AIRMASTER

PERFORMANCE



AIR MANAGEMENT X6

MODULAR INTELLIGENT
AIR MANAGEMENT SYSTEM

[USER'S MANUAL]

V.0.2

STATEMENT

ELECTRIC SAFETY

1. The circuit must be disconnected during the installation of the system. When the system is assembled and the circuit conforms to the installation standard,then the closed circuit can supply power for the system;
2. Please disconnect the circuit before the vehicle to be electrified and other high-power electric appliances connected with battery to prevent the system electric control from being damaged due to excessive instantaneous current. lf the electrical control part of the system is damaged due to disobey the instructions in this manual.The device will not be included in the after-sales scope when applying for maintenance.
3. If the vehicle does not use for a long time, it is recommended to disconnect the circuit;
4. When the system failed to work, please check the system and make sure that the circuit is closed,the MCU fuse is normal, then troubleshoot other possible issues.

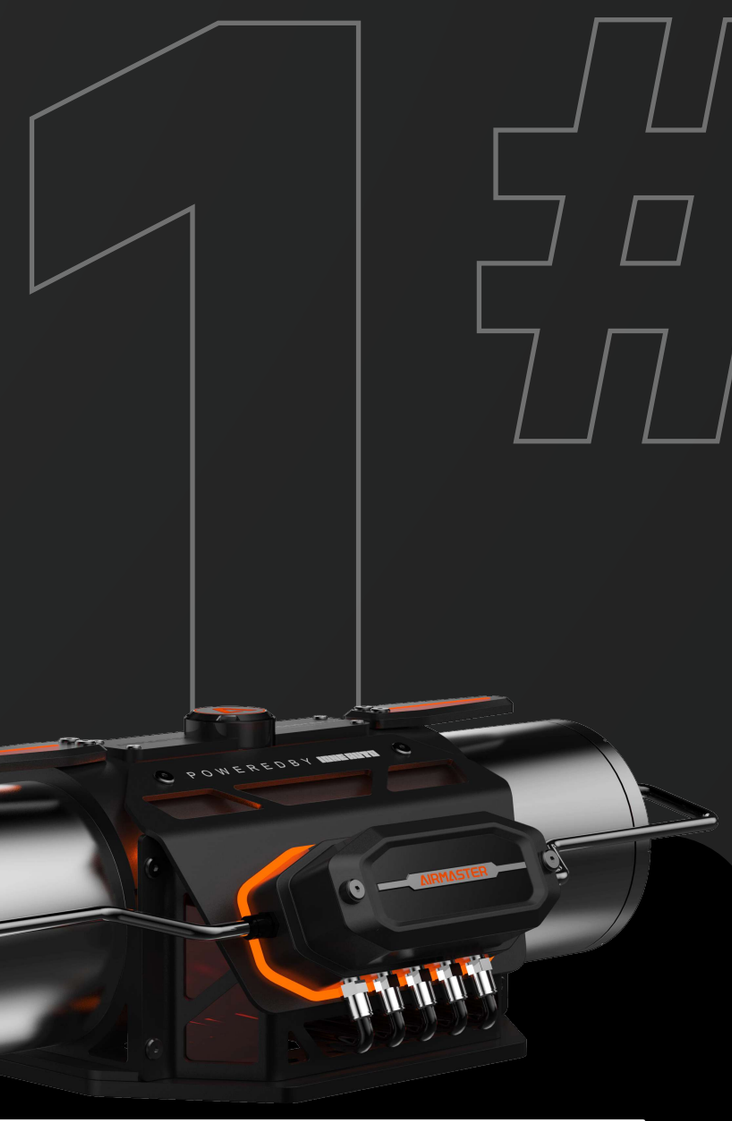
INSTALLATION TIPS

1. Please avoid the exhaust unit of the vehicle from the high temperature to protect the wiring design of the pipeline, power line and sensor signal line;
2. When connecting and inserting the air tube, please make sure that the incision of the air tube is smooth and be inserted at the bottom.

QUALITY ASSURANCE

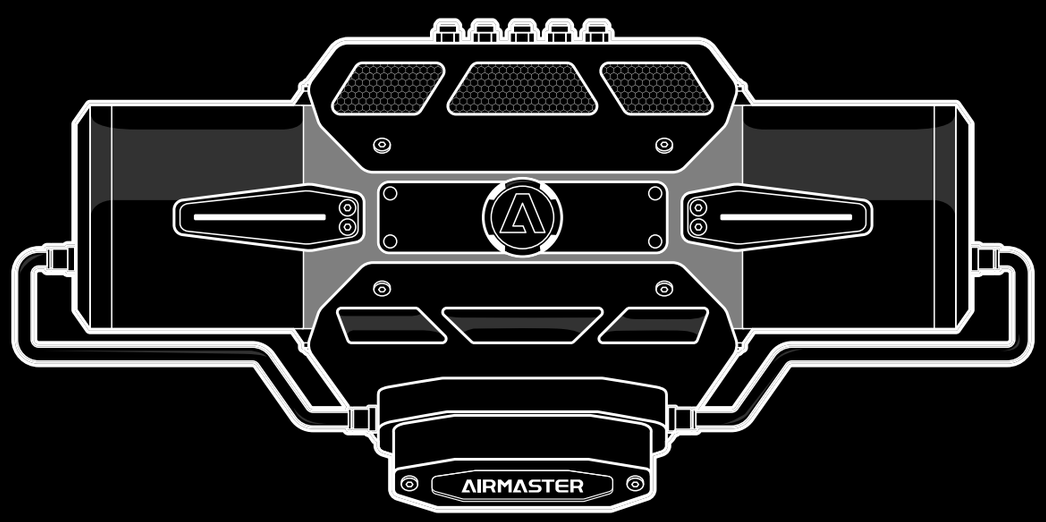
1. The warranty of the system takes effect from the activation date and the host, height sensor and rotary remote control are all guaranteed for one year;
2. For more extended warranty plans, please contact the dealer for details;
3. The wearing spare parts used in routine are not within the warranty scope.

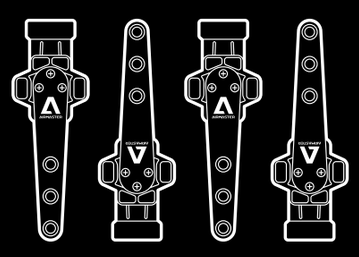
PRODUCT INTRODUCTION



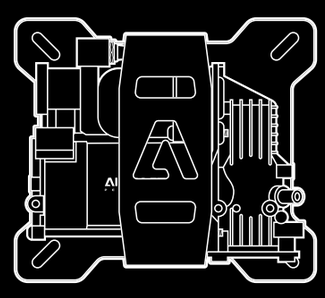
X6 MASTER MECH KIT

X6-HPG MECH KIT+HEIGHT SENSOR+
PRESSURE SENSOR KIT INCLUDE



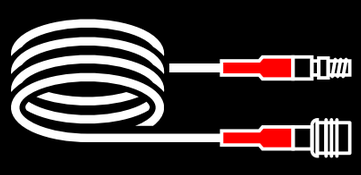


Air Management

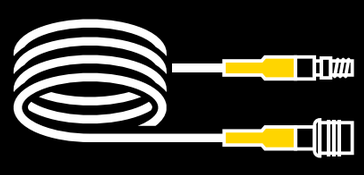


Height sensor

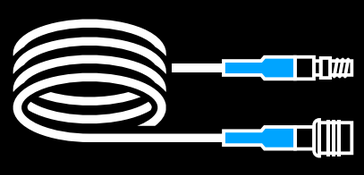
Compressor set



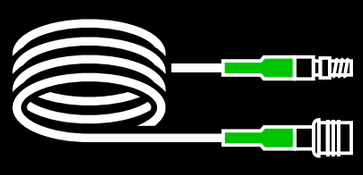
Height sensor wiring -1



Height sensor wiring -2



Height sensor wiring -3



Height sensor wiring -4



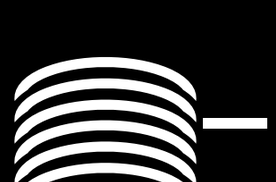
Power cord



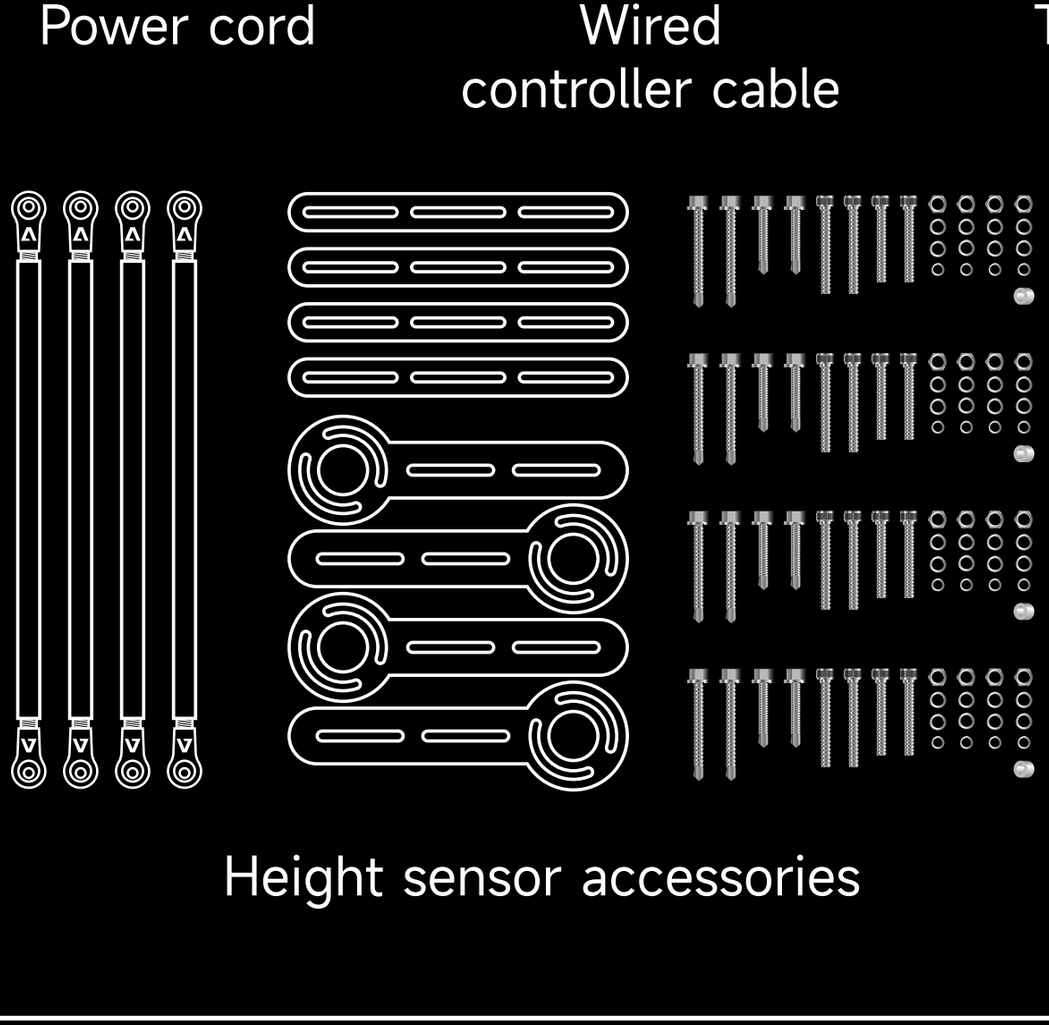
Wired controller cable



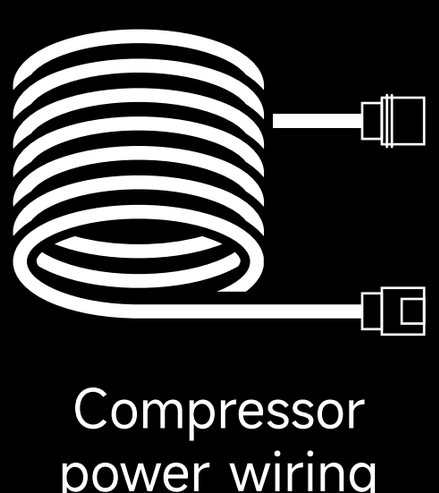
Type-C



6mm Air line



Height sensor accessories



Compressor power wiring

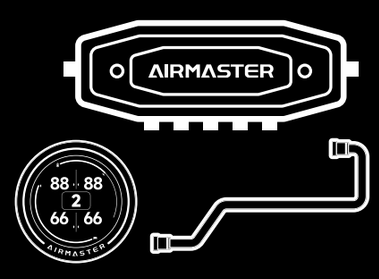
PRODUCT INTRODUCTION

2#

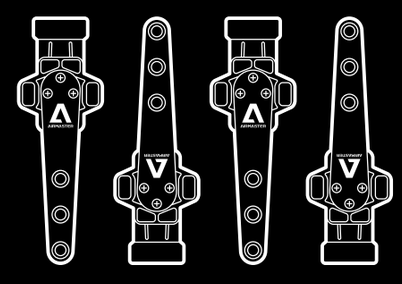


X6 STANDARD KIT

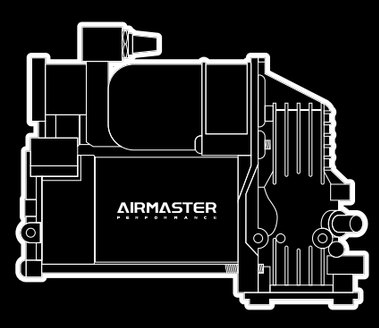
X6-HPG HEIGHT SENSOR+ PRESSURE SENSOR SET INCLUDE



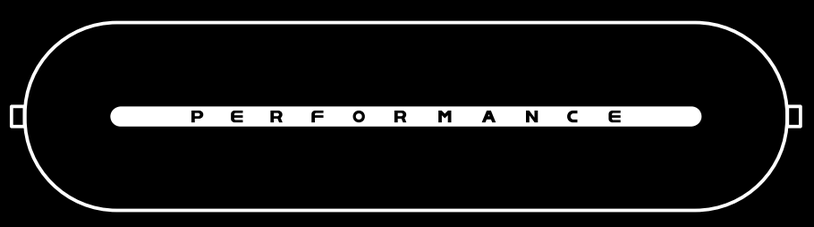
Air Management



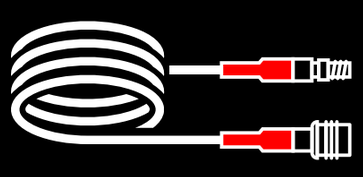
Height sensor



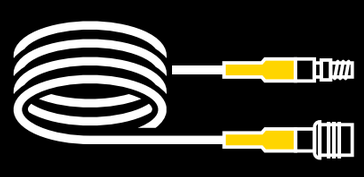
Compressor



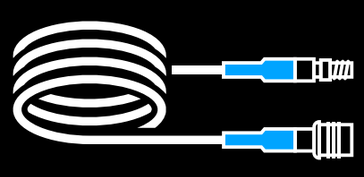
Seamless all aluminum spining tank



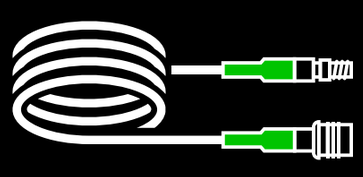
Height sensor wiring -1



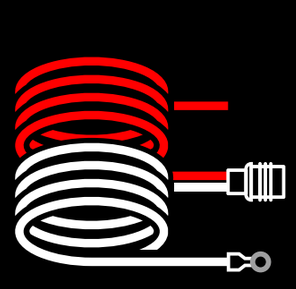
Height sensor wiring -2



Height sensor wiring -3



Height sensor wiring -4



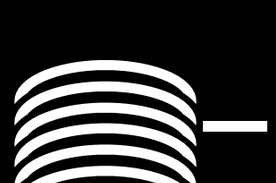
Power cord



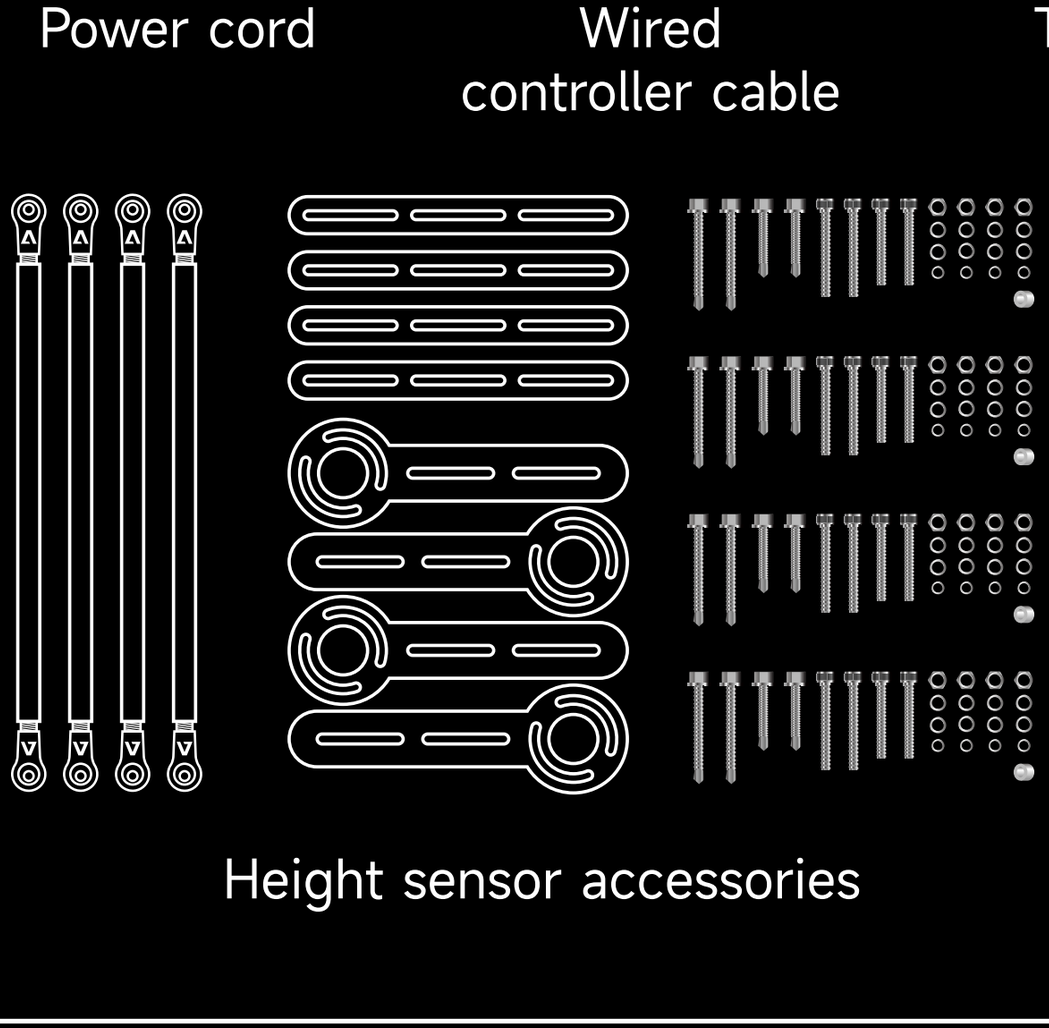
Wired controller cable



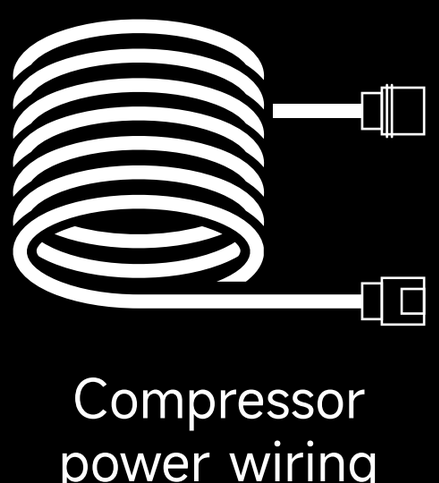
Type-C



6mm Air line



Height sensor accessories



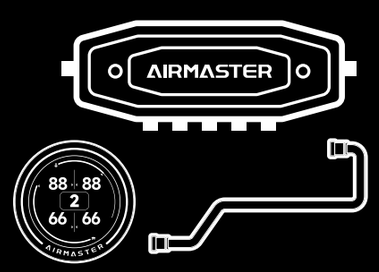
Compressor power wiring

PRODUCT INTRODUCTION

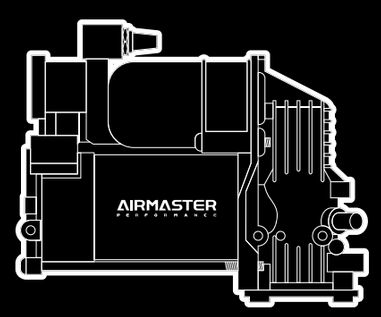


X6 AIR MANAGEMENT KIT

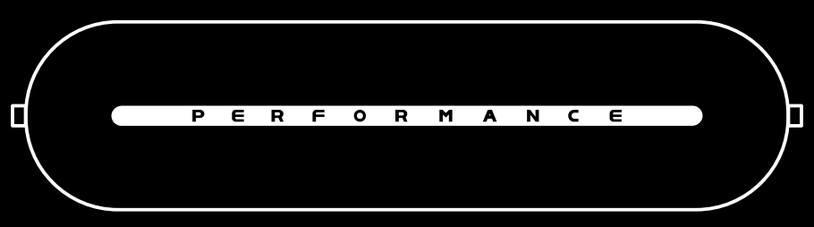
X6-PG PRESSURE SENSOR KIT INCLUDES



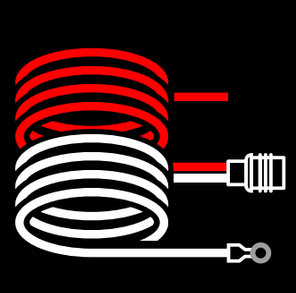
Air Management



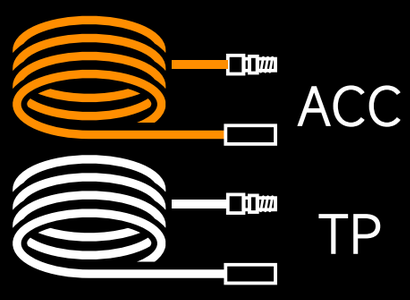
Compressor



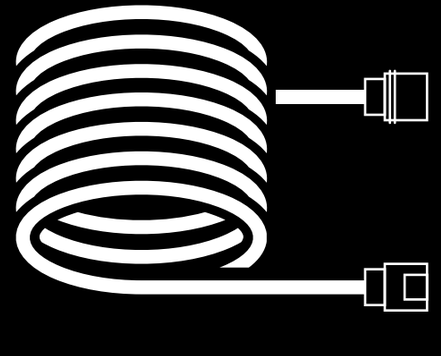
Seamless all aluminum spining tank



Power cord



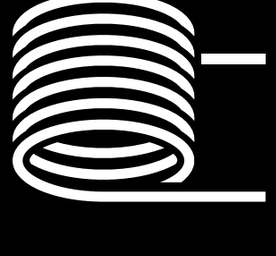
Wired controller cable



Compressor power wiring



Type-C



6mm Air line

LINE CONNECTION

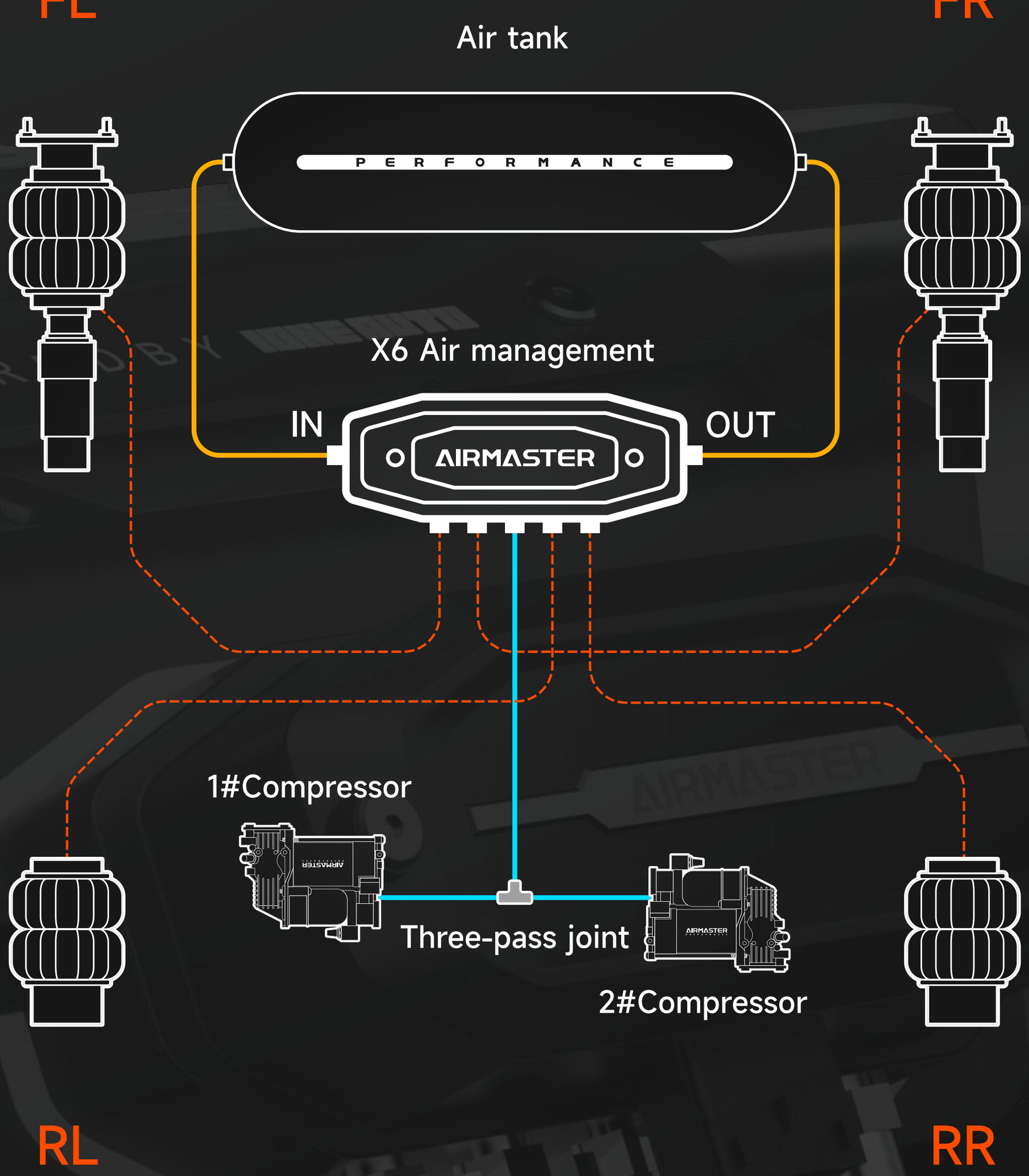
Please choose the wiring circuit to install according to the actual order kit

1.[Piping diagram]
2.[Height sensor kit circuit diagram]
3.[Pressure sensor kit circuit diagram]
4.[HUB circuit diagram]

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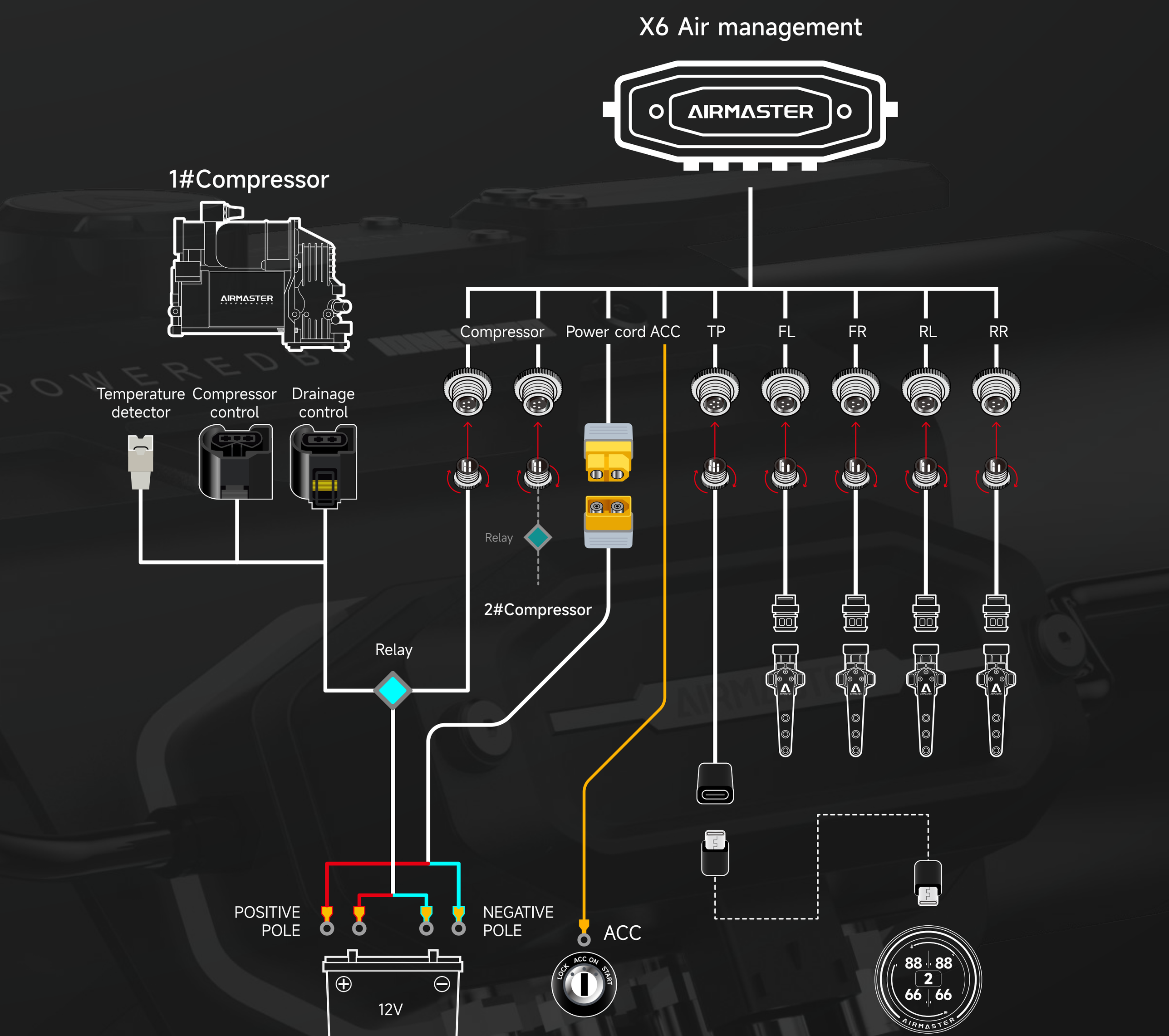
PIPING DIAGRAM



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PERFORMANCE

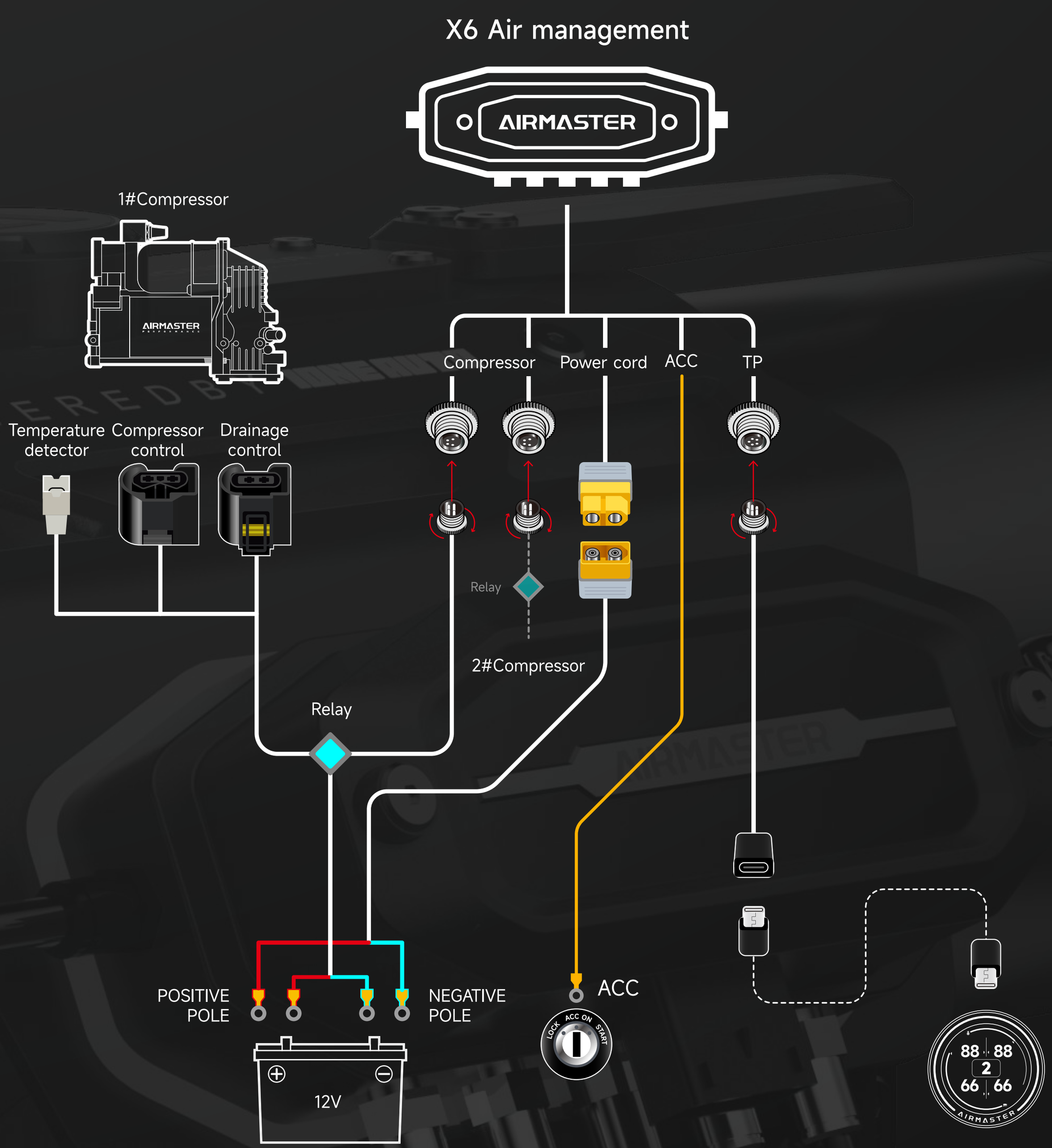
HEIGHT SENSOR KIT CIRCUIT DIAGRAM



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PERFORMANCE

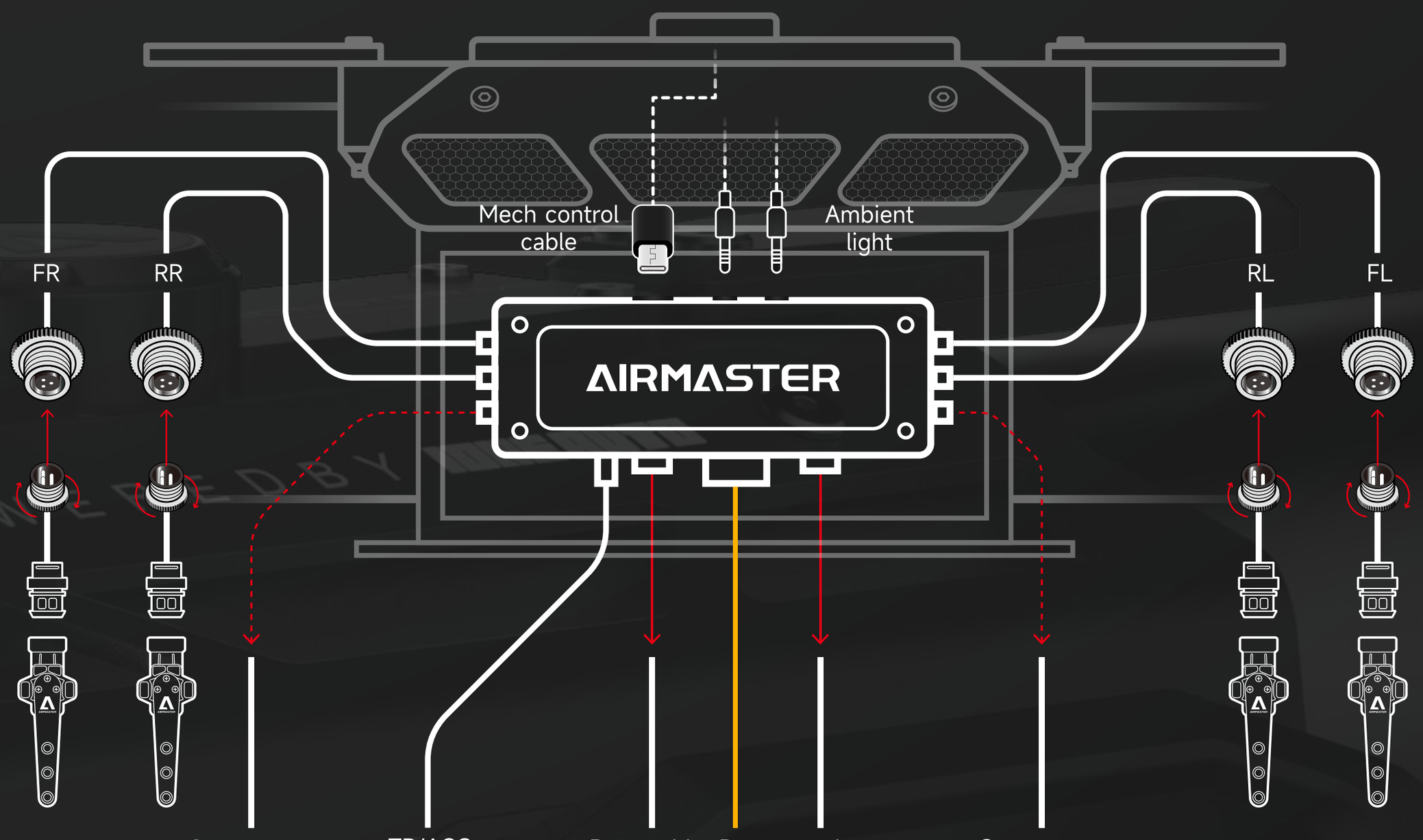
PRESSURE SENSOR KIT CIRCUIT DIAGRAM

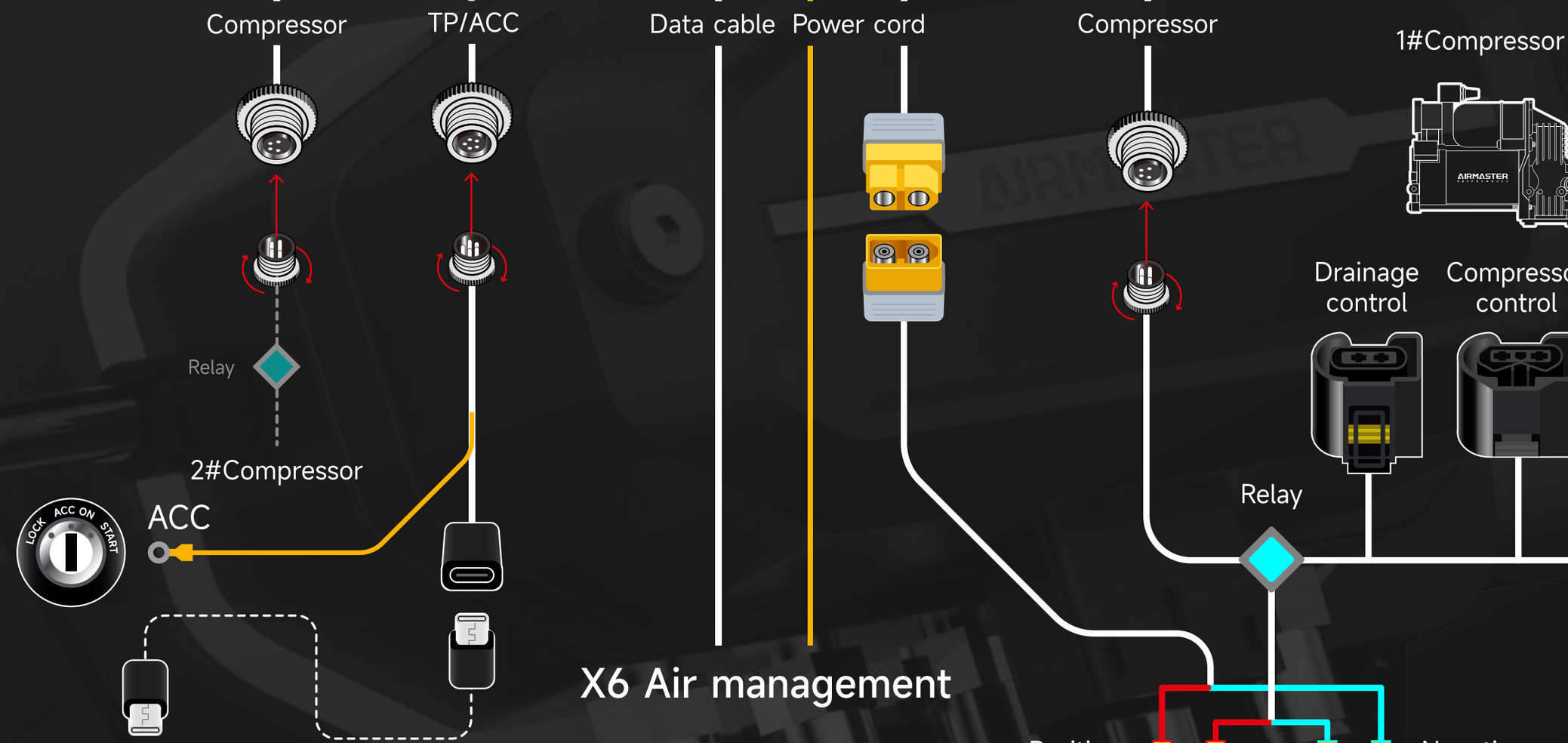


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PERFORMANCE

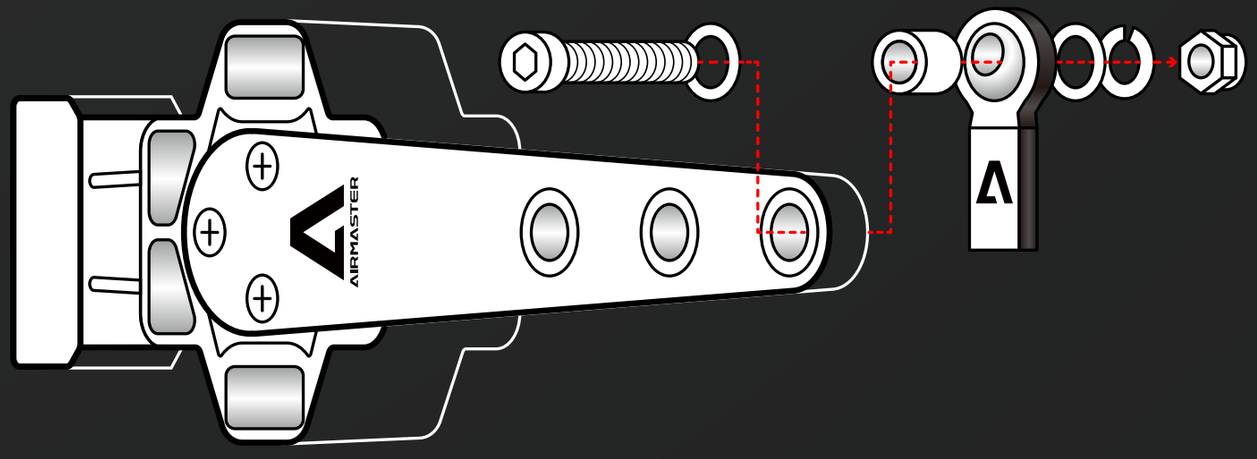
PRESSURE SENSOR SET CIRCUIT DIAGRAM





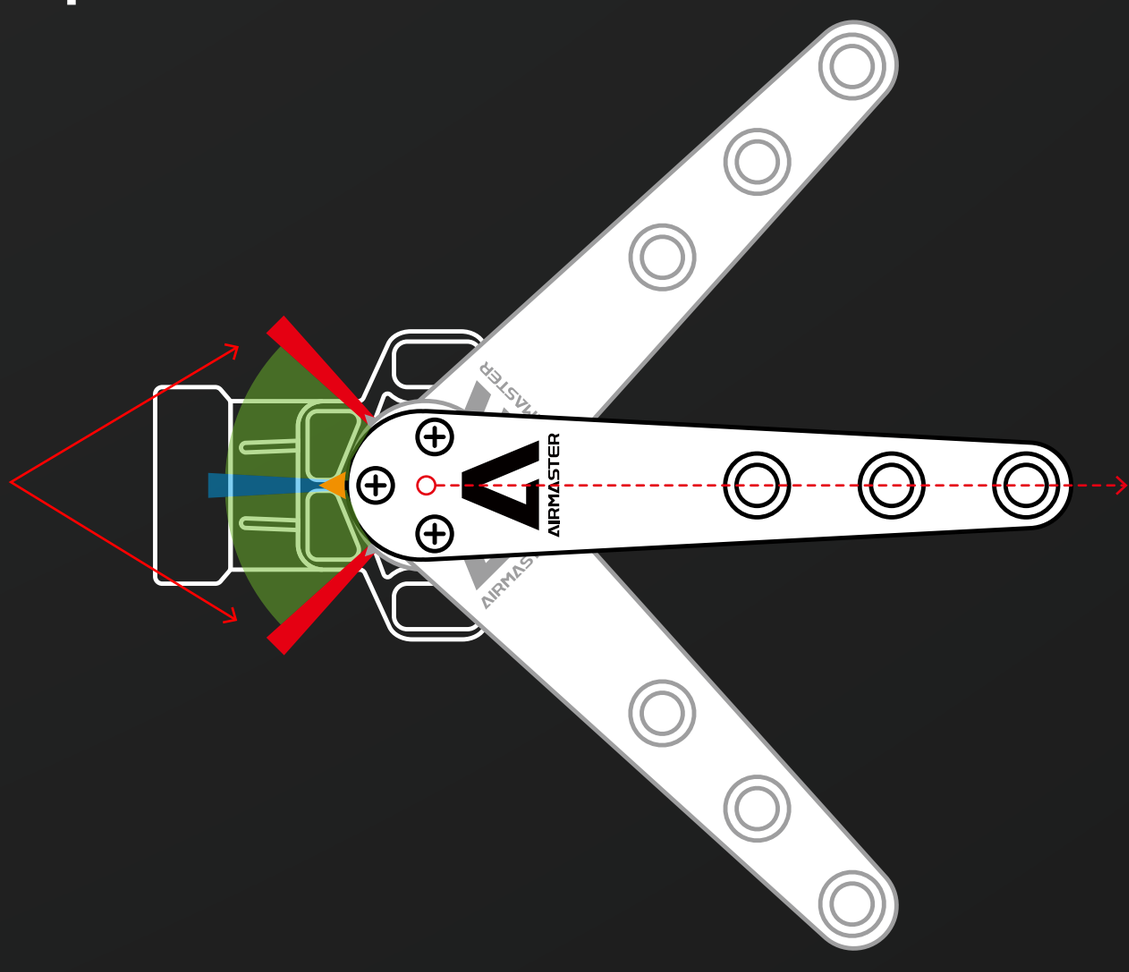
Installation Instruction

1.Height sensor assembly diagram



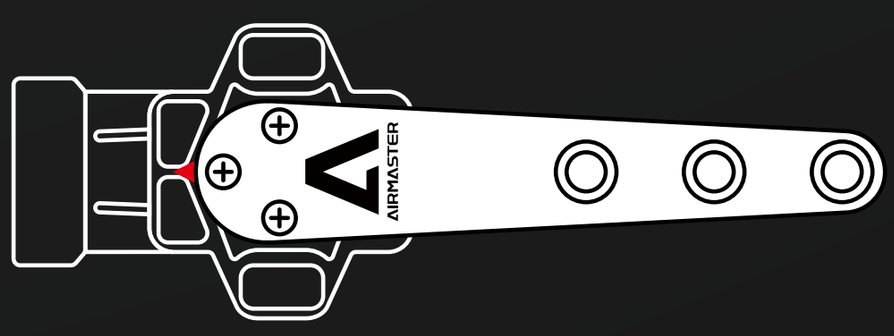
2.Height sensor effective span instruction

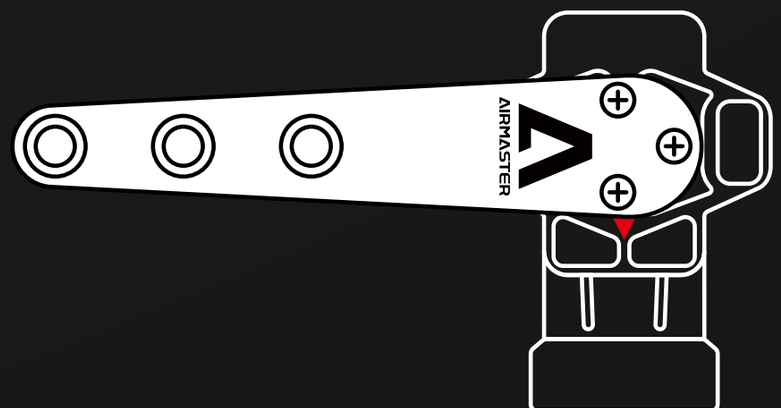
The arrow stroke must not exceed the area indicated by the red border

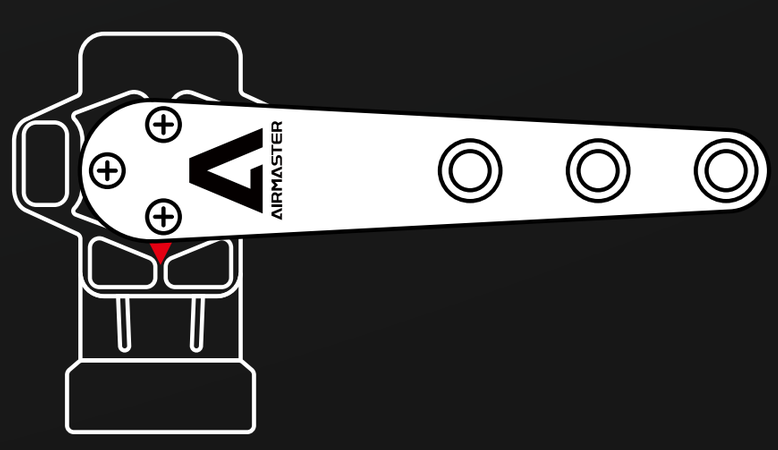


3.Height sensor crossarm disassembly instruction

Depending on height sensor position, the three screws of the height sensor's cross arm can be unscrewed, the cross arm can be removed and the position adjusted as required, noting that the arrow position must always be towards the side of the terminal.







4.Height sensor installation location

①The height sensor is installed on the car body, and the sensor connecting rod is mounted on the suspension swing arm. During the adjustment of the vehicle height from the lowest point to the highest point, the swing arm will float up and down and by selecting the three different holes on the transverse arm of the sensor, the sensor will also have three different travel ranges.The final travel range to choose needs to be within the effective range requirements. If the strokes do not match, the strokes can be adjusted by adjusting the length of the connecting bars and selecting different mounting holes for the cross arms.

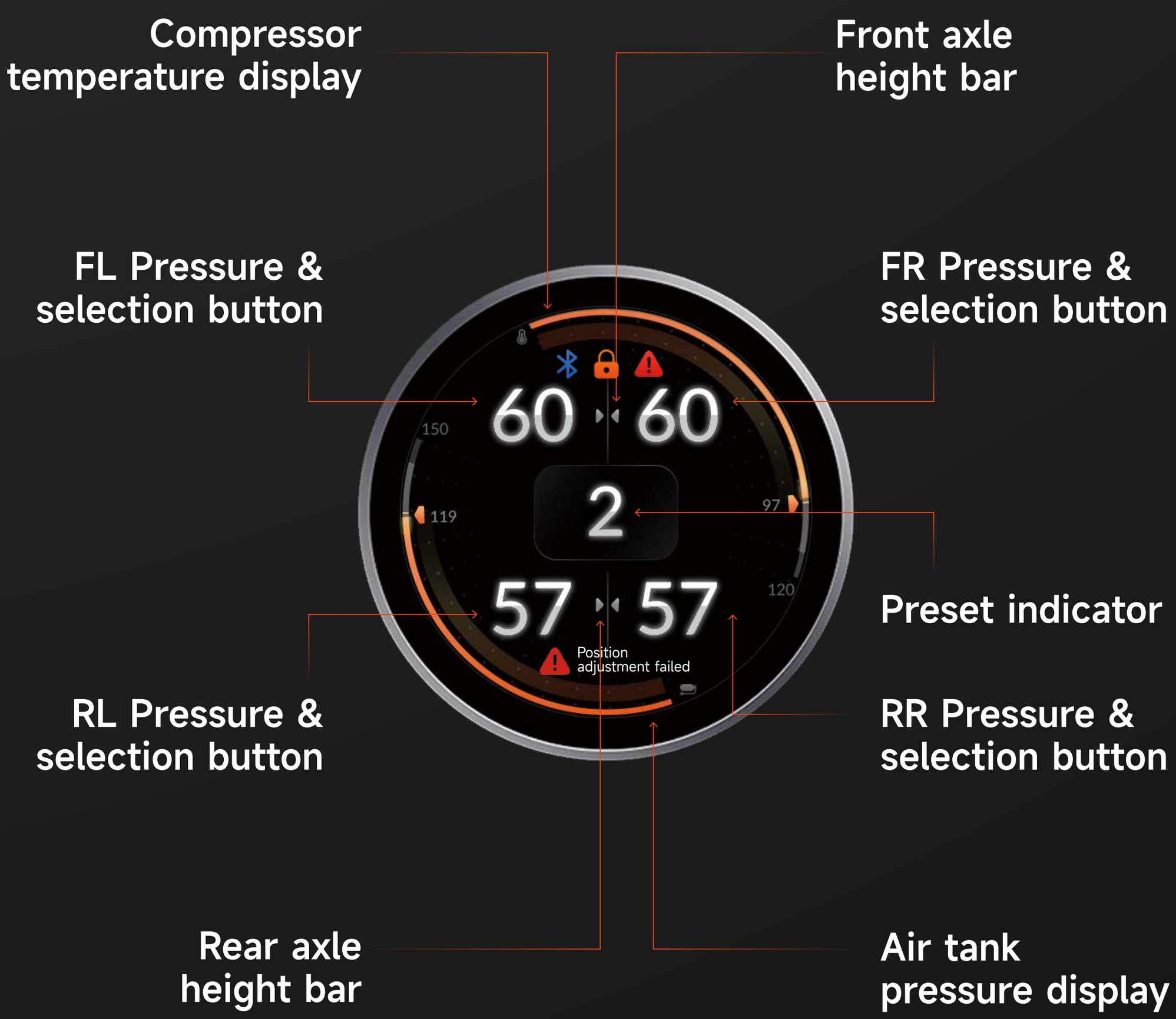
②The height sensor can be installed in the direction according to the actual situation, the left and right sides of the vehicle can be installed in the same direction, or in different directions. the system will automatically adjust the parameters after self-testing, so that the display parameters remain in the same way.

DIRECTIONS FOR USE

Rotating-touch controller logic

1.The description of the informations on the main screen:

Attention The rotating-touch controller is prohibited from connecting to any type-c interface (such as power bank, charger, etc.) other than the X6 controller to prevent burning the device.



2.Submenu Instructions



Bluetooth connection: This icon is a Bluetooth switch: blue is on, gray is off.

Motion Lock: Tap the icon to change color, the function enabled. After the icon is turned on and the vehicle is moving, the remote control cannot be operated to lift and shift , only the setting can be changed by temporarily unlocked if the vehicle is stationary.

Active drying: Click this icon to manually operate the drying function (in addition to manual operation, the system will also determine whether to automatically trigger this function according to the humidity in the air tank).

Manual air replenishment: After clicking the icon, the system starts to replenish the air, and then click the icon again to stop the gas replenishment.

Load Balancing: After clicking the icon, the system will automatically level the vehicle when the vehicle height changes due to load changes.

Altitude Memory: Click this icon to enter the height preset setting interface, which can be highly customized for low, 1, 2, 3, and 4 Preset.

3.Home screen operate Instructions

The outer ring knob function :

1.In the standby mode of the home screen, rotate the outer ring to select the gear, each gear is shown in the figure below.



2.In the standby mode of the home screen, rotate the outer ring to adjust the height. Operation way : Click on a single or township (front left, front right, rear left, rear right) pressure number, click it when it turn into orange that the selection is successful, you can start to rotate, clockwise for up, counterclockwise for down.





Click it to adjust the preset.
when the color change from orange into grey,the adjustment is taken effect

The outer ring needs to be physically rotated for various operations



Click the number can raise and lower air suspension absorbers individually, rotating outer ring to adjust until the color is changed.

Menu navigation

1.Menu list display and description

Home screen menu operation	Submenu	Function introduction
[↑ Swipe up] Quick access interface	Bluetooth	Click this icon to turn on the Bluetooth switch, blue on, gray off.
	System lock	When this function is enabled, the remote control cannot be used when the vehicle is moving, and the vehicle will be automatically unlocked when it is stopped. When this function is turned off, the remote control does not lock.
	Active drying	Click this icon to manually operate the height preset (in addition to manual operation, the system will also determine whether to automatically trigger this function according to the humidity in the tank).
	Manual air replenishment	After clicking the icon, the system starts to replenish the air, and then click the icon again to stop the gas replenishment.
	Load balancing	After clicking the icon, the system will automatically level the vehicle when the vehicle height changes due to load changes.
	Height setting	Click this icon to enter the height preset setting interface, which can be highly customized for low, 1, 2, 3, and 4 preset.
[↓ Swipe-down] Fault display	Alarm Information Bar	It can display all the alarm information of the system, including various height sensor failures, air leakage warnings, temperature abnormal reminders, system alarms and other information displays, and click "clear" to eliminate occasional faults.
[← Swipe Left] Manual operation interface	Manual operation	Front: The height of the left front axle and the right front axle can be manually adjusted separately, or the height of both front axle can be manually adjusted at the same time.
		Rear: Manual height adjustment can be performed on the left rear axle and the right rear axle individually, or manual height adjustment can be performed on both rear axle at the same time.
[→ Swipe right] Menu settings	Feature settings	1. Language selection: Chinese, English;
		2. Brightness setting: the overall brightness of the screen can be adjusted;
		3. Key settings: key sound and key vibration can be turned on or off;
		4. Bluetooth setting: It can be connected to the mobile APP or bracelet through Bluetooth.
	System settings	1. Air tank pressure: set the high and low pressure values of the air tank to control the pressure preset of the air compressor to open and stop working;
		2. height memory setting: LOW, 1, 2, 3, 4 presets can be set at height;
		3. Battery protection: 16V high voltage protection switch, low voltage protection (9-12V customizable);
		4. Minimum driving protection: set the minimum protection air pressure value of the front and rear axle in the driving state of the vehicle, the unit is (PSI). After setting, no matter what mode is adjusted, the air pressure value will not be lower than this value (the function does not take effect in the stationary state);
		5. Start and flame-out settings: ignition setting linkage preset(1-4 preset optional), flame-out setting linkage gear (Low-4 mode optional);
		6. Service mode: Turn on this function to stop the compressor from working, and system maintenance can be carried out at this time:
		7. Pressure balance: After opening, when the vehicle reaches the gear height, the left and right axle pressure balance will be carried out to make the pressure in the airbags on the left and right sides of the vehicle as close as possible.
	System calibration	1. Manual calibration: the system automatically detects the sensor and sets 5 different height preset,but the upper and lower limits of the vehicle height need to be manually set;
		2. Automatic calibration: The system automatically detects the sensor, detects the upper and lower limits of the vehicle height, etc., and set 5 different height preset.
	About	System version

2.Manual self-test and calibration self-test

The system self-test is divided into manual and automatic, it is recommended to use automatic to complete the system self-test, height sensor calibration , the calibration process will re-calibrate the range of the height sensor. The height sensor will also be adjusted to ensure that the final effect meets the normal driving requirements.



Manual calibration

Manual calibration is to set the minimum and maximum height of the vehicle by manually replenishing air when the target height cannot be reached by automatic self-check. The rest of the inspection steps and calibration are still done automatically by the system, and no additional setup is required manually.



Manual set the minimum height

Manual set the maximum height

Automatic calibration

The automatic calibration will automatically set the maximum and minimum height of the vehicle and automatically detect the sensor status and other system status. If the calibration fails, adjust it according to the system prompts.



3.Key functions

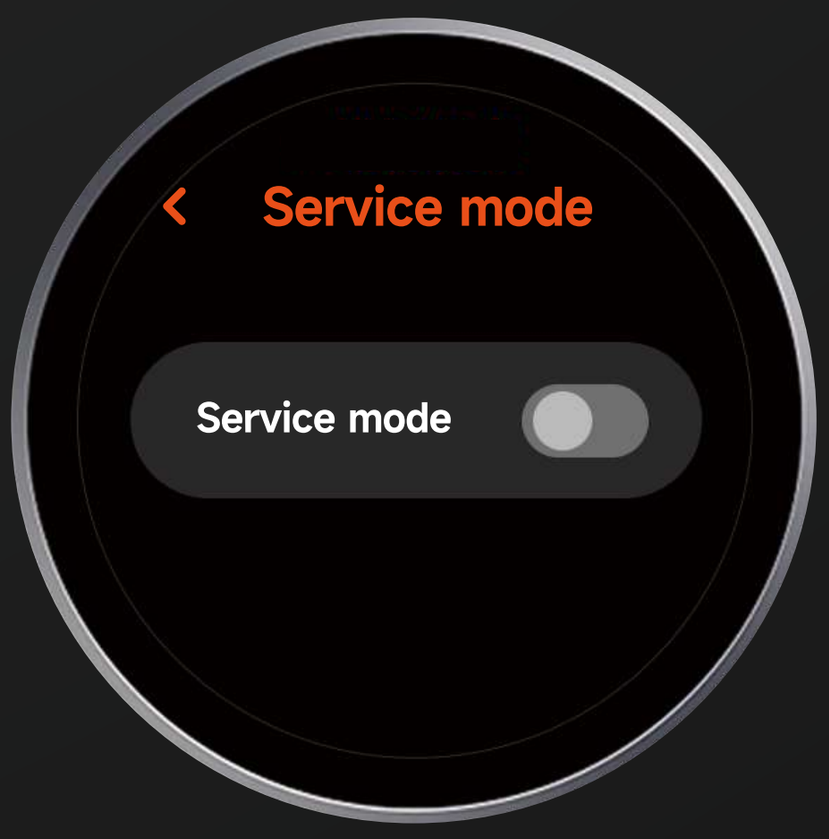
Driving protection

The minimum air suspension air pressure for the front and rear wheels can be set when the driving protection function activated. The purpose of this function is to ensure that the shock air pressure is not lower than the preset air pressure during driving if there is physical damage to the height sensor, so as to ensure a safe journey to the destination. Therefore, the air pressure of this item should be set by field measurement, for example, when the vehicle can drive and steer normally when the minimum shock pressure of the front and rear wheels is 40 PSI, 40 PSI can be set as the minimum protective air pressure. In the event of sudden damage to the altitude sensor or other sensors, the air pressure will not drop below 40 PSI to ensure safe driving.



Service mode

Activate the Service mode mode function, which can prohibit the compressor from working during vehicle maintenance. This function is designed for the purpose of venting the air tank during vehicle maintenance, or the air compressor may be required to fill air for the time being. If you need to vent the air tank, you can turn on the service mode first, and then click "Active Dry" on the rotating- touch controller to exhaust the air tank, and the pressure in the air tank can be reduced to 0 after multiple exhausts.



Pressure balance

The pressure balance function has two options in the menu, which are Pressure priority, Height priority.The pressure priority is to adjust the air pressure on both sides to the same as much as possible when the height reaches the target value, and there may be a height tolerance of 3~5 mm on the left and right sides of the vehicle. The height priority is to adjust the same air pressure on both sides as much as possible when the height is consistent.



4.Troubleshooting guide

1 SYSTEM DO NOT DISPLAY AFTER INSTALLATION

Check whether ACC wiring connection is normal check whether MCU safety deviece.

2 THE AIR TANK CAN NOT BE INFLATED

Check whether the air tank can be inflated. Eliminating the fault code can restore inflation.

3 COMPRESSOR MALFUNCTION

The compressor may not be operating properly, please go to the installation garage for troubleshooting.

4 HEIGHT SENSOR MALFUNCTION

Physical damage to the height sensor or the suspension stroke is not set reasonably,which caused the vehicle to be raised/lowered during the process and no value change displayed on sensor.

5 BATTERY VOLTAGE LOW

Due to the start of the compressor,the battery volatage is lower than system volatage protection value that caused the system warning.The warning will automatically stop when the voltage is restore.

6 SELF-TEST IS INTERRPUTED

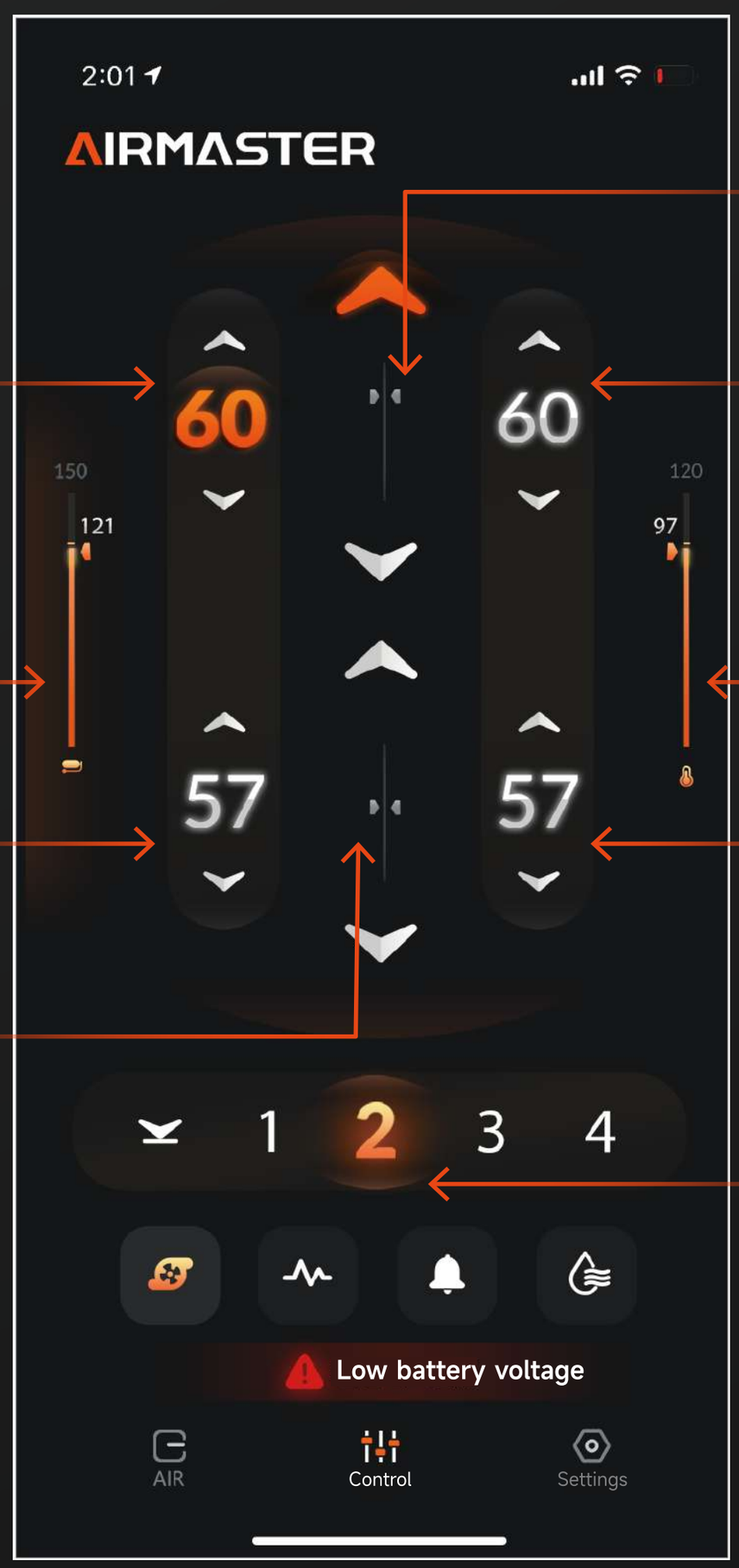
During the self-test, when it is interrupted,but there is no reason to remind,please check if the battery voltage is higher than 12v.

APP operation

1.APP download

IOS&Andriod download

2.APP interface introduction



Front axle height bar

FL Pressure

FR Pressure

Air tank pressure display

Compressor temperature display

RL Pressure

RR Pressure

Rear axle height bar

Preset indicator

3.Function description



Home screen menu operation	Submenu	Function introduction
Menu settings	Feature settings	Open bluetooth to quick connect the device
	System settings	1. Air tank pressure: set the high and low pressure values of the air tank to control the pressure range of the air compressor to open and stop working;
		2. height preset setting: LOW, 1, 2, 3, 4 preset can be set at height;
		3. Battery protection: 16V high voltage protection switch, low voltage protection (9-12V customizable);
		4. Minimum driving protection: set the minimum protection air pressure value of the front and rear axle in the driving state of the vehicle, the unit is (PSI). After setting, no matter what mode is adjusted, the air pressure value will not be lower than this value (the function does not take effect in the stationary state);
		5. Start and flame-out settings: ignition setting linkage modes (1-4 preset optional), flame-out setting linkage preset (Low-4 preset optional);
		6. Service mode: Turn on this function to stop the compressor from working, and system maintenance can be carried out at this time:
		7. Pressure balance: After opening, when the vehicle reaches the preset height, the left and right axle pressure balance will be carried out to make the pressure in the airbags on the left and right sides of the vehicle as close as possible.
	System calibration	1. Manual calibration: the system automatically detects the sensor and sets 5 different height preset, but the upper and lower limits of the vehicle height need to be manually set;
		2. Automatic calibration: The system automatically detects the sensor, detects the upper and lower limits of the vehicle height, etc., and sets 5 different height preset.
	About	1.Check for updates 2.Device activation