

Truck Air Control Systems Installation Guide

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FOR THE MOST
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DUAL / SINGLE CHANNEL WIRELESS AIR CONTROL SYSTEMS

90 Series Air Control Kits *(with & without Remote)**

325 Series Air Control Kits *(with & without Remote)**

425 Series Air Control Kits *(with & without Remote)**

**Non-Air Tank compatible kits.*

** See application guide for proper fitment.*

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Thank you for the purchase of a Wireless Air Controls kit.

While our kits are designed to be tough as nails, there are rare occurrence that it may not function the way it was intended and need some finesse to get it running at the peak condition is was intended.

IMPORTANT

Please note, prior to proceeding with Troubleshooting an issue:

- ✓ Ensure all wiring harness connections are securely connected and latched to their mates.
- ✓ Inspect all wiring for signs of damage or wear that could cause electrical shorts or discontinuities.
- ✓ Ensure any extended lengths of harness do not exceed a span of 10 meters [30 feet] from controller.

- ✓ **For those using the Phone App:** 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 white background) labelled BRAVO™ Wireless Air Control.

- ✓ **For those using independent Remote control:** please ensure the unit is fully charged as some may have been accidentally turned on during shipping and have a discharged battery upon receipt.

**WARNING**

- ❗ **DO NOT cycle power by removing connectors from controller.** Cycle power by disconnecting at the battery or removing main power fuse.
- ❗ Unnecessary connection and disconnection of the harness connectors wears out the plating on the electrical contacts and will affect continuity.

1 AIR COMPRESSOR

1.1 Air compressor is slow/not building pressure

CAUSE	SOLUTION
<i>Insufficient power applied to compressor</i>	<ul style="list-style-type: none"> ▶ Ensure battery voltage is not less than 9 VDC (12 VDC system) and replace / charge battery if necessary. ▶ Ensure harness battery wires are secure and have clean connection to the battery terminals. Clean battery terminals if necessary. ▶ Measure voltage across 2-pin connector of harness for matching battery voltage when attempting to inflate springs. Inspect harness for damage or shorts and replace if necessary.
<i>Air leak in system</i>	<ul style="list-style-type: none"> ▶ Inspect all air lines and fittings for damage or wear. ▶ Spray soapy water on all air line and air fitting connections and observe for bubbles to detect air leaks. ▶ Replace air lines or fittings as necessary.
<i>Restricted intake air line or filter</i>	<ul style="list-style-type: none"> ▶ Inspect intake filter and intake air line for dirt or debris and replace if necessary.
<i>Worn reed valve or piston seal</i>	<ul style="list-style-type: none"> ▶ Use finger to block compressor air outlet. If compressor does not force finger off outlet when powered, internal piston seal or reed valve is worn. ▶ Replace compressor assembly if necessary.

1.2 Air compressor is running unexpectedly

CAUSE	SOLUTION
<i>Damaged or faulty harness</i>	<ul style="list-style-type: none"> ▶ Inspect wiring harness for any shorts or faults. Replace if necessary.
<i>App or Remote sending fill command</i>	<ul style="list-style-type: none"> ▶ Power off phone or remote, test system for unexpected running.
<i>Faulty controller</i>	<ul style="list-style-type: none"> ▶ Replace controller.

AIR COMPRESSOR *Continued***1.3 Air Compressor is not activating**

CAUSE	SOLUTION
Insufficient power applied to compressor	<ul style="list-style-type: none"> ▶ Ensure battery voltage is not less than 9 VDC (12 VDC system) and replace / charge battery if necessary. ▶ Ensure voltage at ignition power source is not less than 9 VDC and use alternate power source if necessary. ▶ Ensure vehicle ignition is in ON position for application with controller wired to switched ignition power. ▶ Ensure harness battery wires are secure and have clean connection to the battery terminals. Clean battery terminals if necessary. ▶ If vehicle auxiliary or upfitter switch was used, ensure switch is in ON position and check switch fuse. ▶ Measure voltage across 2-pin connector of harness for matching battery voltage when attempting to inflate springs. Inspect harness for damage or shorts and replace if necessary.
Compressor is over-heated or exceeded duty cycle ❗ If applicable: Thermal limit switch in compressor is tripped	<ul style="list-style-type: none"> ▶ Ensure compressor assembly is not mounted in location exposed to high heat. ▶ Allow time (generally 1 hour) for compressor to cool down and re-attempt use.
Compressor motor short/open circuit	<ul style="list-style-type: none"> ▶ Use a multimeter to measure resistance and continuity across the two wires coming from the compressor body: <ul style="list-style-type: none"> • If NO continuity is measured; open circuit present in motor • If resistance is 0 or infinite; short circuit present in motor ▶ Replace compressor assembly if necessary.

2 AIR SUSPENSION SPRINGS

2.1 Air springs fill or drain in opposite orientation

CAUSE

Air lines plugged into incorrect ports

SOLUTION

- ▶ Swap LEFT and RIGHT air lines by pressing down the collar of the fittings to remove the lines.

2.2 Air springs fill or drain unevenly

CAUSE

Air lines between the control board and air bags are significantly different lengths

SOLUTION

- ▶ Adjust the length of the lines to be equal.
- ▶ Some minor differences in fill speeds may be experienced due to internal geometry of the manifold

Restriction in air line

- ▶ Inspect air lines for kinks, dirt or debris and replace if necessary.

3 WIRELESS REMOTE (Part #: HP10660)

3.1 Wireless Remote

CAUSE

Questions or Issues?

SOLUTION

- ▶ Reference the **Wireless Remote User Manual** at: www.pacbrake.com/mm5/pdfs/L6616.pdf

4 WIRELESS APP (PHONE / REMOTE)

4.1 App is showing incorrect pressure readings

CAUSE

Pressure sensor is out of calibration

SOLUTION

- ▶ Ensure all pressure is released from the system and recalibrate pressure sensor by pressing the calibrate button under the settings tab in the app.

Pressure sensor is broken

- ▶ If pressure reading is "-1" after performing recalibration procedure, sensor is likely faulty. Replace controller.

WIRELESS APP (PHONE / REMOTE) Continued**4.2 Cannot connect to controller from the Wireless Air Controls application****CAUSE**

Incorrect/unsupported device or operating system

SOLUTION

- ▶ Ensure the device operates on Android™ 7.1 or newer.
- ▶ Ensure the device operates on Apple™ iOS™ 10.3 or newer.



- ❗ Select the icon (with the white background) labelled **BRAVO™ Wireless Air Control**.
- ❗ Confirm the App downloaded is NOT the **AMP Wireless Classic** version.

Insufficient power applied to controller

- ▶ Ensure battery voltage is not less than 9 VDC (12 VDC system) and replace / charge battery if necessary.
- ▶ Ensure voltage at ignition power source is not less than 9 VDC and use alternate power source if necessary.
- ▶ Ensure vehicle ignition is in ON position for application with controller wired to switched ignition power.
- ▶ If vehicle auxiliary or upfitter switch was used, ensure switch is in ON position and check switch fuse.
- ▶ Ensure system is properly grounded and connected at negative battery terminal. Clean battery terminal if necessary.
- ▶ Check 10 Amp power fuse at switched ignition connection and replace if necessary.
- ▶ Measure voltage between pins 2 and 4 of 12 pin connector at controller to check for matching battery voltage.

WIRELESS APP (PHONE / REMOTE) Continued**CAUSE**

Communication issue between controller and phone

SOLUTION

- ▶ Ensure controller is within Bluetooth range of 10 meters [30 feet].
- ▶ Ensure controller is not mounted in an enclosed metal area.

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WIRELESS APP (PHONE / REMOTE) Continued**CAUSE***(Continued from previous page)***Communication issue between controller and phone****SOLUTION**

- ▶ Ensure Bluetooth on mobile device is turned ON.
 - ▶ Ensure Location Services on mobile device is turned ON.
 - Bluetooth requires this permission in order to scan for controller
 - ▶ Cycle ignition power to reset the controller and refresh the communication.
 - ▶ Turn off other wireless communication modes on mobile device (Wi-Fi, NFC, etc.).
 - Some devices may have difficulty connecting due to signal interference
 - ▶ Clear Bluetooth data cache and restart mobile device
- ⓘ PLEASE NOTE:** It is normal for the controller to NOT appear in the list of paired or available devices on Apple™ mobile devices.

Communication issue with Remote

- ▶ Remote cannot be paired while a phone is paired. Only one device can be connected at a time.
- ▶ When switching between devices, ignition may have to be cycled to refresh the connection status of the system to be visible for Bluetooth connection

DISCLAIMER**Driving while distracted can result in loss of vehicle control that may lead to an accident, severe personal injury, or death.**

The driver's primary responsibility is in the safe and legal operation of a vehicle, and use of any hand-held devices, other equipment, or vehicle systems which take the driver's eyes, attention and focus away from the safe operation of a vehicle or which are not permissible by law should never be used during operation of the vehicle.

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