

折线: - - - - -



① 沿缺口位置抠开胶塞

5. 建议在使用前确保控制器与骑行台固件均为最新版本。

蓝牙控制器VS200 x1 用户手册x1 短绑带x1 绑带x1 长绑带x1

- 当重新开启控制电路时，请先停止运行，防止因运行阻力过大造成人员伤害或设备损坏。
- 清洁时请通过控制箱进行人工或遥控操作。建议使用两端的布质帘面轻轻擦拭帘表面，避免液体流入光电接收器造成损坏。
- 控制箱可与多个单元相配对，但同一单元只能安装并控制一个执行台。若需同时操作执行台，请先在控制箱内对执行台编号定址后再进行安装。
- 若出现无法正常操作的情况时，请关闭控制箱电源充足并检查是否已与其他设备保持安全距离，若仍存在问题，请重新安装，并在ThinkDriverAPP中重新将控制箱与执行台配对。
- 请定期通过ThinkDriverAPP检查设备固件更新，以确保获得最佳性能和新功能。
- 请勿擅自拆卸、撞击或维修控制箱。
- 控制箱的工作环境温度范围为0~45℃，建议存放温度范围为-10~60℃，长时间不使用请，请避免阳光直射、高湿度或腐蚀性环境。

1. 请使用附带的绑带将控制器安装在车把中央或易于操作的位置，确保骑行时手指可以輕鬆触及及握紧，且绑带未扣曲。未正确控制裝置按指示顯示：

2. 控制器適用於多種手把結構，可根據個人習慣選擇以下推薦位置進行安裝：

3. 根據手把直徑選擇合適長度的綁帶與帶夾，並調整綁帶緊度，確保控制器穩固不晃動。平行綁法貼合牢固，安裝簡便，交叉綁法牢固緊，穩定性更佳。

The diagram shows a rectangular smart lock interface with two main sections. The top section contains a '+' button and a '提示灯' (Indicator Light). The bottom section contains a '-' button and a '指示灯' (Indicator Light). To the right of the diagram is a table with two columns: '操作' (Operation) and 'LED指示灯' (LED Indicator Light).

操作	LED指示灯
唤醒	蓝灯快速闪烁1分钟。
蓝牙连接	连接成功后，蓝灯快速闪烁后常亮3秒。
充电	充电过程中，红灯常亮；电量充满后，红灯熄灭。
按键	按下按键后，若电量健康，蓝灯亮起；若电量低于20%，红灯亮起。
固件升级	升级过程中，蓝灯常亮，升级完成后自动熄灭。
重置设备	红灯快速闪烁后常亮3秒。

VS2010控制器的混合使用案例，控制电路安装完成后，请在各个控制电路中安装并配置**ThinkRider Tools** APP，并经过如下操作进行配对操作，具体步骤如下：

1. 打开**ThinkRider Tools** APP，进入“骑行者”——“骑行者信息”，连接您的智能骑行者，验证骑行者信息是否最新且正确。
2. 按下任意按钮或脚踏板，切换成功前，指示灯将以蓝色连续闪烁。
3. 接入“骑行者”——“骑行者信息”，选择并单击“骑行者信息”按钮，系统提示更新最新数据。
4. 单击“骑行者”——“骑行者信息”，选择并单击“骑行者信息”按钮，点击“配”按钮，完成配对。
5. 再次完成配对后，骑行者将自动记忆上次配对成功，下次使用时无需再次配对，将自动与上次配对成功。
6. 如需重新配对或取消配对，请在APP的“控制骑行者”中删除绑定，然后重新重复上述步骤。

注意：在配对过程中，如果出现无信号到控制器的情况，请先确认控制器电量情况并检查是否已正确连接保持供电，若无无线设备保持供电，请同时按下【1】【2】按钮以重置控制器，重置后将重新配对成功保持供电时间至少30s，灯光亮度恢复正常。

启动台与VS2003的编译器连接后,将添加“虚拟库”功能。

按照启动台,将台内可被控制或应用程序的指令自动记录皮革与档位数,使内可被控制的力变化更真实地还原到用户的速度变化。

用户可通过以下两种方式实现:

1、直接:通过力传感器的反馈,实时记录用户台力。

2、间接:在APP中设置力反馈,通过设置不同的力,用户可调整台内的力与速度变化。

虚拟库实现的两个节点是:中心速度 v_{center} ,最高速度 v_{max} ,每次模拟的力变化速度 Δv 。详细参数如左表所示:

位置	控制力变化速度	正速度	负速度	总档位数
低	5%	25个	35个	60个
中	8%	20个	15个	35个
高	12%	10个	15个	25个

虚拟库实现功能不需用户与档位数。当控制档与启动台档位连接后,系统将自动实现该功能;新建连接后,虚拟库实现功能将关闭。

注意:虚拟库功能与启动台的ERGOMETER原理上不一致,当启动台进入 ERG模式时,该功能将关闭。

5. V520 控制器具备自动开机功能。当检测到超过 30 分钟未被使用时，设备将自动进入休眠状态机以节省电量。按下任意按钮即可唤醒控制器。若控制器已与骑行台完成配对，唤醒后将自动连接骑行台并返回速度反馈功能。

2. 当虚拟速度功能激活后，可通过控制器按键进行档位调整：

按下【←】键：
降低阻力（模拟降档）

按下【→】键：
提升阻力（模拟升档）

充电口 缚带耳机
胶塞

3. 如需更换配对骑行台，可在 ThinkRider Tools APP 的“控制器”设置中解除绑定后，再重新进行配对操作。

1 Unplug along the notch position

VS200 × 1

User Manual × 1

Short strap × 1

Medium strap × 1

Long strap × 1

- Before repairing or disconnecting the controller, please stop riding first to prevent personal injury or equipment damage caused by sudden changes in the resistance of the riding platform.
- Please do not immerse the controller in water or directly connect it to power. It is recommended to gently wipe the surface of the shell with a slightly damp cloth only or wet wipe to avoid introducing the charging port or buttons.
- Please do not use the controller with a double transformer, but it can only connect to one controller on one trainer at a time. If you need to switch trainers, please first unbind in the ThinkRider Power APP and then pair again.
- Please do not connect to found. Please first ensure that it has sufficient battery power. Please check if it is connected to other devices. If the problem persists, please first unbind in the ThinkRider Power APP and then pair again in the ThinkRider TDS app.
- Please regularly check for firmware updates through the ThinkRider TDS APP to ensure you receive the best features.
- Please do not disassemble, strike or repair the controller without authorization.
- The recommended operating temperature range is 10 to 45°C, and the recommended storage temperature range is -10 to 50°C. When not in use for a long time, please avoid direct sunlight.

1. Please use the attached strap to install the controller in the center of the handlebars or a position that is easy to operate. Ensure that your fingers can easily reach the buttons while riding, and that the strap is not twisted, does not cover the controller buttons or indicators.

2. The controller is cordless and can be used with or without a cord. It can be installed at the following recommended positions based on personal preference.

On the inner side above the handle

On the inner side below the handle

On the handlebar

3. Choose the appropriate length of the strap and the tying method based on the diameter of the handle, adjust the tightness to ensure the controller is stable and does not shake. The parallel binding has a high degree of fit and is easy to install, while the cross binding is more secure and fast, providing greater stability.

Parallel binding

Cross binding

1. The warranty for this product is 24 months. During the warranty period, if the product experiences non-human-induced hardware or software failures, free repair and replacement of parts services will be provided by the manufacturer.

2. You need to return it for repair after purchase, the shipping costs for both the return and delivery will be the responsibility of the customer.

3. The product is not intended to be used as a replacement for the original packaging materials for transportation. The customer is responsible for any problems or losses that occur (when using non-original packaging materials for transportation).

3. Product damage caused by the following reasons is not covered by the warranty policy.

- 1. Damage caused by improper use or installation in accordance with the manual.
- 2. All damage caused by human error or accident.
- 3. Products that have been disassembled and repaired without contacting our company or the dealer for confirmation.
- 4. Equipment malfunction due to water infiltration inside.
- 5. Aging, scratches, and marks on the product caused by normal use.

Status	LED Indication
Wake up	The blue light flashes slowly for one minute.
Bluetooth Connect	connection is successful, the blue light flashes rapidly and remains on for 3 seconds.
Charge	Charging the red light constantly on; Full charged the red light will turn off.
Press the button	After pressing the button, if the battery is more than 20%, the blue light will turn on; if the battery level is below 20%, the light will not.
Firmware Upgrade	During the upgrade process, the blue light remains on constantly. Once the upgrade is completed, it will automatically turn off.
Reset	The red light flashes rapidly for a short while and then remains on for 3 seconds.

Dimension	25*39*10mm
Weight	8g
Battery Capacity	90mAh
Working Hours	400h
Connection Protocol	BLE 5.0
Charging Input	DC 5V 100mA
Button Lifespan	100000
Operating Temperature	0~45℃
Storage Temperature	-10~60℃

1. The V5200 must be used together with a "Trainer". After installing the controller, please refer to the "Trainer" manual for details.
2. Open the "ThinkRider/Tools APP", enter the "Trainer", "Firmware Upgrade" interface, make sure your battery has been updated to the latest version after connecting.
3. Press any button to wake up the controller. After the red indicator light will flash slowly in blue.
4. Enter the "Tools" interface, select "Firmware Upgrade" and connecting the V5200, and ensure that the V5200 has been updated to the latest version.
5. Enter the "Controller", "Trainer Pairing" interface. After connecting the trainer to which you want to pair the V5200, search and connect the V5200 to find the pairing process.
6. After the connection is completed, the controller will remember. No need to pair again for next time.
7. If you need to replace the trainer or V5200, please use the "Device" (Controller Settings), and then select the "Reset pairing process".
8. Note: If you need to replace the battery, please disconnect the battery level check if it is not connected to other devices. If the V5200 cannot be found, simultaneously press the [red] and [blue] buttons for 5 seconds to reset the controller. During the reset process, the red indicator light will flash rapidly for a short while and then remain on for 3 seconds. After the light turn off, the reset is completed.

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 interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to your radio or television reception, which can be determined by turning the equipment off, 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.

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

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,
(2) This device must accept any interference received, including interference that may cause undesired operation.

When the trainer is successfully connected to the V2500, the "virtual shifting" function will be disabled. The V2500 will automatically adjust the gear ratio to record the gear position and position parameters according to the V2500 or the APP, making the resistance changes during the shift more similar to the real ratio. The V2500 will automatically record the gear position on a real-time basis.

You can operate in the following two ways:

- Shift gears: Use the V2500 buttons to shift gears and adjust the resistance of the trainer in real time.
- Shift gears: Set the gear ratio scale to adjust the virtual range of resistance between the gear in this **TRAINER** code APP.

The total range of resistance adjustment for the virtual shifting is 20% to 300%. The greater the gear ratio, the greater the resistance change during each shift. The detailed parameters and settings are shown in the table below:

Gear Ratio	Resistance Variance	Positive Gears	Negative Gears	Total Gears
Low	5%	25	35	60
Medium	8%	15	20	35
High	12%	10	15	25

The virtual shifting function does not require manual activation or deactivation. Once the controller is paired correctly to the V2500, the system will automatically activate the virtual shifting function when the connection is disconnected, the virtual shifting function will automatically be disabled.

Note: The virtual shifting function is incompatible with the ERG mode of the cycling trainer. When the cycling trainer is in the ERG mode, the virtual shifting function will automatically be disabled.

1. The Y2020 controller has an automatic power-on/off function. When it detects that the device has not been used for more than 30 minutes, it will automatically enter a sleep standby mode to save power. Pressing any button will wake up the controller. If the controller has been paired with the cycling platform, after being awakened, it will automatically connect to the cycling platform and activate the virtual shifting function.

2. When the virtual shifting function is activated, the resistance can be adjusted through the controller buttons:

The diagram shows the ThinkRider Y2020 controller with two buttons labeled 'P+' and 'P-'. Below the 'P+' button is the text 'Press the [P+] button: increase the resistance (simulating upshift)'. Below the 'P-' button is the text 'Press the [P-] button: decrease the resistance (simulating downshift)'. To the right of the controller, there are two connection points labeled 'Charging port' and 'Hook'.

Press the [P+] button:
increase the resistance
(simulating upshift)

Press the [P-] button:
decrease the resistance
(simulating downshift)

Charging port
Hook

3. If you need to change the controller or cycling platform, you can first unbind it on the 'Controller Settings' of the ThinkRider Tools APP, and then perform the new pairing operation.

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