MAXPEEDINGRODS
Since 2006

WIRELESS AIR CONTROLLER KIT

USER MANUAL

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INTRODUCTION

The wireless controller kit, which operates both with a remote controller and through a free App for iOS and Android. The electronic control kit has a single-path controller that can control two air springs at the same time. The remote controller and App allow you to adjust the air pressure with one button, which is more convenient while meeting your needs.

SYSTEM FUNCTION DESCRIPTION

- This is a single-channel product that can increase or decrease the left and right air pressure at the same time.
- Before the system is working, both the wireless remote controller and the App display the target value. After the system is completed, the actual value is displayed.
- The wireless remote controller and App can see the changes in the system's air pressure at the same time. The App needs to be matched before it can be controlled. The wireless remote controller does not need to be paired.
- In order to prevent the compressor from continuing to work due to air leakage, if the air pressure value does not rise by 10 psi within 30 seconds compared with before, the air pump will stop working and the ignition switch will be turned back on to resume normal function.
- The system can ensure that the actual inflation pressure is not lower than the target setting value by 4 PSI (.28 BAR), but will never deflate when the actual value is higher than the target value.
- Each time you open the App and wireless remote controller, the air pressure value of the last operation is displayed.
- The compressor duty cycle limits the compressor's operating time to ensure the compressor's service life. When the compressor runs overtime, the system will not inflate, and you will need to wait about 15 minutes before the compressor can run again.
- To avoid signal interruption, please do not operate the remote controller or mobile phone App when there are obvious obstructions (such as direct blocking walls, large corners, large vehicles, or multiple vehicles).

WIRELESS REMOTE CONTROLLER OPERATION GUIDE

- Before using the remote controller, be sure to install the batteries, which are included in the accessories.
- Press any button to activate the remote controller, and the screen displays the last operating pressure.
- Press the up and down arrows to adjust the air pressure directly. Or press Preset 1/2/3 to adjust the pressure.
- The remote controller backlight remains on for about 30 seconds. The compressor will continue to work after the display goes dark and can be activated by pressing any key.

BUTTON AND SCREEN INSTRUCTION



Signal Strength

Inflatable Arrow
It only flashes when it is working.

Battery Level Display

Current Pressure/Target Pressure (Left and Right)

Current Pressure Unit

Current Preset

Increase Air Pressure
Automatically adjust 3 seconds after releasing the button.

Deflatable Arrow
It only flashes when it is working.

Switch Air Pressure Unit PSI/BAR

Cancel Button
Press to stop the operation in progress.

Enter Button

Decrease Air Pressure
Automatically adjust 3 seconds after releasing the button.

Preset 1,2,3

PAIRING THE REMOTE CONTROLLER

The remote controller has been paired at the factory and can be used directly.

NOTE: If you replace the new remote controller, you need to pair the new remote controller (see page 8).

MAXIMUM AIR PRESSURE SELECTION

The maximum air pressure value depends on the type of air spring bag, the default maximum air pressure is 100 PSI. Please confirm the maximum pressure of your air spring bag type before use.

NOTE: Usually the maximum pressure of COIL SPRING is 35/50 PSI, and the maximum pressure of CONVOLUTED SPRING is 100 PSI.

PRESET PRESSURE OPERATION

1. Press and hold any one of the preset 1/2/3 for 3 seconds. When Current Preset is not flashing, adjust to the desired pressure and press the Enter button or press the Cancel button to cancel this preset.



2. Press Preset 1/2/3, the Current Preset starts to flash and then press the Enter button to inflate or deflate the air spring bag.

3. The currently selected preset will be displayed in the lower left corner of the screen.

MOBILE APP OPERATION GUIDE

1. Download the free App on the Apple Store and Google Play Store by searching for MaXpeedingRods.

GET IT ON Google Play

Download on the App Store

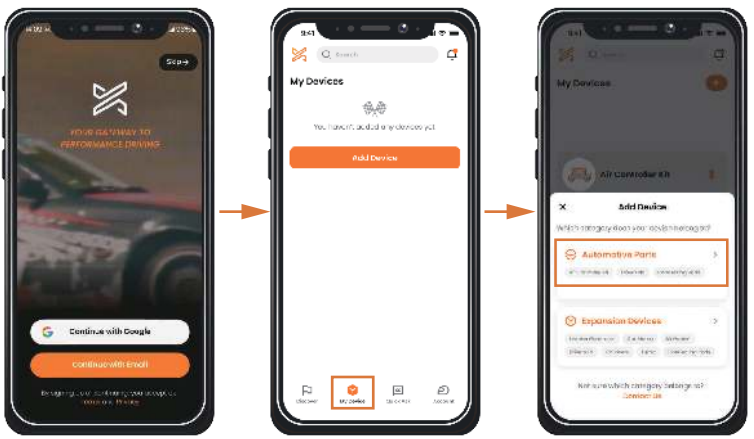
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2. Open the Maxpeedingrods App and start the vehicle at the same time.

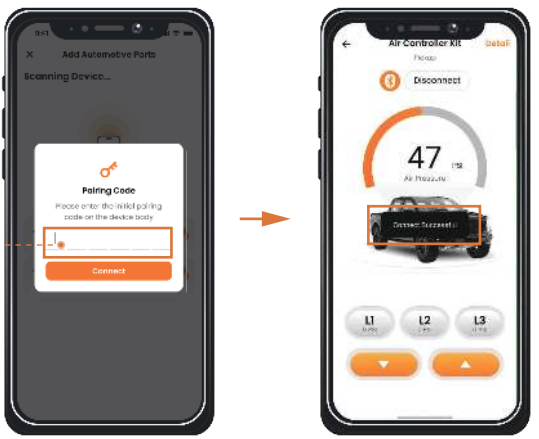
3. Log into the App and select My Device, Automotive Parts.



4. Scan for devices and tap Connect on the screen.



5. When connecting for the first time, you need to enter the default pairing password 123456, click connect to enter the main interface. After entering the interface, it will prompt that the connection is successful.



6. Press the up and down arrows to adjust the air pressure, or press preset L1,L2,L3 to adjust the air pressure value.

INTERFACE OPERATION INSTRUCTION

There is no difference between the Android and IOS operating interfaces.



Title

Bluetooth® Icon

Menu

Connection Status

Target Pressure

Current Pressure
When the air pressure adjustment is completed, the characters will disappear.

Cancel Button
Press to stop the operation in progress.

Preset L1,L2,L3
Press and hold the preset key for 3 seconds to set the value. Click to directly execute the current value.

Decrease Air Pressure
Automatically adjust 3 seconds after releasing the button.

Increase Air Pressure
Automatically adjust 3 seconds after releasing the button.

APP CONFIGURATION DETAIL



1. Bluetooth® Name
You can change the desired Bluetooth® name.

2. Device Information
The SN code of the system.

3. Remote Controller Paring
Steps to pair a new wireless remote controller with the compressor system.

4. Unit Setting
The units of PSI and BAR can be switched.

5. Troubleshoot
Provides common problems and solutions.

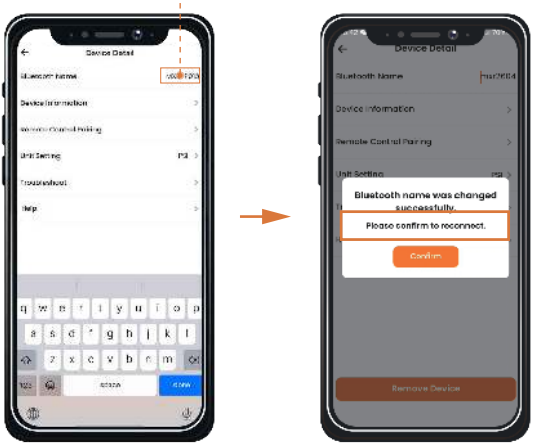
6. Help
You can leave your questions online.

CHANGE THE BLUETOOTH® NAME

1. Enter the Detail interface when you need to change the Bluetooth® name.

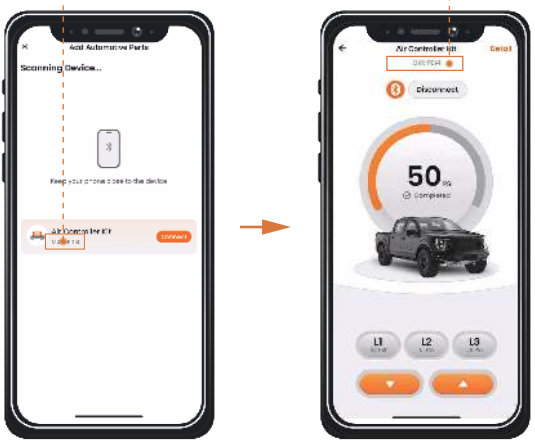
2. To adjust the Bluetooth® name, click on the Bluetooth® name and enter the desired name.

Click to adjust the name, then click Done on the keyboard to confirm the change.



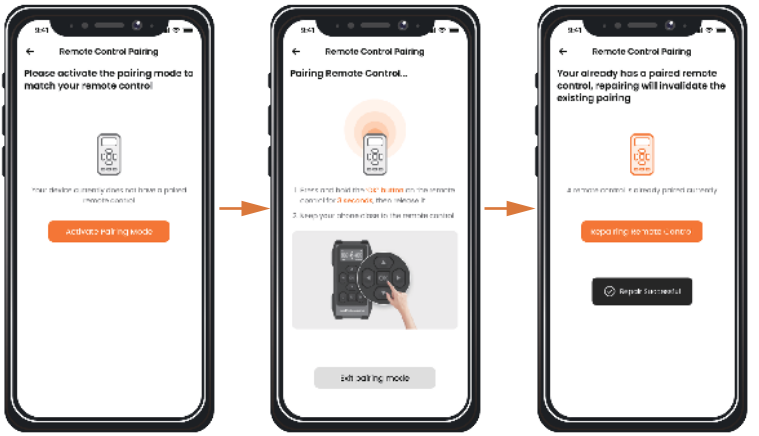
3. Click Confirm to rescan the device for connection. The new Bluetooth® name is already displayed on the interface.

The New Bluetooth® name.



REMOTE CONTROLLER PARING

When a new remote controller needs to be paired, follow the steps below to complete it.

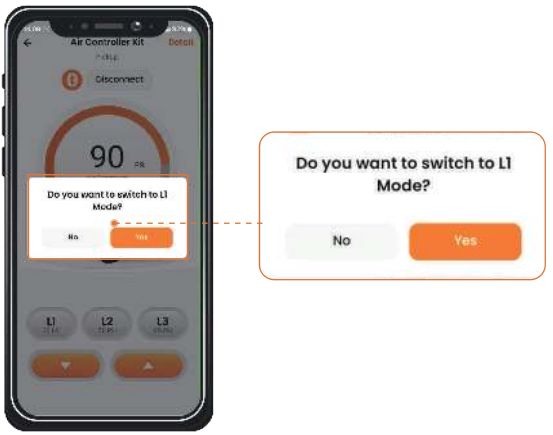


PRESET PRESSURE OPERATION

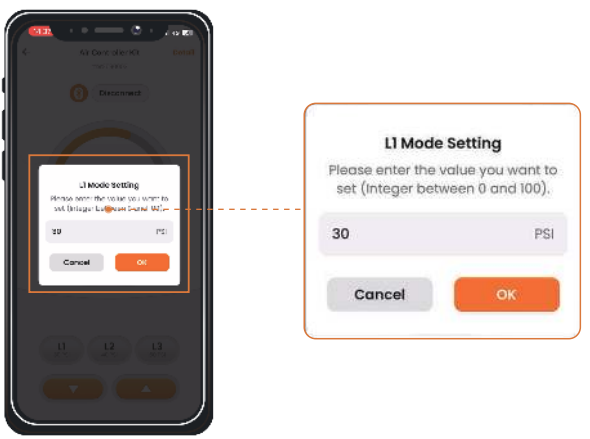
1. There are three preset pressure values to choose, namely L1, L2, and L3.



2. When adjusting the air pressure, click a preset value button. If you click Yes, you can directly execute the pressure value. If you click No, it will not be executed.



3. When you need to change the preset air pressure value, press and hold the preset button for 3 seconds and a setting window will pop up. Enter the desired preset value and click OK. Then follow the second step above to adjust the preset air pressure value.



TROUBLESHOOTING GUIDE

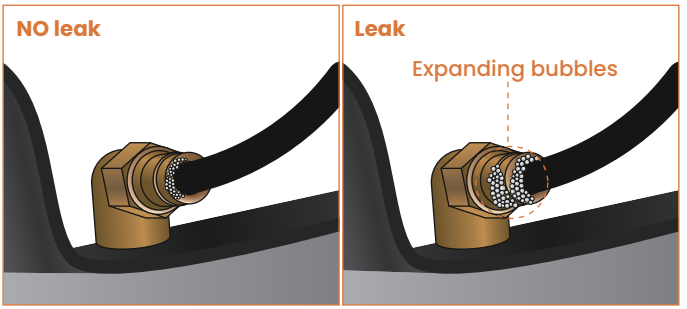
To prevent the vehicle battery voltage from being drained, always operate this system with the ignition on.

PROBLEM	CAUSE	SOLUTION
Wireless remote controller cannot connect	Remote controller battery voltage low	Check the power signal of the remote controller and confirm that it is low. A pair of AA batteries need to be replaced.
	Fuse blown	Check the 15A fuse and replace it with a new one.
	Remote controller and App disconnected	Completely exit the App and reconnect. Remove the batteries from the remote controller and reinstall them.
	Bluetooth® signal weak	Check the signal strength of the App, make sure there are no obstructions blocking the signal, and then try to connect again.
Compressor often works without receiving the inflation command	The system leaking	Check for leaks and correct them. Allow the system to warm up in a cold environment. Refer to the AIR TIGHTNESS TEST section of the user manual for details.
System does not work after ignition	The fuse not connected	Check the fuse adapter and fuses. Connect to the manifold to wake up the system by using the remote controller or mobile App.
System unable to maintain ride height	Compressor disconnect	Check that the wiring harness is properly connected. Replace the fuse. If the fuse burns out repeatedly, check the system for short circuit.
	Air line blocked	Check for frozen moisture in the air lines.
	Vehicle may be overloaded	Choose an appropriate air spring kit that can carry vehicle load, remove the heavy objects and readjust.
System does not deflate when commanded to deflate	Voltage too high	Check the vehicle battery. It is recommended to start the vehicle before operating.
	Voltage too low	Check the vehicle battery and charging system. After finding the cause, connect the air conpressor system.

PROBLEM	CAUSE	SOLUTION
System does not deflate when commanded to deflate	Manifold temperature too high	Check the signal strength of the App, make sure there are no obstructions blocking the signal, and then try to connect again.
	Manifold temperature too low	There is moisture in the system. Low temperature will cause the system to freeze and block the system pipes. Heat up the system or use a heat gun (60 degrees) to heat the system to above 0 degrees 10 degrees.
	Intake pressure is too high	The inside of the manifold is blocked, remove the intake air line of the manifold and clean out the foreign matter.
Compressor not running when commanded to inflate	Air line blocked	Check for frozen moisture in the air lines.
	Voltage too high	Check the vehicle battery. It is recommended to start the vehicle before operating.
	Voltage too low	Check the vehicle battery and charging system. After finding the cause, connect the air conpressor system.
	Duty cycle limited	Allow the compressor to sit idle until it cools down for 15 minutes.
	Intake pressure is too high	The inside of the manifold is blocked, remove the intake air line of the manifold and clean out the foreign matter.
	Compressor disconnect	Check that the wiring harness is properly connected. Replace the fuse. If the fuse burns out repeatedly, check the system for short circuit.
	Manifold temperature too high	Continued operation or high temperatures may cause system failure. Allow the system to cool down and keep away from heat sources.
	Manifold temperature too low	There is moisture in the system. Low temperature will cause the system to freeze and block the system pipes. Heat up the system or use a heat gun (60 degrees) to heat the system to above 0 degrees 10 degrees.
	Compressor current overloaded	Check the vehicle battery and charging system. Remove the compressor power supply wire and check whether the wire voltage is normal. Check for frozen moisture in the air lines from the compressor to the manifold.
	Compressor current insufficient	Check the vehicle battery. Check that the wiring harness is properly connected. Remove the compressor power supply wire and check whether the wire voltage is normal.

AIR TIGHTNESS TEST

- Once the air spring bag has been inflated, check all air line fittings for air leaks. Spray the soapy water on the air fittings. If there is a leak, you'll see the expanding bubbles around the leaking area.



- If leaking is at the tubing connection, check that you have a square cut and that the tube is fully inserted into the air fitting.
- If you find a leak where the air fitting screws into the spring, tighten the fitting another quarter turn and spray again.

Before driving, make sure the system has no leaks and can hold air, and the air lines and wiring harnesses are tied tightly.

REGULATORY INFORMATION

Product Name: Air controller kit
Model: PIC-001
Manufacturer： MaXpeedingRods
Rated Voltage:
FCC ID: 2AC7Z-ESP32WROOM32E
IC ID: 21098-ESPWROOM32E
1. North American
FCC Compliance Statement:
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1) This device may not cause harmful interference, and
2)This device must accept any interference received, including interference that may cause undesired operation

2. European Union
Declaration of Conformity:
This declaration of conformity is issued under the sole responsibility of the manufacturer (or installer) maxpeedingrods;
We, the undersigned, hereby declare that the product described above conforms to the following European directives and regulations:
1) Radio Equipment Directive (RED) 2014/53/EU.
2) Waste Electrical and Electronic Equipment (WEEE) Directive 2012/19/EU.
3) European Economic Operator Regulation (EU) 2019/1020

Manufacturer	CHONGQING GUOGUI RACING TECHNOLOGY CO., LTD
	NO. 8 FENGQI ROAD, CAIJIAGANG TOWN, BEIBEI DISTRICT, CHONGQING (FREE TRADE ZONE) CHINA
	support@maxpeedingrods.com
EC REP	Apex CE Specialists GmbH
	Grafenberger Allee 277, 40237 Düsseldorf, DE
	info@apex-ce.com
UK REP	APEX CE SPECIALISTS LIMITED
	6f East Union Street, Manchester, England, M16 9AE
	info@apex-ce.com

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Since 2006