

# Installation Manual

PART OF PACBRAKE'S

**AIR ARSENAL**



**QUICK MOUNT**

## AIR TANK KIT - 2½ GALLON

**APPLICATION:** Universal\*

*\*If being paired with an existing non-BRAVO™ wireless control system, confirm the system is compatible with tanks and/or onboard air.*

*When used with a compatible air control system, this Air Tank QuickMount Kit increases available air volume, helping reduce air spring fill time and improve system responsiveness*

*\* See application guide for proper fitment.*

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**Thank you and congratulations on the purchase of an Air Tank QuickMount kit.**

Please read the entire manual prior to starting the installation to ensure you can complete it once started. If you are unsure whether you are qualified to install the kit, consult a qualified service professional before beginning the installation.

## SAFETY WARNINGS!

You must read and abide by the instructions found in this manual, paying close attention to the helpful (+), cautionary (!) or dangerous (!) warning icons highlighting important safety recommendations and maintenance suggestions throughout this manual. Failure to abide by all instructions in this manual will void the warranty.

### IMPORTANT TO KNOW WHEN USING AN AIR TANK

- ! This air tank system is intended for use only within its rated pressure limits. **Never exceed a maximum of 135 PSI tank pressure.**
- ! **Always wear safety glasses** when installing or servicing compressed-air components.
- ! **Never work on a pressurized air system.** Always fully depressurize before installing or servicing components.



**HELPFUL INSTALL TIP**  
Additional information that could potentially make the job a little easier.



**PLEASE USE CAUTION**  
Unsafe practices could result in damage to you or your vehicle, or others.



**DANGER WARNING**  
Hazards which could result in severe personal injury or death.

### IMPORTANT TO KNOW WHEN USING WITH MOBILE APP / REMOTE



! **A Mobile device App is required for initial installation & servicing of the system.**

**MOBILE APP USERS:** Please ensure you have downloaded the latest Pacbrake BRAVO™ Wireless Air Control App from the Apple App Store or Google Play Store.

► Select the icon (with the white background) labelled BRAVO™ Wireless Air Control.

**STANDALONE REMOTE USERS (Part #: HP10660):** The Remote is a simplified alternative to the Mobile App and is intended for air spring control only; the mobile app is required to access the full functionality needed for safe installation, setup, and servicing of this kit. Please ensure the unit is fully charged before use.

### IMPORTANT TO KNOW WHEN USING WITH AIR SUSPENSION

- ! An air suspension kit will not increase the GVWR (Gross Vehicle Weight Rating), as the GVWR is determined by the vehicle manufacturer. **Do not exceed the maximum capacity listed by the vehicle manufacturer.**
- ! **Serious personal injury or death may result from an air spring failure** or accident due to improper installation or air spring pressure operation or maintenance.
- ! **Inflating an unsecured air spring is dangerous.** If it bursts, it could be hurled into the air with explosive force resulting in serious personal injury or death. Never inflate an air spring unless it is secured to the vehicle.
- ! For safe and proper operation of the vehicle, never operate the vehicle under the minimum or over the maximum listed PSI in the air spring(s), (see: MIN/MAX PSI chart on the final page of this manual). Staying within the pressure limits will ensure a reasonable duration of the air springs. **Failure in doing so may result in damage to your vehicle and will void the warranty.**
  - ! **PLEASE NOTE:** If an onboard air accessory kit is installed, the accessory output pressure can reach 135 PSI. **Use caution when inflating objects to prevent exceeding their maximum pressure.**
- ! **Removing and replacing air springs can be dangerous.** This is only a job for a qualified service professional. Never perform air spring service procedures without proper training, tools, and equipment.
- ! It is recommended to always jack the vehicle on the axle. If lifting the vehicle with a floor jack or hoist on the frame, never allow the air spring to limit the travel of the axle. Suspending the axle with the air spring limiting the axle travel **will damage the air spring and void the warranty.** (This warning does not apply to In-Coil Springs)
- ! The air spring must have clearance between itself and the surrounding components to prevent any contact when the air spring is inflated or compressed. Trimming off excess bolt length may also be required to ensure no contact with the spring or other suspension components can be made once installed. **Failure to do so will void the warranty.**

## BEFORE STARTING THE INSTALLATION

- ❗ **Always read your vehicle owner's manual and follow all instructions and warnings therein prior to modifying your vehicle.**
- ⚠️ Ensure there is adequate frame clearance for mounting kit before beginning installation (see Step 1 for more info).
- ⚠️ Verify that no brake lines, fuel lines, wiring, or hoses will be pinched or damaged during installation.
- ⚠️ This kit contains push-to-connect fittings; using scissors or wire cutters to cut the nylon air line will distort the line and cause the connection to leak. The air line must be cut off squarely with the tube cutter provided in this kit, or a sharp utility knife.  
**Failure to do so will void the warranty.**
- + It is recommended to use only pneumatic PTFE tape or thread sealant on NPT fitting during the installation for a proper seal.
- ⚠️ Always ensure the bolts are not over-torqued; especially when a torque value is provided, failing to use the provided torque value(s) can lead to **premature failure and will void the warranty.**
- + It is recommended to use a good quality anti-seize on all fasteners to reduce the chance of corrosion and help facilitate removal, if required at a later date.

## SERVICE NOTICE

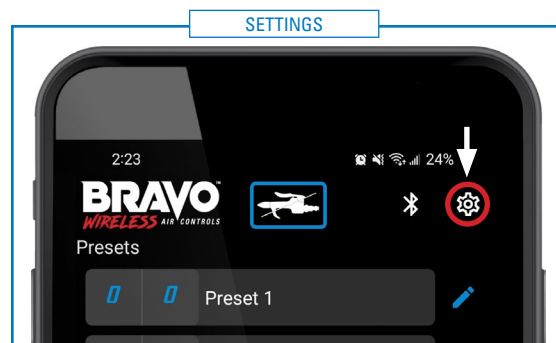
- ⚠️ **Before servicing or performing other maintenance on the wireless air controls system, all pressurized air must be released or 'purged' from the system.**

❗ **PLEASE NOTE:** A Mobile device App is required for the initial installation and servicing of the system.

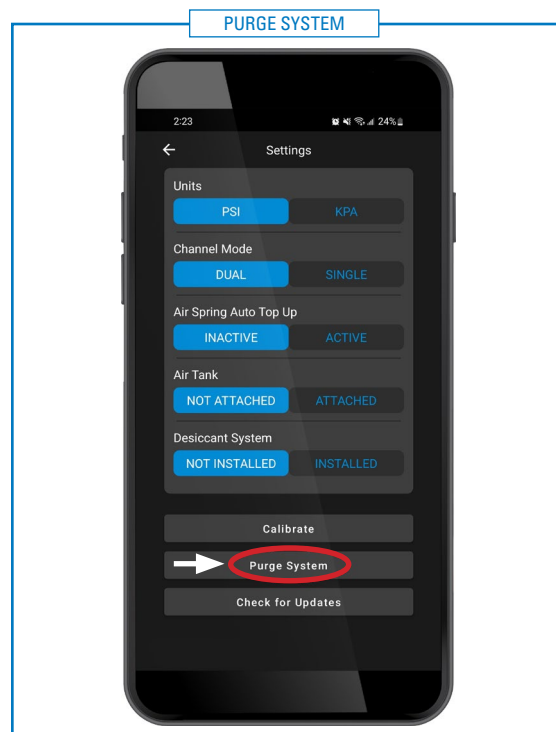
**Use the Pacbrake BRAVO™ Wireless Air Control Mobile App to engage the 'Purge' function and de-pressurize the system.**

- Navigate to the App Settings (the cog wheel in the top right corner of the screen - highlighted in Figure A)
- Select "Purge System" to fully de-pressurize the air system before servicing (highlighted in Figure B).
- When all air has been exhausted from the system, remove the 10A fuse from the fuse tap in the main wiring harness.

❗ **PLEASE NOTE:** Any automated inflation function, such as auxiliary air tank inflation, will resume on system power-cycle or by using a fill/drain or preset command in the app or remote.



A



B

## KIT CONTENTS

Please confirm the items below are provided in your kit before starting the installation. Reference the kit explosion diagram on the following page for part assembly.

| 2½ GALLON AIR TANK KITS |                             | QTY | PART #  |
|-------------------------|-----------------------------|-----|---------|
| <b>A</b>                | Air Tank, 2.5 Gallon        | 1   | HP10013 |
| <b>B</b>                | Bracket, 2.5 Gal Tank Mount | 1   | HP2249  |

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| KIT CONTENTS |                                           | QTY | PART #    |
|--------------|-------------------------------------------|-----|-----------|
| <b>C</b>     | Bracket, QuickMount Mounting Rails        | 2   | HP2080    |
| <b>D</b>     | Bracket, Carriage Bolt Plate              | 2   | HP2234    |
| <b>E</b>     | U-Bolt, 5.5" x 9.5" Square, 3/8" - 16     | 2   | HP2081    |
| <b>F</b>     | Nut, 3/8" - 16 Nylon Lock Flange          | 8   | HP1975    |
| <b>G</b>     | Bolt, 3/8" - 16 x 1" Hex Head Cap Screw   | 4   | C18005    |
| <b>H</b>     | Washer, 3/8" Flat                         | 4   | C18006    |
| <b>I</b>     | Bolt, 5/16" - 18 x 1" Carriage            | 4   | HP2098    |
| <b>J</b>     | Nut, 5/16" - 18 Nylon Lock                | 4   | C11944    |
| <b>K</b>     | Washer, 5/16" - 18 Flat                   | 4   | C11943    |
| <b>L</b>     | Fitting, 1/4" Tube To 1/4" NPT Straight   | 1   | HP1099    |
| <b>M</b>     | 90° Swivel Fitting, 1/4" Tube To 1/4" NPT | 1   | HP1100    |
| <b>N</b>     | Valve, Safety Relief, 150 PSI             | 1   | HP1184    |
| <b>O</b>     | Pipe Plug, ¼" NPT                         | 3   | C11848    |
| <b>P</b>     | Tee Fitting, 1/4" Push-To-Connect         | 1   | HP2089    |
| <b>Q</b>     | Nylon Air Line Tube, Black, 16 Feet       | 1   | M9047-16  |
| <b>R</b>     | Cable Tie, 7", 12 Pack                    | 1   | C11618-12 |

### + PLEASE NOTE: This Kit has Frame Requirements of:

- Height of no more than 9" [230mm]\*
- Width between 2 5/8" [66mm] to 4" [102mm]

\* QuickMount Extender Brackets (Part #: HP10742) are available separately to accommodate frame heights up to 11 5/16" [287mm]

**Contact your point of purchase for further information**



## REQUIRED TOOLS

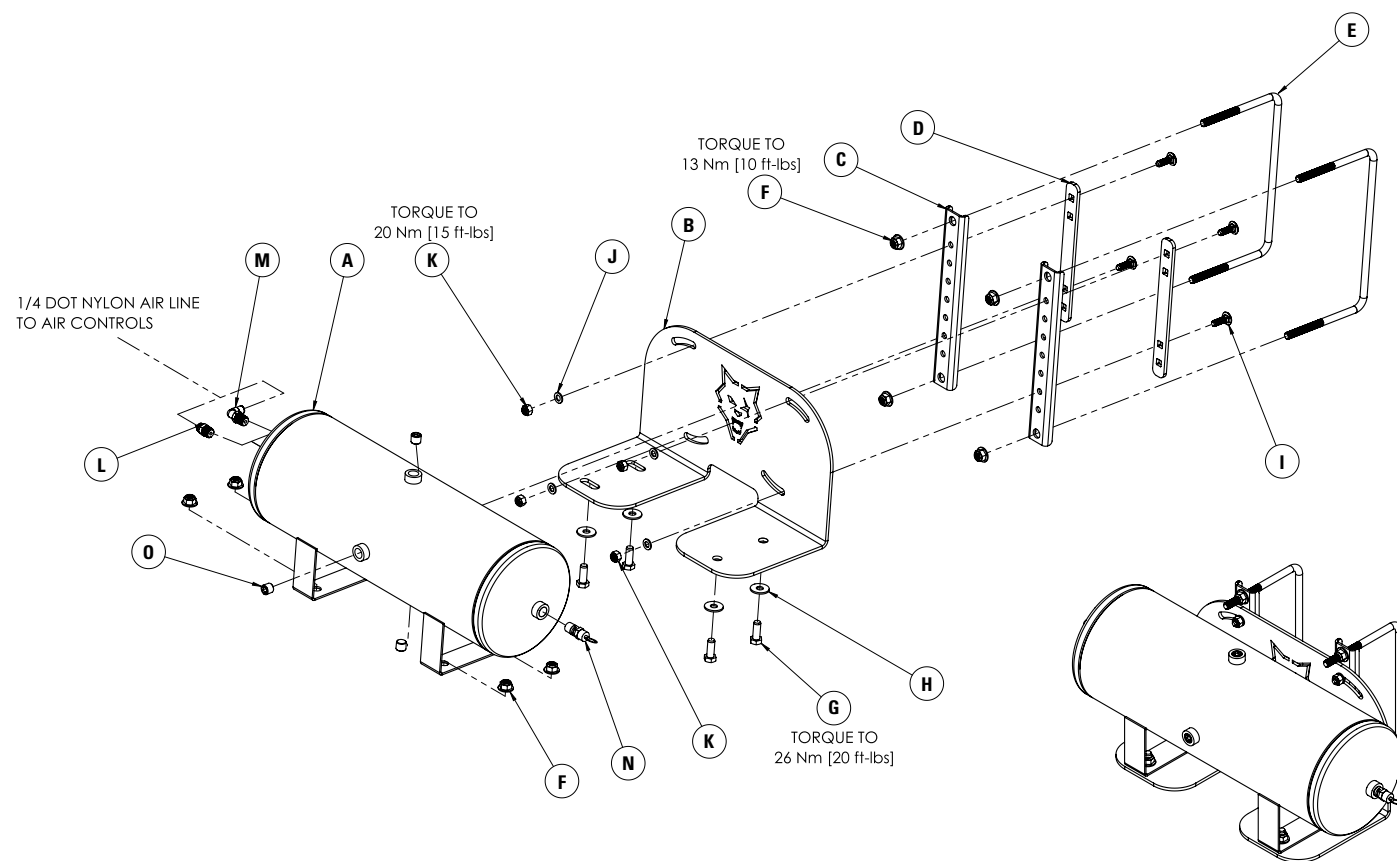
- Hoist or Floor Jack & Stands
- Safety Glasses
- Torque Wrench
- Standard Combination Wrenches
- Standard Sockets
- Tube Cutter (included) or Sharp Utility Knife
- Pipe Thread Sealant
- Spray Bottle with Dish Soap/Water



**WARNING:** This product can expose you to the chemical Hexavalent Chromate, which is known to the State of California to cause cancer and birth defects or other reproductive harm. **For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

## KIT EXPLOSION DIAGRAM

### 2½ GALLON AIR TANK KIT ASSEMBLY



## INSTALLATION INSTRUCTIONS: AIR TANK

### 1 SELECT MOUNTING LOCATION

Select a suitable location on the vehicle's frame to mount the air tank:

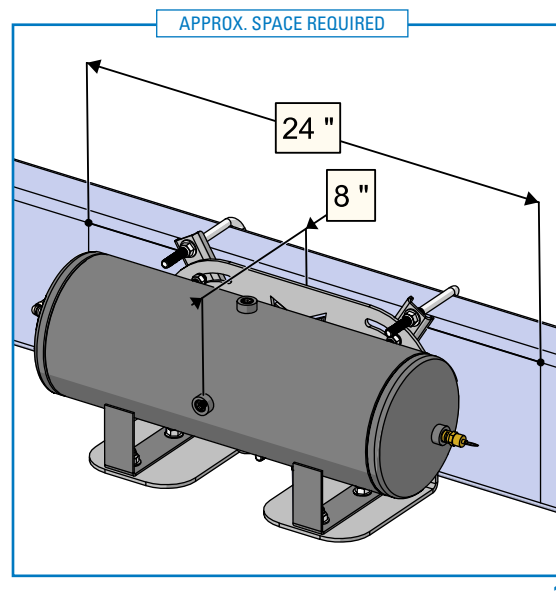
- ⚠ **Ensure the mounting area is clear of brake lines, fuel lines, wiring, and hoses.**

**Frame Requirements (See Figure 1):**

- Height of no more than 9" [230mm]<sup>+</sup>
- Width between 2 5/8" [66mm] to 4" [102mm]
- + **QuickMount Extender Brackets (Part #: HP10742)** are available separately to accommodate frame heights up to 11 5/16" [287mm]

Verify there is sufficient clearance of at least 24" [610mm] wide by 8" [203mm] deep so that the tank will not interfere with any surrounding components when installed (see approximate kit dimensions in Figure 1).

- + *The optimal recommended mounting location is typically on the passenger side frame rail beneath the cab of the vehicle.*



### 2 PRE-ASSEMBLE THE AIR TANK MOUNTING BRACKETS

Using Figure 2 as a point of reference: install the top 5/16" Carriage Bolt (Item I) through:

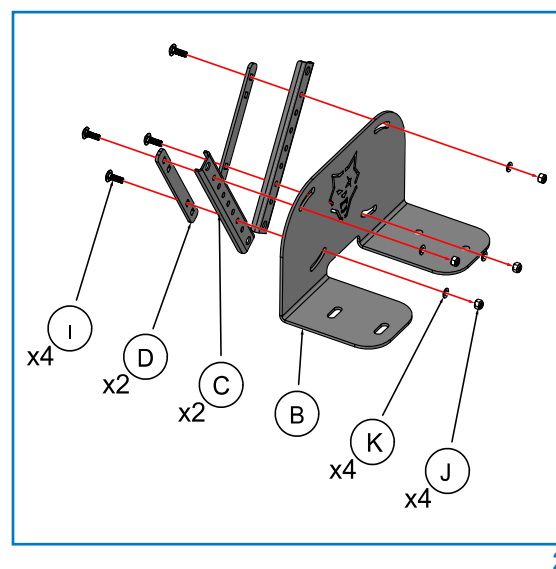
- The top hole of the **Carriage Bolt Plates** (Item D)
- The second hole from the top of the **QuickMount Mounting Rails Bracket** (Item C)
- And through the top slots of the **Air Tank Mounting Bracket** (Item B)

Secure with **washers** (Item K) and **nylon lock nuts** (Item J), but do not fully tighten at this stage to allow for adjustments.

Install the bottom 5/16" **Carriage Bolts** (Item I) through:

- The third hole of the **Carriage Bolt Plates** (Item D)
- The seventh hole from the top of the **QuickMount Mounting Rail** (Item C)
- And through the bottom slots of the **Air Tank Mounting Bracket** (Item B)

Secure with **washers** (Item K) and **nylon lock nuts** (Item J), but do not fully tighten at this stage to allow for adjustments.



### 3 ATTACH BRACKETS TO FRAME

Position the **U-Bolt** (Item E) around the vehicle frame (as shown in Figure 3).

**!** *Ensure no hoses/tubing or wiring is being pinched.*

Attach the **Air Tank Bracket assembly** to the U-Bolt utilizing the top and bottom holes in the **QuickMount Mounting Rail** (Item C) and securing with **3/8" Nylon Lock Nuts** (Item F).

Rotate the U-bolts as far as possible to raise the bracket assembly toward the cab while still maintaining a level bracket for the air tank to sit flush without interference once installed.

**+** *This process may require several trial fits. Snug the fasteners and re-confirm tank clearance before the final torque.*

Once proper fitment has been confirmed:

- Torque 3/8" U-Bolt Nuts to **13 N•m [10 ft lb]**
- Torque 5/16" Carriage Bolts to **20 N•m [15 ft lb]**

### 4 TANK PREPARATION

Install the **1/4" NPT fitting** into the air tank port, before mounting to the bracket.

Depending on desired tube routing, install either the **Straight Fitting** (Item L) or the **90° Swivel Fitting** (Item M) on the tank end that's facing the compressor.

**+** *Some fittings have thread sealant pre-applied on threads, If threads have no visible coating, thread sealant or tape must be applied to prevent leaks.*

Thread the fitting finger-tight plus an additional 1.5 turns.

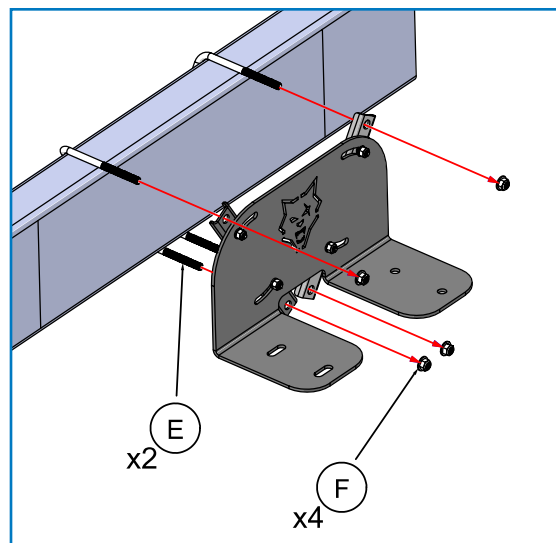
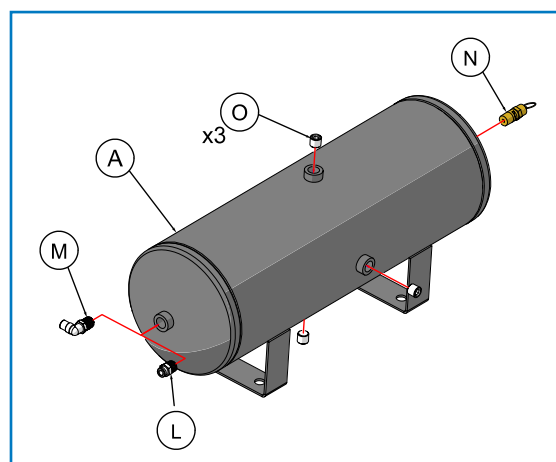
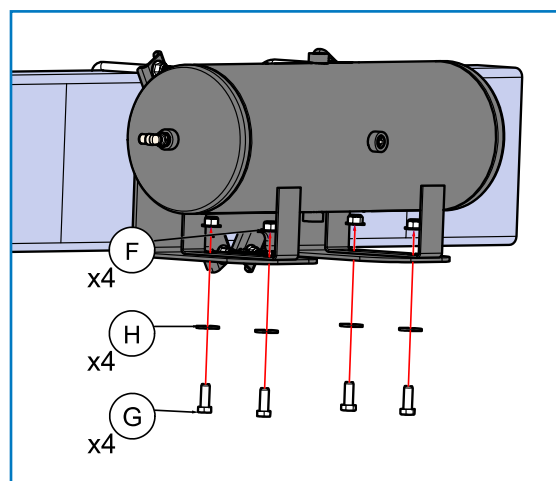
Install **Safety Relief Valve** (Item N) on the opposite air tank port.

### 5 MOUNT TANK TO BRACKET

Place the Air Tank assembly onto the bracket.

Secure using **3/8" Bolts** (Item G) and **Washers** (Item H) from below, with **Flange Nuts** (Item F) from above. (See Figure 5 for assembly)

Torque the air tank mounting bolts to **26 N•m [20 ft-lb]**.


**3**

**4**

**5**



## INSTALLATION INSTRUCTIONS: AIR LINE

- ⚠ **Ensure all tubing is routed securely and protected from abrasion, heat sources, and moving components.**
- ⚠ **A Mobile device App is required for initial installation and servicing of the system.**

**Using the Mobile Device App** navigate to the **Settings** and select **"Purge System"** to fully depressurize the air system before servicing.  
(See details on Page 3 of this manual)

### 6 WITHOUT WATER SEPARATION SYSTEM

Disconnect and remove the existing 1/4" nylon tube between the compressor hose fitting and manifold fitting (Part highlighted in Figure 6A).

- + **To disconnect push-to-connect tubing:** Press the tube towards the fitting, press and hold the outer release ring (an open-ended wrench can be used to push with), then pull the tube straight out of the fitting (as shown in Figure 6B).

Cut a **2.75"** (70 mm) section of supplied tubing and insert it fully into the **compressor hose fitting** (highlighted in Figure 6C).

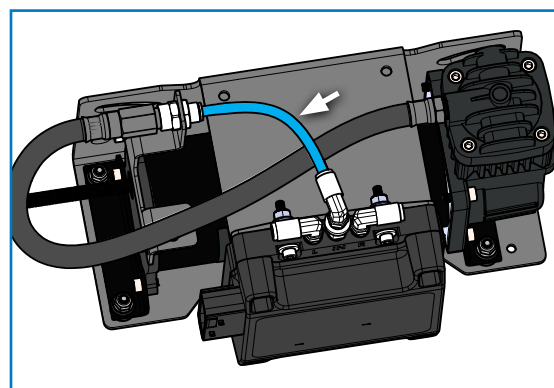
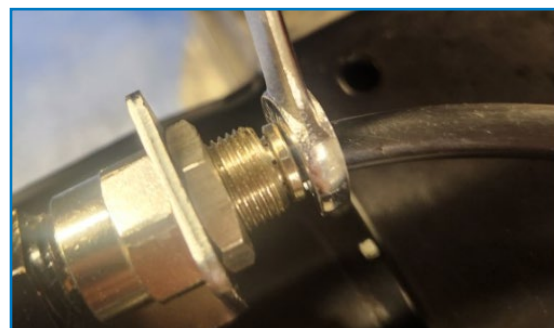
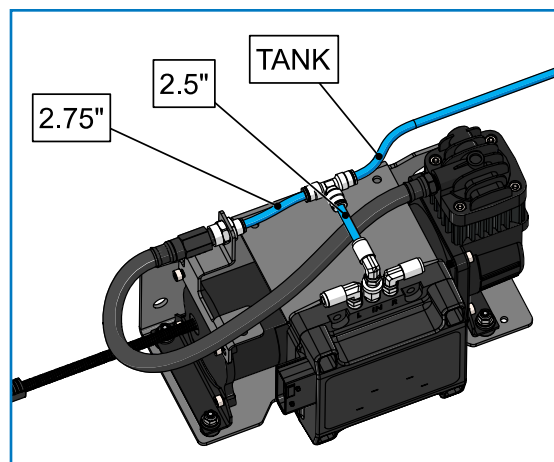
Install the **Straight-Through Port** of the **Push-To-Connect Tee Fitting** (Item O) onto the tubing.

Cut a **2.5"** (64 mm) tubing section and connect the **branch port** of the tee fitting to the **manifold inlet fitting** (highlighted in Figure 6C).

Use the remaining tubing to connect the **Push-To-Connect tee fitting** to the **tank's Push-To-Connect fitting**.

Cut tubing to required length and secure as necessary with the supplied zip ties.

- ⚠ **Ensure tubing is fully inserted into all Push-To-Connect fittings.**


**6A**

**6B**

**6C**



## 7 WITH WATER SEPARATION SYSTEM

Disconnect the existing 1/4" tubing loop from the water separation system (Part highlighted in Figure 7A).

Cut a **2.75"** (70 mm) section of supplied tubing and install it into the **desiccant filter's Push-To-Connect fitting** (see Figure 7B for reference).

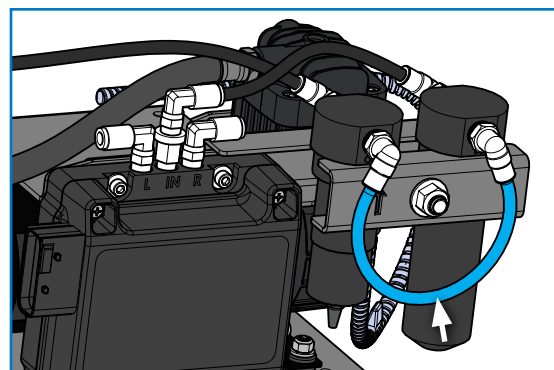
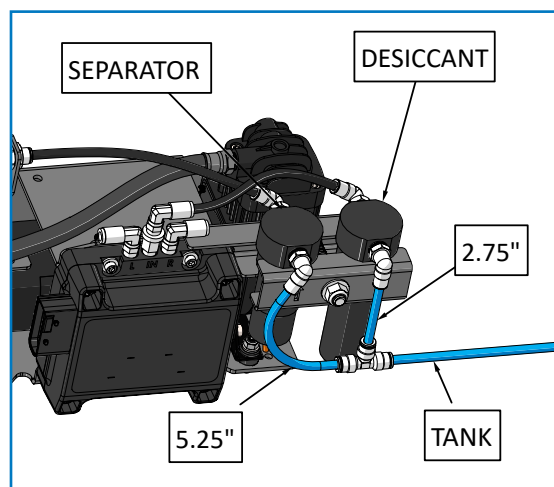
Install the **Push-To-Connect Tee Fitting** (Item 0) onto the tubing with the **Branch Port Oriented as Required**.

Cut a **5.25"** (133 mm) tubing section and connect it between the **water separator Push-To-Connect fitting** and the **open port of the Push-To-Connect tee fitting**.

Use the remaining tubing to connect the **Push-To-Connect tee fitting** to the **tank's Push-To-Connect fitting**.

Cut tubing to required length and secure as necessary with the supplied zip ties.

**!** *Ensure tubing is fully inserted into all Push-To-Connect fittings.*


**7A**

**7B**

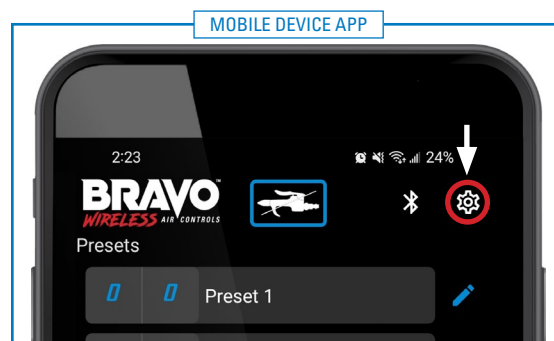
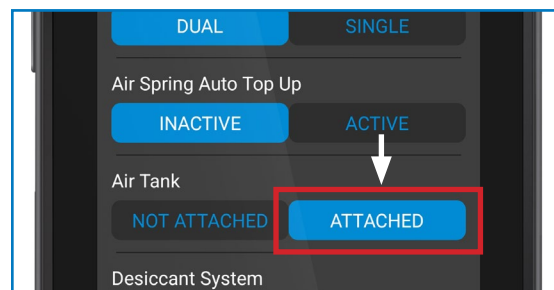
## 8 MOBILE APP CONFIGURATION

Power on the vehicle.

Connect to the controller using the Mobile device app.

Navigate to the App Settings (the cog wheel in the top right corner of the screen - highlighted in Figure 8A)

Set **Air Tank** to **"Attached"**.


**8A**

**8B**

## 9 FINAL INSPECTION

Confirm the tank and fittings have adequate clearance from moving or heat-sensitive components.

With the vehicle on the ground, verify all fasteners have been torqued correctly to the torque values provided. Failing to use the provided torque value(s) can lead to premature failure and will void the warranty.

Using a mixture of dish soap and water, spray all air line connections.

Pressurize the system using the app and press either of the manual "up" arrows (left or right air spring). This will start the compressor and allow the air tank to fill (up to system pressure, max 135 PSI).

Check all fittings to detect any air leaks. Large, expanding bubbles indicate a leak (as the example in Figure 9 shows).

**⚠ The leak must be repaired, and then retested until no leaks exist.**



\*Air Spring & NPT Air Fitting shown as an example and may differ between kit offerings

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**CONGRATULATIONS! You have completed the install**

**After Installation & Legal** continues on the following page.

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## AFTER COMPLETING THE INSTALLATION

- ⚠ **Re-torque all mounting fasteners after the first 500 miles (800 km) of driving.**
- ⚠ **Periodically inspect the air tank and fittings during routine vehicle maintenance.**

## OPERATING YOUR VEHICLE WITH AIR SUSPENSION

Air springs have minimum and maximum recommended pressure requirements:

| MIN / MAX PSI: REQUIREMENTS FOR YOUR AIR SPRING(S) |                         |                                 |                |         |
|----------------------------------------------------|-------------------------|---------------------------------|----------------|---------|
| PART #                                             | SPRING STYLE            | SPRING TYPE                     | MIN PSI        | MAX PSI |
| HP10687                                            | In-Coil                 | STANDARD DUTY                   | 5 PSI          | 50 PSI  |
| HP10560                                            |                         | STANDARD DUTY                   | 5 PSI          | 70 PSI  |
| HP10001                                            | Sleeve Style            | STANDARD DUTY                   | 10 PSI         | 100 PSI |
| HP10173                                            |                         | STANDARD DUTY                   |                |         |
| HP10199                                            |                         | STANDARD DUTY                   |                |         |
| HP10083                                            | Single Convoluted       | HEAVY DUTY                      | 5 PSI          | 100 PSI |
| HP10083J                                           |                         | HEAVY DUTY with JOUNCE BUMPER   | 0 PSI* / 5 PSI | 100 PSI |
| HP10000                                            | Double Convoluted       | HEAVY DUTY                      | 5 PSI          | 100 PSI |
| HP10000J                                           |                         | HEAVY DUTY with JOUNCE BUMPER   | 0 PSI* / 5 PSI | 100 PSI |
| HP10068                                            | Large Double Convoluted | HEAVY DUTY                      | 5 PSI          | 100 PSI |
| HP10438                                            | Double Convoluted       | EXTREME DUTY                    | 5 PSI          | 100 PSI |
| HP10438J                                           |                         | EXTREME DUTY with JOUNCE BUMPER | 0 PSI* / 5 PSI | 100 PSI |

\* Springs with a jounce bumper can be run at zero PSI when vehicle is unloaded only

Never operate the vehicle under the minimum or over the maximum listed PSI in the air spring(s). Staying within the pressure limits will ensure maximum air spring life. **Failure in doing so may result in damage to your vehicle and void the warranty.**

- ⚠ **It is recommended to check the air pressure in your air springs daily, for the first 5 days, to ensure a leak has not developed.**

Air springs are designed to maintain the vehicle's stock ride height with a load. Do not use the air springs as a means to lift vehicle with no load. This will result in a harsh ride.

## WARRANTY

**See accompanying limited warranty included with this kit for details.**