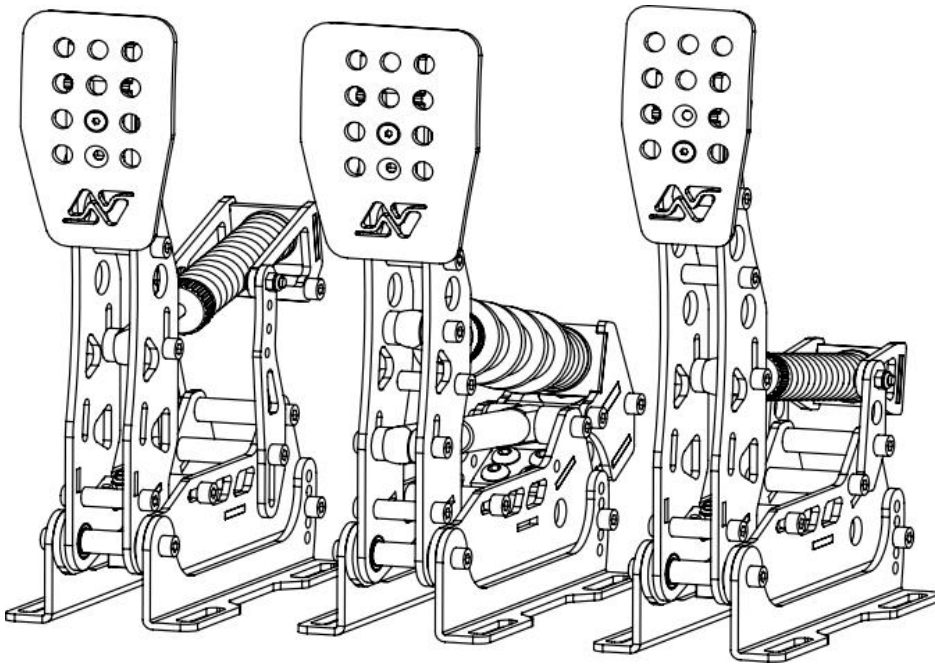




Simnet Racing SP Pro Loadcell Pedal

USER MANUAL

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1. SP Pro Loadcell Pedal Introduction

1.1 Features

- Precision laser cut stainless steel
- 100kg Loadcell Sensor
- 12-bit high-resolution of load cell
- Full adjustability for throttle,brake and Clutch
- Highly adjustable Heel plate in three direction
- Support different Haptic Motors
- Support RGB light for personality

1.2 Specifications

Pedal type	SP Pro 2 pedal set	SP Pro 3 pedal set
Pedal Main building Material	Stainless Steel, 3 mm thickness	Stainless Steel, 3 mm thickness
Pedal Surface treatment	Electrostatic powder coating	Electrostatic powder coating
Baseplate+Heel Support material	Option	Option
Brake sensor and resolution	Loadcell sensor 12 bit, 0-100kg	Loadcell sensor 12 bit, 0-100kg
Sensor sensitivity adjustment	Yes,three level	Yes,three level
Throttle,brake,Clutch travel adjustment	Yes	Yes
Hydraulic Cylinder	Optional	Optional
Brake configuration	3 type of hardness elastomer; 3 type of option springs. Total 343 possible brake feel	3 type of hardness elastomer; 3 type of option springs. Total 343 possible brake feel
Pedal angle/Position adjustment	Yes	Yes
Pedal face height adjustment	Yes,two level	Yes,two level
Pedal deadzone/Curve/Linearity adjustment	Yes	Yes
Pedal Real-time Pedal Output Display	Yes	Yes
Support Haptic	Yes,support different haptic motors, settable for each pedal set	Yes,support different haptic motors, settable for each pedal set
Support RGB light	Yes	Yes
Net Weight	3.3kg(No baseplate)	4.8kg(No baseplate)

1.3 What's inside the box

For standard 3 pedal set :

Throttle,brake and clutch

Simnet multi-function control box and USB cable

3 type of hardness×3 Elastomers

Hydraulic damper(included when choose the type)



For standard 2 pedal set:

- Throttle,brake and clutch
- Simnet multi-function control box and USB cable
- 3 type of hardness×3 Elastomers
- Hydraulic damper(included when choose the type)
- Tools and nuts



1.4 Optional Accessories



①HPM-M,Haptic Rubber Motor

②HPM-L,Haptic Linear Motor

③PTT, Pedal Tactile Transducer



Power adaptor
(When connect to
haptic,the power adaptor
is a must)



Bracket 26 mm,
Mount the haptic
motors to the pedal

2. Setup and Usage Guide

Thank you for choosing the Simnet SP Pro Loadcell Pedal. To ensure proper setup and optimal performance, please follow the instructions below:

Read Documentation: Before setting up, carefully read all the documents, labels and signs included in the package or attached to the products.

Firmware Updates: Stay updated by visiting [Simnet Racing Downloads](#) for firmware updates and game adaptation files. Ensure you download files only from official Simnet Racing sources to protect your legal rights.

Video Tutorials: For detailed setup instructions and usage tips, visit the official Simnet Racing YouTube channel at [Simnet Racing YouTube Channel](#).

Game Compatibility: Check the supported games for these pedals at [Simnet Racing Game Compatibility](#). Using them with unsupported games may affect functionality.

Important Notes:

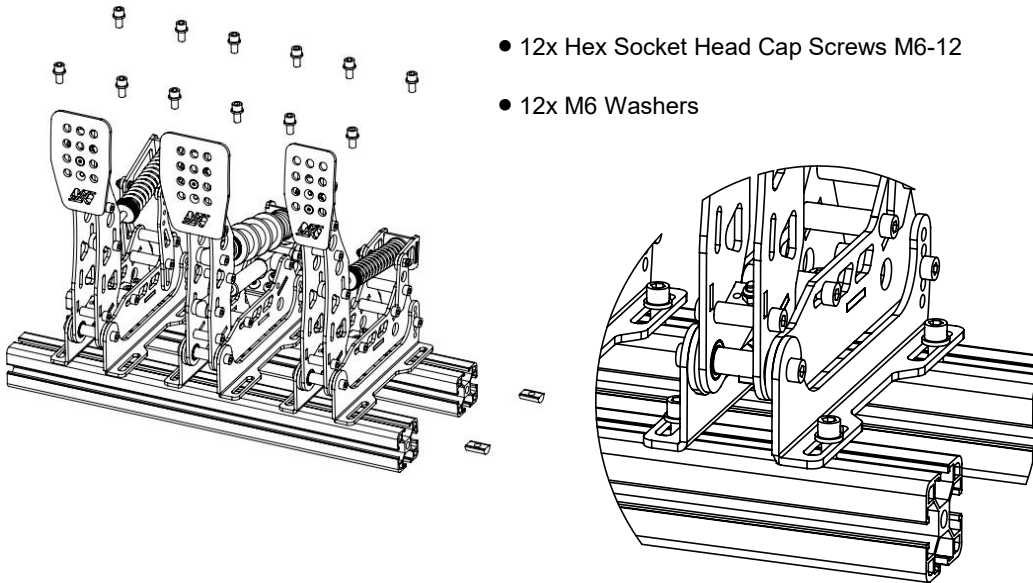
-  These pedals are intended for indoor use only.
-   Suitable for users 16 years and older.

2.1 Assembly Guide

This section outlines the steps for properly setting up and initializing your pedals.

The pedals are designed for use only when securely mounted to a sim racing rig. It is important to ensure they are firmly attached before operation. Avoid using the pedals without proper mounting, as they may move during use, which could lead to instability and potential injury.

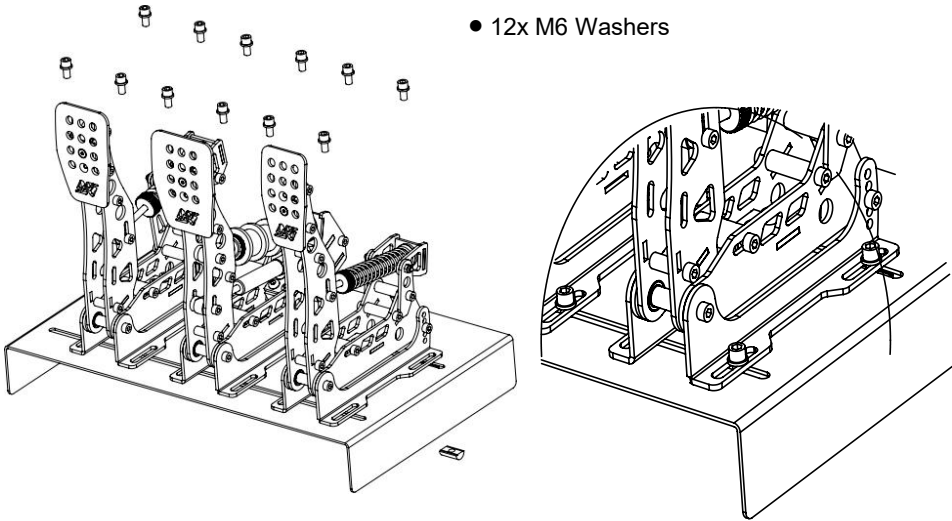
2.1.1 Pedal Installed on Extrusion Frame



Place the pedals on the frame and adjust the spacing of the frame as needed, then install and secure the pedals

2.1.2 Pedal Installed on normal racing rig

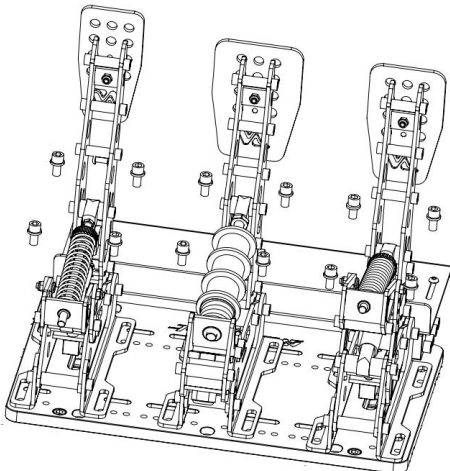
- 12x Hex Socket Head Cap Screws M6-12
- 12x M6 Washers



Place the pedals on the rig and adjust the spacing of the frame as needed, then install and secure the pedals

2.1.3 Pedal Installed on Simnet Racing Baseplate

- 12x Hex Socket Head Cap Screws M6-12
- 12x M6 Washers



Attach the pedal to the base plate using the included twelve M6-12 screws and M6 washers and tighten securely

Note: Check how to assemble the baseplate and Heel Support

[3.4.1 Assemble of Baseplate and Heel Support](#)

2.1.4 Pedal cable connection

Below is the cable connection for the pedals.

Front interfaces:

1) **Throttle, Brake, and Clutch:** Connect the cables for the throttle, brake, and clutch

2) **Haptic Throttle, Haptic Brake, and Haptic Clutch:** Connect the haptic motors for the respective pedals.

Rear Interfaces:

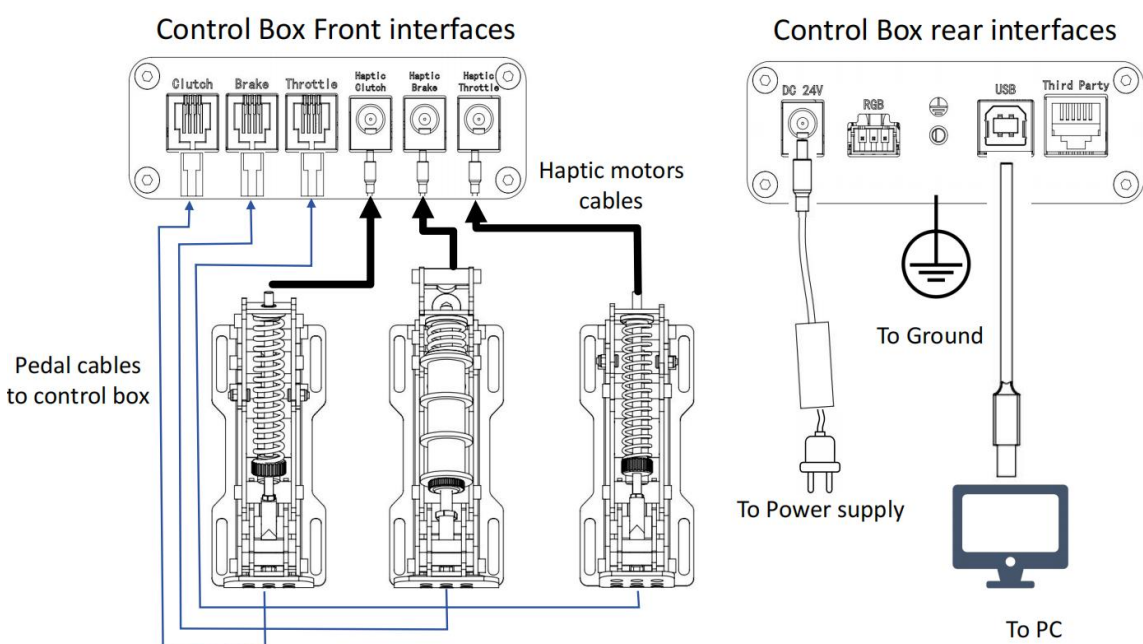
1) **DC 24V:** Connect to the power supply. Use the Simnet Racing power adaptor.

2) **RGB:** Connect for RGB light effects (5V)

3) **Ground:** Recommended to connect to ground to minimize signal interference (Provide in the package)

4) **USB:** Connect to the PC

5) **Third party:** Directly connect to a third-party wheelbase



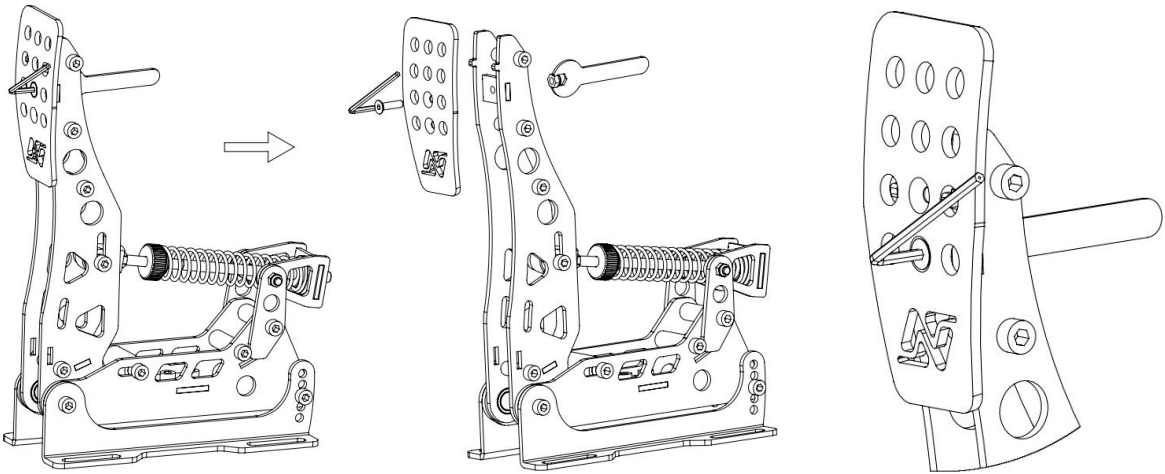
3 Pedal Adjustment

The SP Pro Loadcell Pedal is highly adjustable and come with default settings. You can modify the pedal settings based on your preferences and the specific games you play, allowing you to achieve the best immersive experience in your racing simulator.

Please carefully read the following setup instructions.

3.1 Throttle Pedal Adjustment

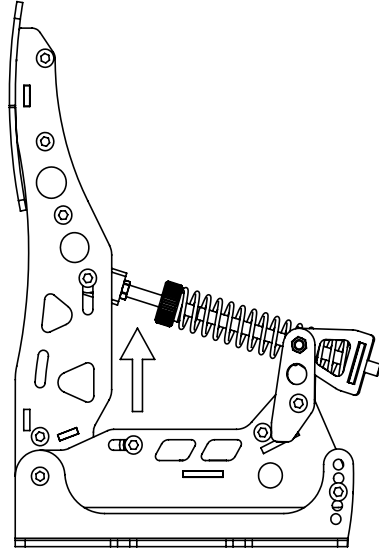
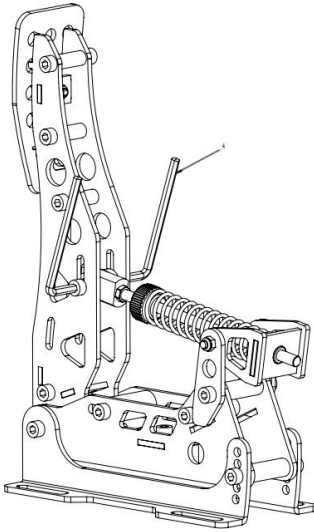
3.1.1 Throttle face plate height adjustment



Use a 2.5mm hex wrench and a 7mm wrench to loosen the screws and nuts. Move the throttle pedal plate up by one hole position, then tighten the screws and nuts to secure it.

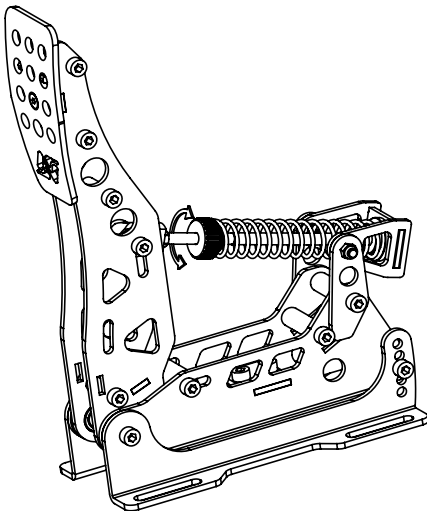
Note: The height adjustment of Brake and Clutch are similar to that of the Throttle

3.1.2 Throttle Resistance Force Adjustment



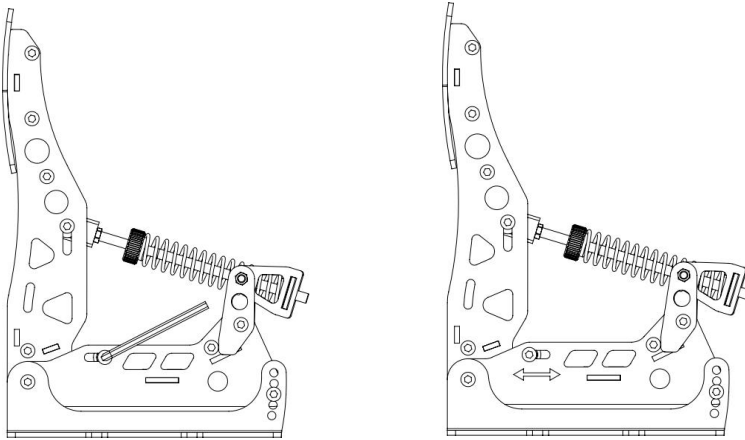
Use a 4mm hex wrench to loosen the screws on both sides.

Move the spring shaft up or down to change its position, thereby adjusting the throttle damping feel.



Adjust the rubber-tipped nut to increase or decrease spring preload, which will modify the throttle resistance accordingly

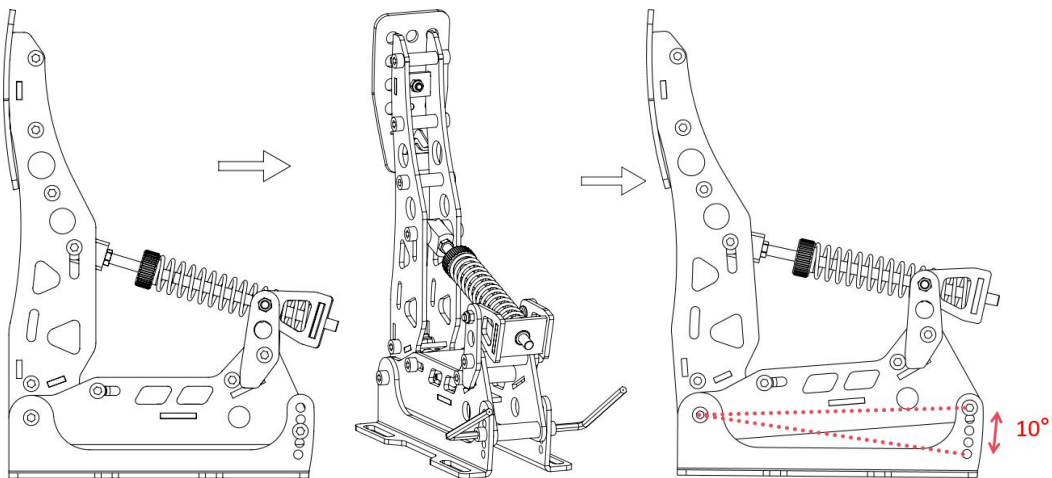
3.1.3 Throttle Maximum Travel Distance Adjustment



Use a 4mm wrench to loosen the screws on both sides.

Adjust left or right to change the maximum throttle travel

3.1.4 Throttle tilt angles adjustment



Use a 4mm wrench to loosen the screws on both sides.

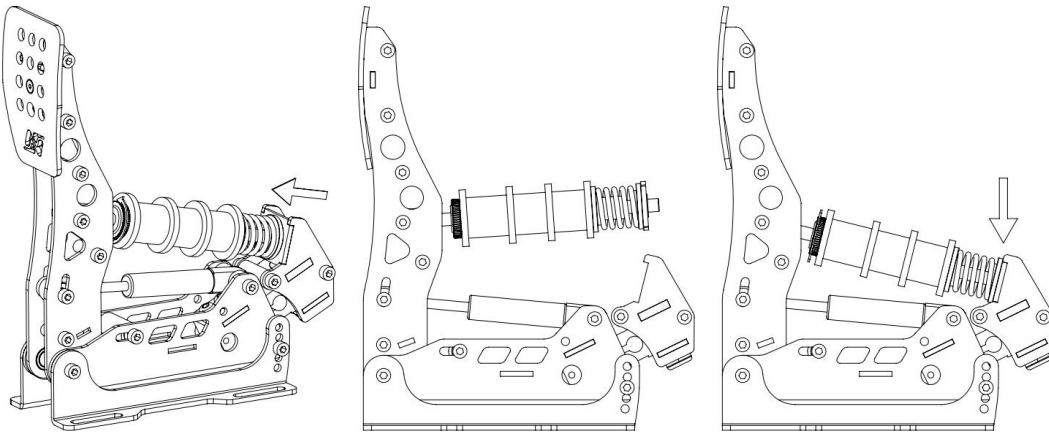
Place them in different holes to adjust the throttle to different tilt angles

3.2 Brake pedal adjustment

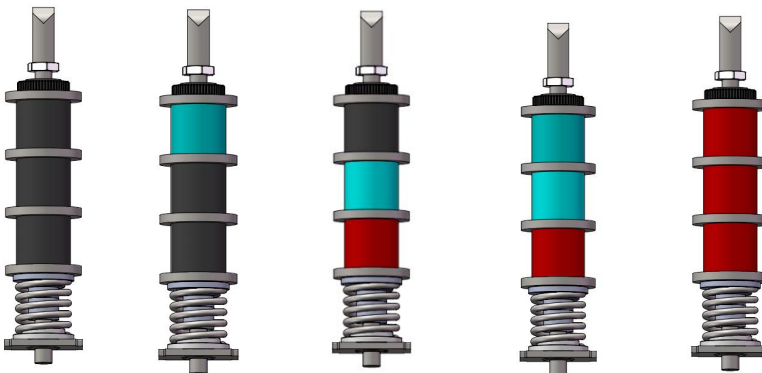
3.2.1 Brake face plate height adjustment

The adjustment of the brake face plate height is similar to that of the throttle, please refer to chapter [3.1.1 Throttle face plate height adjustment](#)

3.2.2 Brake feel adjustment--replace different elastomer combinations

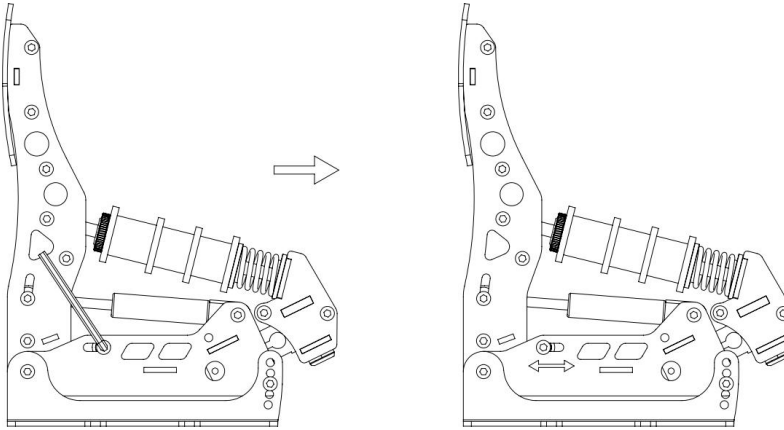


Use Loosen the knurled nut and manually push the component to remove the rubber part. Install the new rubber assembly in order and return it to its original positions



From left to right, soft-->hard

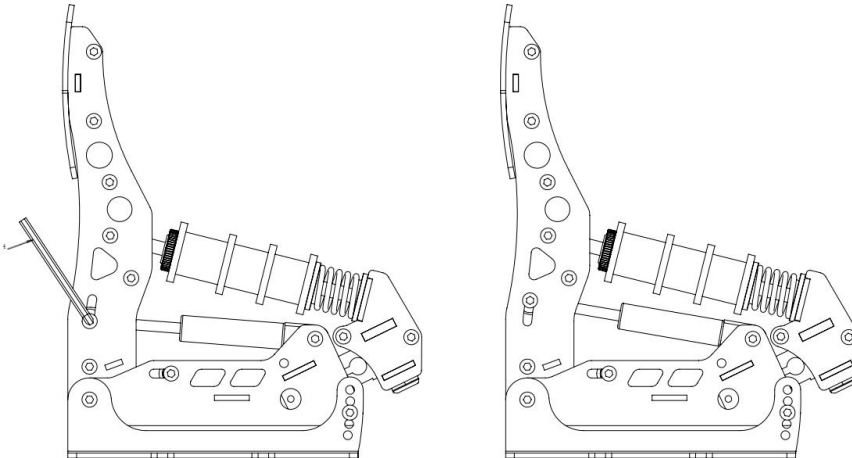
3.2.3 Brake Maximum travel distance adjustment



Use a 4mm wrench to loosen the screws on both sides.

Adjust left or right to change the maximum Brake travel

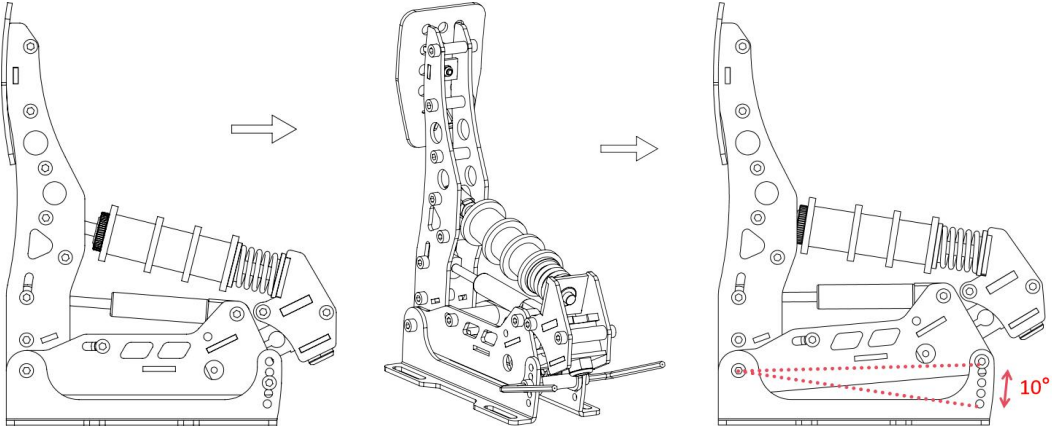
3.2.4 Brake Hydraulic Damping Adjustment



Use a 4mm hex wrench to loosen the screws on both sides.

Adjust up or down to change the hydraulic rod resistance

3.2.5 Brake Tilt Angles Adjustment



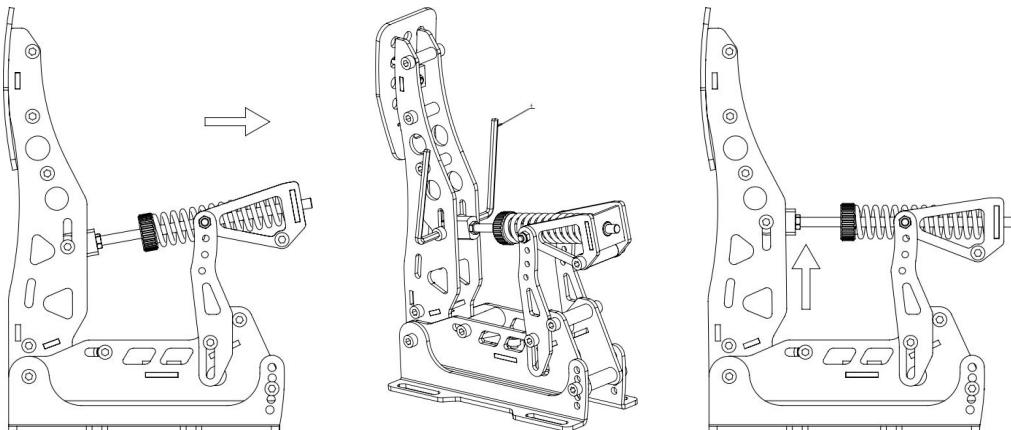
Use a 4mm wrench to loosen the screws on both sides. Place them in different holes to adjust the Brake to different tilt angles

3.3 Clutch Pedal Adjustment

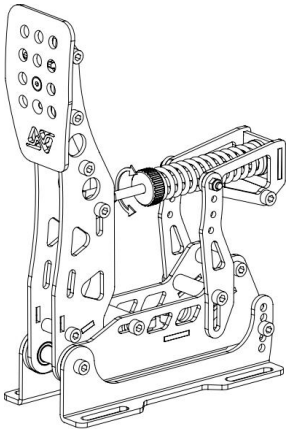
3.3.1 Clutch Face Plate Height Adjustment

The adjustment of the Clutch face plate is similar to that of the Throttle, please refer to chapter [3.1.1 Throttle face plate height adjustment](#)

3.3.2 Resistance Force Adjustment

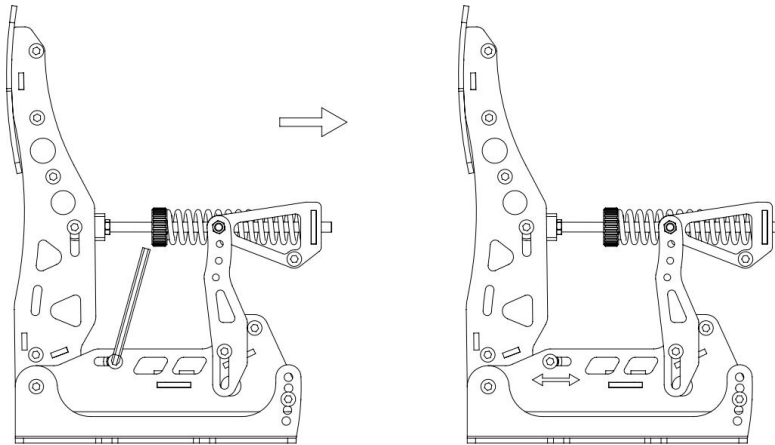


Use a 4mm hex wrench to loosen the screws on both sides. Move the spring shaft up or down to change its position, thereby adjusting the throttle damping feel.



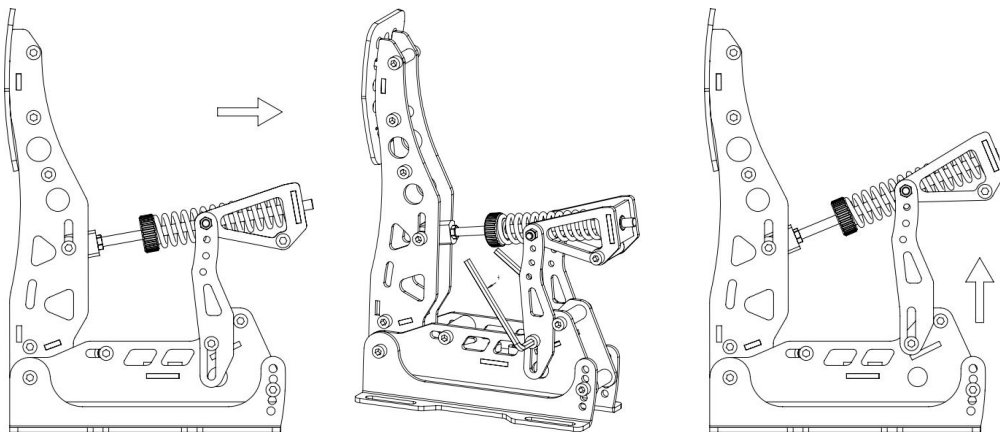
Adjust the rubber-tipped nut to increase or decrease spring preload, which will modify the Clutch resistance accordingly

3.3.3 Clutch maximum travel distance adjustment



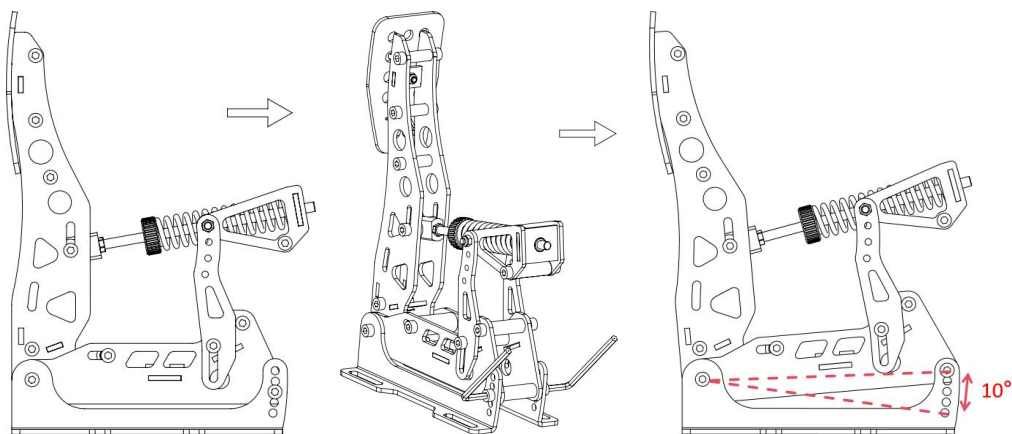
Use a 4mm wrench to loosen the screws on both sides. Adjust left or right to change the maximum Clutch travel distance

3.3.4 Clutch 3-stage fee adjustment



Use a 4mm wrench to loosen the screws on both sides. Adjust the position up or down to change the clutch feedback feel

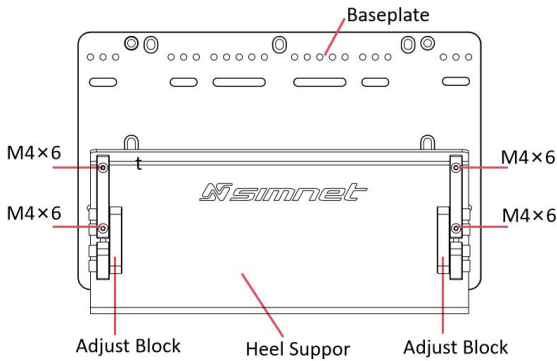
3.3.5 Clutch tilt angles adjustment



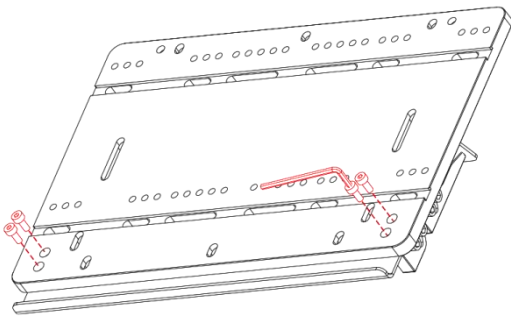
3.4 Option Installation

3.4.1 Assemble of Baseplate and Heel Support

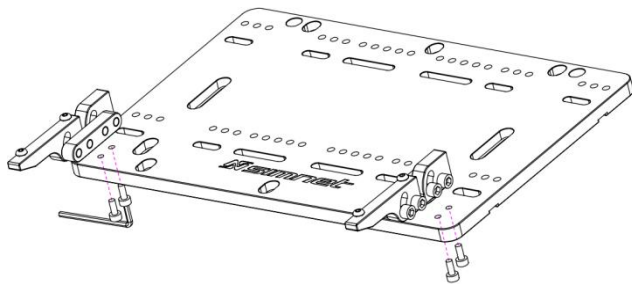
The baseplate and heel support come together with some parts pre-installed.



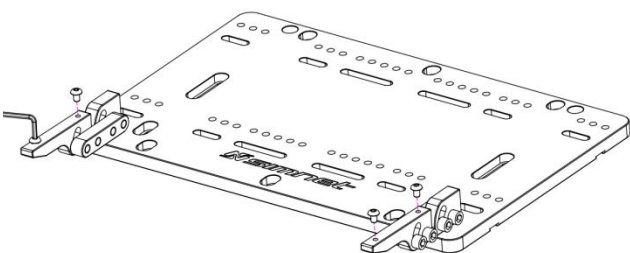
Remove the Baseplate and Heel Support from the package. The left image shows the front side of the Baseplate.



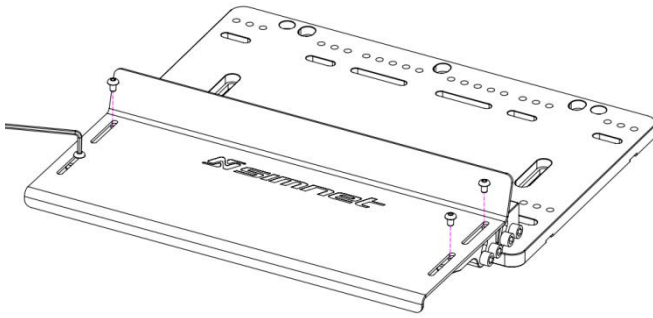
Turn the Baseplate over and remove the four pre-installed screws (M4×10) from the rear using a 3mm wrench. This will separate the Baseplate, two Adjust Blocks, and Heel Support into four parts.



Attach the Adjust Blocks to the front side of the Baseplate using the four screws (M4×10) previously removed.



Remove the four pre-installed screws (M4×6) from each Adjust Block (two screws per block)



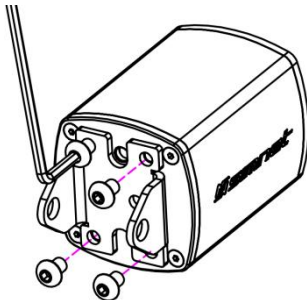
Secure the Heel Support to the Adjust Blocks using the four screws (M4×6) taken from the Adjust Blocks.

Your Baleplate and Heel Support assembly is now complete.

3.4.2 Installation of Haptic Motors

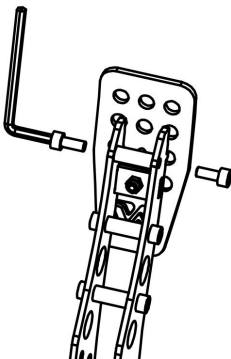
There are three types of haptic motors: HPM-L (Haptic Linear Motor), HPM-R (Haptic Rumble Motor) and PTT (Pedal Tactile Transducer). They all have a similar installation process, as they use the same mount bracket.

HPM-L Installation



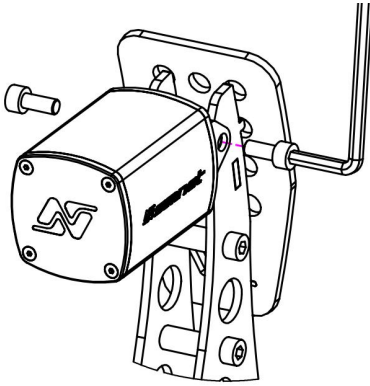
Attach the Mount Bracket

Use a 2.5mm wrench to secure the mount bracket to the HPM-L by fastening four M4*6 screws.



Use Remove Face Plate Screws

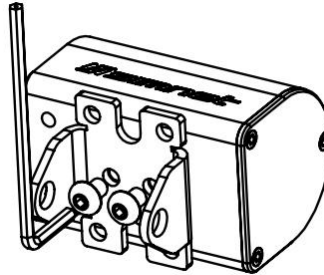
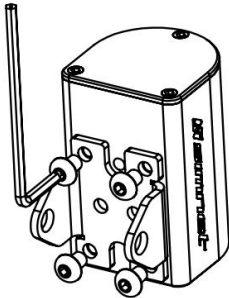
With a 4mm wrench, remove the screws located at the back of the face plate



Position and Secure it

Place the HPM-L with the mount bracket in its designated position. Reattach the screws you removed earlier to secure it firmly.

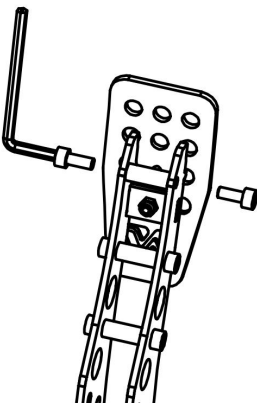
HPM-R Installation (Two ways to install)



Attach the Mount Bracket

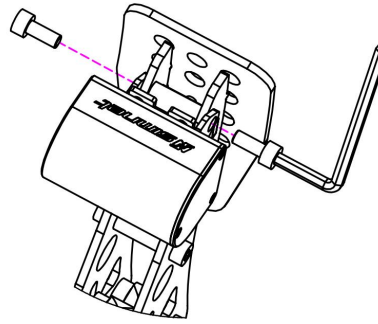
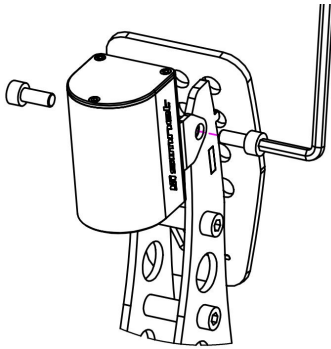
Use a 2.5mm wrench to secure the mount bracket to the HPM-R by fastening four M4*6 screws

Or reverse the HPM-R by 90° and secure it by two M4*6 screws



Use Remove Face Plate Screws

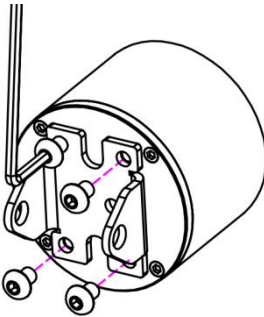
With a 4mm wrench, remove the screws located at the back of the face plate



Position and Secure it

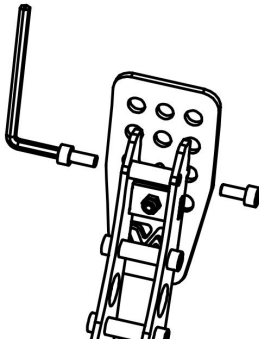
Place the HPM-R with the mount bracket(in two ways) in its designated position. Reattach the screws you removed earlier to secure it firmly.

PTT Installation



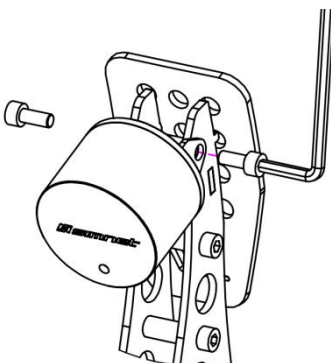
Attach the Mount Bracket

Use a 2.5mm wrench to secure the mount bracket to the PTT by fastening four M4*6 screws.



Use Remove Face Plate Screws

With a 4mm wrench, remove the screws located at the back of the face plate



Position and Secure it

Place the PTT with the mount bracket in its designated position. Reattach the screws you removed earlier to secure it firmly.

Haptic Motor Cable Management Installation

Each haptic motor comes with a 1-meter long cable for flexible routing.

Attach the provided cable clip to the pedal body and secure the haptic cables for better organization.

4. Software

Simnet Simconnector Manager will automatically notify you if there are available updates for the software. If you want to double-check, please go to

www.simnetracing.com/downloads and download the newest version.

Simconnector Manager has a built-in feature that allows you to update the firmware on your devices automatically.

5. After-sales Policy

Warranty Policy

Simnet Racing offers a warranty covering defects in materials and workmanship for all products sold through www.simnetracing.com. This warranty applies only to original, unaltered, and unmodified products. It excludes damage caused by improper use, accidents, neglect, or natural wear over time. Products purchased from the Simnet Racing Official Store have a warranty period of one year. To ensure warranty coverage, avoid intentional damage to the product.

How to Obtain Warranty Services

If your product is under warranty and requires service, please contact us at support@simnetracing.com with proof of purchase, including a warranty card or valid documents.

Service Regulations

- The warranty card is essential for repairs and will not be reissued if lost.
- The warranty does not cover incidental or consequential damages, lost profits, or work stoppages.
- Parts replaced during maintenance will not be returned.
- Warranty service starts from the date of purchase.
- If manufacturing defects are identified, after-sales service will be provided first. Refunds may be considered if the issue cannot be resolved.

- In case of conflicts between this warranty and national laws, the latter will take precedence.

Instances Where Warranty Service Is Not Provided

- Missing invoices, certificates, or warranty cards.
- Altered warranty cards or product information discrepancies.
- Damaged or missing product barcodes.
- Normal wear and tear of consumable materials.
- Damage from lightning strikes or electrical issues.
- Accidents, disasters, or wars.
- User-caused damage, unauthorized repairs, or modifications.
- Software issues or third-party software not installed by Simnet.
- Damage from improper use, storage, or virus infections.
- Products not distributed by Simnet Racing or outside the warranty period.

Thank you for choosing Simnet Racing!

6. Important Safety Information

To ensure maximum safety while using your SP Pro Loadcell Pedals, please follow these guidelines:

- If troubleshooting fails, unplug the product and contact support or your local distributor. Do not attempt repairs yourself.
- Keep the pedals away from rain or moisture to avoid fire or shock hazards.
- Use only the provided power supply and accessories or those approved by the manufacturer.
- Always use a standard wall outlet for AC power to prevent damage.
- Turn off and unplug the device when not in use or during a lightning storm.
- Do not disassemble the pedals (this voids the warranty). Repairs should be done by Simnet's official service center.
- The product is recommended for users over 16 years old. Children under 7 are prohibited from use.

When Using the Simulator:

- Force feedback is strong, and the device contains small components. Children under 16 should not operate it alone. Parents must adjust force feedback in child mode and supervise.
- First-time users should gradually adjust force feedback to an appropriate level.
- Loose items like hair, cables, or clothing should be kept away from the simulator.

- Consult a doctor if you have a history of seizures, as some patterns may trigger them.
- High-torque bases can cause hand injuries if force feedback is too strong. Release the wheel if necessary and adjust feedback settings.
- The equipment has moving parts and sharp edges; use caution to avoid injury.
- Limit force feedback gaming to 20-40 minutes to avoid health risks, and wait at least 1 hour before driving a real car.
- If abnormalities occur, stop using the device and contact Simnet's service center.
- Follow Simnet's official channels for product updates.

7.Find us

If you have any questions or concerns, feel free to reach out to us:

- **Email:** info@simnetracing.com
- **Website:** For more information, visit www.simnetracing.com
- **Social Media:** Connect with us on social media platforms.



Facebook



YouTube



Discord

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