



INSTALLATION MANUAL

P-5336 2-Corner Control Module



Engineered to Ride, Built to Last®

CONGRATULATIONS ON YOUR PURCHASE OF AN ARNOTT® SUSPENSION PRODUCT

WE AT ARNOTT LLC ARE PROUD TO OFFER A HIGH QUALITY PRODUCT WITH ALL THE TECHNICAL SUPPORT YOU NEED. THANK YOU FOR YOUR CONFIDENCE IN US AND OUR PRODUCT.

Proper installation is essential to experience and appreciate the benefits of this system. Please take a moment to review these installation instructions before you begin to install these components on your vehicle. The removal and installation of air suspension products should only be performed by a fully qualified and certified automotive professional.

It is equally important to be aware of all necessary safety measures while installing your new Air Suspension System. This includes proper lifting and immobilizing of the vehicle and isolation of any stored energy to prevent personal injury or property damage.

GENERAL INFORMATION

Reading this manual signifies your agreement to the terms of the general release, waiver of liability, and hold harmless agreement, the full text of which is available at www.arnottinc.com and www.arnotteurope.com.



WARNING:

The air suspension system is under pressure (up to 10 bar, or 150 lbf/in). Verify pressure has been relieved and disconnect power to the air suspension system prior to disassembly. Do not allow dirt or grease to enter the system. Always wear standard hand, ear, and eye protection when servicing the air suspension system.

- Not to be stored below 5°F (-15°C) and above 122°F (50°C).
- Avoid damage to air lines and cables.
- Removal and installation is only to be performed by fully qualified personnel.
- Use car manufacturer’s diagnostic software.

CAUTION:

Damage to the vehicle and air suspension system can be incurred if work is carried out in a manner other than specified in the instructions or in a different sequence.

To avoid the possibility of short circuits while working with electric components consult your owner’s manual on how to disconnect your battery.

Consult your vehicle owner’s manual, service manual, or car dealer for the correct jacking points on your vehicle and for additional care, safety and maintenance instructions. Under no circumstances should any work be completed underneath the vehicle if it is not adequately supported, as serious injuries and death can occur.

For vehicles with a “Closed Air Supply System,” replacement of components requires proper adherence to procedures set forth within OE servicing literature. Failure to comply with the OE prescribed procedures can result in component damage and/or failure.

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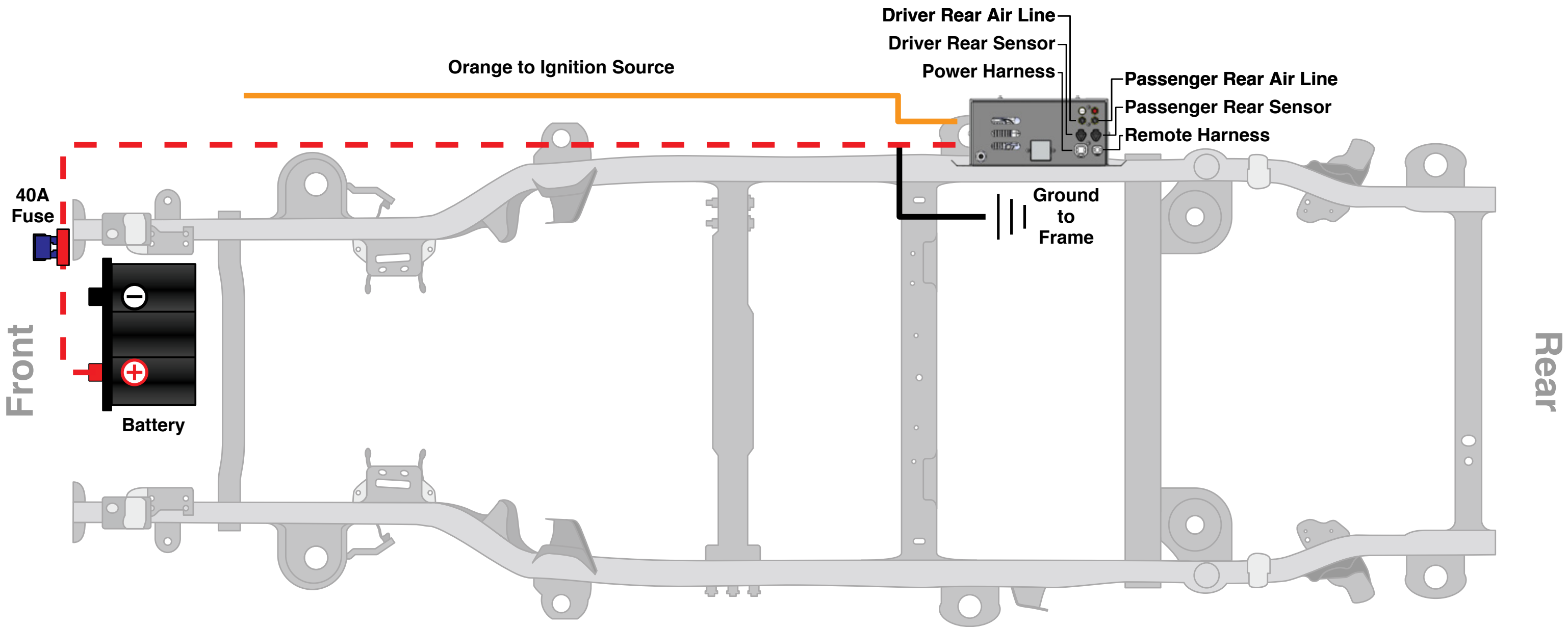
INCLUDED PARTS

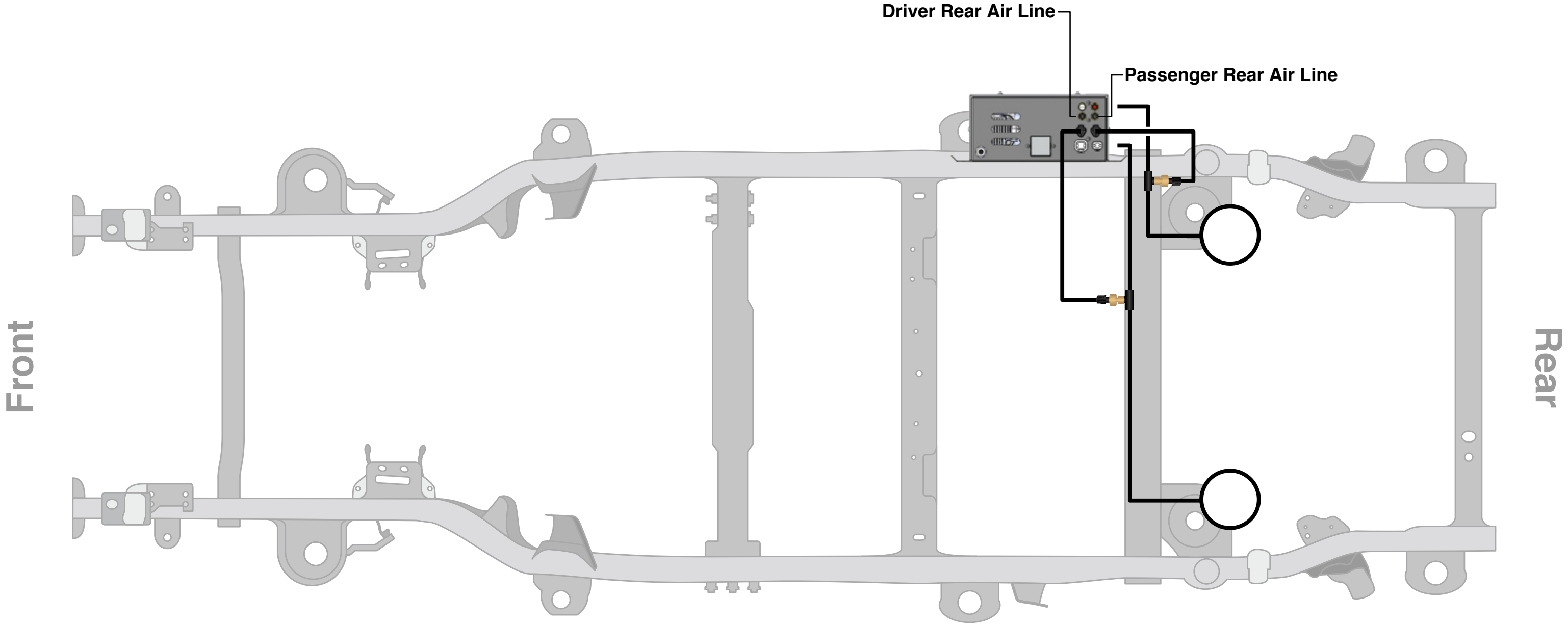
DESCRIPTION	PART #
2 CORNER CONTROLLER	20-17013
LOAD MANAGER INSTALLATION KIT	21-17522
1/4" DOT AIR LINE	29-18861
3/8" DOT AIR LINE	29-16878
2 CORNER PRESSURE TEE KIT	20-21024
2 CORNER TPAD ASSEMBLY	20-21037

REQUIRED TOOLS

SAE & SAE HEX KEY SOCKETS/WRENCHES (5/32", 7/32" & 5/16" HEX KEY SOCKETS, 7/16", 1/2", 9/16", 3/4", 13/16", 7/8" & 1-1/8")
SAFETY GLASSES
WHEEL CHOCK
JACK STANDS
FLOOR JACK
WIRE BRUSH
WIRE BARREL CRIMPER
WIRE STRIPPER
HEAT GUN
MEASURING TAPE

WIRING





MOUNTING

- 1. The module can be mounted via the supplied U-bolts and flat brackets, or with self-tapping screws.
- 2. Ideal mounting is to the side frame rail using U-bolts with all connections facing up. (Figures 1, 2, 3)



FIGURE 1



FIGURE 2



FIGURE 3

WIRING

POWER WIRING

- 1. Locate the Power wire harness, plug it into the Module in the correct position. Route the red wire to the vicinity of the positive terminal of the battery, and the orange wire to a source that is on when the vehicle ignition is on. Look for a point on the frame to connect the black ground wire. (Figure 4)



FIGURE 4

- 2. Crimp a ring terminal to the black wire and ground to the frame. **Ensure less than 1 ohm of ground resistance.** (Figures 5, 6)



FIGURE 5



FIGURE 6

3. Cut the Red Power cable to length, and using one of the supplied butt connectors, attach it to the fuse holder. (Figures 7, 8)



FIGURE 7

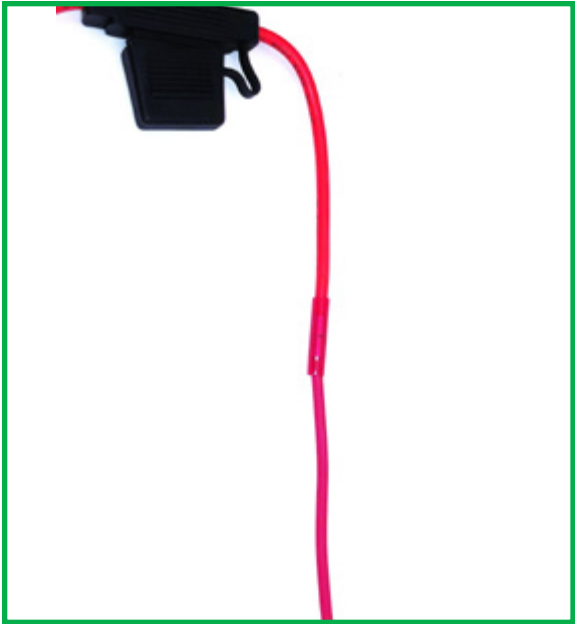


FIGURE 8

4. Crimp a ring terminal to the opposite side of the fuse holder and connect it to the battery. **Do not insert 40 AMP fuse yet.** (Figure 9)



FIGURE 9

5. Connect the orange wire to an ignition source. A fuse tap is provided to aid in connection. (Figure 10)



FIGURE 10

REMOTE WIRING

6. Locate the remote and wire harness. (Figures 11, 12)



FIGURE 11



FIGURE 12

7. Connect the harness to the module and route the cable into the cab at the desired location.

8. Connect the harness mini USB to the remote. (Figure 13)



FIGURE 13

SENSOR WIRING

9. Pressure sensors will be connected to the lines going to the air springs. The sensor harnesses connect to the sensors. (Figure 14)



FIGURE 14

10. Connect the other end of the sensor harness to the controller as shown. (Figure 15)

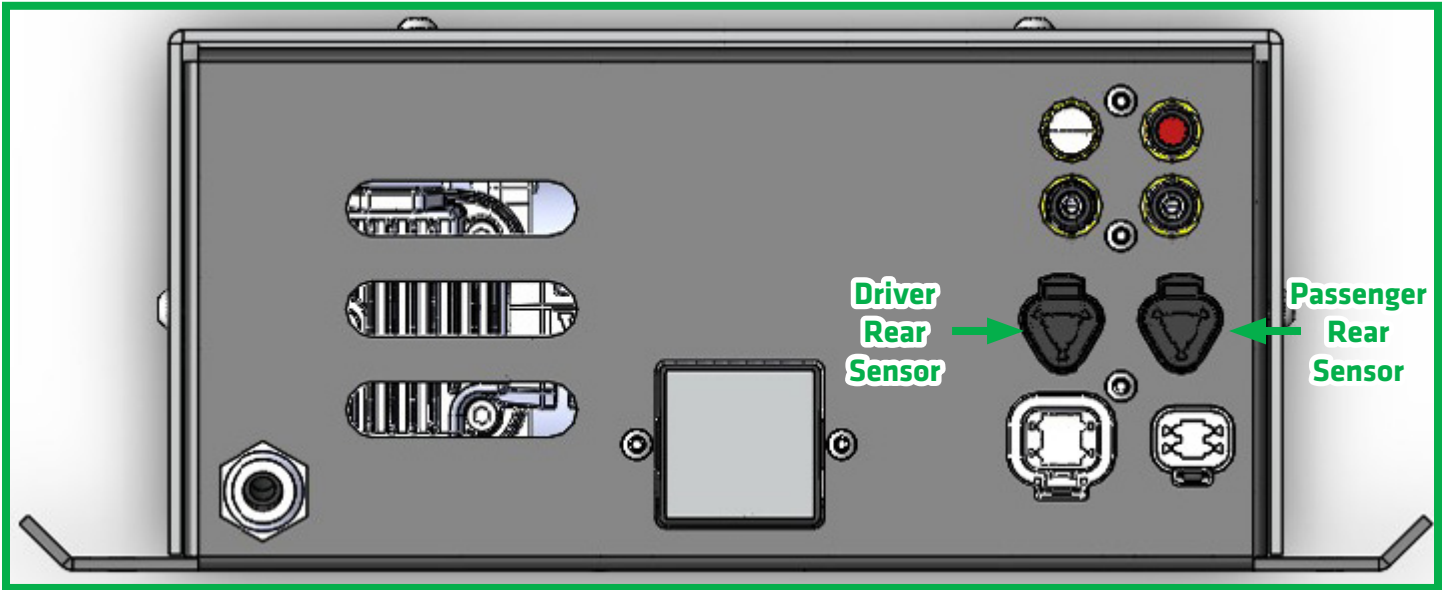


FIGURE 15

PLUMBING

AIR SPRINGS

1. Each air spring will have its own connection. Use the 1/4" air line to plumb as shown. (Figure 16)

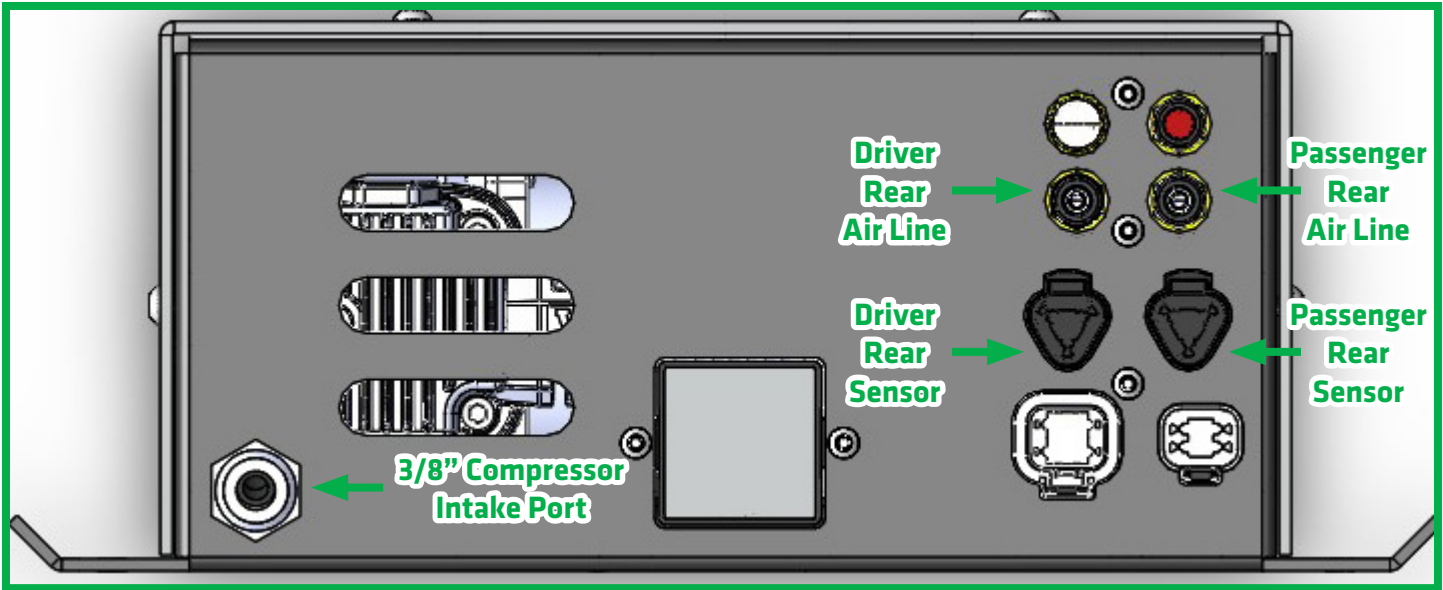


FIGURE 16

COMPRESSOR INTAKE

- 2. The Module has a 3/8" intake port. Locate the intake filter, and mount it high in the vehicle, such that it will not suck water during operation. (Figure 17)



FIGURE 17

- 3. Using the 3/8" air line, connect the intake filter to the intake port on the module. (Figure 18)

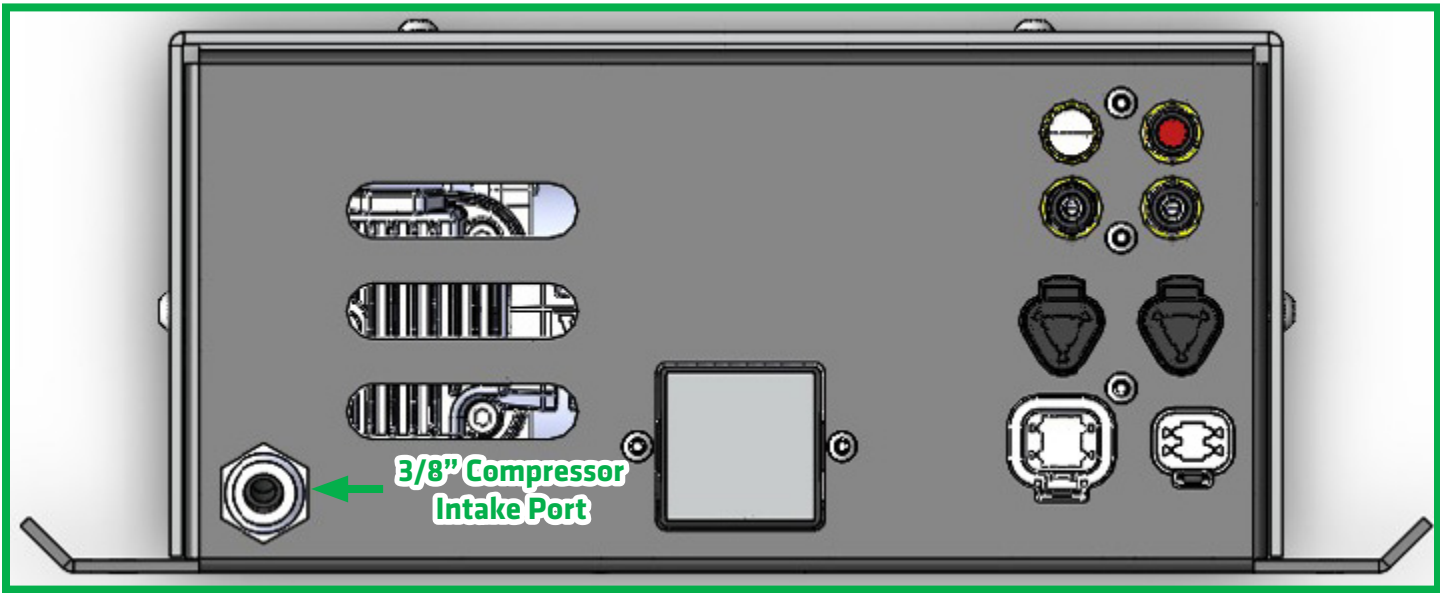


FIGURE 18

BEFORE LOWERING



WARNING:

Never lower vehicle to the ground without air springs being fully inflated. Start vehicle and inflate with TouchPad Controller.

- 1. Inflate rear springs using TouchPad Controller. Ignition must be on. Inflate by tapping the double up arrow. (Figure 19)



FIGURE 19

FINAL CLEARANCE CHECK

CHECK FOR SYSTEM LEAKS

With all four wheels on the ground and the air springs inflated, check for system leaks on all pneumatic connections to the air springs.

FINAL NOTES

After installation is complete, double check that all nuts & bolts are tight. Refer to the following chart for proper torque specifications.

With vehicle placed on ground, inspect , suspension, brake lines, front & rear drive lines, fuel lines & wiring harnesses for proper operation, tightness & adequate clearance.

After first 100 miles, check all hardware for proper torque & periodically thereafter.

TORQUE SPECIFICATIONS					
INCH SYSTEM			METRIC SYSTEM		
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 8.8	Class 10.9
5/16	180 in-lbs	240 in-lbs	6MM	60 in-lbs	108 in-lbs
3/8	30 ft-lbs	35 ft-lbs	8MM	216 in-lbs	23 ft-lbs
7/16	45 ft-lbs	60 ft-lbs	10MM	32 ft-lbs	45 ft-lbs
1/2	65 ft-lbs	90 ft-lbs	12MM	55 ft-lbs	75 ft-lbs
9/16	95 ft-lbs	130 ft-lbs	14MM	85 ft-lbs	120 ft-lbs
5/8	135 ft-lbs	175 ft-lbs	16MM	130 ft-lbs	165 ft-lbs
3/4	185 ft-lbs	280 ft-lbs	18MM	170 ft-lbs	240 ft-lbs

THE ABOVE SPECIFICATIONS ARE NOT TO BE USED WHEN THE BOLT IS BEING INSTALLED WITH A BUSHING.

OPERATION

MANUAL CONTROL

In order to save a preset, you must first manually adjust each Air Spring to the position that you wish to save using the procedure outlined below. This procedure should be done with the vehicle sitting on flat, level ground. Once you have achieved the desired height on all corners, see “Saving A New Ride Height” on the following page.



To Adjust Rear Air Springs Together

- 1. Press the Combination UP “” Button to FILL both Air Springs together.
- 2. Press the Combination DOWN “” Button to EMPTY both Air Springs together.



To Adjust Left Rear Air Spring

- 1. Press the Left Rear UP “” Button to FILL the Air Spring.
- 2. Press the Left Rear DOWN “” Button to EMPTY the Air Spring.

To Adjust Right Rear Air Spring

- 1. Press the Right Rear UP “” Button to FILL the Air Spring.
- 2. Press the Right Rear DOWN “” Button to EMPTY the Air Spring.

SAVING NEW PRESET

Once you have manually adjusted each Air Spring to the position that you wish to save, hold the Preset Button #1, #2, or #3 (the Preset # that you want the current height or pressure (based on selected control method) saved as), for 3 seconds until the Position Indicator flashes, then becomes solid.

NOTE: This process can be repeated as often as desired.



1. Resaving Preset #3

Press & hold the Preset #3 “” Button for 3 seconds. The Preset #3 “” Indicator Light will flash, then become solid when saving is complete.



2. Resaving Preset #2 (Ride Height)

Press & hold the Preset #2 “2” Button for 3 seconds.

The Preset #2 “2” Indicator Light will flash, then become solid when saving is complete.



3. Resaving Preset #1

Press & hold the Preset #1 “1” Button for 3 seconds.

The Preset #1 “1” Indicator Light will flash, then become solid when saving is complete.

CALLING A PRESET



1. Preset #3 (Usually Raised/Extra Clearance)

While driving or parked, you may choose to **press the Preset #3 “3” Button momentarily.**

The Preset #3 “3” Indicator Light will flash while adjusting to Position #3 and become solid once achieved.



2. Preset #2 (Ride Height)

While driving or parked, you may choose to **press the Preset #2 “2” Button momentarily.**

The Preset #2 “2” Indicator Light will flash while adjusting to Preset #2 (Ride Height) and become solid once achieved.



3. Preset #1 (Usually Low/Cruise)

While driving or parked, you may choose to **press the Preset #1 “1” Button momentarily.**

The Preset #1 “1” Indicator Light will flash while adjusting to Preset #1 and become solid once achieved.

MENU

To check or change any of the programmed settings during operation, press the Program “” Button momentarily to initiate Programming Mode. WHITE indicates “ON” & RED indicates “OFF” for each of the features listed below:

NOTE: Program Mode will exit after 5 seconds or can be exited by pressing the Program Button again and your changes will be saved.

Setting Indication	White	Red	RideMonitor™ Mode Accuracy Level Setting	
Height Based* ON/OFF *Requires Height Sensors	ON: 	OFF: 	Active Adjustment Accuracy #3. (Most Accurate, Most Adjustments)	
Tank Pressure Mode: 200 psi = White only 150 psi = White & Red alternating 0 psi = Red only			Active Adjustment Accuracy #2. (Factory)	
	200	150 0	Active Adjustment Accuracy #1. (Least Accurate, Fewest Adjustments)	

OPTIONAL TANK

1. The module included in this kit has an built-in accessory port which can be utilized to fill an optional external tank. It has a 1/4" PTC (push-to-connect) fitting. (Figure 20)

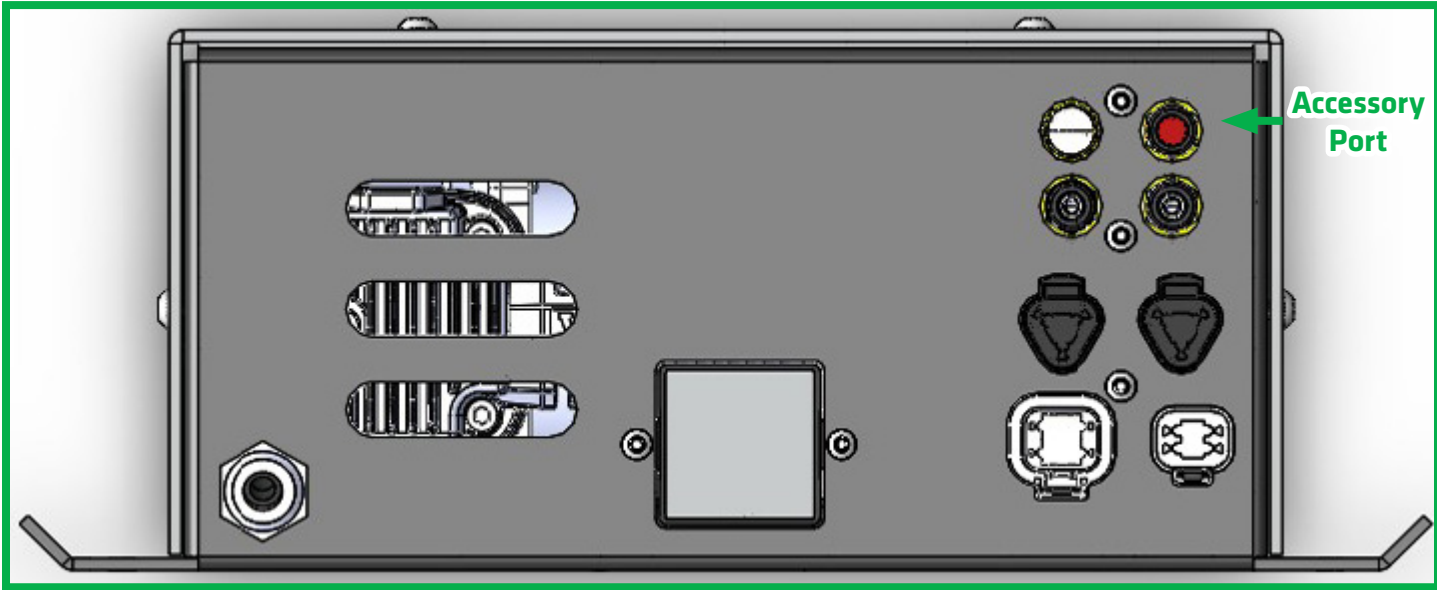


FIGURE 20

2. The controller has a tank pressure mode. For best results, it is best to set it to have the compressor turn on at 130 psi and shut off at 150 psi. Once set, you will have a significant volume of air available to you at all times. (Figure 21)

Setting Indication	White		Red
Tank Pressure Mode: 200 psi = White only 150 psi = White & Red alternating 0 psi = Red only			
	200	150	0

FIGURE 21

3. AccuAir offers two sizes of ENDO-T tanks: 3-Gallon (AA-3709) and 5-Gallon (AA-3708). See Figure 22 for dimensions and port sizes/locations.

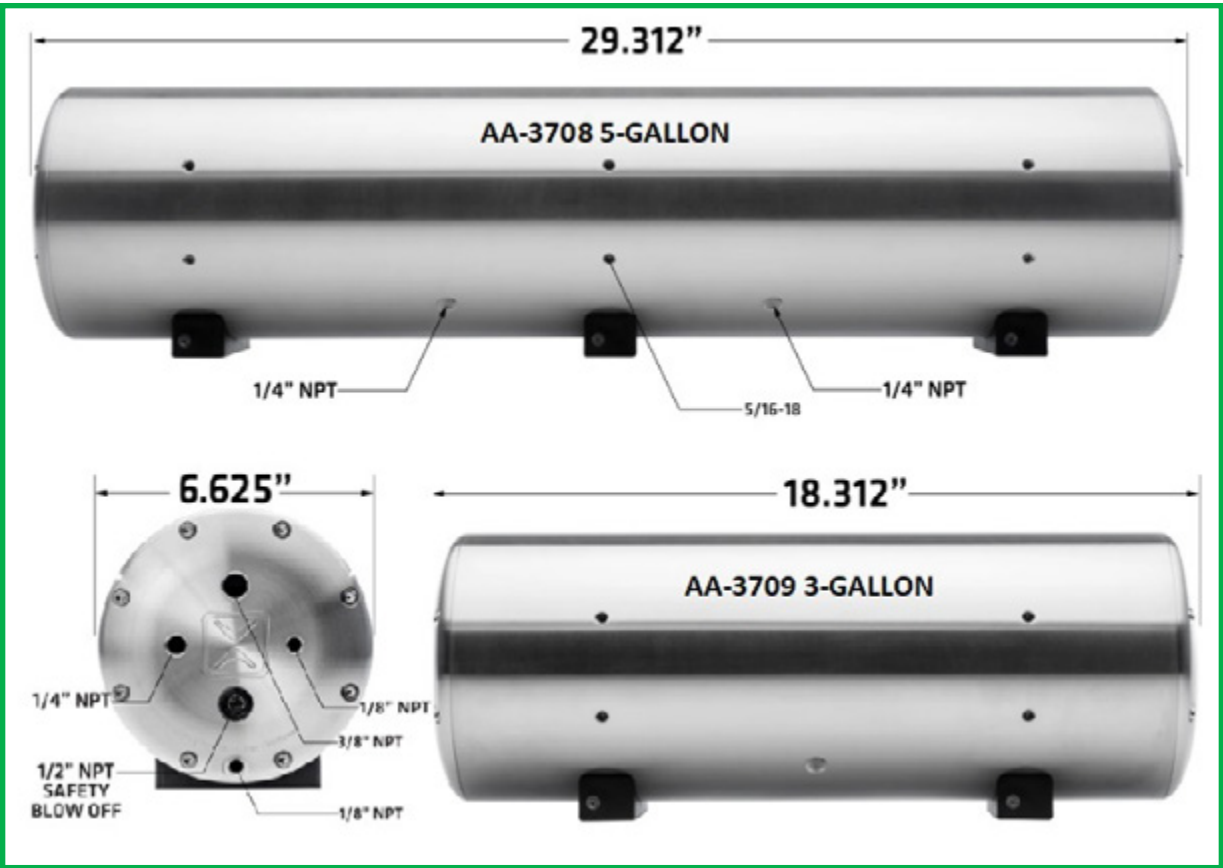


FIGURE 22

4. Please note that a 200 psi safety/blow-off valve similar to Figure 23 should be added to the lowest 1/8" NPT port on the end cap of the tank. This will allow condensation, a normal byproduct of compressed air systems, to be drained. An in-line moisture trap can also be utilized.



FIGURE 23

Arnott™

Suspension Products

Arnott US Business Office:

www.arnottinc.com

100 Sea Ray Drive
Merritt Island, FL 32953

Call: 800.251.8993

321.868.3016

Fax: 321.868.3703

Email: techassistance@arnottinc.com

Arnott Europe Business Office:

www.arnotteurope.com

Docterskampstraat 1E/1F, 3
5222 AM 's-Hertogenbosch (NL)

NL Phone: +31 73 7850 580

DE Phone: +31 85 2087 438

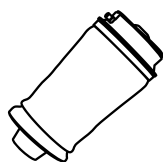
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BE Phone: +32 258 846 90

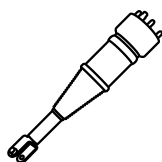
ES Phone: +34 91 901 10 56

FR Phone: +32 78 48 46 93

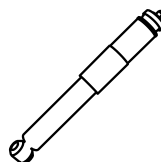
Email: info@arnotteurope.com



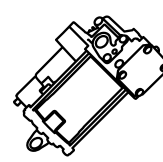
Air Springs



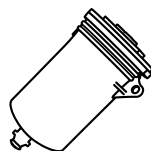
Struts



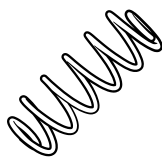
Shocks



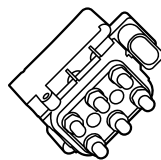
Compressors



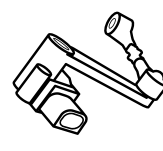
Dryers



Coil Spring
Conversion Kits



Valve Blocks



Ride Height
Sensors