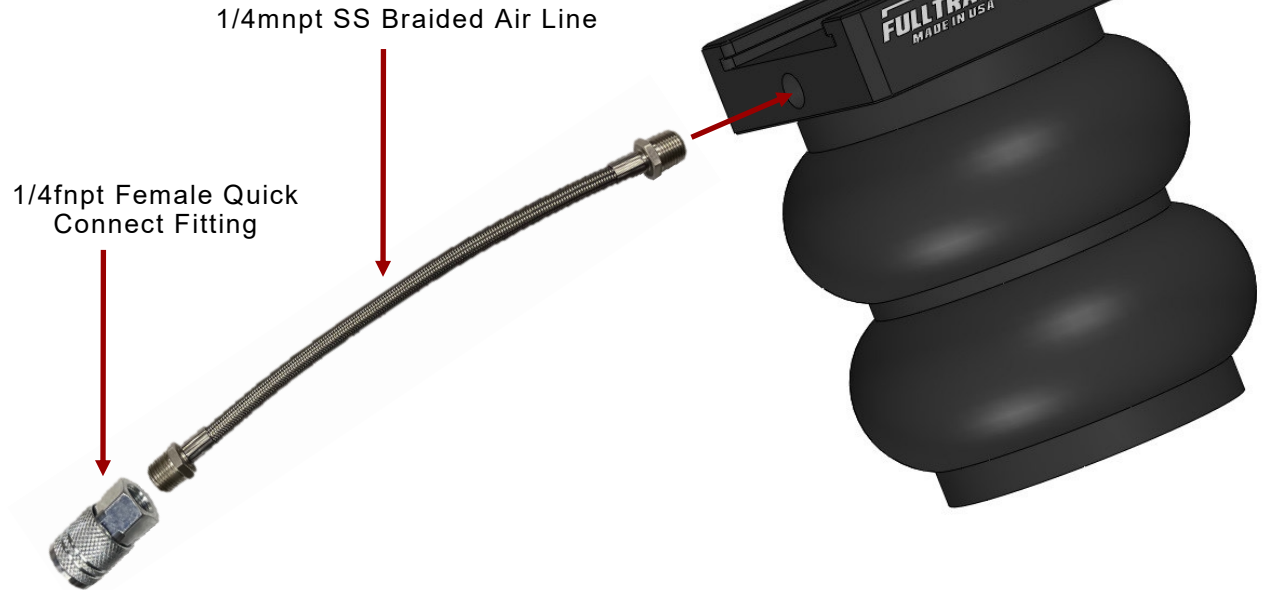
M8 Flanged Locknut (2x)  
(13mm hex wrench)

Note A

## STEPS

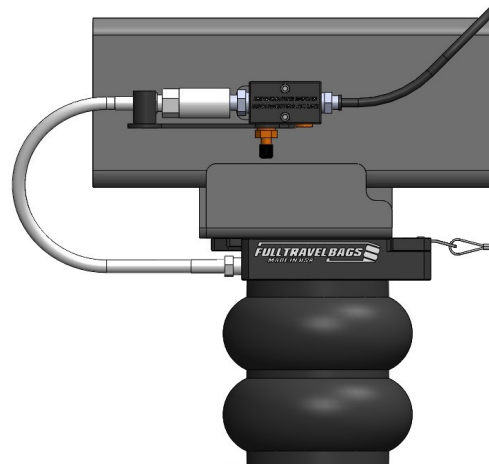
1. Apply PTFE thread sealant to each end of the 1/4mnpt SS Braided Air Line. Mate up the components as shown.
2. These are the two usable configurations. Be sure to always employ either the Airbag Application OR the Bump Application. Refer to "Essential Tips" on page 2 for proper operation of this kit in conjunction with an on-board air compressor system.

1

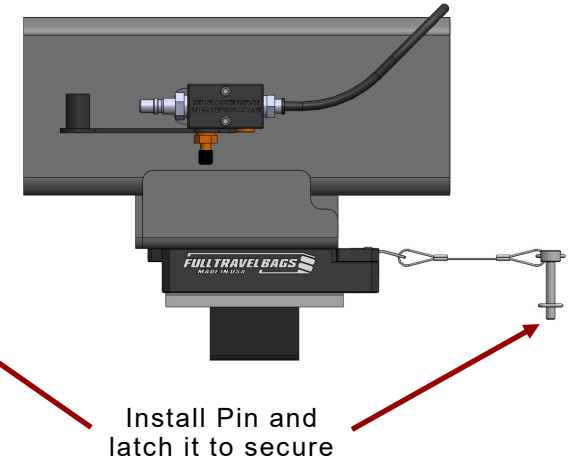


2

Airbag Application  
(Driver side)



Bump Application  
(Driver Side)



### \*Important for user of this Airbag System\*

DO NOT disconnect the quick connect air fittings when the system is pressurized. This could result in damage to persons or property as the airbags rapidly deflate. Instead, fully depressurize the system and then proceed to disconnect the quick connect fittings.