

SIMSONN

manual

Sim SQ Pro
Racing
Sequential
Shifter

simsonn.com

RACING UNLIMITED

Thank you for choosing SIMSONN! Please read this manual carefully before using the SQ Pro Sequential Shifter. It contains important safety and operating information. Retain this manual for future reference.

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User Precautions

Before hitting the track

the first time, please read this section carefully to familiarize yourself with device support, disclaimers, and warranty information, ensuring safe and reliable operation of your sequential shifter.

Disclaimers and Warnings

Please read this manual carefully before using the product to understand your rights, responsibilities, and safety instructions; failure to do so may result in property damage, safety incidents, or personal injury.

The user agrees to be responsible for their own actions and all consequences arising therefrom.

The user agrees to use this product only for legitimate purposes and to accept all terms and conditions of this document, as well as any related policies or guidelines established by *Hunan Leixuan Intelligent Technology Co., Ltd.* (hereinafter referred to as *Leixuan*).

Leixuan shall not be liable for any loss resulting from improper use of the product in violation of this manual. In the event of equipment damage caused thereby, Leixuan reserves the right to refuse warranty service.

By using this product, you are deemed to have understood, acknowledged, and accepted all the terms and contents of this document.

DANGER

This product is not a toy. Users under the age of **18** should use it only under adult supervision. Please exercise extra caution when operating in environments where children are present.

Do not expose the device or power supply to damp or rainy environments to avoid short circuits, equipment damage, or risks of fire and electric shock.

Device Support and Software Download

You can access the product's user manual, installation and calibration videos, mounting templates, and other electronic documents on the **Support** page of the official website: <http://simsonn.com>. Official software is also available for download there.

Warranty

We provide a 12-month warranty for defective products (excluding any damage or misuse caused by the buyer).

Accessories are covered by a 3-month warranty.

Contact

If you have any questions not covered in this manual or the instruction videos, please feel free to email us at support@simsonn.com
Customer Service Hotline: [400-161-1681](tel:400-161-1681)

We will reply to your inquiry as soon as possible after receiving it.

Product Overview

Open
this section
to

discover the sequential shifter's design and functionality, including technical specifications, dimensions, and package contents. Read carefully before installation or first use to be ready for every drive.



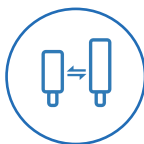
High-strength Alloy
Steel



Multi-Function
Handle



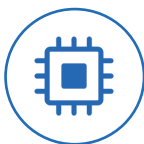
Adjustable Stroke
and Force



Replaceable Handle

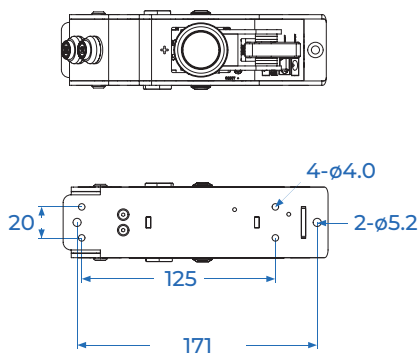
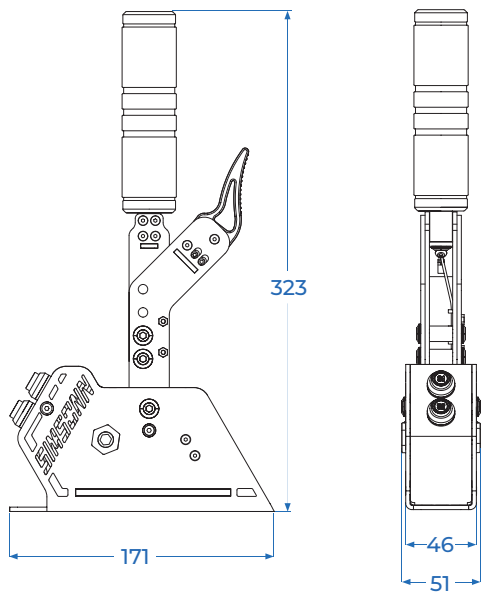


High-precision Hall
Sensor



Anti-interference
Dual-chip

Product Overview



Product Specifications

Product Name	SQ Pro Sequential Shifter
Product Model	SQ Pro
Dimensions	323 * 167 * 67mm
Weight	1.68kg
Main Material	Alloy Steel
Force Adjustment	Support
Height Adjustment	Support
Base Plate	Optional
Sensor	Hall Sensor

Package Contents

- Sequential Shifter
- Handle
- Type-C Cable
- Instruction Manual
- Accessory Bag

Accessories List

- Hex Wrenches *4 (2mm / 3mm / 4mm / 5mm)
- Countersunk Head Screws *2 (M5 - 16mm)
- Socket Head Cap Screws *4 (M5 - 12 mm)
- Hex Nuts *2 (M5)
- Spacers *2 (1 * 6 * 18 mm)
- Spacer *1 (2 * 6 * 18 mm)
- USB to Type-C Adapter *1
- Reducing Stud *1
- M18 to M8 Reducer *1
- European Standard Sliding Nuts *2 (40 - M5)

Operating Instructions

From
installation
to operation,

this chapter will provide a detailed introduction to the hardware adjustments and software settings of the sequential shifter, ensuring stable device operation and delivering an authentic and smooth driving experience.

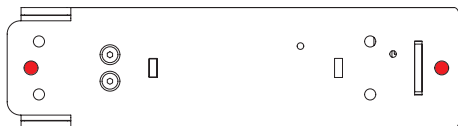
Hardware Adjustment

Product Installation

Option 1: Install from the top

Using a 3mm hex wrench, M5-16mm countersunk head screws, and M5 hex nuts, you can install the product onto the official adapter plate or other brackets by aligning with these mounting holes.

You may also use 40-type M5 slide nuts to mount the product onto profile brackets.



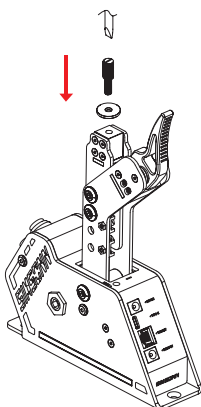
Product Installation

Option 2: Install from the bottom

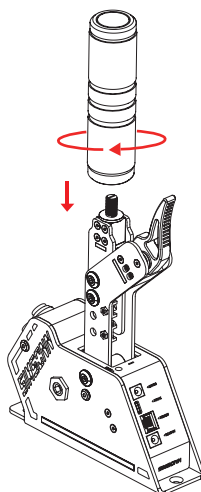
The holes here are threaded. You can use a 4mm hex wrench and M5-12mm socket head cap screws to secure the product to the bracket from the bottom.



Handle Installation

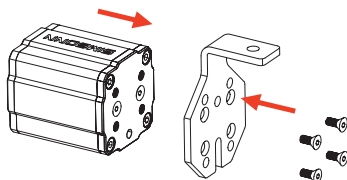


- 1 Take the stepped stud and spacer from the accessory bag. Insert the stepped stud through the spacer, then use a flat-head screwdriver to screw it clockwise into the converter head.

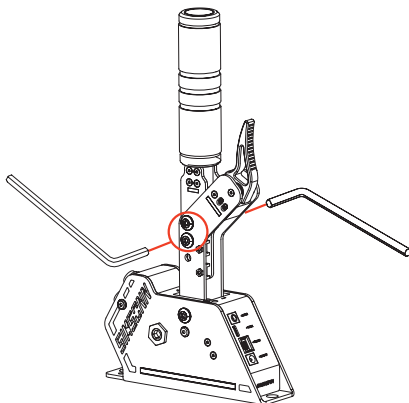


- 2 Take out the handle and tighten it firmly by turning it clockwise.

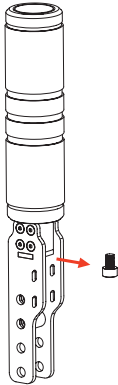
Vibration Auxiliary Module Installation



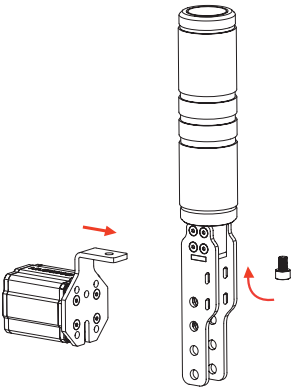
- 1 Take the VAM Neo as an example. Use a 2.5mm hex wrench and M4-6mm countersunk head screws to secure the VAM Neo to the back of the vibration auxiliary module mounting bracket.



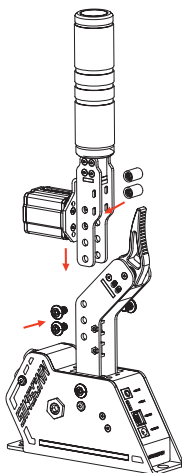
- 2 Use a 4 mm hex wrench to loosen the two sets of screws on both sides by turning them counterclockwise, and remove both sets of screws and the center sleeve.



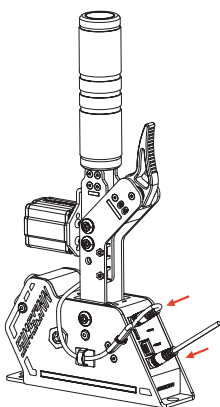
- ③ Pull out the handle, then use a 4mm hex wrench to turn counterclockwise, loosen, and remove the socket head cap screws at this location.



- ④ Place the bracket with the vibration auxiliary module installed in the middle of the handle, then tighten it using the socket head cap screw.

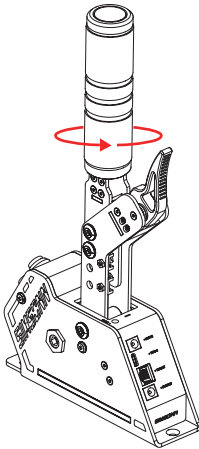


- 5 Place the two sleeves in the middle of the handle and align them with the mounting holes. Then insert the handle into the main body of the sequential shifter, and use a 4mm hex wrench to re-tighten the previously removed screws from both sides.

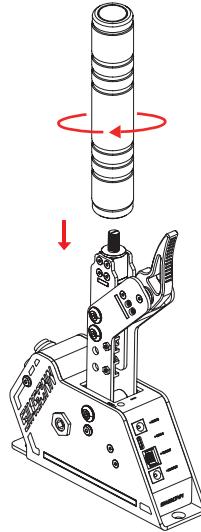


- 6 Simply insert the cables from the vibration auxiliary module and the power supply into the front port.

Handle Replacement

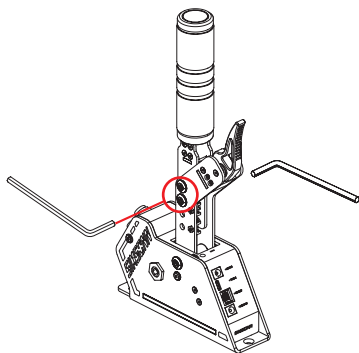


- 1 Unscrew the handle counterclockwise to detach it from the main body.

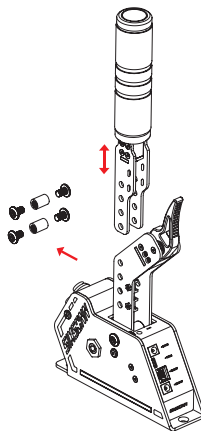


- 2 Align the replacement handle with the threaded opening and tighten it by turning clockwise.

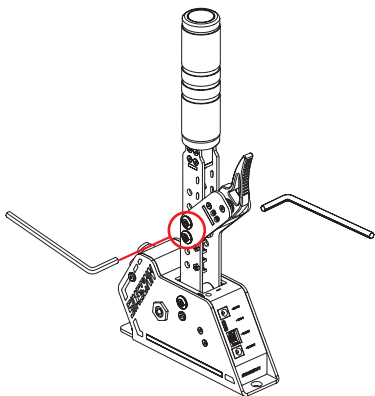
Height Adjustment



- 1 Use a **4mm Hex Wrench** to loosen the screws on both the upper and lower sides by turning them counterclockwise, then remove the screws and the center spacer.

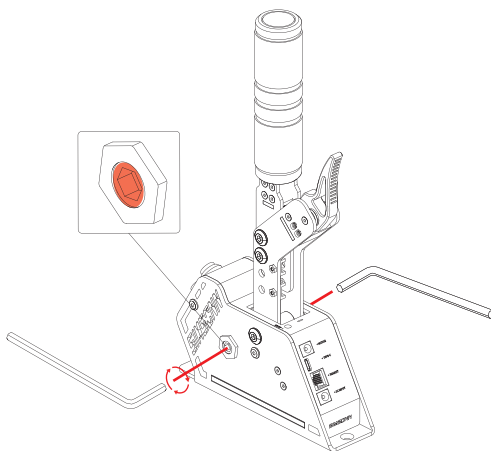


- 2 Adjust the handle to the desired height, then place it back into position.



- 3 Align the sleeve with the mounting holes and tighten the screws securely.

Force Adjustment



- 1 Use a **5mm Hex Wrench** to turn the screws on both sides as shown in the illustration to adjust the shifting feel and force.
- 2 Turning the screws clockwise increases the shifting force, resulting in a firmer feel.
- 3 Turning the screws counterclockwise decreases the shifting force, resulting in a softer feel.

When adjusting the screws on both sides, try to rotate them by the same number of turns to achieve consistent shifting feel and force. To prevent the product from failing to return to center automatically, do not fully tighten the screws on both sides.

Hardware Adjustment

Control Settings

On this page, you can check whether each component of the product is functioning properly, and it also supports reversing the shift direction.



Lighting Adjustment

The product currently supports five lighting modes: Monochrome light, Breathing light, Rainbow light, Flowing light, and Motion tracking. Additional modes will be added with future software updates. The lighting configurations can be saved as profiles.

Monochrome light: You can set the light strip to a single color and adjust the brightness.

Breathing light: The light strip gradually brightens and dims, creating a pulsing effect. You can customize the color, brightness, and pulsing speed.

Rainbow light: The light strip displays a single color that transitions smoothly between different colors. You can adjust the brightness.

Flowing light: The light strip cycles through all colors in a flowing motion. You can adjust both brightness and flow speed.

Motion tracking light: The light strip dynamically maps colors in real-time based on the product's movement. You can set the initial base color and the dynamic follow color.



Safety

Notes on using SIMSONN SQ Pro Sequential Shifter

General Product Description and Intended Use

The SIMSONN SQ Pro is a Sequential Shifter based on Hall sensor, designed to be connected to a computer for use with driving simulators. The product is suitable for use in a simulator only. The product is not suitable for use on (public) roads, on a test track, or as part of an electric vehicle.

Safety Precautions

Personal Safety Equipment:

No specific personal safety equipment is required for using this product. However, we recommend wearing gloves during use for better comfort and control.

Installation Requirements:

The product must be securely mounted on a simulator rig or desk mount to ensure it does not move during operation. Stability between the simulator seat and the product is key to safe use.

Please ensure you follow the above precautions to optimize your user experience and ensure safety.

Recycling

We try to make our products as durable as possible. Please act responsibly when you need to discard (parts of) this SIMSONN product.

Packaging Material Recycling

Eco-friendly Packaging:

The packaging for the SIMSONN SQ Pro mainly consists of paper and cardboard materials, as well as polyethylene foam. If you do not plan to keep the packaging, please recycle it to support environmental protection.

Spare Parts Support

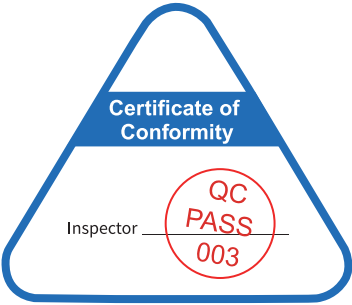
After-Sales Service:

We provide one year of after-sales support for the product to ensure your needs are met during use. In the rare event that the product needs to be scrapped, please follow local recycling guidelines to ensure its environmentally friendly disposal.

Disassembly and Material Separation:

If disassembly of the product is required, please use the included tools. This will allow you to separate the different materials used in the product, facilitating subsequent recycling and disposal. By following these guidelines, you can not only extend the product's lifespan but also contribute to environmental protection.

*Thank you for your attention and support
towards sustainable development!*



Certificate of Conformity

Certificate No. : HTT202503136E
Applicant : Hunan Leixuan Information Technology Co., Ltd
Applicant Address : Room 203, Building C4, Lugu Enterprise Plaza, Yuelu District,
Changsha City, Hunan Province
Manufacturer : Hunan Leixuan Information Technology Co., Ltd
Manufacturer Address : Room 203, Building C4, Lugu Enterprise Plaza, Yuelu District,
Changsha City, Hunan Province
Product : SQ Pro Sequential Shifter
Model No. : SQ Pro
Trademark : SIMSONN

The following products have been tested by us with listed standards and found in compliance with the council EMC 2014/30/EU. It is possible to use CE marking to demonstrate the compliance with the EMC directive.

Test standards:	Report(s) Number	Issued By	Issued Date
EN IEC 55014-1: 2021 EN IEC 55014-2:2021 EN IEC 61000-3-2: 2019 +A2: 2024 EN 61000-3-3:2013+ A2:2021+AC:2022-01	HTT202503136ER	HTT	Mar. 07, 2025

This certificate of conformity is not transferable and based on an evaluation of a sample of the above mentioned product.



Authorised Signatory:

Kevin Yang
Kevin Yang/Senior Manager

Date:

Mar. 07, 2025



Shenzhen HTT Technology Co., Ltd. Web: www.httprc.com

TEL: 0755-23595200 FAX: 0755-23595201 Hotline: 400-6655-351 Mail: info@httprc.com
1F, B Building, Huafeng International Robotics Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen, China

FCC SUPPLIER'S DECLARATION OF CONFORMITY

Certificate Number: HTT202503136F
Applicant: Hunan Leixuan Information Technology Co., Ltd
Applicant Address: Room 203, Building C4, Lugu Enterprise Plaza, Yuelu District,
Changsha City, Hunan Province
Manufacturer: Hunan Leixuan Information Technology Co., Ltd
Manufacturer Address: Room 203, Building C4, Lugu Enterprise Plaza, Yuelu District,
Changsha City, Hunan Province
Product Name: SQ Pro Sequential Shifter
Model No.: SQ Pro
Trade Mark: SIMSONN
Applicable standards: FCC CFR Title 47 Part 15 Subpart B:2020

The products comply with the FCC regulations and the electromagnetic compatibility evaluation requirements.

The test result has been evaluated by Shenzhen HTT Technology Co., Ltd laboratory and showed in the test report

The test report number: HTT202503136FR

It is understood that each unit marketed is identical to the device as tested, and any changes to the device that could adversely affect the emission characteristics will require retest.

The following responsible party designated in FCC §2.909 is responsible for this declaration



Authorised Signatory:

Kevin Yang
KevinYang/Senior Manager



Date: Mar. 07, 2025

Shenzhen HTT Technology Co., Ltd. Web: www.httpc.com

TEL: 0755-23595200 FAX: 0755-23595201 Hotline: 400-6655-351 Mail: info@httpc.com
1F, B Building, Huafeng International Robotics Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen, China

Certificate of Conformity

CERTIFICATE NO.: HTT202503136P

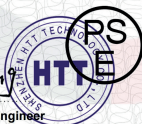
Product : SQ Pro Sequential Shifter
Model NO. : SQ Pro
Trade Mark : SIMSONN
Applicant : Hunan Leixuan Information Technology Co., Ltd
Applicant Address : Room 203, Building C4, Lugu Enterprise Plaza, Yuelu District, Changsha City, Hunan Province
Manufacturer : Hunan Leixuan Information Technology Co., Ltd
Manufacturer Address : Room 203, Building C4, Lugu Enterprise Plaza, Yuelu District, Changsha City, Hunan Province

This is to certify that on the basis of the tests undertaken as per Report No.:
HTT202503136PR the submitted sample of the
above item complies with:

J55014-1(H27)

And fulfills the Electrical Appliance and Material Control Law. It is possible
to use PSE marking to demonstrate the compliance with this law.

Kevin Yang
KevinYang, Chief Engineer



Date of Issue: Mar. 07, 2025

Shenzhen HTT Technology Co., Ltd. Web: www.httpc.com

TEL: 0755-23595200 FAX: 0755-23595201 Hotline: 400-6655-351 Mail: info@httpc.com
1F, B Building, Huafeng International Robotics Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen, China

Welcome
to
Simsonn



Hunan Leixuan Intelligent Technology Co., Ltd. reserves the right to modify product designs and specifications (including but not limited to dimensions, colors, etc.). The final product is subject to the actual item.