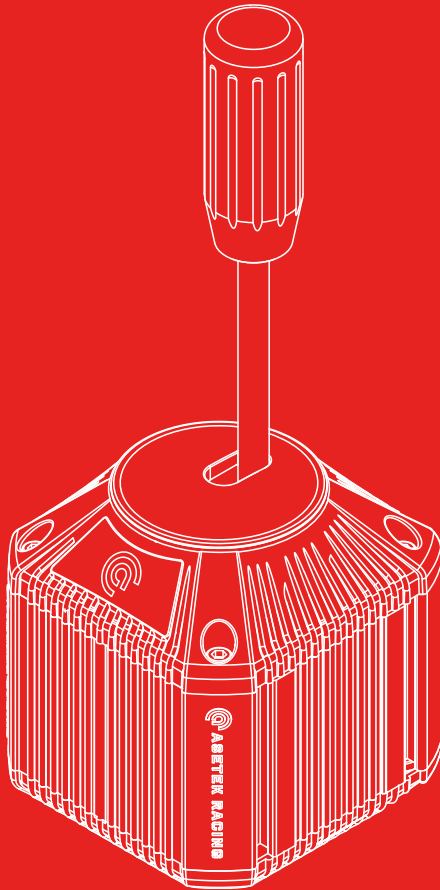


Load Cell Handbrake



ASETEK RACING™

***Thank you for purchasing the Asetek Racing™
Load Cell Handbrake.***

You have made an excellent choice! We are sure the Asetek Racing™ Load Cell Handbrake will help you take your sim racing experience to the next level. Whether you are a seasoned racer or a gamer who wants to dive into something new, the Handbrake is made to fit every user.

Prepare for the sensation of being in a real race car.

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Foreword

About This Document

This manual is written for the end-user of the Asetek Racing™ Load Cell Handbrake (hereon after: “handbrake”) and contains all information required to correctly and safely install, use and maintain the following model:

Model Name	HB-1
Product Name	Load Cell Handbrake
Product Code	40-040-0040001

This manual was authored in English. All other languages are translations of the original document.

Please make sure that you have thoroughly read and understood all contents of this manual before installing, using, or performing maintenance on the handbrake. If anything in this manual is unclear, please contact Asetek SimSports Support. Available at www.asetek.com/simsports/support



Please note the serial number on your product before contacting support.
The serial number can be found on the bottom of the handbrake and written here for your convenience:



Serial Number	
Asetek Denmark A/S Skjoldet 20 9230 Svenstrup J Denmark www.asetek.com	 ASETEK RACING™

Symbols Used

Make sure you pay attention to all warnings and symbols on the product and packaging.

Indicates that minor to moderate injuries may be sustained if the instruction is not followed correctly



This indicates that the product could be damaged if the instruction is not followed correctly



Copyright

The content of this manual is protected by copyright and other international intellectual property laws. The contents of this manual or any parts thereof may only be made public, copied, modified, reproduced, translated with express written permission from Asetek. This manual or any parts thereof may only be published, transmitted, displayed, or made available to a third party with express written permission from Asetek SimSports®.

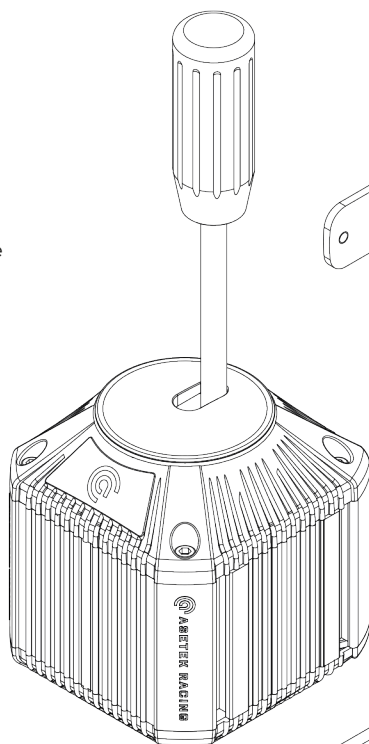
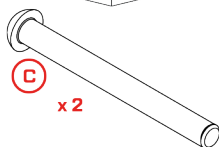
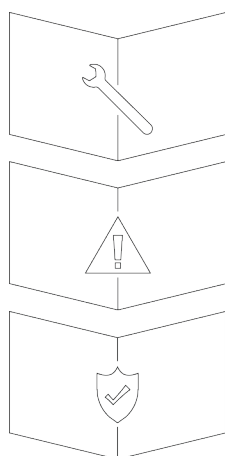
1. Introduction

Thank you for purchasing the Asetek Racing™ Load Cell Handbrake. We strongly encourage you to read through this manual thoroughly in its entirety.

1.1 Box Contents

The box contains the following components and accessories:

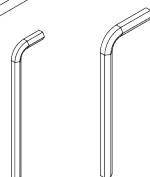
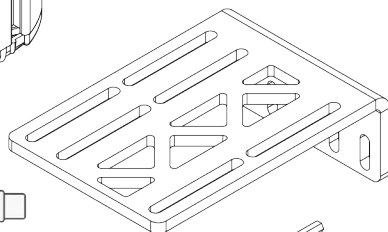
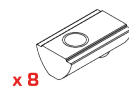
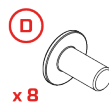
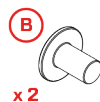
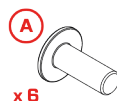
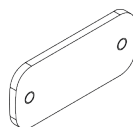
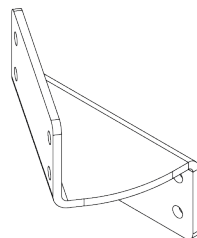
- Asetek Racing™ Load Cell Handbrake
- Mounting Bracket
- Handbrake and Shifter connection bracket
- USB Type-C to USB Type-C cable (Two (2) meters)
- USB Type-C to USB Type-A cable (Two (2) meters)
- Allen Key, 5mm
- Allen Key, 4mm
- 6x M6x16 screws (A)
- 2x M6x10 screws (B)
- 2x M6x60 screws (C)
- 8x M6x12 screws (D)
- 2x M6 washer
- 8x Spring-loaded T-nuts
- Threaded mounting plate
- Documentation



USB Type-C to USB Type-C



USB Type-A to USB Type-C



1.2 Videos

On the Asetek Racing YouTube channel, you can find tutorial videos which demonstrate numerous ways to set up and use your equipment. www.youtube.com/aseteksimsports



1.3 Manual version

This manual is version 2.0.

You will always be able to find the latest version of the manual at: www.asetek.com/simsports/knowledge-base/



1.4 Support & Contact

Should you stumble upon further questions that are not covered in this manual or any of our detailed instruction videos, we encourage you to contact our friendly support staff at: www.asetek.com/simsports/support



2. Product

2.1 Intended Use

The handbrake is designed to be used for racing simulation and simulate the feel of a race car. The handbrake can be directly connected to any PC with a USB-C or USB-A port or Asetek peripherals connector on the Asetek wheelbase. When using Xbox Series X|S, the handbrake can be connected to the peripheral connector on the wheelbase. The handbrake is intended to be mounted in a sim racing cockpit or desk. (Table clamps for desk mounting are purchased separately and are not included with this product.)



The handbrake is intended for indoor use only



Recommended ages 15 and above

2.2 Compatibility

Platform(s)	PC (Windows 11), Xbox Series X S with Asetek Xbox ready wheelbase + Xbox licensed wheel
Games	you can find the list of supported games here: www.asetek.com/simsports/racehub/supported-games 

2.3 Reasonably Foreseeable Unintended Use

The following is considered misuse and may void the warranty:

- Use of adaptors or extension sets for cables;
- Use of other cables than provided with the product;
- Use in an environment that varies from or exceeds the given environmental conditions;
- Use that varies from or exceeds the given operating conditions;
- Failure to comply with the instructions in this manual;
- Failure to eliminate faults, malfunctions, or defects of the product that impose safety risks;
- Unauthorized removal or modification of parts or safety devices of the product;
- Use of spare parts or accessories that Asetek SimSports has not approved;
- Mounting and/or use of any parts in a vehicle;
- Attempting to mount the handbrake together with the shifter (using the Shifter and Handbrake connection bracket) to the table with one set of table clamps. Each product requires its own table clamps;
- Operation in a flammable and/or explosive environment;

2.4 General Specifications

Dimensions (D x W x H)	133x132x360 mm 5.24x5.20x14.17 in
Weight	2.5 kg 5.51 lb
Materials	Aluminum
Sensor Types	Load Cell
Power Input	5V 500mA - Max 2.5 W
Operating Temperatures	0°C to 40°C, room temperature
Maximum Pull Force	200 kg

3. Getting Started

This section will teach you how to get your handbrake set up and running. Later in the manual, you will learn more about fine-tuning and software.

3.1 Before mounting



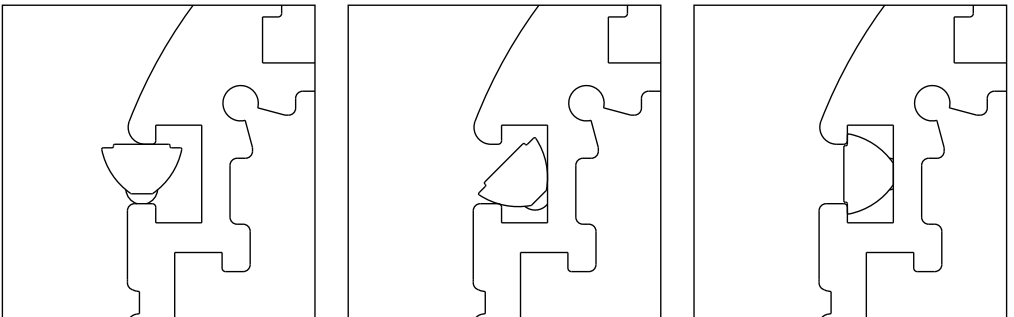
NOTICE

If you want to mount the shifter and handbrake next to each other in the cockpit, connect the shifter to the handbrake first, using the connection bracket. Required mounting hardware is included with the handbrake, not the shifter.(see chapter 3.1.2)

3.1.1 Inserting the T-Nuts

Placing the T-nuts in the handbrake depends on the position you wish the handbrake to be mounted in the cockpit. (see chapter 3.2.1 and 3.2.2) For desk mounting, we recommend only one position. (see chapter 3.2.3)

There are 2 slots on each of the three sides of the handbrake. You need to insert 4 T-Nuts on one of the sides (2 for each slot). The T-Nuts must be installed on the side of the handbrake where you want to mount the bracket (for both mounting bracket, handbrake and shifter connection bracket).



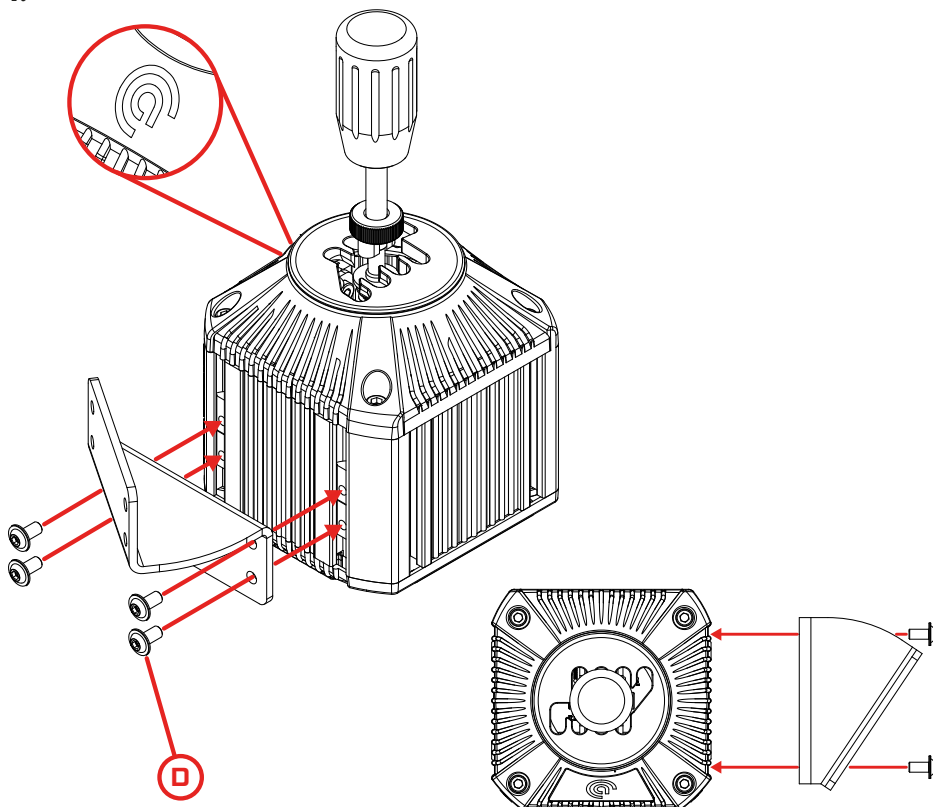
2 extra T-Nuts are included for mounting to an aluminum cockpit.

3.1.2 Mounting the Handbrake to the Shifter

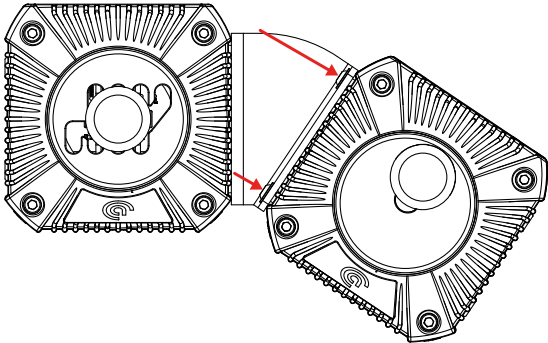
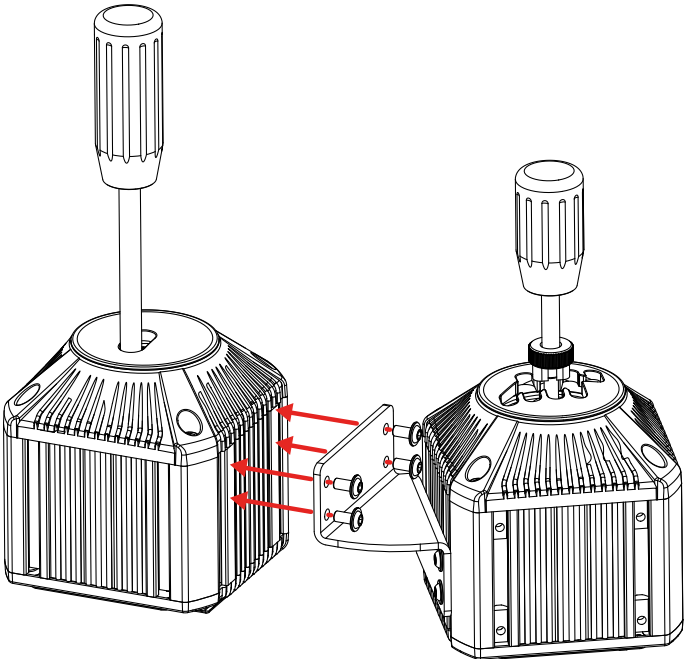
To connect the shifter to the handbrake, use the D screws and the Handbrake and Shifter connection bracket (see chapter 1.1).

Position the products as visualized here, with the Asetek logo indicating the front of the device (for left hand drive, reverse for right hand drive):

1.



2.



3.2 Mounting Instructions

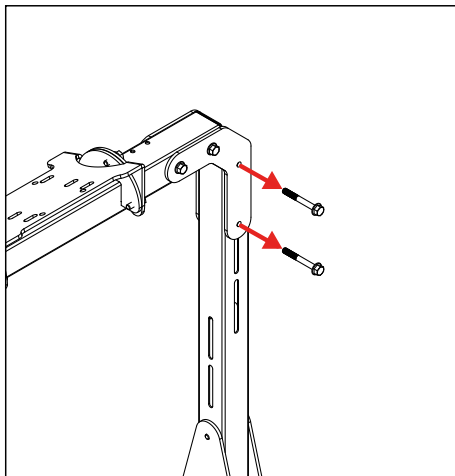
These instructions apply to mounting both the handbrake alone and the handbrake connected to the shifter.

3.2.1 Mounting in the Asetek Racing 2-in-1 Cockpit

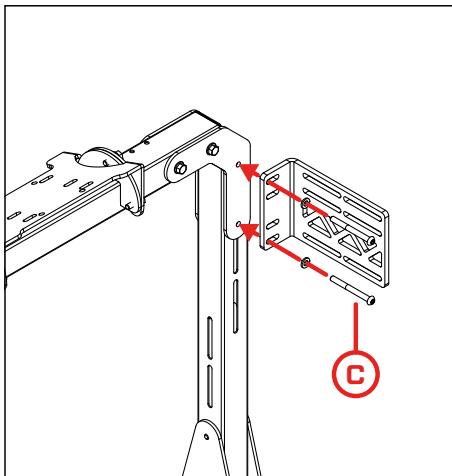
To mount the Handbrake in the Asetek Racing 2-in-1 cockpit, please follow the instructions in this chapter. Use the A and C screws, washers and mounting bracket. (see chapter 1.1)

a. Mounting to the top of the Cockpit:

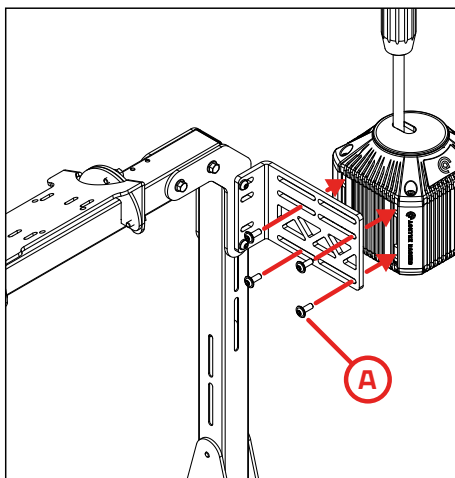
1.



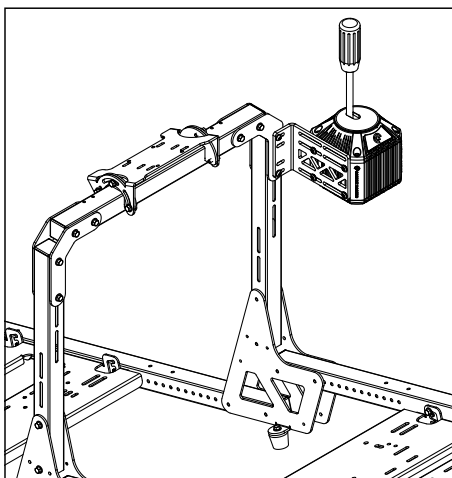
2.



3.

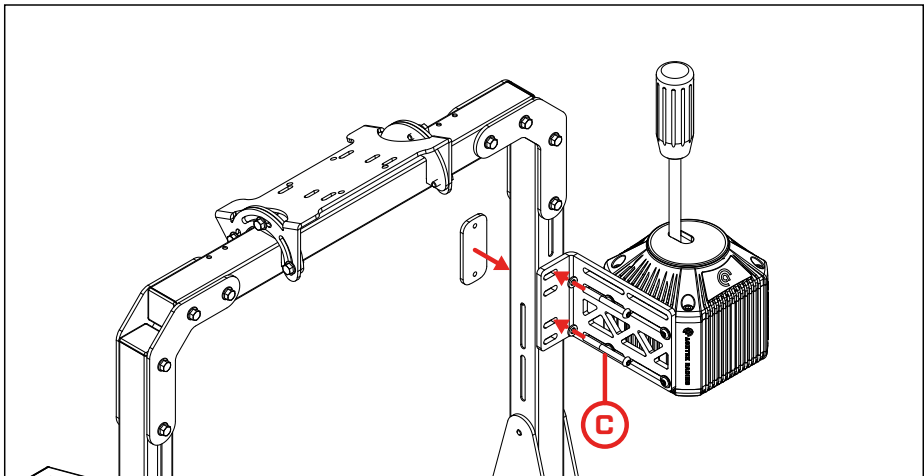


4.

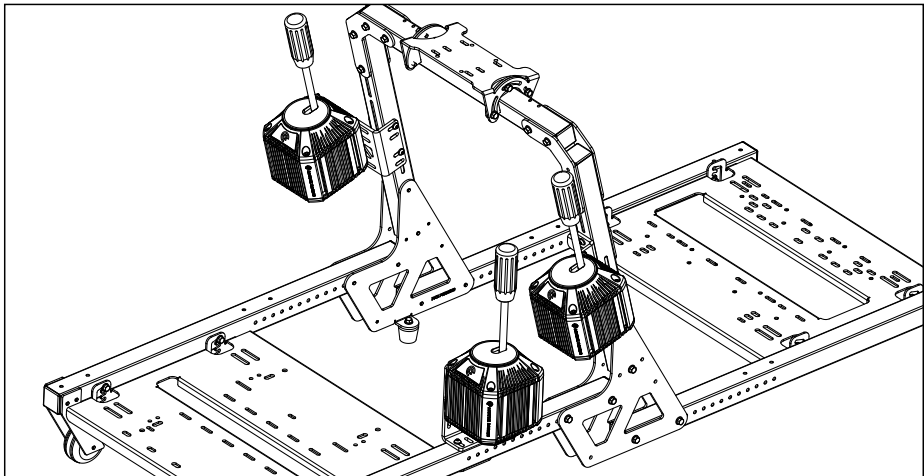


b. Alternative mounting placement (requires threaded mounting plate):

1.



2.

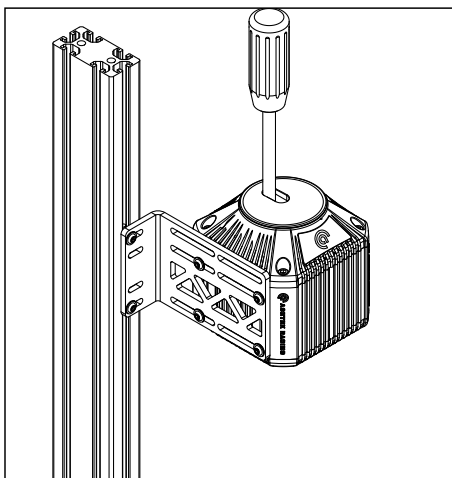
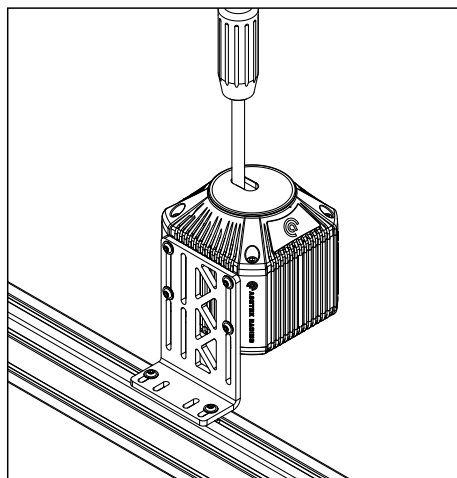
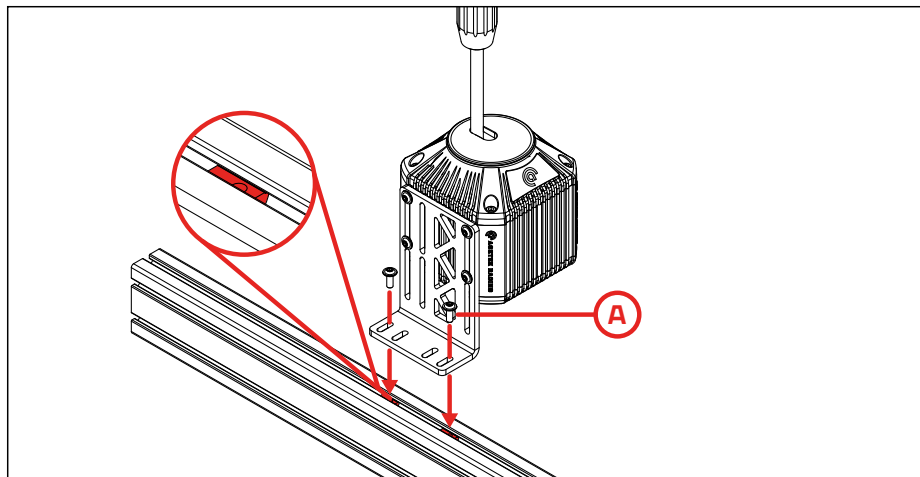


3.2.2 Mounting in an Aluminum Profile Cockpit

To mount the Handbrake to an aluminum profile, please follow the instructions in this chapter. Use the A screws, T-Nuts and mounting bracket. (see chapter 1.1)

NOTICE

Insert the T-Nuts in the aluminum profile first.



3.2.3 Mounting to Desk

NOTICE

To mount the handbrake to the desk, use the Asetek Racing table clamps. (Table clamps for desk mounting are purchased separately and are not included with this product.)

You can purchase the table clamps from Asetek SimSports website or Asetek SimSports and Asetek Racing authorized resellers:
www.asetek.com/simsports/product/asetek-simsports-table-clamps

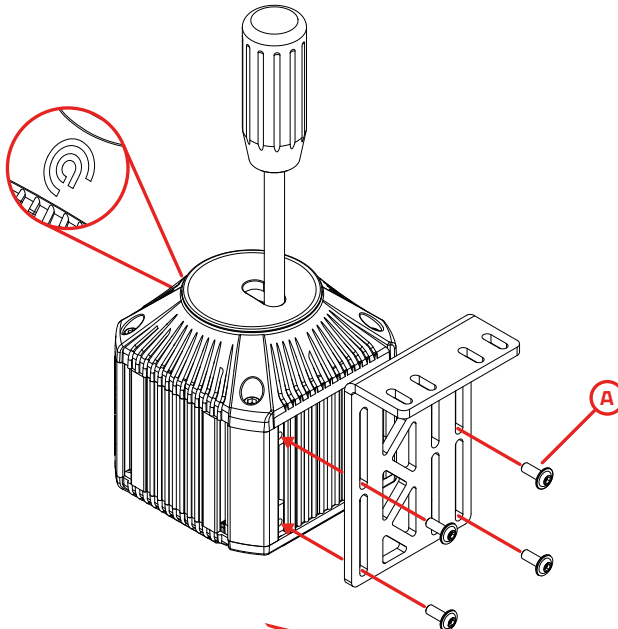


CAUTION

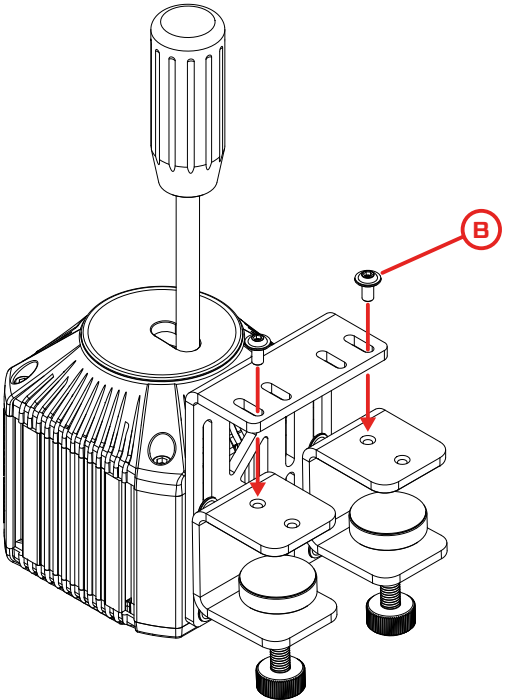
Only one device can be mounted to the desk using table clamps. Do not attempt to mount the handbrake together with the shifter (using the connection bracket) to the table. Each requires its own table clamps.

To mount the Handbrake to a desk, please follow the instructions in this chapter. Use the A and B screws and mounting bracket (see chapter 1.1). Position the product as visualized here, with the Asetek logo indicating the front of the device:

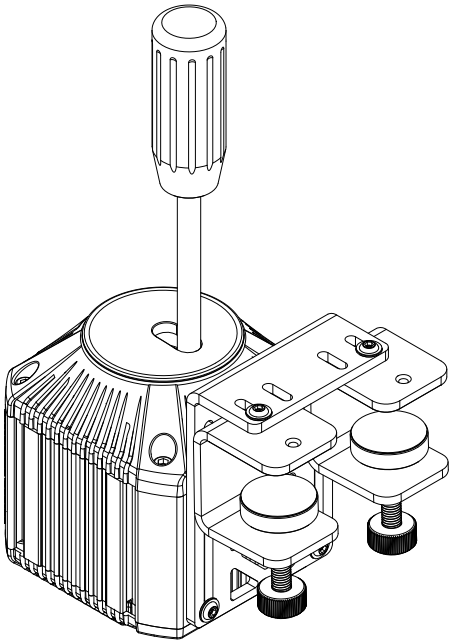
1.



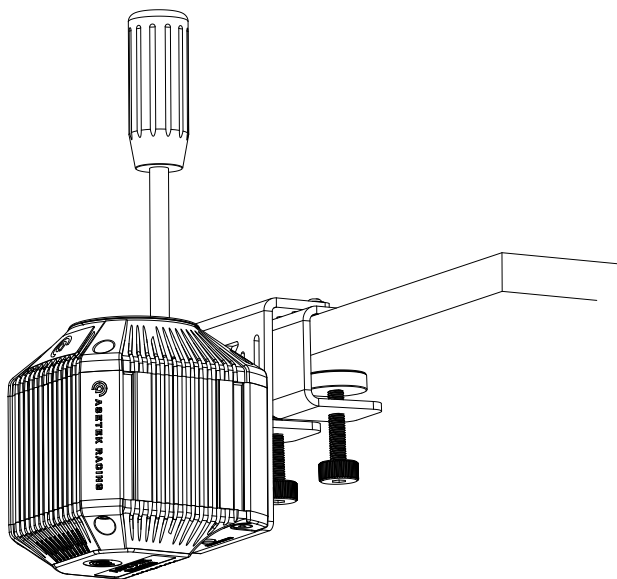
2.



3.



4.

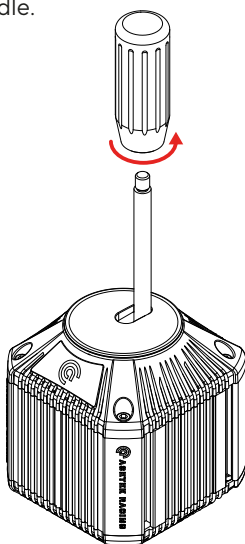


Congratulations. You have successfully mounted your new handbrake. Enjoy the ride!

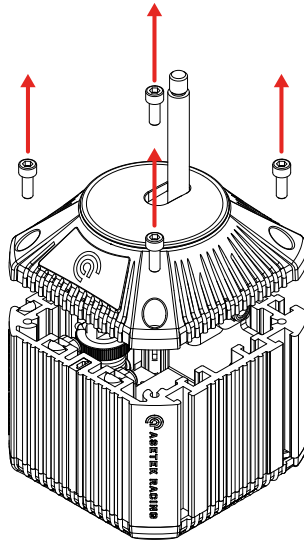
3.3 Adjusting the firmness of the Handbrake

The handbrake comes preinstalled in the soft position. If you wish the handbrake to have more resistance, you can adjust it in a few easy steps:

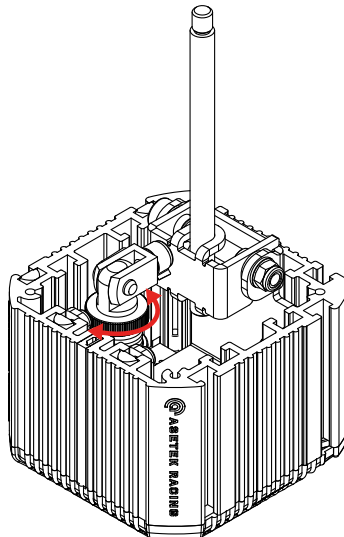
1. Unscrew the handbrake handle.



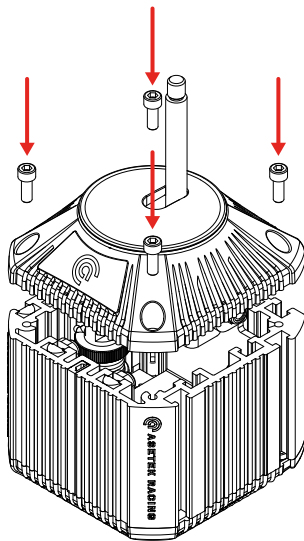
2. Open the handbrake by removing the 4 screws holding the top cover. Remove the top cover.



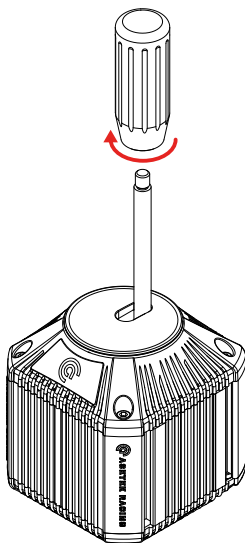
3. Turn the finger-screw inside the handbrake:
- a. clockwise, for a harder handbrake feel. (Increasing the preload of the elastomer)
 - b. counterclockwise, for a softer handbrake feel. (Make sure to have a small amount of preload on the elastomer, otherwise the handbrake will feel loose and could rattle)



4. Place the top cover back and secure it with the 4 screws previously removed.



5. Reinstall the handbrake handle.



You have successfully adjusted the firmness of your handbrake!

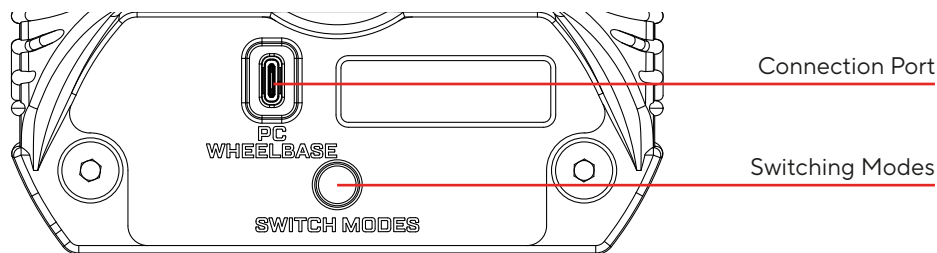
3.4 Connecting

There are 2 USB cables included for connecting the handbrake to the Asetek Racing wheelbase or directly to the PC.

NOTICE

The handbrake can be connected directly to any PC with a USB Type-A or Type-C port, or to the Asetek peripherals hub on an Asetek Racing wheelbase.

If you wish to use the handbrake on the Xbox platform, you have to connect the handbrake to an Xbox-ready Asetek Racing wheelbase. Find out more about your wheelbase compatibility with Xbox at: aseteksimsports.com



Proceed to install the RaceHub software and configure your handbrake to your liking. (See section 4. for instructions)

4. RaceHub™ Adjustments

All Asetek SimSports® and Asetek Racing™ products come with an extremely powerful yet easy-to-use piece of software that we have developed from the ground up. It is called RaceHub™ and will take care of your every need. RaceHub unlocks things you would not dare to dream of and is continuously updated.

4.1 RaceHub Download

RaceHub is available for download, in its newest version, on our website: RaceHub.Asetek.com



4.1.1 RaceHub Installation

After completing the download from our website, double-click the downloaded file to initiate the installation. Follow the on-screen instructions and install them in your desired directory. Once installed, open RaceHub using the shortcut on your desktop or in your programs folder.

4.1.2 RaceHub Updating

RaceHub will automatically notify you if there are available updates for the software. If you want to double-check, please go to RaceHub.Asetek.com and download the newest version.

RaceHub has a built-in feature that allows you to update the firmware on your devices automatically. It is recommended to always keep the firmware of your product up to date.

4.2 Introduction

RaceHub allows you to make a plethora of adjustments to your Handbrake. It will allow you to switch input modes, adjust the aRGB LEDs, calibrating the analog input maximum and minimum, together with adjusting the input curves.

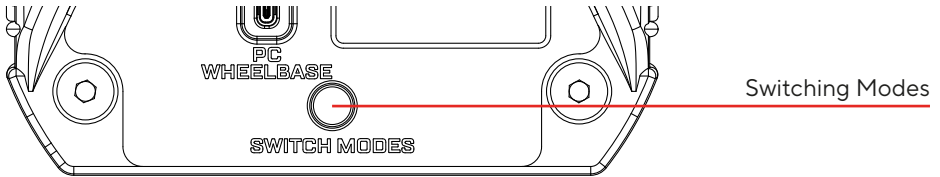
The settings you choose in RaceHub will apply to all supported games (see chapter 2.2, Compatibility), ensuring maximum performance and precision!

4.3 Switching input modes (Analog/Digital)

The handbrake supports both analog (variable) and digital (on/off) input modes, allowing compatibility with older games that may not recognize or properly respond to analog controls.

You can switch between these either:

- a. In RaceHub, by toggling Handbrake Mode in the handbrake calibration page, or
- b. On the device, by pressing the button on the bottom of the handbrake:



LEDs will indicate that the mode has changed.

The handbrake will always be in only one mode, depending on your choice, regardless of where you have switched it. (in RaceHub, on Device)

5. Maintenance

Owning an Asetek Racing handbrake means a minimum of maintenance is needed. However, we do have a few suggestions that will help you keep your handbrake feeling supreme. We suggest you clean the handbrake at regular intervals (6 months) with a soft, dry, clean cloth.

NOTICE

Do not use water or cleaning agents to clean the product

5.1 Spare Parts

We strongly advise you to use only original Asetek spare parts. Failure to do so will void your warranty.

If you have questions, or do not know if you have an original part, please refer to aseteksimports.com or consult the Asetek support. (See chapter 1.4)

6. Troubleshooting

Sometimes unforeseen issues occur. But do not worry, we are here to help.

If you are having issues we suggest consulting the FAQ and troubleshooting section of our Knowledge base at: www.asetek.com/simports/knowledge-base



If you are not able to find a solution on the FAQ please consult our friendly and knowledgeable support staff (See chapter 1.4).

7. Safety

1. The device must not be exposed to rain or humidity to avoid the risk of fire and electric shock.
2. We strongly advise you not to drive a vehicle immediately after racing simulation games.
3. This product is not intended for children under the age of 15 years.
4. Contains small pieces. Danger of swallowing!
5. Extended periods of gaming may cause health risks. Take a break of 5 minutes every 20 minutes, and do not play for more than 2 hours per day.
6. Keep hands, fingers, hair, clothing, and jewelry away from the product when in use.
7. Only one person may use the product at any given time. Keep other people away from the product when in use.
8. Keep the product away from children and pets.
9. Do not disassemble this product beyond what is described in the product manual.
10. This product contains components that the user cannot repair. Opening parts of the product may compromise the safe use of the product and will void the warranty.
11. Make sure the mounting of the handbrake and all its parts are secured tightly before use.
12. Check frequently that the handbrake is mounted securely.
13. Do not insert fingers in the handbrake openings while in use. Risk of injury.

8. De-commissioning & Sustainability

At Asetek we are fiercely committed to making the world a sustainable place. You can read more about Asetek's sustainability efforts, including our sustainability reports, here: www.asetek.com/company/sustainability



This symbol indicates that this product should not be thrown away with other household waste throughout the EU. To prevent possible harm to the environment or human health by uncontrolled waste disposal, you are responsible for recycling it so that it can promote the sustainable reuse of raw materials. To return your used product, you can use the regular return and collection systems.

8.1 Packaging

All packaging is to the extent possible, made of paper and cardboard. All our cardboard and paper products are labeled with the FSC mark, ensuring maximum reusability and that the forests are sustainably forested. Furthermore, we regularly check our vendors to make sure they are upholding their commitments.

About FSC: www.fsc.org/en/fsc-labels

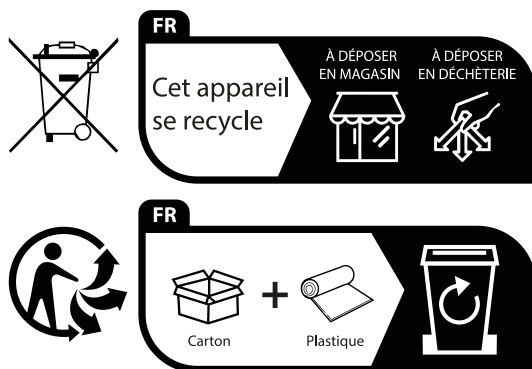
If you need to dispose of your packaging, please use the appropriate paper waste stream in your country, to dispose of the packaging. Naturally, we hope you want to keep it around – we are quite proud of it.



8.2 Product

Asetek SimSports® and Asetek Racing™ is committed to making products that will last. However, we also know that sometimes things break, and that should not result in a scrap and forget, producing even more e-waste to our planet. If you feel uncertain about how to recycle any Asetek SimSports® or Asetek Racing™ product, we suggest getting in touch with our dedicated customer support team, who will happily help you.

Contact support (See chapter 1.4)



Points de collecte sur www.quefairedemesdechets.fr
Privilégiez la réparation ou le don de votre appareil !

9. Declaration of conformity

We Asetek, as the manufacturer, declare that products from the brand Asetek are tested according to all relevant CE standards/regulations and passed all tests.

The complete Declaration of Conformity can be found and downloaded via:
www.asetek.com/simsports/declarations

***EXPERIENCE
ENGINEERED
REALITY***