BLACK HAWK
ELECTRIC

Remote Controller

Compatible Board Models:

Urban Series V3

Sport Series V3

AT Series V3

Pro Series V3

Street Series V3
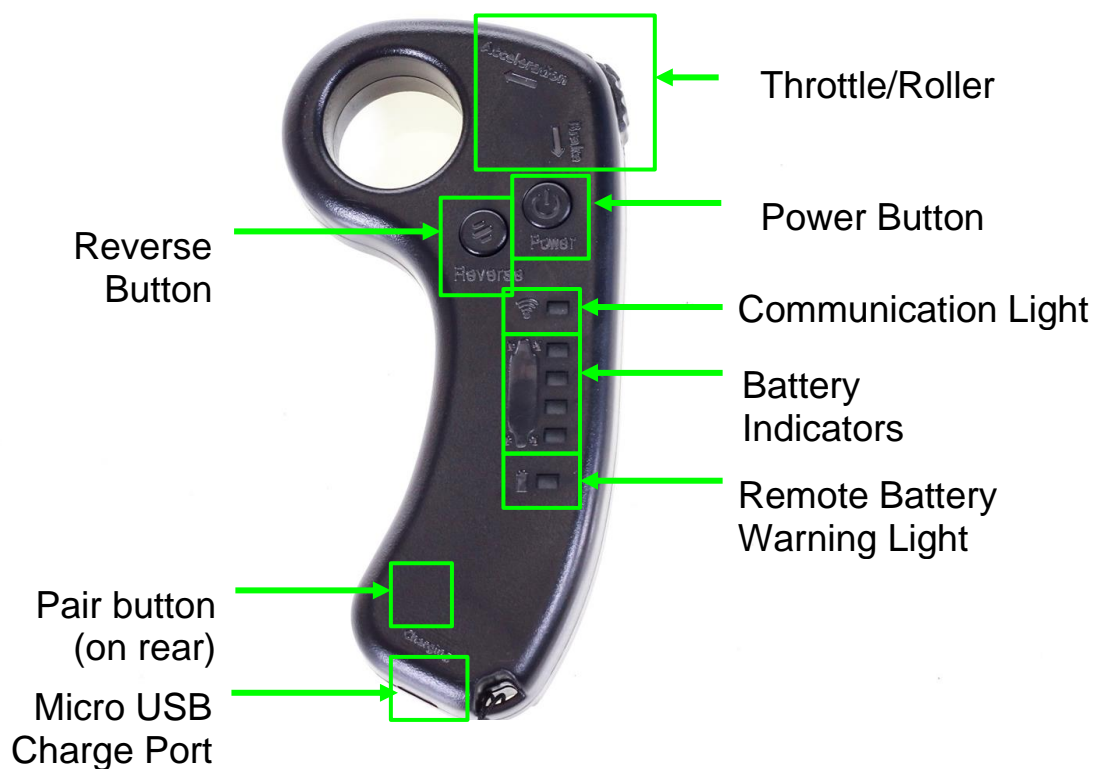
English

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Preface:

These instructions provide a guide towards operating and using the remote controller. There may be slight variations to the model, based on the production timeframe of the product. If you have any questions or concerns about the processes shown in this manual, please contact our support team here: support@blackhawkelectric.zendesk.com

These instructions are always improving and changing. If you have any feedback on the manual, please provide constructive feedback to the support email address above.

Safety Tips and Advice:

- Operate the remote controller with smooth gentle movement on the throttle/roller.
- Always charge the remote controller from a standard 5V USB port.
- Cease operation of the remote controller if any part of the remote is damaged by impact or has been affected by water
- Do not operate or use the remote controller in wet environments
- Charge the remote controller before each use to provide the best efficiency.
- Do not open or dismantle the remote controller
- Read and understand the board model safety notice located in the product manual.

Overview:

Throttle/Roller

Power Button

Reverse Button

Communication Light

Battery Indicators

Remote Battery Warning Light

Pair button (on rear)

Micro USB Charge Port

Overview Description:

This section describes with more detail the highlighted parts in the *Overview Section*

Power Button:
This button turns the remote controller on and off. Additionally it can be used to toggle the speed mode of the board.

Turning the board on/off: Hold this button to turn the remote controller on or off
Changing Speed Mode: Short press this button to toggle through the Speed Mode (*See also: Basic Functions: Speed Modes*)

Reverse Button:
The reverse functionality of this remote controller is production dependent. The remote can be put into reverse in one of two ways depending on the production time of the remote and the board it is being used with.

Option 1: Short press the reverse button to toggle between reverse or forward modes.
Option 2: Hold this button for 3-5s to toggle between reverse or forward modes.

Please note: Reverse mode can only be toggled while the board is stationary. Additionally the communication light will indicate green for forward and red for reverse.

Throttle/Roller:
The Throttle is used to control the output of the motors, either accelerating or braking. With your index finger through the handle and hand gripping the remote control, use your thumb to gently push the throttle forward or backward to either accelerate or brake respectively.

It is best to use slow controlled movements on the throttle to ensure that the board is controlled in a safe and expected manner.

See also *Advanced Functions: Smart Speed Mode Changing*.

Communication Light:
The communication light flashes when it communicates with the board.

The communication light will be solid (not flashing) when it is not communicating with the board. For example; when the remote is switched on and the board is switched off.

The colour of light indicates which direction the motors are set to. Green for forward (RWD) and Red for Reverse (FWD)

Battery Indicators:

There are 4 red lights next to a small picture of a skateboard.

While the board is switched on these lights will indicate the battery level of the board.

While the board is switched off these lights will flash the battery level of the remote before switching the remote off.

When the remote is plugged into charge, these lights will indicate the charge level of the remote controller and flash up until all four lights are solid, indicating a charged remote battery.

These lights can also indicate what speed mode and braking mode the board is set to. See: *Basic Functions: Speed Modes* and *Advanced Functions: Changing braking sensitivity*

Pairing Button:
This small button is on the back rear side of the remote controller and is used when completing the reset or pairing process. Otherwise this button is rarely used. To operate this button you will need a small tool like a tiny hex key or a toothpick. See *Pairing Process* for step by step instructions.

Remote Battery Warning Light:
If this light is on and flashing during operation it means that the remote controller battery is very low and needs to be charged as soon as possible. Continuing to use the remote controller while this light is flashing can cause damage to the remote controller battery. Additionally, when the remote is critically low on charge the board can only brake and not accelerate.

This light will display red while the remote is plugged in to charge.

Micro USB Charging Port:
Insert the provided micro USB cable here and connect to the standard 5V USB port to charge the remote controller.

Basic Functions:

Speed Modes
The remote controller has 4 different speed modes:
1. Slow Mode
2. Medium Mode
3. Fast Mode: Economic
4. Fast Mode: High Power

To change the speed mode of the remote controller, tap the power button and continue to tap the power button until the desired speed mode is selected.The Battery Indicators will change to display which speed mode you are currently using. The bottom battery indicator being *1. Slow Mode* and the top battery indicator being *4. Fast Mode: High Power*.

There is another way to control the speed modes of the board, see: *Advance Functions: Smart Speed Mode Changing*

Pairing Process
The pairing process is used to pair a new or existing remote controller to your board.

To pair the remote controller:
- Turn on the board
- Hold the boards power button for ~7 seconds
- The board indicator will flash to indicate that it is in pairing mode
- Turn on the remote controller
- Tap the small pair button with a small tool or toothpick
- The remote should now pair to the board: Communication light flashing and battery indicators showing the battery level of the board.

Charging Process
The remote is charged using a Micro USB cable connected to the remote controller and a standard 5V USB port (USB port on a computer for example). The Battery Indicators will flash around in a repeating pattern indicating the remote is charging. Once all four battery indicator lights are solid (not flashing), the remote controller is fully charged. The battery takes 20 mins to charge to 50% and usually charges within an hour from empty.

Auto power off
The remote will automatically turn off after 30 seconds when the remote cannot find a powered on and paired board.

The remote will automatically turn off if the remote battery approaches 1% charge. When the remote controller battery is critically low, the Remote Battery Warning Light will be on and flashing.

Advanced Functions:

Smart Speed Mode Changing
While under throttle, reduce speed back to the neutral position with the thumb lever slowly, then without braking, accelerate upwards again with the thumb lever. This will cycle you through the speed modes continuously in an increasing manner without having to press any other buttons or distract yourself from riding safely. The speed mode will not be increased if you engage the brakes, for safety reasons.

Braking sensitivity
The remote controller has 4 different braking sensitivity modes. To change the braking sensitivity of the remote controller, while the board and remote are switched on and stationary, hold the brakes down on the roller/throttle and tap the power button. Continue to tap the power button while holding the brakes until the desired braking mode is selected. The battery indicators will flash to display which braking mode you are currently using. The bottom battery indicator being reduced sensitivity and the top battery indicator being increased sensitivity.

Reset Process
This process can be used to reset the remote controller back to factory settings. This process can be useful if you are experiencing abnormal behaviour from the throttle.

To complete the reset process:
- With the remote controller switched off
- Hold the pair button with a small tool or toothpick
- While holding the pair button hold the power button on the remote until the communication light turns green.

Troubleshooting:

Please see the table below for some troubleshooting tips. If you have any questions or concerns contact support on the email address at the start of this document.

I can brake but not accelerate	Check that the remote battery warning light is flashing, if it is, try to charge the remote controller; see *Charging Process*
My board does not respond to the remote	Charge Remote, see *Charging Process* Pair Remote, see *Pairing Process* Check that the remote is not currently experiencing Signal Loss Otherwise; contact support.

Signal Loss	When the remote controller signal is interrupted:
	  - Acceleration will cease, if throttle is applied when disconnection occurs.
	  - Braking will continue for very short period, if brakes were applied when signal loss occurs
	The remote will attempt to reconnect to the board in a short period of time.
	
	Reseting (turn off and on) the board and remote may be required if signal occurs for a longer period of time.
	
	Potential Signal Loss Causes:
	  - Large vibrations on the board
	  - Large Electromagnetic radiation in environment
	  - Similar bluetooth style devices close to the remote controller

My board is not as fast	Check that your remote is fully charged and that you are in the correct speed mode. See: *Speed Modes*
My board is braking or accelerating without input	Check the Throttle/Roller for any visual damage that could cause the throttle to get stuck in a position. Try the Remote Reset Process: See *Reset Process* Otherwise: Contact support