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ARES WING GRS1001BU

ARES WING Sim Racing Cockpit (Model GRS1001BU) Instruction Manual

Model: GRS1001BU

1. Introduction

This manual provides detailed instructions for the assembly, operation, maintenance, and adjustment of your ARES WING Sim Racing Cockpit, Model GRS1001BU. Please read this manual thoroughly before assembly and use to ensure proper function and longevity of the product. This racing cockpit is designed to provide a stable and adjustable platform for various racing simulation peripherals.

2. Package Contents

Before beginning assembly, verify that all components listed below are present and undamaged. Refer to the included parts list in your package for specific quantities and hardware.

- Main Cockpit Frame (various sections)
- Racing Seat
- Steering Wheel Mount
- Pedal Plate
- Shifter Mount
- Assembly Hardware (bolts, washers, nuts, spacers)
- Cable Management Clips (6 pieces)
- Assembly Tools (if included)
- Instruction Manual



Image 2.1: Overview of the ARES WING Sim Racing Cockpit components.

3. Assembly Instructions

Follow these steps carefully for proper assembly. It is recommended to have a second person assist with certain steps due to the size and weight of the components.

1. **Unpack Components:** Carefully remove all parts from the packaging. Lay them out and compare with the parts list to ensure everything is present.
2. **Assemble Base Frame:** Connect the main frame sections using the provided bolts and tools. Ensure all connections are secure but do not fully tighten until the entire frame is assembled.
3. **Attach Seat Rails:** Secure the seat rails to the main frame.
4. **Install Racing Seat:** Mount the racing seat onto the seat rails. Ensure the sliding mechanism operates smoothly.
5. **Attach Steering Wheel Mount:** Secure the steering wheel mount to the front frame section.
6. **Install Pedal Plate:** Attach the pedal plate to the lower front section of the frame.
7. **Mount Shifter Support:** Install the shifter mount on either the left or right side of the cockpit, according to user

preference.

8. **Final Tightening:** Once all components are in place, systematically tighten all bolts and fasteners. Ensure the cockpit is stable and level.
9. **Attach Non-Slip Feet:** The bottom of the racing chair is equipped with 8 non-slip support feet. Ensure these are properly installed to prevent movement during use.
10. **Cable Management:** Utilize the 6 included cable management clips to organize and secure any peripheral cables (steering wheel, pedals, shifter) to the frame.

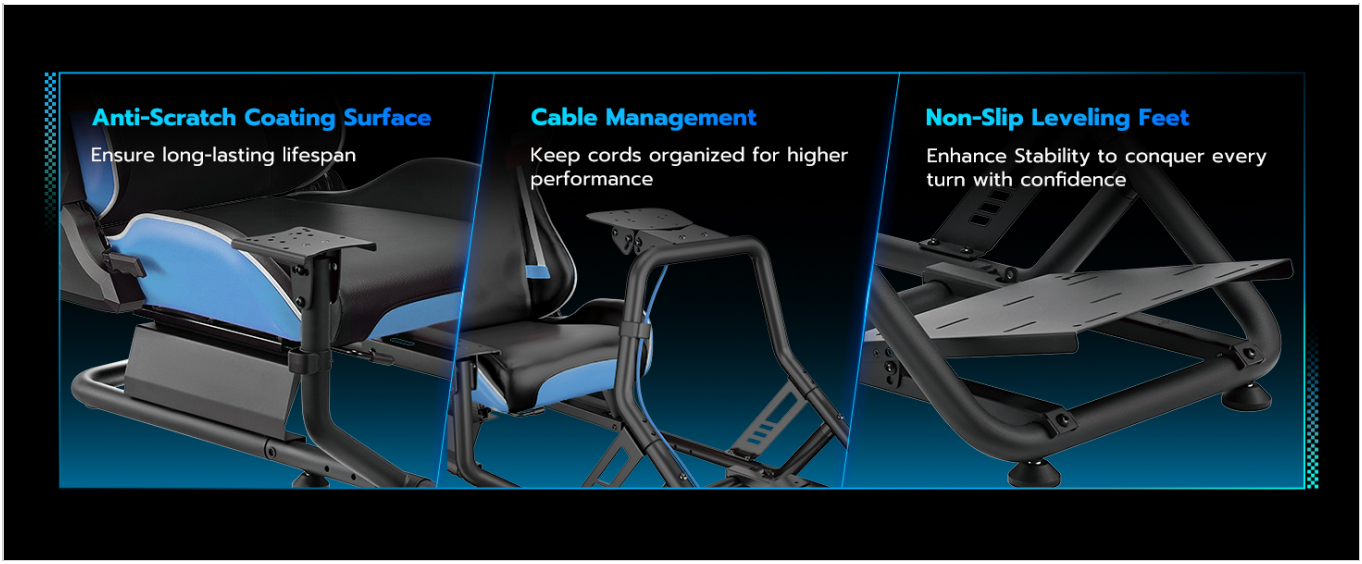


Image 3.1: Details of the cockpit's anti-scratch coating, cable management, and non-slip feet.

4. Adjustments and Ergonomics

The ARES WING Sim Racing Cockpit offers multiple adjustment points to customize your driving position for comfort and performance.

4.1 Seat Adjustments

- **Seat Sliding:** The seat can slide 7.1 inches (18 cm) forward and backward. Use the lever located under the front of the seat to unlock, slide to the desired position, and release to lock.
- **Seat Back Tilt:** The seat back can recline from 90° to 150°. Use the recline lever on the side of the seat to adjust the angle.

4.2 Steering Wheel Mount Adjustments

- **Tilt Adjustment:** The steering wheel mount can be tilted from +25° to -35° to find your preferred wheel angle.

4.3 Pedal Plate Adjustments

- **Sliding Adjustment:** The pedal plate can slide 2.4 inches (6 cm) forward and backward.
- **Tilt Adjustment:** The pedal plate offers tilt adjustments at 0°, 15°, and 27° to optimize pedal ergonomics.

4.4 Shifter Mount Adjustments

- **Positioning:** The shifter mount can be installed on either the left or right side of the cockpit.
- **Tilt Adjustment:** The shifter mount can be tilted from +16° to -16°.



Image 4.1: Visual representation of the cockpit's full adjustability features.

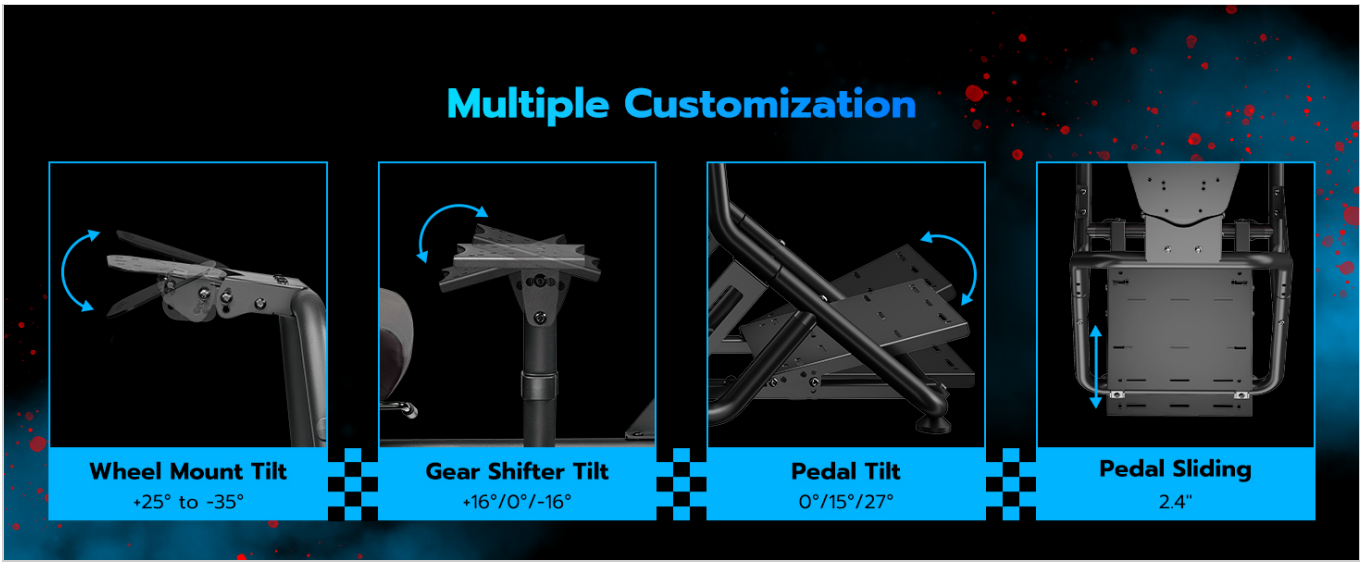


Image 4.2: Detailed view of multiple customization options for wheel, shifter, and pedals.

5. Compatibility

The ARES WING Sim Racing Cockpit is designed for wide compatibility with various racing peripherals and gaming platforms.

- **Compatible Wheel Brands:** Fanatec, Thrustmaster, Logitech, Moza.
- **Compatible Pedal Brands:** Thrustmaster, Logitech, Fanatec.
- **Compatible Shifter Brands:** Logitech, Fanatec.
- **Compatible Gaming Platforms:** PS5, PS4, Xbox, PC.

Note: Steering wheel, pedals, shifter, and TV are not included with the cockpit and must be purchased separately.



Image 5.1: Overview of compatible racing peripherals.

6. Key Features

6.1 Rock-Solid and Stable Structure

The cockpit features an upgraded strengthened frame structure designed to firmly support all components and equipment. This design is capable of handling the force requirements of high-torque direct drive steering wheels, such as Fanatec Pro models. Eight non-slip support feet are integrated into the base to prevent shaking or drifting during intense racing sessions.



Image 6.1: Demonstrating the cockpit's stability during use.

6.2 Comfortable Seat Design

The racing seat incorporates widened soft foam padding to reduce fatigue during extended racing sessions. The seat surface is constructed from high-quality PU leather, offering both comfort and durability. Ventilation holes are present for improved airflow and can also be used for attaching additional cushions or pillows.



Image 6.2: Features of the comfortable racing seat.

6.3 Cable Management

Six cable management clips are included to help organize and secure peripheral cables, preventing tangles and maintaining a tidy setup.

7. Operating Instructions

Once assembled and adjusted, connect your preferred racing wheel, pedals, and shifter to the cockpit. Ensure all peripherals are securely mounted and their cables are managed using the provided clips. Connect your gaming console or PC to your display and launch your racing simulation software. Adjust your seating position and peripheral angles as needed for optimal comfort and control during gameplay.

8. Maintenance

- **Cleaning:** Wipe down the frame and seat with a soft, damp cloth. Avoid abrasive cleaners or solvents that may

damage the powder-coated finish or PU leather.

- **Fastener Check:** Periodically check all bolts and fasteners to ensure they remain tight. Re-tighten if any looseness is detected.
- **Moving Parts:** Ensure the seat sliding mechanism and recline function operate smoothly. Lubricate with a silicone-based spray if necessary.
- **Cable Inspection:** Regularly inspect cables for any signs of wear or damage. Replace damaged cables immediately.

9. Troubleshooting

- **Cockpit Wobbles:**
  - Ensure all assembly bolts are fully tightened.
  - Verify that the 8 non-slip support feet are properly installed and making full contact with the floor.
  - Check for uneven flooring and adjust the feet if possible.
- **Seat Adjustment Issues:**
  - If the seat does not slide or recline smoothly, check for obstructions in the rails or mechanism.
  - Ensure the adjustment levers are fully engaged or disengaged.
- **Peripheral Mounting Issues:**
  - Ensure your peripherals (wheel, pedals, shifter) are compatible with the cockpit's mounting points.
  - Verify that all mounting hardware is correctly aligned and tightened.

10. Specifications

Feature	Detail
Model Number	GRS1001BU
Product Dimensions	53.7 x 27.9 x 42.5 inches (L x W x H)
Item Weight	56.9 pounds (25.8 kg)
Seat Sliding Range	7.1 inches (18 cm)
Seat Back Recline	90° to 150°
Pedal Plate Sliding Range	2.4 inches (6 cm)
Pedal Plate Tilt Angles	0°, 15°, 27°
Steering Wheel Mount Tilt	+25° to -35°
Shifter Mount Tilt	+16° to -16°
Material	Powder-coated steel frame, PU leather seat with foam padding



Image 10.1: Product dimensions overview.

11. Warranty and Support

For warranty information and customer support, please refer to the documentation included with your purchase or contact ARES WING customer service directly. Protection plans may be available for extended coverage.

- **Standard Return Policy:** 30-day easy returns.
- **Protection Plans:** Optional 2-Year and 3-Year Protection Plans may be available for purchase.
- **Manufacturer:** ARES WING

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