

**ACCUAIR**  
SUSPENSION



AA-3929

# 2-CORNER CONTROL MODULE

INSTALLATION GUIDE





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## INTRODUCTION

Elevate your vehicle's performance and customization with the AccuAir 2-Corner Module, an advanced solution offering seamless control over your load leveling system. Experience precision adjustments that allow you to tailor your ride to perfection.

This comprehensive system includes a compressor, manifold, controller, and remote, ensuring a cohesive and integrated air management setup. Whether you prioritize optimal handling, ride quality, or aesthetic preferences, the AccuAir 2-Corner Module delivers on all fronts.

Enhance your versatility further with the module's built-in accessory port, facilitating a direct connection to an external tank for On-Board-Air (OBA). This addition ensures a convenient and reliable source of compressed air for various applications, from tire inflation to powering air tools.

Embrace innovation and control like never before with the AccuAir 2-Corner Module – where precision, adaptability, and convenience converge to redefine your on-road experience.

## A FEW WORDS ABOUT PRODUCT SAFETY

Before installation, please take a moment to review the following safety information and installation instructions. Important safety information is generally preceded by one of three signal words indicating the relative risk of injury.

The signal words mean:



**WARNING:**

A hazardous situation which, if not avoided, could result in death or serious injury. You **CAN** be **killed** or **seriously hurt** if you don't follow instructions.



**CAUTION:**

A hazardous situation which, if not avoided, could result in minor or moderate injury. You **CAN** be moderately **hurt** and may also suffer property damage if you do not follow instructions.



**NOTICE:**

Careful attention is required to this instruction or operation but does generally not relate to personal injury. Damage to your AccuAir® product or other property may result if you don't follow instructions.

**WHAT IS COVERED?:**

Subject to the terms, exclusions and limitations herein, Arnott, LLC. (“Warrantor” or “AccuAir”) exclusively warrants to the initial retail purchaser of a AccuAir 2-Corner Module kit that AccuAir will according to terms herein, repair defects in or replace AccuAir supplied components which, upon AccuAir inspection are determined to have defects in materials or workmanship existing as of the date of sale to the initial retail customer (hereafter “Customer”). This Limited Warranty is the sole and exclusive warranty made or authorized by Warrantor. This Limited Warranty is not a warranty or promise of any particular future performance.

The term of this Limited Warranty shall be three years as measured from the date of sale to initial Customer (the warranty “TERM”). Any claim under this limited warranty must be made within six months of the last day of the warranty TERM or will be forever waived. The duration of any implied warranty shall be limited to the three year term of express limited warranty above.

**WHAT IS NOT COVERED?:**

Your AccuAir **Limited Warranty does not cover:** (1) defect in a AccuAir 2-Corner Module kit or component causing or contributing to damage or defect, of any type whatsoever, to the vehicle it is installed upon or any electrical system or other vehicle system or component separately warranted or supplied by a manufacturer other than AccuAir, (2) damage to AccuAir components or your vehicle from altering or disabling any component of your vehicle or AccuAir product; additions, alterations, or other products or components not supplied by AccuAir, (3) installation or use contrary to professional installation recommendations, or other installation/use contrary to instructions and safety messaging included within your AccuAir product, (4) expected wear and tear on airbags and other components considering vehicle use, damage related to failure to adequately, install, inspect, maintain, adjust or service as recommended or required, damage resulting from improper suspension set-up, loading, accident, collision, vandalism, abuse, misuse, neglect, fire, flood, normal wear, defects in or degradation of finishes, reflecting corrosion, UV or other environmental influences (5), AccuAir, components used in competition, other off road use or events which may involve unforeseen vehicle components, suspension set ups, contact between vehicles, rocks or obstacles, other components of your vehicle and your AccuAir components, damage or degradation of performance, (6) *labor, lost time, lost use or opportunities, reasonable delays in remedies hereunder, other consequential, incidental, punitive or other damages or costs, including those incurred in removing, reinstalling or delivering your AccuAir component to AccuAir for inspection, repair or replacement.*

**OBTAINING WARRANTY & CUSTOMER SERVICE:**

**Register your AccuAir Purchase.** For questions or claims contact AccuAir Customer Service: **100 Sea Ray Drive, Merritt Island, FL 32953.** You will be asked to advise AccuAir in writing of your understanding of all defects and provide AccuAir an opportunity to repair or replace the affected component(s) subject to the terms of this Limited Warranty. Please have proof of purchase available.

**REMEDY LIMITED TO REPAIR/REPLACEMENT BY ACCUAIR. BINDING, SINGLE CLAIM ARBITRATION-VENUE:**

Upon Customer’s removal and delivery to AccuAir for inspection and AccuAir determination of a covered defect, *the exclusive remedy provided hereunder* shall at AccuAir’s option be repair or replacement of the defective AccuAir component(s). Your sole and exclusive remedy for breach of this Limited Warranty or any implied warranty imposed by law, is the reasonable costs for replacement parts necessary to correct the defect(s) upon which the finding of breach is based. *For separate, valuable consideration received; all claims arising from or related to purchase or use of AccuAir components shall exclusively be maintained as a separate action by each Customer applying Florida state law (without reference to treaties or conflict of law provisions) through binding arbitration before a neutral selected by Customer from the JAMS® panel closest to Merritt Island, Florida. To the extent permitted by law, each party shall bear its own costs and fees. Any claim to enforce an arbitration award or for other breach or damages under this Limited Warranty can only be brought in a court of competent jurisdiction closest to Brevard County, Florida.*

**OTHER EXCLUSIONS –LIMITATION OF DAMAGES - YOUR RIGHTS UNDER STATE LAW.**

No employee, other agent of AccuAir or authorized reseller may, amend or waive this written Limited Warranty or make additional representations or warranties regarding any AccuAir features, performance, workmanship or materials. AccuAir reserves the right to make changes in design and changes or improvements upon its products without imposing any obligation on itself to install or upgrade the same upon products previously manufactured.

By installation and use of your AccuAir product, and/or submitting a claim under this **Limited Warranty**, you acknowledge that you have received and understand all product instructions, warnings and this **Limited Warranty** and agree to be bound by all terms therein, reflecting the exclusive terms and remedies of the parties bargain.

*This **Limited Warranty** gives you specific rights. You may also have other rights that vary from state to state. For example, some states do not allow limitations of how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the limitations and exclusions herein may not apply to you. All other warranties are hereby disclaimed, except to the extent prohibited by applicable law.*



## INCLUDED PARTS

## REQUIRED TOOLS



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

### 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

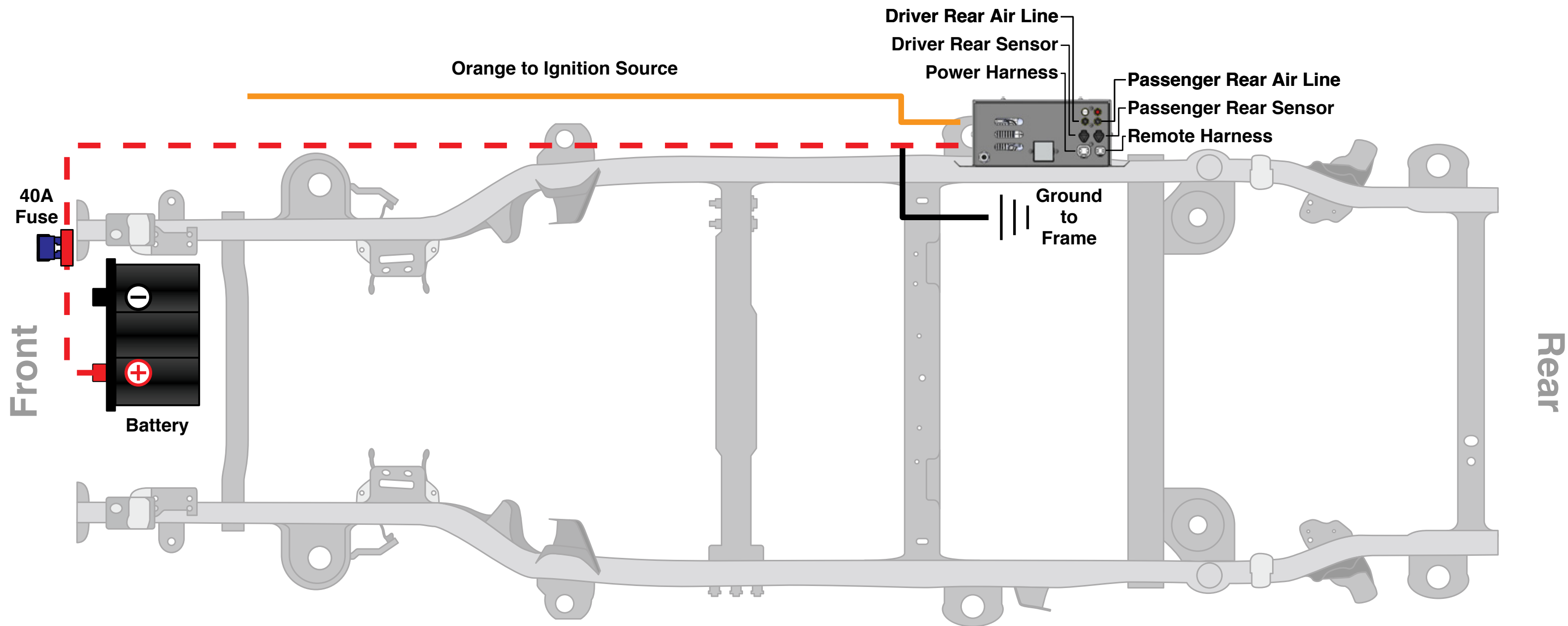
### Wire Brush

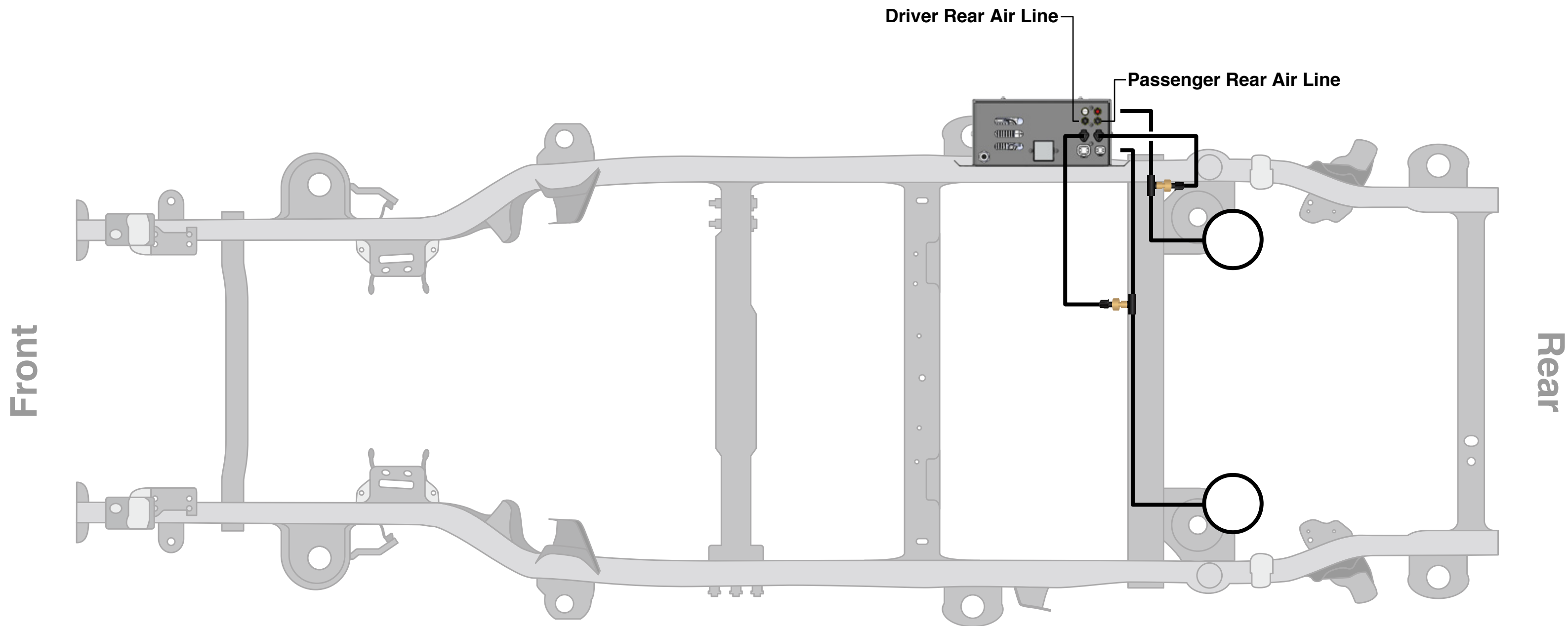
### Wire Barrel Crimper

### Wire Stripper

### Heat Gun

### Measuring Tape





Front

Rear



## 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)

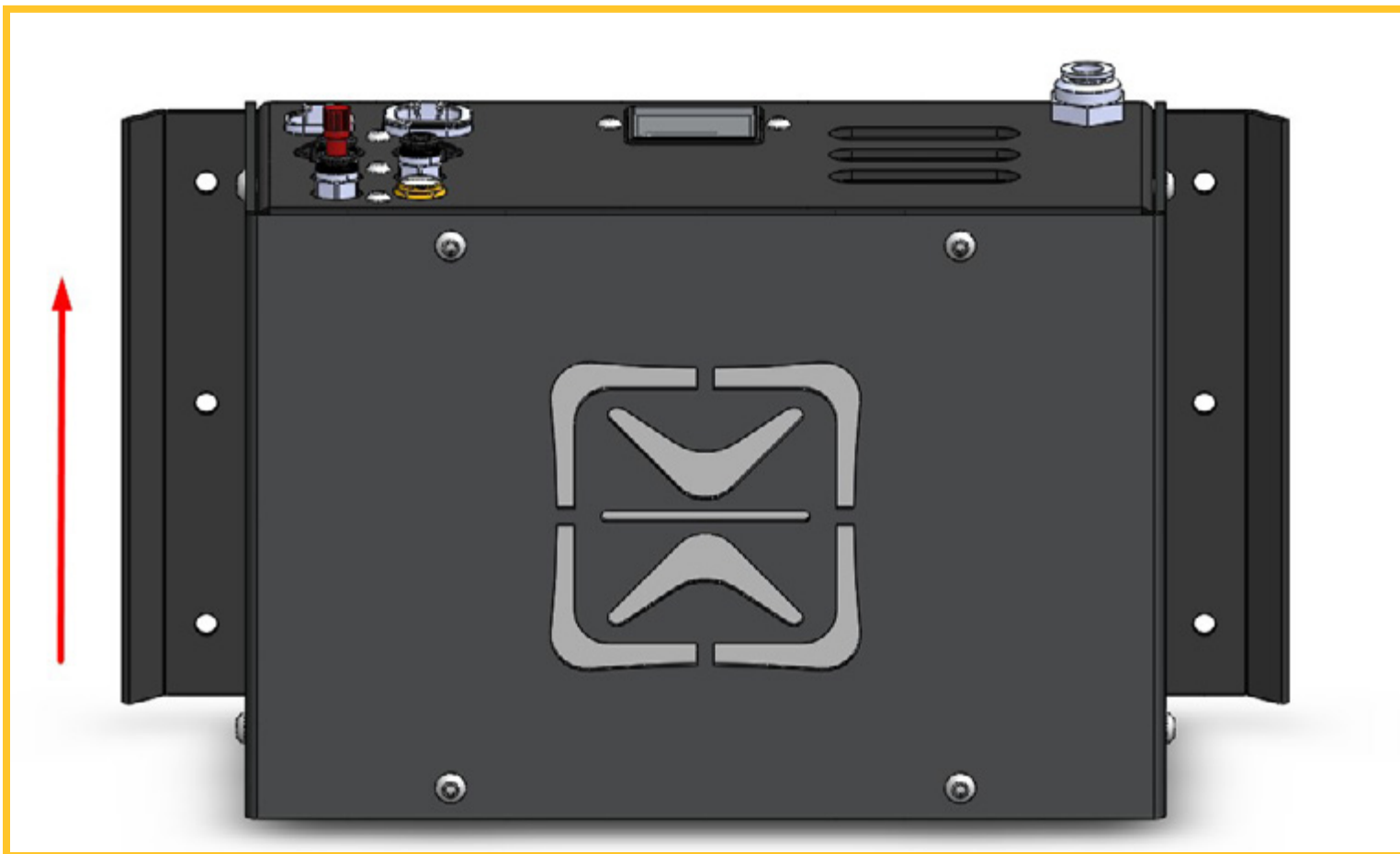


FIGURE 1



FIGURE 2



FIGURE 3





## 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)

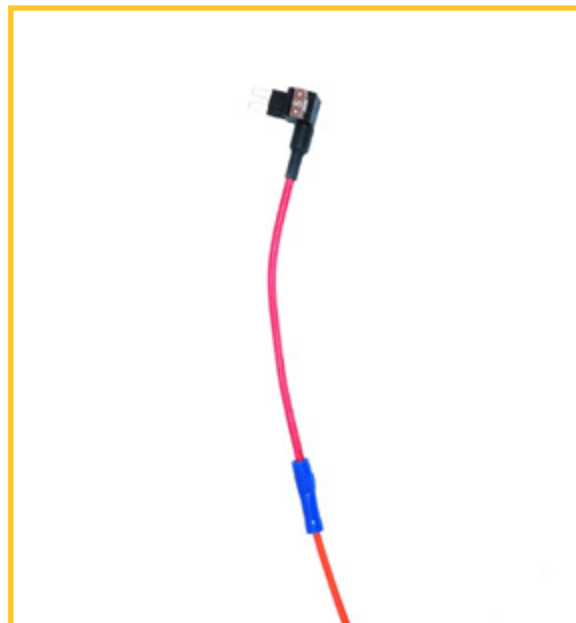


FIGURE 10

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

## REMOTE WIRING

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



FIGURE 11



FIGURE 12



**SENSOR WIRING**

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



FIGURE 14

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

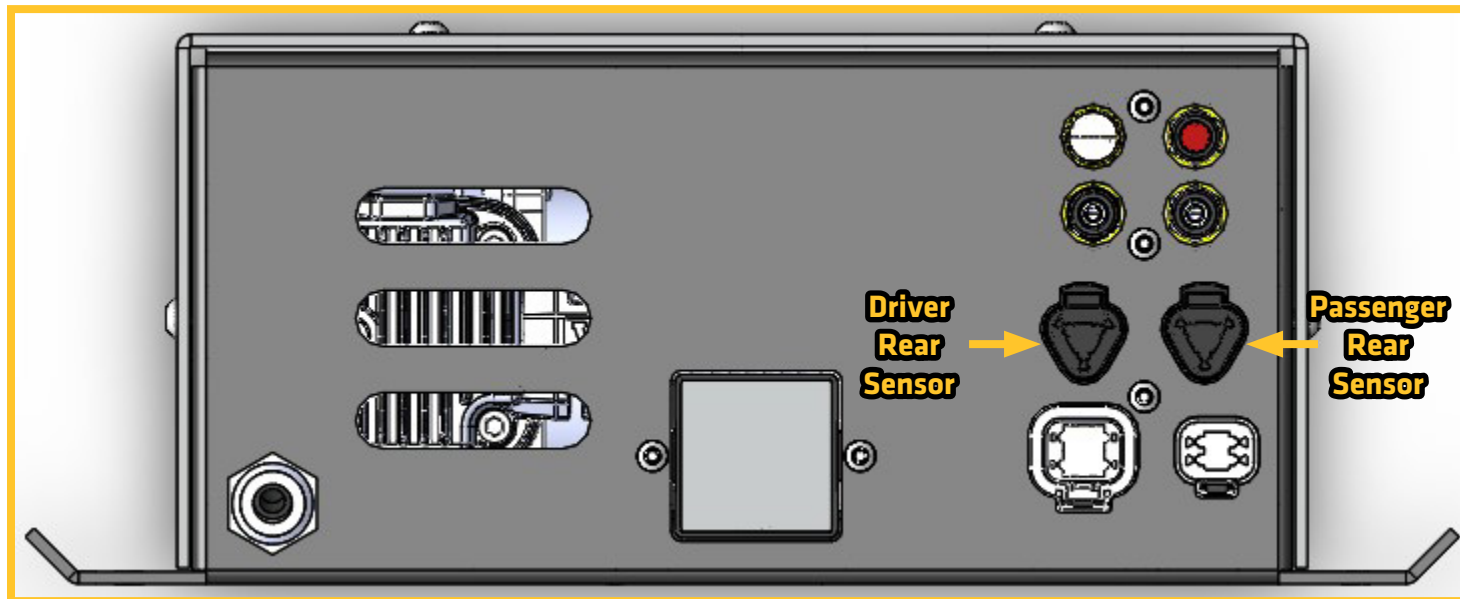


FIGURE 15

**AIR SPRINGS**

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

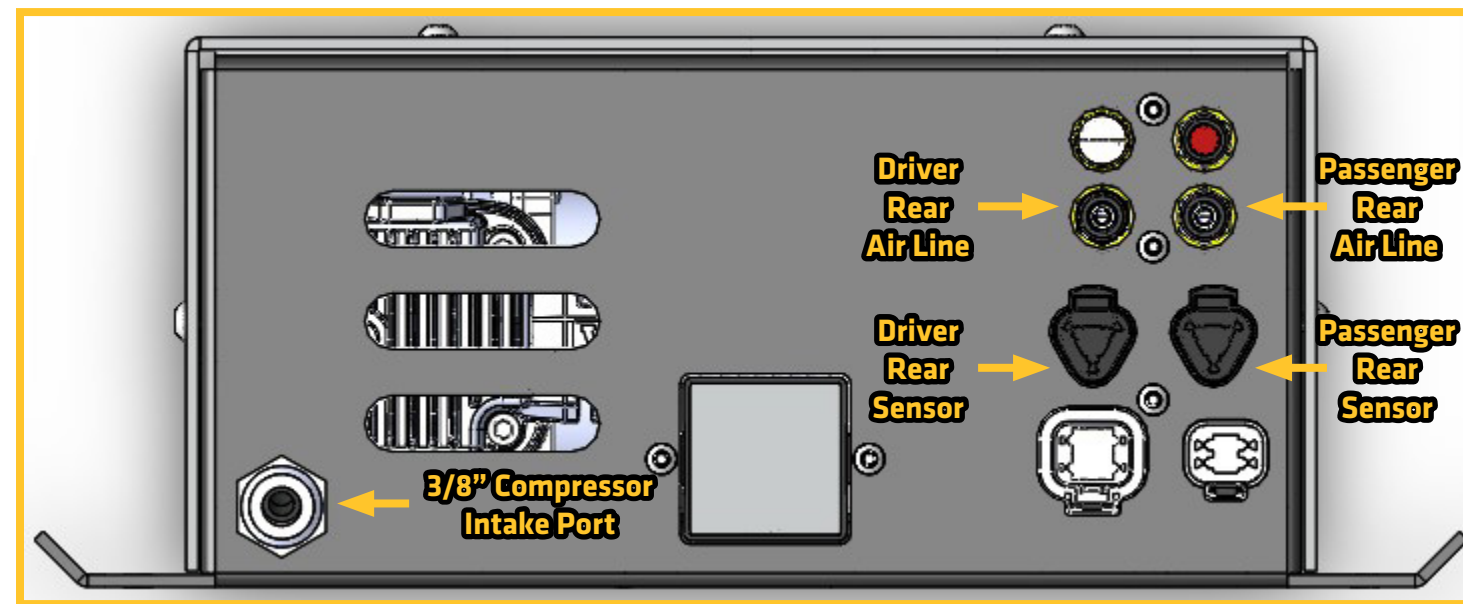


FIGURE 16

**COMPRESSOR INTAKE**

- 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" airline, connect the intake filter to the intake port on the module. (Figure 18)

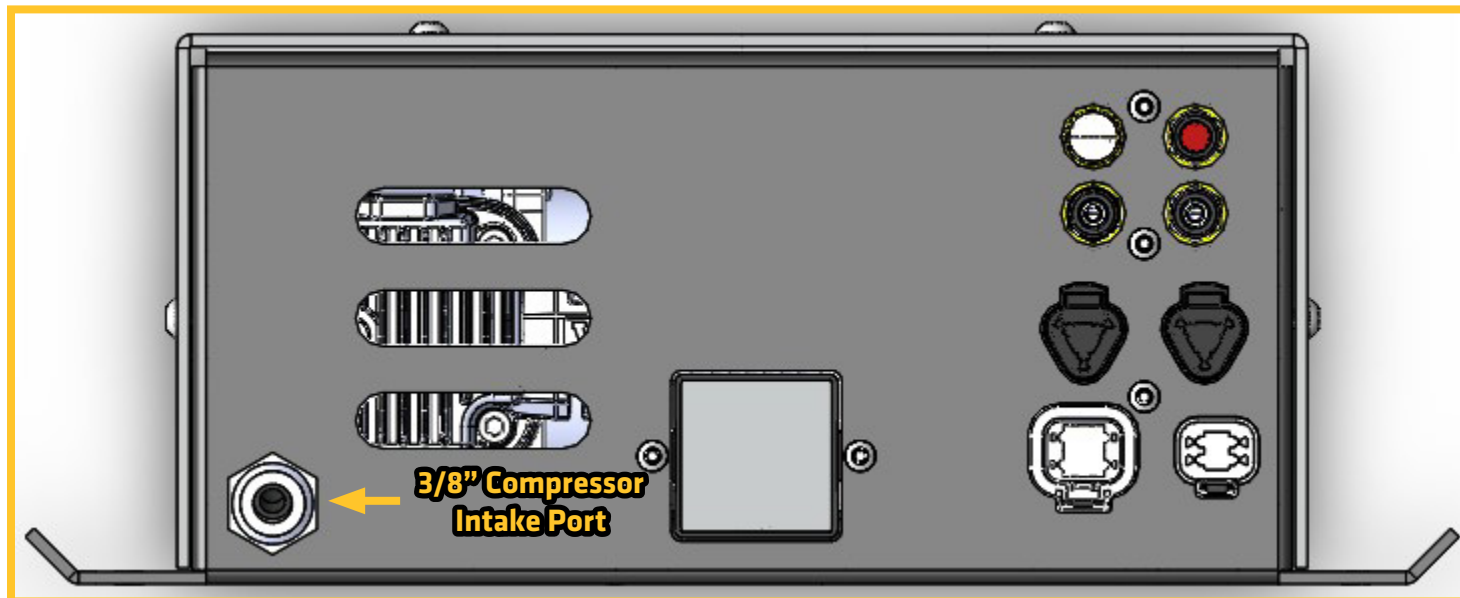


FIGURE 18



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



## 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.**

## 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 “3” Button for 3 seconds.**

The Preset #3 “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: 	3
Tank Pressure Mode: 200 psi = White only 150 psi = White & Red alternating 0 psi = Red only	200	150	2
		0	1

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)

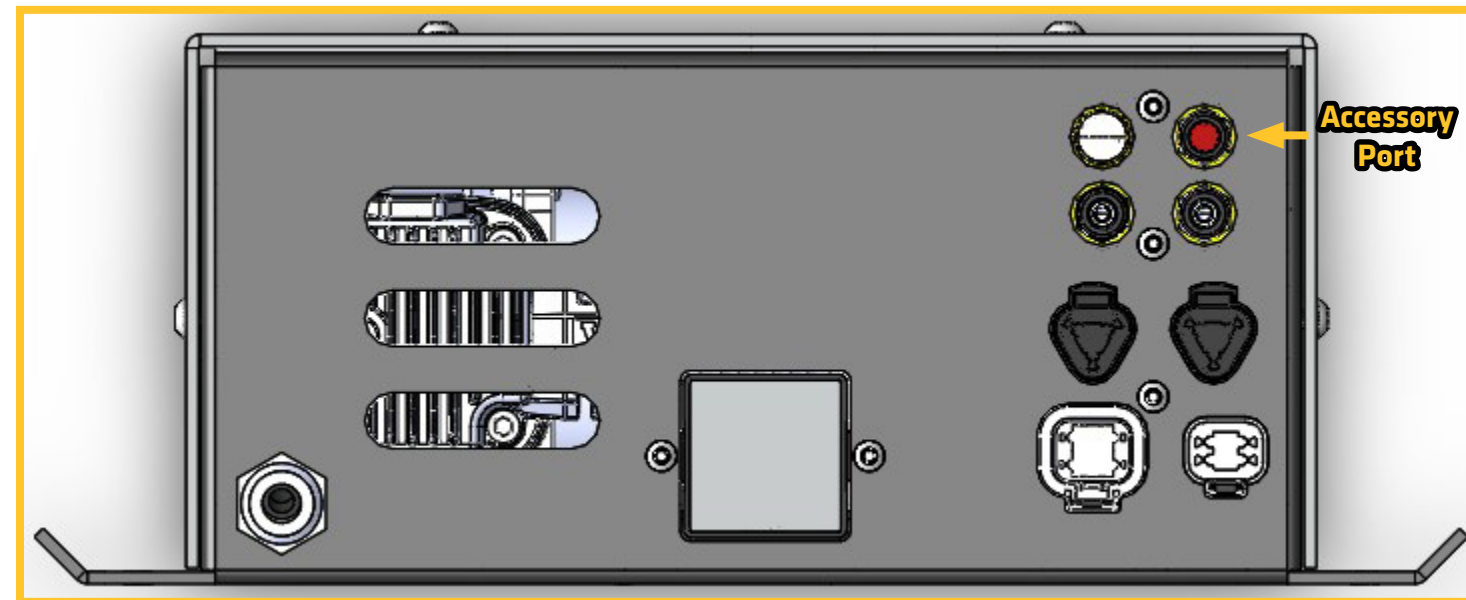


FIGURE 20

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



## OPTIONAL TANK

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.

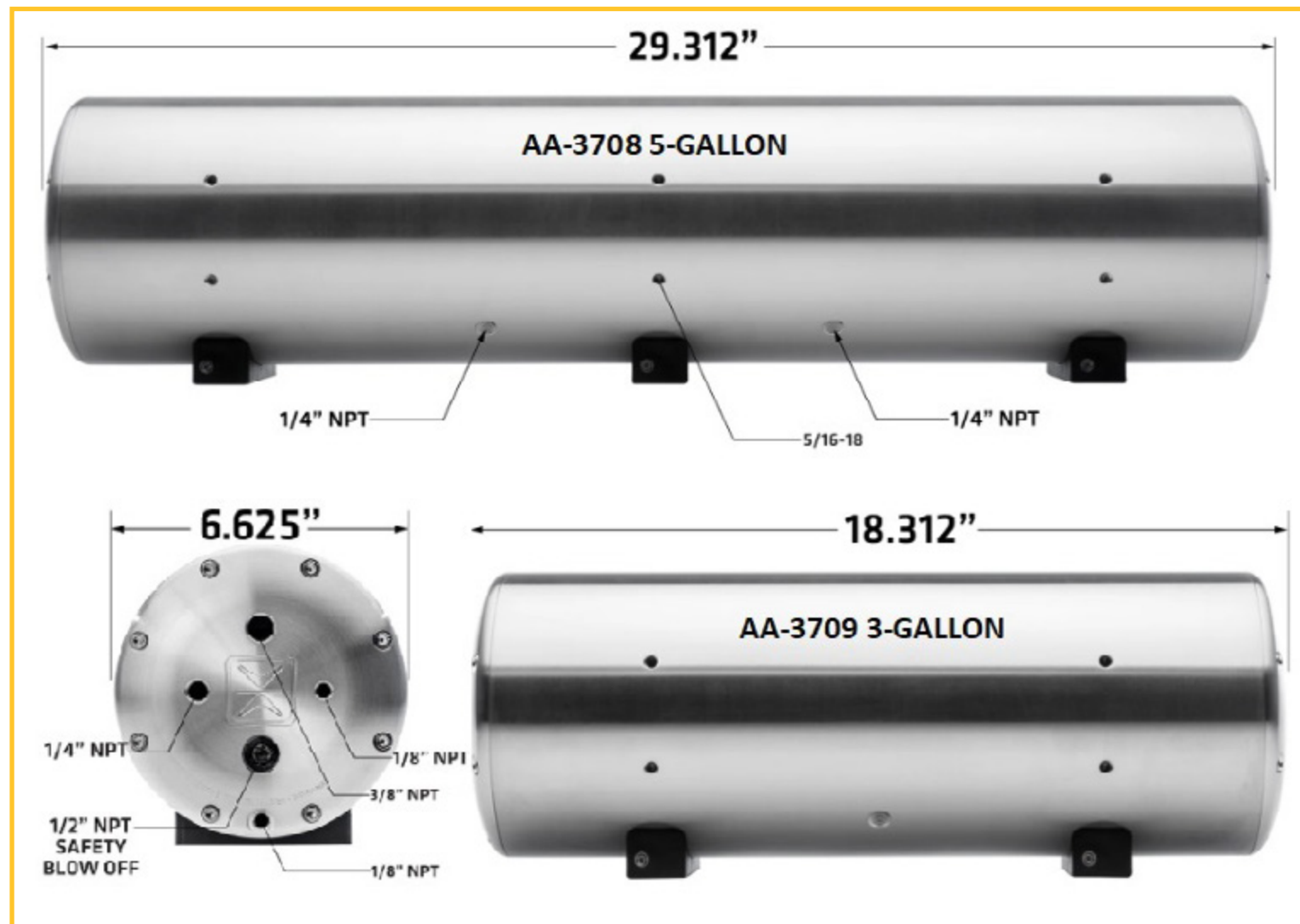


FIGURE 22

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



# ACCUAIR

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## TROUBLESHOOTING & TECHNICAL SUPPORT

MORE INFO?  
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