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GuliKit NS51-XBOX-Green

GuliKit TMR Magnetic Joystick Replacement Kit

MODEL: NS51-XBOX-GREEN

1. Product Overview

The GuliKit TMR Magnetic Joystick Replacement Kit is engineered to provide a permanent solution to joystick drift in compatible game controllers. Utilizing advanced Tunnel Magnetoresistance (TMR) technology, these joysticks offer enhanced precision, durability, and a smooth operational feel by eliminating physical contact points prone to wear.

This kit is specifically designed for Xbox Series X/S controllers. It is not compatible with Xbox 360, Xbox One, or Elite Series 1 & 2 controllers. For Elite Series 2 users, only the included thumbstick caps can be used, as original caps have a different installation structure.



Image: The GuliKit TMR Magnetic Joystick Replacement Kit includes two green-accented joystick modules and two black thumbstick caps, ready for installation.



Image: An Xbox controller featuring the GuliKit TMR joysticks, illustrating their high durability and extended lifespan due to contactless, wear-free TMR sensor technology.

2. Setup and Installation

Installation of the GuliKit TMR Magnetic Joystick Replacement Kit requires advanced technical skills, including desoldering and soldering. It is highly recommended that users who are not experienced with electronic repairs seek professional assistance to ensure proper installation and prevent damage to the controller.

Required Tools (Not Included):

- Soldering Iron
- Desoldering Pump or Solder Wick
- Small Phillips Head Screwdriver
- Prying Tools (plastic spudgers)
- Tweezers

The TMR stick modules are designed for direct replacement without requiring any circuit modifications to the controller's PCB.

Important Note for Elite Series 2 Controllers: If installing on an Elite Series 2 controller, only the thumbstick caps provided in this kit are compatible. The original Elite Series 2 thumbstick caps utilize a screw-on design and cannot be used with these replacement modules.



Image: A visual representation of the GuliKit TMR joystick module being installed into a controller, emphasizing that no circuit modifications are required for direct replacement.

3. Operating and Calibration

After successful installation of the GuliKit TMR Magnetic Joysticks, calibration is essential to ensure optimal performance and accuracy. This process helps the controller recognize the full range of motion and center point of the new joysticks.

Calibration for Xbox Series Controllers:

1. Connect your Xbox Series controller to your Xbox console or a PC.
2. On your Xbox console, navigate to the controller settings. If using a PC, download and open the "Xbox Accessories" application from the Microsoft Store.
3. Within the controller settings or the "Xbox Accessories" app, locate the "Recalibrate" or "Calibrate" option for joysticks.
4. Follow the on-screen instructions to complete the calibration process. This typically involves moving each joystick through its full range of motion and centering it.

Proper calibration will eliminate any potential initial drift or inaccurate input readings, ensuring a precise and responsive gaming experience.

4. Maintenance

The GuliKit TMR Magnetic Joysticks are designed for long-term durability due to their contactless magnetic sensing mechanism, which inherently reduces wear and tear compared to traditional potentiometers. Regular maintenance is minimal but can help preserve the overall condition of your controller and the joysticks.

- **Cleaning:** Periodically wipe down the thumbstick caps and the area around the joystick base with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store your controller in a clean, dry environment when not in use to prevent dust accumulation.
- **Handling:** While robust, avoid excessive force or impact on the joysticks to maintain their integrity.



Image: A close-up view demonstrating the easy replacement mechanism of the GuliKit KK Ring joystick cap, highlighting its design for enhanced gripping and comfort.

5. Troubleshooting

If you encounter issues after installing your GuliKit TMR Magnetic Joystick Replacement Kit, consider the following troubleshooting steps:

- **Joystick Drift or Inaccurate Input:**

- Ensure the joysticks have been properly calibrated as described in Section 3. Recalibrate if necessary.
- Verify that all solder points are secure and clean. Cold solder joints or bridges can cause erratic behavior.
- Confirm that the joystick modules are fully seated in their respective positions on the PCB.

- **Joystick Not Responding:**
  - Check all connections, especially the ribbon cables and any other components that may have been disconnected during the installation process.
  - Re-examine solder points for any missed connections or shorts.

- **Physical Interference:**
  - Ensure no internal components or wires are obstructing the full range of motion of the joysticks.
  - Confirm that the unique structural design prevents interference from magnetic triggers on the joysticks.

If issues persist after attempting these steps, it is advisable to consult a professional electronics repair technician or contact GuliKit customer support for further assistance.



Image: A diagram showcasing the unique structural design of the GuliKit TMR joystick, engineered to prevent interference from magnetic triggers within the controller.

6. Specifications

Feature	Description
Technology	Upgraded TMR (Tunnel Magnetoresistance) Joystick Technology
Compatibility	Xbox Series X/S Controllers (Not for Xbox 360/One & Elite Series 1 & 2 Controller)
Drift Prevention	Contactless magnetic field sensing mechanism for drift-free operation

Power Consumption	Ultra-low power consumption, similar to carbon film joysticks
Durability	Enhanced stability and long-lasting durability
Precision	High-precision and silk-like smoothness
Interference	Unique structural design prevents interference from magnetic triggers
Thumbstick Caps	Includes 2 GuliKit KK Ring anti-friction stick knobs for enhanced gripping and comfort
Dimensions (Kit)	3.15 x 3.15 x 1.18 inches
Weight (Kit)	1.06 ounces

7. Warranty and Support

GuliKit products are manufactured to high-quality standards. For any questions, technical assistance, or concerns regarding your GuliKit TMR Magnetic Joystick Replacement Kit, please contact GuliKit customer support. Details for contacting support can typically be found on the official GuliKit website or through your purchase platform.

Please retain your proof of purchase for warranty claims or support inquiries.

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