

**SIMAGIC**

P2000 PEDAL USER MANUAL(VERSION V1.1)

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## Welcome to the Direct Drive Revolution



**P2000-R**



**P2000-RF**



Founded in July 2018 in Shenzhen, a young city of dreams, SIMAGIC Tech Co., Ltd has become a leading force nationwide in the sim-racing field, who provides high-end simulation devices to customers and overall solutions to the industry.

"Full dedication to promoting sim-racing culture" is SIMAGIC's cardinal principle and spirit. "Leading the trend of Sim-racing technology and innovation" is the goal of our branding. With that belief in mind, we devote ourselves to filling the vacancy in China's sim-racing industry. Our innovation and optimization of products never stop. WE are in the vanguard of sim-racing technology. It's our mission to build smart and advanced sim-racing equipment for car-racing game lovers, reproduce authentic racing experiences for players, and provide a brand new sim-driving application for the driving industry.

Jinquan Li, founder and CEO of SIMAGIC, graduated from Shenzhen University with a master's degree in Control Theory and Engineering. His commitment lies deep in the study of control system and driving mechanism. With his team, plus equipped with passion and professionalism, they have been through a 3-year journey of sweat and effort preparing for the best. After the rollout of its first commercial Direct Driving Wheelbase in August 2018, SIMAGIC made its name nationwide. Three years were rather short but long enough for SIMAGIC's innovation to go forward. M10 Base, GT Wheel Series,  $\alpha$  Servo Base, Pedals, Sequential Shifter, and more, the SIMAGIC family is booming. Now, we have become the only sim-racing company that integrates R&D, production, and marketing, and revolutionized driving simulation systems with overall upgrades in customization and development.

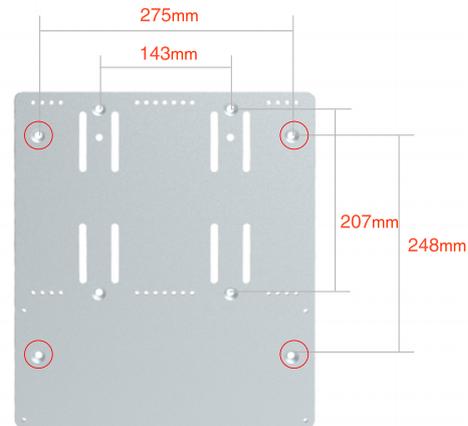
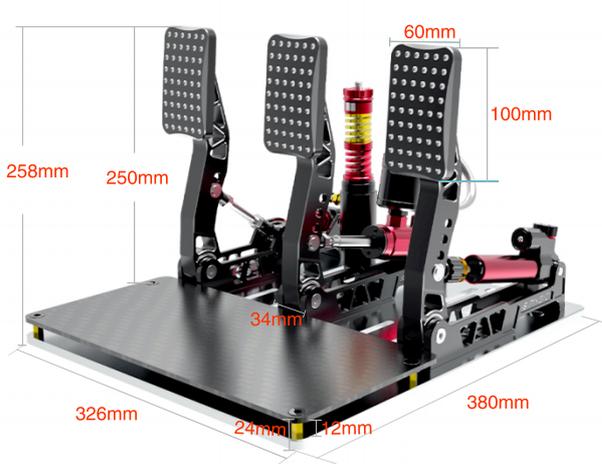
In the future, SIMAGIC's spirit of "be guided by technology, be led by intelligence" will go even further. We'll actively pursue product development through science and technology, explore the infinity of the best user experience, and develop a new sim-racing culture based on "China's intelligent manufacturing."

## 2.1 Basic Introduction

- \* One-button Calibration
- \* Online firmware update
- \* Automatic connections to PC or SIMAGIC wheelbases (via USB)
- \* Patented “3-in-1” cylinder, offering various options of heights and modes
- \* Four springs included to vary your brake performance
- \* CNC machining
- \* Self-developed unique Concave Clutch design, more authentic to the feel of a real clutch mechanism
- \* Full bearing structure, smooth and quiet
- \* Pressure sensing detection, stable and accurate
- \* SIMAGIC offers various spring options to deliver that authentic driving feel you've been longing for.
- \* The included L-shaped bracket and mounting plate provide multiple mounting options to make your P2000-R installation simple and efficient.



## 2.2 Basic Parameters



\*Four red circled screw holes are compatible with most rigs

Pedal base plate

Length : 326mm

Width : 380mm

Height : 258mm

Three pedals weight : 6.1KG

Dual pedals weight : 4.95KG

## 2.3 Technology Introduction



Loadcell sensor



Hydraulic conduction



CNC machining



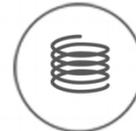
Concave clutch design



Adjustable damping



Adjustable stroke



Selective spring  
force levels



Adjustable strength



Dual-pump system



Larger Size cylinder



Hassle-free installation



Real brake system

## 3.1 Accelerator

### PATENTED “ 3-IN-1 ” HIGH PERFORMANCE CYLINDER

1. Adjustable damping
2. Adjustable strength
3. Adjustable stroke
4. Loadcell sensor
5. CNC machining



Adjustable damping



Adjustable stroke



Adjustable strength

## 3.2 Brake

### A FAITHFUL REPLICA OF REAL BRAKE SYSTEM

1. Maximum pressure detection: 200kg
2. Four springs included to customize brake performance
3. CNC machining
- 4) The Brake System consists of a main pump and an auxiliary pump connected via hydraulic piping.
- 6) As a faithful replica of real brake mechanism, P2000-R is robust, easy-to-use, and above all, authentic.
- 5) The included L-shaped bracket and mounting plate provide multiple mounting options to make your P2000-R installation simple and efficient.



Hydraulic conduction



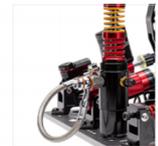
Selective spring force levels



Adjustable strength



Dual-pump system

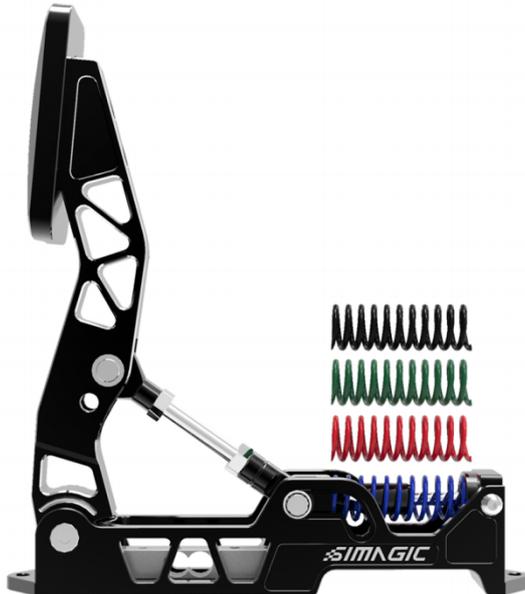


Hassle-free installation

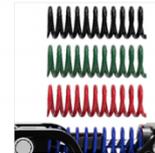
## 3.3 Clutch

### PATENTED UNIQUE CONCAVE CLUTCH DESIGN

1. Unique Concave Clutch Design, more authentic to the feel of a real clutch mechanism
2. Full bearing structure, smooth and quiet
3. Pressure sensing detection, stable and accurate
4. Three different force springs included
5. CNC machining



Concave clutch design



Optional springs



Adjustable strength

## Safe Operation

- \* **Power-on instruction: before turning on the power, make sure that the power cord is connected to the wheelbase. Only unplug the power cord when the wheelbase is switched off.**
- \* It is strictly forbidden to expose the device and its power supply to rain or humidity in order to avoid short circuit and electric shock that may cause device malfunction and fire.
- \* Desired temperature of operation is 15 ° C-35 ° C.
- \* The recommended operation time of the wheel with continuous force feedback activity is 1 hour. Excessive use may cause health risks. We suggest taking a 5-minute break every 20 minutes. Do not drive for more than 2 hours a day.
- \* Although this product has force feedback configuration, children under 13 years old must be under parental supervision to complete the configuration. Parental guidance is required to monitor children's use of the device.
- \* This product contains small pieces and is not suitable for children under 13 years old to use alone.
- \* When you use it for the first time, please adjust the force feedback from minimum to where you are accustomed to.
- \* In the game, if the feedback force previously set is beyond your control, please stop the game immediately and adjust the force feedback parameters in time.
- \* The wheelbase contains components that cannot be repaired by the user. Opening the casing is forbidden and may cause harm to people or property.
- \* Do not open the casing of the device, as it will void the warranty.

## Electrical Safety

- \* Use only the power supply and power cord that came with your wheelbase, which is important to protect your safety, rights, and interests.
- \* Do not use a non-standard power supply and power cord.
- \* To ensure safety, replacements may only be issued from an authorized repair center.
- \* Do not use non-standard power sources, even if the voltage and frequency appear acceptable.
- \* To avoid product damage, use only AC power with a standard wall socket.
- \* Do not expose your wheelbase to sources of heat.
- \* Unplug the power cord of your wheelbase when unused for long periods of time.
- \* If the wheelbase is found to have any malfunctions, stop using it immediately and contact SIMAGIC Official or authorized center for help.
- \* Please subscribe to SIMAGIC official website and social platforms for the update of product information.

 **\* This product is only limited to simulation driving related activities. Please distinguish simulation games from reality and drive safely!**

# 5.1 Standard Accessories



USB data cable



Installation Kit



Clutch springs



Brake springs



Pedal controller



3M stickers



Mounting plate



Warranty card

NOTE: The Dual pedals version has no clutch pedal and clutch springs

## 5.2 Optional Accessories



Brake sensor 200kg



Carbon fiber plate(heel support)



Throttle long pad

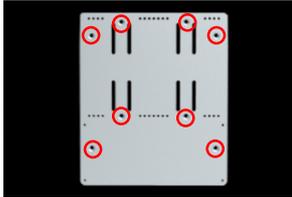


Throttle side pad

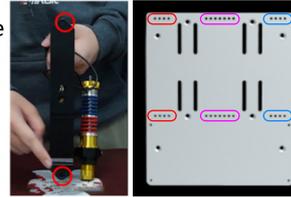
## 6.1 Pedal Installation Video

For P2000-TBC / TBC-F

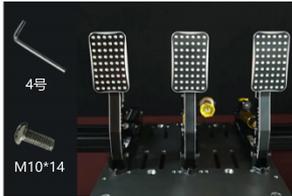
Clutch Brake Accelerator



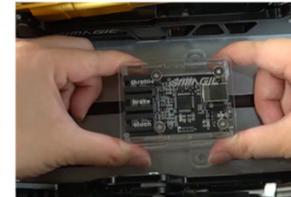
1. Install the mounting plate. The back side should be facing up. (Notice: the backside has 8 smaller screw holes)



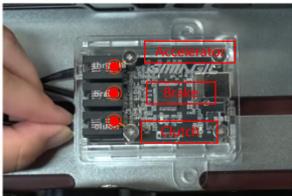
2. Align the two screw holes on the pedals with the holes (circled in red, purple, and blue) on the plate. (The string of holes is for your position preference)



3. Pedals placement from right to left: accelerator, brake, and clutch, with an L wrench and M6\*14 bolts.



4. Fix the pedal controller on the plate using the provided 3M sticker (the space between the pedals is considered a proper place)



5. Plug the crystal heads of the accelerator, brake, and clutch into the connector sockets of the pedal controller.



6. Connect the wheelbase with the pedal connector using a USB cable.

## Two procedures of pedal calibration

1: Manual Calibration via pedal controller (Step: 7, 8, 9)

2(recommended): Calibration through Alpha Manager (Step: 7, 10, 11, 12)

### Calibration procedure 1:

7. Pop up the round button on the pedal controller to enter the calibration mode.



8. Step hard on the accelerator, brake, and clutch; once for each.



9. Press down the round button to finish calibration.



## Calibration procedure 2:

10. Launch Alpha Manager. Click on the “Calibration” button on the top left. The top half shows 3 meters for calibration settings, from right to left: accelerator, brake, and clutch.



11. Find the right meter. Click on the “Min” button below it, and you will see its minimum value at 0. Then press down the pedal, click on the “Max” button, and you will see its maximum value at 4095. The calibration is now finished.



12. Click on “WriteStorage” to complete your calibration.



A One-year Limited Warranty is offered on SIMAGIC products. SIMAGIC guarantees that this Product is free of defects in materials or workmanship under normal use during the Limited Warranty Period.

This Limited Warranty Period commences from the date of purchase. The buyer must retain the warranty card and receipt, which will be required by your Purchase Site or SIMAGIC Authorized Distributors, as a condition of receiving warranty service. The buyer is guaranteed a warranty repair service within the Limited Warranty Period.

During the Limited Warranty Period, SIMAGIC will, at its sole discretion, repair or replace any defective parts or components of the Product.

### Obtaining Warranty Support

SIMAGIC products are sold through a distribution network. The network is built upon careful selection of reliable distributors to provide valuable services to the customer, including providing after-sales service for hardware issues, helping optimize gaming experiences, and connecting with SIMAGIC HQ.

1. To request a Warranty service, please contact the Authorized Distributor you purchased from.
2. When purchasing from a second-hand dealer, make sure to obtain the warranty card and receipt from the dealer.

\*Any product that is NOT originally sold by a SIMAGIC Authorized Distributor will automatically be excluded from the Limited Warranty Service.\*

\*\*Many unauthorized resellers do not fully disclose the risks associated with buying from them.\*\*

Please be cautious when making your purchase.

Check the Official Distributor list for reference: <https://www.simagic.com/#/PageMainEn/PageShoppingEn>

For more information on after-sale or warranty service, please check out our Terms and Conditions at SIMAGIC.COM or contact us @simagicofficial via social media platforms like instagram and Facebook.

- \* This product has strong force feedback strength and contains small parts. Children are forbidden to use the device without parental guidance.
  - \* Please turn off the button and power supply to prevent accidents.
  - \* Anyone trying to use your device for the first time must be instructed and monitored by you the owner.
  - \* Loose clothing and easily tangled objects such as hair, cables, and skirts should be kept away from the device.
  - \* Your SIMAGIC DDW is ready to use after unboxed. We make sure the firmware is updated to the latest version when it leaves the factory.  
For more information regarding software update, please refer to the SIMAGIC website and follow us on Twitter, Facebook, and Instagram @Simagicofficial.
  - \* Users MUST wait for 1 hour before driving a car if they had been using the device.
  - \* This instruction manual is for demonstration purposes only, not for marketing purposes. It is a general instruction of a single product (including the relevant series products). Please refer to the actual item for your purchase.
  - \* The product images and contents shown above are for demonstration purposes only. The actual products may vary slightly in terms of the external design (including but not limited to appearance, colors, and sizes) and the content display (including but not limited to backgrounds, UIs, and pictures). Please check the actual products for reference.
  - \* The test data above are all sampled from the SIMAGIC test laboratory and may not reflect the actual performance due to conditions of use and environmental factors. Please refer to the actual using experience for performance evaluation.
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Official website: [www.simagic.com](http://www.simagic.com)  
International media platform: SIMAGIC official

This manual is updated without notice.

The latest manual and any SIMAGIC related information can be found on the official website .

If have any questions and suggestions about this instruction manual and SIMAGIC products,  
please contact us through information channel.