

ASETEK Invicta

ASETEK Invicta Direct Drive Wheelbase 27Nm

Instruction Manual

1. INTRODUCTION

The ASETEK Invicta Direct Drive Wheelbase 27Nm is a high-performance steering system designed for PC sim racing. It delivers precise force feedback, replicating real driving experiences with exceptional accuracy and responsiveness. This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of your Invicta Wheelbase.

Key features include:

- **Direct Drive Technology:** Provides authentic and precise force feedback for an immersive racing experience.
- **High Resolution:** Features a resolution of 0.000085 degrees, translating to approximately 4,000,000 steps per revolution for nuanced feedback.
- **Customizable Settings:** Adjust steering range, force feedback, friction, and LED lights via the RaceHub software.
- **Robust Construction:** Built with anodized extruded aluminum housing and premium components for durability.



Figure 1: Front view of the ASETEK Invicta Direct Drive Wheelbase.

2. SETUP AND INSTALLATION

Follow these steps to properly set up your Invicta Direct Drive Wheelbase.

2.1 Unpacking and Component Check

Carefully unpack all components and verify against the packing list. The box should contain:



Figure 2: Included components: Invicta Wheelbase, ON/OFF Button, Torque OFF Button, 400W Power Supply, USB-C to USB-A Cable, and regional Power Cords (EU, US, UK).

1. Invicta™ Wheelbase
2. ON/OFF Button
3. Torque OFF Button
4. Power Supply 400W
5. USB-C to USB-A Cable
6. Power Cord (EU, US, UK variants included)
7. Mounting hardware (included)

2.2 Mounting the Wheelbase

The Invicta Wheelbase requires secure mounting to a sim racing rig or desk. Use the provided mounting hardware and ensure the wheelbase is firmly attached to prevent movement during use. Refer to your rig's instructions for specific mounting points.

PRECISION-BUILT FOR QUALITY AND LONGEVITY

**ANODIZED EXTRUDED ALUMINUM
HOUSING AND PREMIUM COMPONENTS
CARRYING YOU THROUGH EACH RACE**



Figure 3: Rear view of the Invicta Wheelbase, highlighting the PWR, USB, and pedal ports.

2.3 Connecting the Cables

1. Connect the **Power Supply 400W** to the wheelbase's PWR port and then to a suitable wall outlet using the appropriate regional power cord (110-240 V AC).
2. Connect the **USB-C to USB-A Cable** from the wheelbase's USB port to an available USB port on your PC.
3. Connect the **ON/OFF Button** and **Torque OFF Button** to their respective ports on the wheelbase.
4. If using ASETEK pedals, connect them to the designated pedal port on the wheelbase.

2.4 Software Installation (RaceHub)

Download and install the latest version of the Asetek RaceHub software from the official Asetek SimSports website. RaceHub is essential for configuring your wheelbase, updating firmware, and customizing settings.

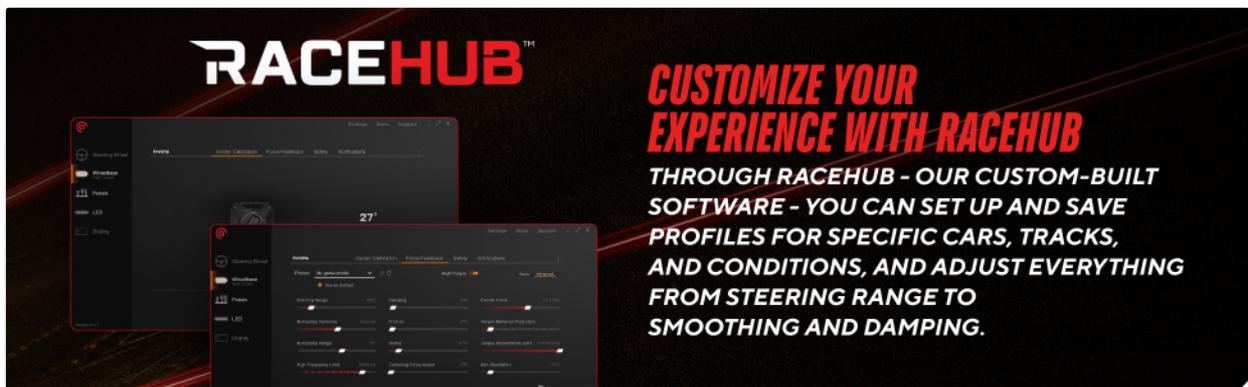


Figure 4: The RaceHub software interface for customizing wheelbase settings.

3. OPERATING INSTRUCTIONS

3.1 Powering On and Off

To power on the wheelbase, press the **ON/OFF Button**. The wheelbase will initialize. To power off, press the **ON/OFF Button** again. Always ensure the wheelbase is powered off when not in use or when making physical connections.

3.2 Torque OFF Function

The **Torque OFF Button** is a safety feature that immediately disables force feedback. Press this button if you need to quickly stop all motor activity, for example, in an emergency or when adjusting your setup. Press it again to re-enable torque.

3.3 Using RaceHub Software

RaceHub is your primary interface for managing the Invicta Wheelbase. It allows you to:

- **Create and Save Profiles:** Configure specific settings for different cars, tracks, or racing conditions.
- **Adjust Force Feedback:** Fine-tune the strength and characteristics of the force feedback.
- **Set Steering Range:** Customize the maximum rotation of the wheel.
- **Control LED Lights:** Adjust the behavior and colors of the integrated LED lighting.
- **Update Firmware:** Ensure your wheelbase has the latest performance enhancements and bug fixes.

Regularly check for RaceHub software and firmware updates to ensure optimal performance and compatibility.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Invicta Wheelbase.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the wheelbase. Avoid abrasive cleaners, solvents, or excessive moisture.
- **Cable Management:** Ensure all cables are neatly routed and not under tension or pinched to prevent damage.
- **Software Updates:** Keep RaceHub software and wheelbase firmware updated. Check the Asetek SimSports website regularly for new versions.
- **Power Supply:** Only use the original 400W power supply provided with the wheelbase. Using aftermarket power supplies may void your warranty and could damage the unit.

- **Storage:** When not in use for extended periods, store the wheelbase in a clean, dry environment, protected from dust and extreme temperatures.

5. TROUBLESHOOTING

If you encounter issues with your Invicta Wheelbase, refer to the following common solutions before contacting support.

5.1 No Power / Wheelbase Not Turning On

- Verify the power cable is securely connected to both the wheelbase and the wall outlet.
- Ensure the wall outlet is functional.
- Check that the **ON/OFF Button** is pressed.
- Confirm the 400W power supply is correctly connected.

5.2 No Force Feedback

- Ensure the **Torque OFF Button** is not active (LED should indicate torque is enabled).
- Check USB connection to the PC. Try a different USB port.
- Verify force feedback settings within RaceHub and your sim racing game.
- Restart the wheelbase and your PC.
- Ensure RaceHub software and wheelbase firmware are up to date.

5.3 Wheelbase Not Detected by PC / RaceHub

- Confirm the USB-C to USB-A cable is properly connected.
- Try a different USB port on your PC.
- Restart your PC and the wheelbase.
- Reinstall the RaceHub software.
- Check Device Manager on Windows to see if the device is recognized (even with an error).

5.4 Unexpected Behavior / Calibration Issues

- Perform a calibration within RaceHub software.
- Reset settings to default in RaceHub and reconfigure.
- Ensure no other conflicting software or drivers are running.

6. SPECIFICATIONS

Below are the technical specifications for the ASETEK Invicta Direct Drive Wheelbase 27Nm:

Feature	Specification
Model Name	Invicta
Brand	ASETEK
Maximum Torque	27 Nm
Resolution	0.000085 degrees (approx. 4,000,000 steps per revolution)

Feature	Specification
Compatible Devices	PC
Controller Type	Steering Wheel
Connectivity Technology	USB
Power Source	110-240 V AC
Color	Black
Manufacturer	Asetek SimSports
GTIN / UPC	850015843181

7. WARRANTY INFORMATION

The ASETEK Invicta Direct Drive Wheelbase is covered by a manufacturer's warranty. Please refer to the official Asetek SimSports website for the most current and detailed warranty terms and conditions.

Important Note: Using aftermarket power supplies with the Invicta Wheelbase will void the product warranty. Always use the original 400W power supply provided by Asetek SimSports.

For warranty claims or service, retain your proof of purchase and contact Asetek SimSports customer support.

8. CUSTOMER SUPPORT

For further assistance, technical support, or to report issues not covered in this manual, please contact Asetek SimSports customer support through their official channels:

- **Website:** Visit the official Asetek SimSports website for FAQs, support articles, and contact forms.
- **RaceHub Software:** Utilize the support features within the RaceHub application for software-related inquiries.

Always provide your product model (Invicta Direct Drive Wheelbase 27Nm) and any relevant error messages or descriptions of the issue when seeking support.