

P1000 Modular Pedals

Instructions-Manual



SIMAGIC
KEEP
RACING

Before purchasing and using the product, please read this manual.

The data on the page is theoretical and is derived from SIMAGIC's test environment. Actual usage may vary slightly due to product usage conditions and environmental factors. Please refer to the actual usage situation.

We will provide product information, specifications, and features as accurately as possible. At the same time, we may adjust and correct the textual descriptions, image effects, etc., on the following pages in real time to match the actual product performance, specifications, indices, components, etc. Due to real-time changes in production batches and production supply factors, if there is a need for the aforementioned modifications and adjustments, we regret that we may not provide specific notifications. Please refer to the latest information released through official channels such as www.simagic.com for the most up-to-date information.



Video installation and
usage tutorial

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Coming from modest backgrounds, but infected by the need for speed.

Although we had some talent in real life racing, the lack of funds to fuel that passion was not enough to satisfy our addiction in comparison to real life motorsports and is still beyond the reach of many. However, we are determined to find ways to improve our skills and make practice effective and affordable.

It started with us asking ourselves, “How do we find ways to satisfy this goal in the most immersive ways?”

In 2018, fueled by this passion and armed with advanced degrees in engineering and control systems, SIMAGIC was born.

We went about developing the kind of wheelbase we wanted and needed. It had to be direct drive for unmatched realism, yet affordable. The goal was to make it easy to use and built with high quality components to last; using real carbon fiber and metal where possible, with high quality components and zero compromises. After all, we were in Shenzhen, the Silicon Valley of the East, factory to the world, the talent and resources were all here.

While we were at it we thought to ourselves, why not make it just like real race cars with a motorsports grade QR system. It's never been done before so we had to develop new ways of power delivery and data communication to do this. The result is the much loved, and flatteringly imitated, QR system and 2.4G wireless communications system that have become so familiar in sim racing today.

August 2018, the M10 was introduced to the world and it catapulted SIMAGIC into the consciousness of sim racers all over. It has been 3 years since and what followed after were the GT Wheel Series, FX Wheel Series, Alpha Servo Base Series, Pedals, Sequential Shifters, Handbrakes and more, the SIMAGIC eco-system is only just the beginning.

3 years is neither short nor long. Short for the amount of innovation and products that we have developed, but long enough to have proven that we are here for the long haul and our products have stood the test of time and our commitment to all who have believed in us.

One thing remains unchanged, we started with motorsports as a passion and we will continue to drive this point in every product we develop and every innovation we come up with. Everything we do is benchmarked and tested by real drivers who believe in the art of sim as a tool for real life driving. We will continue to commit ourselves to being the choice of real drivers and those who strive to be one. This will always be the one thing that sets us apart from everyone else. The game just got seriously fun, so

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P1000 Modular Pedals



P1000
Standard



P1000-RS
Hydraulic
Pedals

P1000 Formula Modular (Dual) Pedals



P1000-F
Standard



P1000-FRS Hydraulic
Pedals

P1000i Modular Inverted Pedals



P1000i
Standard

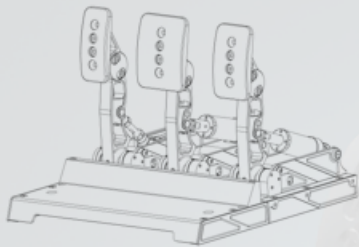


P1000i-RS Hydraulic
Pedals

- *High Integration, Professional & Competitive
- * Modular, Supports Multiple Add-Ons
- * Jointly Developed with Professional Race Engineers
- * Brand New Optimized Design, Easily Installed without the Need for Repeated Adjustments
- * Comes with a Suspension Installation kit to Meet Various Needs
- * Innovative Brake Elastomers, Endless Combinations using Various Gels
- * Dual Sensors with Convenient Switching, Increased Precision, More Professional
- *Aluminum Alloy CNC Processing, Sturdy and Durable
- *Multiple Adjustments to Meet the Usage Habits of a Wide Range of Players
- *Optional Linear Electronic Assist Module, Independently Developed Linear Motor
- *Optional Linear Electronic Assist Module, Parameterised Adjustment of Vibration Frequency and Amplitude
- *Optional Hydraulic Brake System, Better Simulates the Damping and Rebound of Real Car Brakes
- *Rich DIY Accessories to Meet Different Needs from "entry Level" to "Pro Level"
- *Optional Hydraulic Throttle System, Uses Hydraulic with Nitrogen Gas Spring, Compared to Traditional Metal Springs, It Doesn't Experience Deterioration



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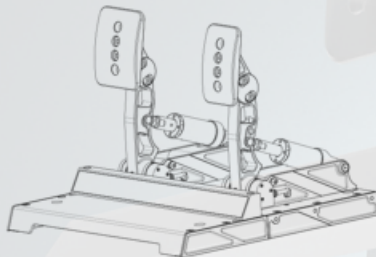


P1000 Modular Pedals

Length x Width x Height: 334.8x336x267 (mm)

Standard net weight: 5.65kg

Hydraulic net weight: 6.00kg

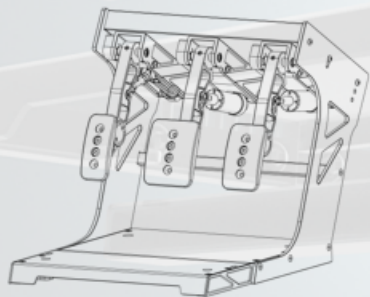


P1000-F Modular (Dual) Pedals

Length x Width x Height: 334.8x336x267 (mm)

Standard net weight: 4.65kg

Hydraulic net weight: 5.00kg



P1000i Modular Inverted Pedals

Length x Width x Height: 348x489.8x368.5 (mm)

Standard net weight: 7.65kg

Hydraulic net weight: 8.00kg

Product Name	Resolution	USB connection	Adjustable Travel	Adjustable Spring Force Level	Hall angle sensor/ Loadcell sensor	Loadcell sensor	Haptic Pedal Reactor	Hydraulic Cylinder	Inverted Installation	Pedal Plate	Angle/Position Adjustment	Adjustable Linearity	Adjustable Brake Force	Adjustable Deadzones	Pedal control box	Building Material
P1000/P1000i	12Bit (4096) 【High accuracy sensor】	PC, SIMAGIC wheel base	Supported	Clutch, Brake	(Throttle - Hall angle sensor) (Brake-Hall angle sensor/Load cell sensor) (Clutch-Hall angle sensor)	100KG	Optional	Optional	P1000i	Anodized Aluminum Alloy	Supported	Supported	Supported	Supported	Included	CNC Aluminum Alloy
P1000F/P1000-FRS	12Bit (4096) 【High accuracy sensor】	PC, SIMAGIC wheel base	Supported	Brake	(Throttle - Hall angle sensor) (Brake-Hall angle sensor/Load cell sensor)	100KG	Optional	Optional/Supported	Optional (Can't change the oil container after inversion)	Anodized Aluminum Alloy	Supported	Supported	Supported	Supported	Included	CNC Aluminum Alloy
P1000-RS/P1000i-RS	12Bit (4096) 【High accuracy sensor】	PC, SIMAGIC wheel base	Supported	Clutch, Brake	(Throttle - Hall angle sensor) (Brake-Hall angle sensor/Load cell sensor) (Clutch-Hall angle sensor)	100KG	Optional	Optional/Supported	Optional/Included	Anodized Aluminum Alloy	Supported	Supported	Supported	Supported	Included	CNC Aluminum Alloy



Bidirectional Sensors



Upgradeable



CNC Manufacturing



Concave Clutch Design



Adjustable Height



Adjustable Stroke



Optional Springs



Adjustable Strength



Load cell sensor and Hall angle sensor can be switched freely

A) For civilian cars with long travel distance, Hall angle sensors are more accurate

B) For racing cars with short travel distance, Load cell sensors are more accurate



Modular integrated design,
quick replacement of Rubber
Pads, Supports multiple
combinations.

There are 27648 different
combinations for you to
choose from, which is enough
to meet everyone's
preference.



90 P



80 P



80 R



70 R

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RECOMMENDED BY RACE ENGINEERS

P1000 standard version pressure pads

Red*3	Blue*3	Grey*2	Note: Select Loadcell sensor
Red*2	Blue*3	Grey*3	Note: Select Loadcell sensor
Black*8			Note: Select Hall Angle sensor

Optional pressure pads for P1000

Red*8		Note: Select Loadcell sensor
Red*4	Blue*4	Note: Select Loadcell sensor
Grey*8		Note: Select Hall Angle sensor



P1000-RS hydraulic modular pressure pads

GT4

[For endurance]	[For sprint]
Red*4 Blue*3 Grey*2	Red*3 Blue*3 Grey*1 Restrictor*2

F4



Red*9

FORMULA RENAULT



Red*6

Restrictor*3

GT3

[For endurance]	[For sprint]
Red*5 Blue*4	Red*3 Blue*3 Restrictor*3

LMP

Blue*5	Red*2	Restrictor*2

FOR SPORTS CARS

Black*9	Black*7 Restrictor*2
Grey*9	Grey*7 Restrictor*2

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The Pedal Spacing Is Adjustable



Pedal Height Can Be Adjusted



Throttle Strength Is Adjustable



Pitch Angle Is Adjustable



Adjustable Pedal Stroke



Quick Clutch Adjustment

P1000 Modular Pedals



Mounting Screw Pack



Throttle Spring



Clutch Pedal Springs



Rubber Pads



Profile L-Plate



USB Data Cable



Heel-Stop



Warranty Card



Barrel Rubber Pads

P1000 Formula Modular (Dual) Pedals



Mounting Screw Pack



Throttle Spring



Rubber Pads



Profile L-Plate



USB Data Cable



Heel-Stop



Warranty Card



Barrel Rubber Pads

P1000i Modular Inverted Pedals



Mounting Screw Pack



Throttle Spring



Clutch Pedal Springs



Rubber Pads



USB Data Cable



Inversion Kit



Warranty Card



Barrel Rubber Pads



P1000 External Power Supply
Required (sold separately)



Haptic Pedal Reactor



Hydraulic Module



Sim Ray - Bar



Sim Ray - Heel Stop



Hydraulic throttle

OPTIONAL ACCESSORIES *REQUIRES P-1000 ACCESSORIES POWER SUPPLY (SOLD SEPARATELY)



P-1000 Long Throttle Plate



P-1000 Clutch Pedal



P-1000 Inversion Brackets



P-1000 Heel-Stop



Optional Brake Rubbers

P-HPR Quick Guide

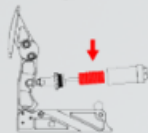


2. Lift up the brake cylinder and unscrew the red cap to access the rubbers. When disassembling and assembling, note that the groove at the arrow is facing down.

Hardness: black spray +blue +red (from soft to hard)

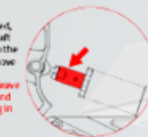


Note: it is recommended to use no more than 4 rubber pads in the cylinder.



4. When assembling, ensure the groove is facing downwards then click the brake cylinder onto the ball head so it's seated in the groove.

5. Once the cylinder is installed, tighten the brake cylinder shaft until there is no gap between the load coil ball end and the groove on the back of the cylinder. (insufficient tightening may leave a gap between the ball end and the cylinder groove, resulting in abnormal wear in the brake cylinder groove)



6. Hold the shaft of the brake cylinder and tighten the jam nut until it is snug against the cylinder shaft to prevent it from loosening during use.

Ensure the jam nut is tightly seated against the shaft of the cylinder. You are now ready to race!



1.0 List of accessories

Flat Head Socket Cap Screw(M4-10)*6
Allen Key*1 (2.5mm)

Cable Clip*2

2.0 Installation

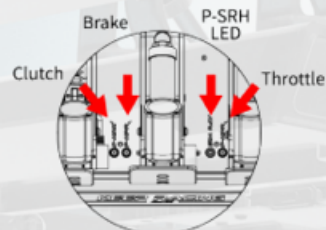


Install the P-HPR mounting plate using two Flat Head Socket Cap Screws(M4-10) as shown in the figure



Remove the two screws holding the pedal plate, then use four Flat Head Socket Cap Screws (M4-10) to assemble P-HPR.

3.0 Connection



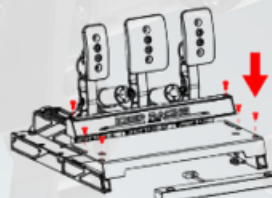
Each pedal's P-HPR should be connected to the appropriate port on the base plate

4.0 Cable Organization

Stick the included Cable Clip to the pedal body and attach the P-HPR cable for better organization

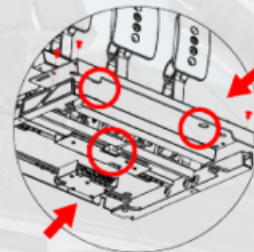
P-SRB Quick Guide

1.0 Installation



Remove the Heel Stop and mounting screws on the bottom plate as shown

2.0 Connection



1. Attach the P-SRB to the bottom plate using the magnetic connection
2. Connect the data cable to the magnetic port
3. Reassemble the bottom plate and the Heel Stop

P-SRH Quick Guide

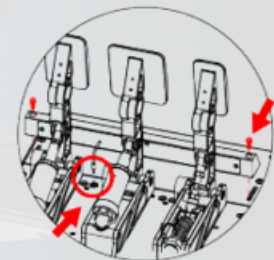
1.0 Installation

- Fully-Threaded Bolt (M5-16)*2
- Allen Key*1 (4mm)



Remove the original Heel Stop by removing the two mounting screws

2.0 Connection



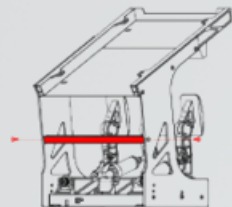
Install the P-SRH at your preferred Heel Stop position and connect it to the SIM RAY interface

P-HYS/P-HYSi Quick Guide

1.0 List of accessories

- Allen Key *3 (1.5mm/2mm/2.5mm)
- Open spanner *3 (10mm/11mm/13mm/17mm)

2.0 Removing the rubber brake cylinder



1. Loosen the two screws on both sides of the reinforcement bar with an Allen Key, remove the bar, then place the pedals in the inverted position



2. Loosen the jam nut on the back of the brake, then spin the silver rod clockwise until completely loosened

4. Lift the brake cylinder up then proceed to the next step (When disassembling and assembling, note that the groove at the arrow is facing down)



5. Remove the locking cotter pin from the Clevis pin

6. Remove the Clevis pin from the pedal arm



7. As shown in the figure, remove the top two screws and loosen the locking screw. Remove the protective cover from the Load Cell

3.0 Installing the hydraulic brake cylinder



1. Use the included wrench to remove the ball head from the sensor
2. Replace the Ball Head connector with the P-HYS Connector



3. Place the ball head into the slot (clevis pin isn't required yet)



4. Align the pin holes on both the connector and P-HYS then insert the pin (this will keep everything aligned for the next step)



5. Tighten the jam nut on the P-HYS sensor connector using the supplied wrench



6. With the P-HYS sensor connector now secured, remove the pin from the assembly

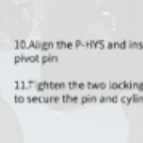


7. Lift the rear part of the P-HYS cylinder upwards

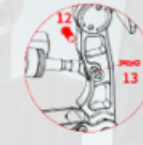
8. Slide the cylinder off the pedal arm, then remove the P-HYS cylinder from the frame



9. Install the sensor protector

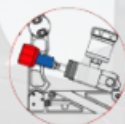


10. Align the P-HYS and insert the pivot pin
11. Tighten the two locking screws to secure the pin and cylinder



12. 插入球芯
13. 插入球芯的插销

4.0 Changing the Pressure Pads



1. Loosen and remove the preload cap, then remove the pressure pads from the container (if the pressure pads are stuck to the cap, simply pry it off)

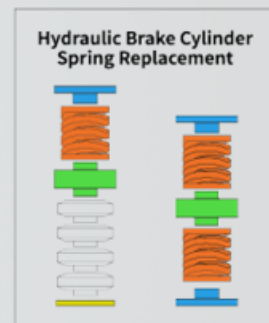
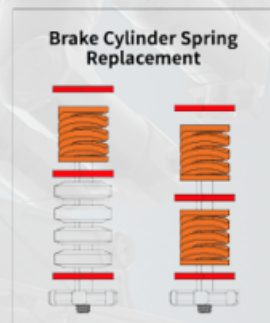
Warning! Don't step on the pedals after the pressure pads are taken out!

2. Using the suggested combinations, create and place the new pressure pads onto the preload cap, then insert the preload cap into the container and tighten the cap



- Rubber Cylinder: Support Washer *3
- Hydraulic Cylinder: Support Washer *1
- Die Spring *10

- Hydraulic Cylinder: T-Shaped Support Washer *2
- Hydraulic Cylinder: Connecting Washer *1





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This product is ready to use out of the box, and it comes with the latest firmware. For information about firmware upgrades, please check <https://simagic.com/download> or visit the official public account "SIMAGIC Technology."

The related files are game adaptation files developed by SIMAGIC for SIMAGIC-compatible devices. To safeguard users' legal rights and interests, please download all files through SIMAGIC's designated channels.

Please visit www.simagic.com/telemetry-support to access the list of games supported by this product. Note that using this product in non-supported games may result in certain functions not working as intended.

Information on the product packaging or included in the box, as well as the data on the page, are theoretical values obtained by SIMAGIC in a testing environment. Actual usage may vary slightly due to product usage conditions and environmental factors. Please refer to the actual usage situation.

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The product images and content on the above pages are for illustrative purposes only. The actual product effects (including but not limited to appearance, color, size) and display content (including but not limited to background, UI, illustrations) may vary slightly. Please refer to the actual product.

This instruction content serves as a general description for a single product (including different styles under a single product). The product descriptions demonstrated in this content are not sales specifications. The specific product style is based on what the user purchases.



This product is only intended for simulated driving-related activities. Please differentiate between simulation games and reality and practice safe driving.

SIMAGIC establishes dealer terms and consumer product warranty terms, requiring official partners such as dealers and agents to provide consumers with standardized SIMAGIC warranty services to safeguard consumers' legal rights. For information on authorized dealers, please visit simagic.com/experience.

SIMAGIC adheres to a service spirit that is responsible for users and ensures user confidence, striving to create the ultimate user experience. Regarding these warranty terms, if adjustments are necessary, we regret that specific notifications may not be provided. Please refer to the latest content released through official channels such as the official website.

Please avoid causing damage to the machine intentionally. Do not deviate from the guidance of official or officially authorized personnel when performing non-normal hardware or system operations on the machine. For detailed usage instructions, please visit www.simagic.com/pro-tutorial or check the official public account "SIMAGIC Technology" and other SIMAGIC official information channels.

【Warranty Terms】

The product warranty card included inside the product packaging box should be carefully preserved by the user as proof for repairs.

The warranty period is twelve months from the date of purchase.

During the warranty period, if there are issues with the machine's components, materials, or craftsmanship under normal use and maintenance, and the problem is confirmed after inspection, the company will provide free repairs and replacement parts.

【Disclaimer】

Damage to the machine caused by incorrect installation or operation.

Repairs, modifications, alterations, or self-replacement of any internal components by non-technical personnel of the company.

Alteration of the machine serial number or inconsistencies with this certificate.

Damage caused by negligence, water, or infiltration of other substances into the machine. Malfunctions or damage caused by accidents or natural disasters.

Users are prohibited from personally opening the machine's casing, as doing so may void the warranty and other guarantees.

- * The equipment and power supply must not be exposed to a humid environment to prevent short circuits or electric leakage, which may lead to equipment damage/malfunction and fire incidents.
- * It is prohibited to expose the equipment to heat sources.
- * The equipment must be connected using the factory-supplied power and power cables. Even if the voltage matches, the use of non-original matching power and power cables is prohibited to ensure electrical safety.
- * Only use AC power provided by a standard wall outlet to avoid damage to the product.
- * When terminating use, please turn off the buttons and power equipment to prevent accidents.
- * In case of prolonged inactivity, unplug the power cord to disconnect the device from the power source.
- * To ensure safety, component replacements must be carried out or authorized by SIMAGIC's official repair center.
- * The device contains components that users cannot repair. Users are prohibited from opening the device's casing to avoid injury from the motor.
- * Children under 6 years old are prohibited from using this device.
- * The device has significant force feedback and contains small components. Children under 13 years old are prohibited from operating or using it independently. When in use, parents must adjust the force feedback parameters in child mode and supervise.
- * For first-time users, adjust the force feedback gradually to an appropriate level.
- * First-time users or those experiencing the device should be guided by the device owner.
- * Loose clothing items such as hair, cables, skirts, etc., should be kept away from the simulator.
- * When using a high-torque base, the peak force feedback may cause hand injuries. If the feedback is too strong, release your hands immediately and adjust the feedback intensity parameters promptly to prevent potential accidents.
- * It is recommended to limit force feedback gaming time to 1 hour to avoid health risks from excessive use. Take a break for 5 minutes every 20 minutes, and the daily driving limit per person is 2 hours. Users should refrain from driving a real car for at least 1 hour after finishing the game.
- * If any abnormalities are detected, stop using the device immediately and seek assistance from SIMAGIC's official or authorized service center.
- * Please follow SIMAGIC's official website and public platforms for the latest product information.



Facebook



Instagram



X



WeChat



Bilibili

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AND SHARE YOUR PASSION

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