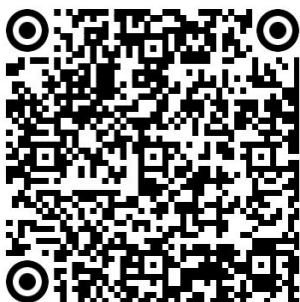


Bluetooth Brake Control

This manual contains important information, and anyone who installs this unit for others to use must keep this manual with the owner and not throw it away.

Software Download

- 1 Please go to the Google Play Store or App Store to search for Shyion download.
- 2 Scan the QR code below to download.



Google App Store



APP Store

Hardware install

- 1 When the trailer is parked on a level road surface, insert the trailer's 7-way connector into the equipment brake control system. After inserting the brake control and starting the vehicle, the device will self-calibrate for 5-8 seconds, during which time the LED will flash yellow. Do not move the device during calibration. Once the device is calibrated, the LED will turn pure green.
- 2 If the LED does not light up, there may be no +12V power supply for 7 channels.

Bluetooth connectivity

- 1 Ensure that Bluetooth Brake Control-1 is installed and powered on
- 2 Select the Bluetooth Brake Control-1 on the mobile device to connect
- 3 Once the connection is complete, you can return to the homepage.

Attention: If the connection fails, please power off and restart the Bluetooth Brake Control-1. When attempting to connect with a mobile device, if the connection fails multiple times, please copy the code of the failure result and contact us through the customer service of the mobile device.

Explanation of device indicator lights

- 1 Trailer connected, Bluetooth not connected: green light flashing
- 2 Trailer connected, Bluetooth connected: green light constantly on
- 3 Trailer not connected, Bluetooth not connected: Blue light flashing
- 4 Trailer not connected, Bluetooth connected: blue light stays on
- 5 Equipment hardware failure: Red light constantly on

Fault table

condition	Reason for the problem	solve the problem
LED does not light up	No brake control power supply, no ground vehicle 7-way	Check the vehicle power and grounding wire. Trailer mode is not activated. The vehicle needs to be towed to activate the 7-way power supply
The red LED light is always on	Hardware malfunction	contact us
No trailer brakes, pedals, or manual devices	1. Mis-wired 7-way connector 2. Improper or corroded trailer wiring 3. Weak or missing ground	Confirm vehicle and trailer 7-way connections
No trailer brake, pedal or manual switch (device error notification)	Trailer connection loss, open circuit or poor wiring	Confirm vehicle and trailer 7-way connections
Manual loading or braking output does not respond	1.Mis-wired 7-way connector 2.Improper or corroded trailer wiring 3.No or intermittent power to brake control 4.Weak or missing ground 5.Wireless connectivity error	Confirm vehicle and trailer 7-way connections Check Bluetooth and application settings
Reduced braking power on manual override or brake output	1.Weak or missing ground 2.Improper max power or sensitivity settings 3.Improper or corroded trailer wiring	1.Confirm vehicle and trailer 7-way connections 2.Check Bluetooth and application settings 3.Increase max power or sensitivity settings
App signals "low voltage"	Low battery voltage	1.Check vehicle battery and replace if needed 2.Confirm vehicle 7-way connections and wiring
App signals a "disconnect"	Trailer connector is disconnected	1.Reconnect the trailer connector 2.Confirm vehicle 7-way connections and wiring
Wireless disconnect	1.Mobile device disconnected while driving 2.No or intermittent power to brake control	1.Stop the vehicle and reconnect to mobile device 2.Confirm vehicle 7-way connections

Application Settings

1 After the mobile device is successfully connected to Bluetooth Brake Control-1, multiple vehicle configuration information can be created and saved by selecting the configuration file on the settings page.

2 When trailer conditions change or braking control is used for different trailers or vehicles, corresponding configuration files need to be selected or created.

Attention: To avoid distracted driving, the application settings must be operated when the vehicle is prohibited.

Operating instructions

The configuration file can be set in "Settings", or you can click "View" on the homepage. (Annotated as "5")

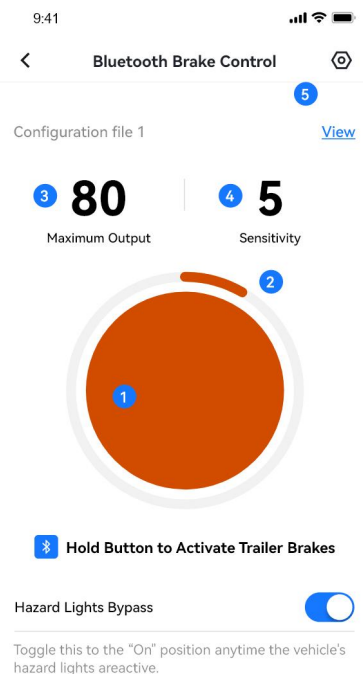
1 **Manual brake activation** is activated by long pressing the red button (marked as "1")

2 The red circle around the **current braking level** indicates the current braking output level (marked as "2")

3 The maximum level of the **maximum output** brake is set by "maximum output" (marked as "3")

4 The sensitivity of the braking power is set by "sensitivity" (marked as "4").

Note that if there is a communication error between the mobile application and the braking control, updates to the "manual braking activation", "maximum output", and "sensitivity level" settings will not take effect and will not send status notifications from the braking control. The brake control will continue to operate normally with the last saved configuration file, and will not be



affected by recent editing

settings and brake operations.

Operation explanation

1 Manual brake start

Manual brake control activation is used when deceleration is required. When manual control is activated, Bluetooth Brake Control-1 begins to apply trailer brakes, and manual output can be activated by holding down the orange button in the application.

2 Max output

Output control determines the maximum power available for trailer brakes during braking. When the trailer load changes during initial setup, when using different trailers, or when road or driving conditions change and need to be adjusted, the output should be adjusted (refer to "Application Settings" for details)

3 Sensitivity level

The sensitivity level adjusts trailer aggressiveness when activated during braking, not manual override. Sensitivity adjustment has no effect on the manual brake control. The sensitivity can be adjusted for individual driver preference, trailer load changes or changing road conditions.

4 Test drive and adjustment

Both the output and sensitivity can be adjusted to achieve smooth, firm stops. Output and sensitivity adjustments should only be made while stopped, with the transmission in park or neutral, parking brake applied, foot off the brake pedal, and no manual control actuation. Note: Perform the adjustments in a safe environment with minimal vehicle traffic.

Starting with the output adjustment, drive forward on a dry and level paved or concrete surface. At approximately 25 mph, apply the vehicle's brakes. If trailer braking is insufficient, increase the max output setting in the brake control application. If the trailer brakes lock up, decrease the max output. Repeat this process until stops are firm, just short of lock up.

Once the output is set, adjust the sensitivity by driving forward at approximately 25 mph and press the brake pedal. The vehicle and trailer should make a smooth stop. If the stop seems slow and more aggressive braking is desired, increase the sensitivity level through the brake control application. If the stop seems too aggressive, decrease the sensitivity level in the application.

Make several stops at various speeds and adjust the sensitivity until stops are smooth and firm. Slight adjustment to the output control may also be desirable. Note: If any problems occur during setup, refer to the 'Troubleshooting Guide' on the last page of this manual.

FCC Warning

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

蓝牙刹车同步器

本手册包含了重要的信息，请勿随意丢弃。

一、软件下载

1. 请微信小程序中搜索 Shyion。
2. 扫描下方二维码进入小程序。



二、硬件安装

1. 当拖车停在水平路面上时，将该设备插入您的爱车和拖车连接器之间。插入完成并启动车辆后，设备上的 LED 灯将进行校准并黄灯闪烁 3-5 秒。设备校准完毕后，LED 将变成纯绿色。
2. 如果 LED 不亮，设备和车辆可能没有接通+12V 电源。

三、蓝牙连接

1. 确保蓝牙刹车同步器完成安装并通电
2. 在 Shyion 小程序中点击右上角的+号进行设备扫描并选择该刹车同步器进行连接
3. 连接完成即可给设备命名并进入设备控制页面或者返回首页

注意：如果连接失败请对设备进行断电重启处理，在尝试用移动设备进行连接，如多次重复失败请将失败结果的设备码复制并通过客服与我们联系。

四、设备指示灯解释

1. 拖车已连接，蓝牙未连接：绿灯闪烁
2. 拖车已连接，蓝牙已连接：绿灯常亮
3. 拖车未连接，蓝牙未连接：蓝灯闪烁
4. 拖车未连接，蓝牙已连接：蓝灯常亮
5. 设备硬件故障：红灯常亮

五、设备与小程序控制介绍



1. 手动刹车

通过长按红色按钮进行手动刹车（标注“1”）

2. 当前刹车输出百分比

外围红色环表示当前刹车输出百分比（标注“2”）

3. 最大输出

刹车的最大输出由“最大输出”设置（标注“3”）

4. 灵敏度

刹车的灵敏度由“灵敏度”设置（标注“4”）

5. 双闪警示灯

当用户打开双闪的时候,请将此开关打开（标注“5”）

注意：如果小程序和设备之间发生通信错误，“手动刹车”，“最大输出”和“灵敏度”设置更新将不会生效，并且不会发送来设备的状态通知。设备将以最后一次保存的配置继续正常运行。

六、操作解释

1. 手动刹车

手动刹车是在需要减速的情况下使用的。当手动控制被激活时，设备开始应用拖车刹车，拖车会以设置的最大输出进行刹车，通过按住控制页面中的橙色按钮来激活。

2. 最大输出

最大输出用于选择拖车制动器的最大功率。在初始设置时，或着在拖车负载变化时，或者在使用不同的拖车时，或者在当道路或驾驶条件变化需要调整时，应调整最大输出

3. 灵敏度水平

灵敏度级别可以调整拖车刹车的灵敏度。灵敏度调整对手动刹车没有影响。灵敏度可以根据驾驶员个人偏好、拖车负载变化或路况变化进行调整。

七、试驾及调整

输出和灵敏度都可以调整，以实现平稳，坚定的停止。输出和灵敏度调整尽量在停车时进行。

首先进行输出调整，然后在干燥且平坦的路面或混凝土路面上行驶。以 25km/h 的速度行驶时，踩下车辆的刹车。如果拖车制动效果不佳，可在小程序中增加最大输出值。如果拖车刹车锁死，减少最大输出。重复此过程，直到刹车效果稳定，但还未达到锁死的程度。

一旦设定好输出值，可以通过以 25km/h 的速度向前形式并踩下刹车踏板来调整灵敏度。车辆和拖车应能平稳停下。如果刹车过程感觉过慢，且需要更猛烈的刹车操作，可以增加小程序中的灵敏度级别。如果刹车过程感觉过于猛烈，则可以在小程序中降低灵敏度级别。

注意：在车辆最少安全环境中进行调整。

注意：如果在安装过程中出现任何问题，请参阅本手册的“设备指示灯解释”

八、故障表

条件	问题原因	解决问题
LED 不亮	设备没有+12V 供电	检查车辆电源和接地线； 查看车辆的拖车模式是否激活；
红色 LED 灯常亮	硬件故障	联系我们
没有拖车刹车	1. 接线错误 2. 线路腐蚀或缺地	检查车辆,设备,拖车之间的线路连接
应用程序中手动刹车无反应	1. 接线错误 2. 线路腐蚀或缺地 3. 设备断电 4. 蓝牙连接错误	1. 检查车辆,设备,拖车之间的线路连接 2. 检查蓝牙是否正常连接
应用程序提示“低电压”	车辆电池电压低	1. 检查车辆电池 2. 检查设备连接
应用程序提示“拖车断开”	拖车与设备之间连接断开	1. 重新连接拖车接头 2. 检查设备连接