

PRODUCT MANUAL

1. Product Informaton

Product Name: K-SILVER JS13 PRO+ TMR Joystick for Switch Pro PS5 PS4 Xbox Series Xbox One 3D Analog TMR ThumbStick

Model: For PS4/PS5/Switch PRO/Xbox Series/Xbox One Controller TMR Joystick

Batch/Serial Number: JS13 PRO+



For Switch Pro



For Xbox



For PS4



For PS5

2. MANUFACTURER & EU REPRESENTATIVE INFO

- Manufacturer:

Company Name: Shenzhen Yinjie Technology Development Co., Ltd.

Full Address: 309B, Building C, No. 17 Yongxiang East Road, Ma'antang Community, Bantian Subdistrict, Longgang District, Shenzhen City, Guangdong Province, China

Email: tianychuifei@gmail.com

Telephone: 86-15814653068

- EU Authorized Representative:

AR Company Name: MJCM SARL

Full Address: 78 avenue des Champs Elysees Bureau 326,PARIS,France

Email: mjcm190928@gmail.com

Telephone: 0033 752907452

3. Safety & Warnings

Before using this product, carefully read all safety instructions. Failure to follow warnings may result in fire, electric shock, personal injury, or equipment damage. Keep this manual for future reference.

3.1 Child Safety Warning (Important)

⚠ATTENTION: Not suitable for children under three years.

Choking Hazard - Small Parts: This product contains small components (e.g., screws, joysticks, etc.) . Keep the product and all accessories out of children's reach.

Packaging Materials: Dispose of all packaging materials (plastic bags, foam, etc.) immediately. Do not allow children to play with them to prevent suffocation hazards.

⚠ATTENTION: To be used under the direct supervision of an adult.

3.2 Basic Usage Principles

Do not use this product for any purpose other than its intended use. It is exclusively for repairing game controller joysticks.

Follow installation and operation guidelines to avoid injury.

Do not expose to water or moisture to prevent short circuits, malfunctions, or electric shock.

Professional Requirements: This product contains precision electronic components and is intended solely for use by personnel with professional soldering experience and repair skills. Non-professional users should not attempt replacement. Improper handling may cause permanent damage to the handle's main circuit board or result in personal injury.

3.3 Operational Safety Requirements

Electrical Safety: Before repairing, ensure the controller is powered off, the internal battery is removed, and all external power connections are disconnected to prevent short circuits. Wear an anti-static wrist strap or touch a grounded metal object during repair to discharge static electricity and prevent static discharge from damaging sensitive electronic components.

Soldering Safety: The soldering iron reaches high temperatures. Keep it away from flammable materials and never touch the tip to avoid burns. Soldering produces fumes (rosin fumes). Operate in a well-ventilated area to prevent inhalation.

Operating Guidelines: Avoid prolonged soldering (recommended maximum of 3 seconds per joint) to prevent overheating, which may cause pad detachment or damage to internal plastic components.

Chemical Safety: If using additional flux or cleaning agents (e.g., alcohol), store them out of children's reach. These chemicals may be flammable or harmful to health. Secure caps tightly after use and keep away from fire sources.

4. Instructions for Use

I. Product Introduction

1.1 Overview

Thank you for purchasing our high-precision joystick repair kit. This product is specifically designed for game controller repairs and DIY upgrades, aiming to resolve control failures caused by worn-out or drifting original joysticks, restoring precise controller responsiveness.

1.2 Compatible Models

This product is compatible with the following controller models (confirmed based on your purchase option):

For Sony PlayStation 5 (PS5): DualSense/DualSense Edge controllers

For Sony PlayStation 4 (PS4): DualShock 4 controllers

For Microsoft Xbox Series X/S controllers

For Microsoft Xbox One controllers

For Nintendo Switch: Pro Controller

II. Product Features & Technical Specifications

2.1 Product Features

TMR Joystick Core Advantages:

- **TMR Technology:** Advanced Tunneling Magneto Resistive (TMR) technology is utilized to provide better performance and lower power consumption, ensuring precise control and extended lifespan.
- **Ultra-low power consumption:** Adopting customized low-power TMR chip, the power consumption of a single chip is as low as 200 μ A, with zero jitter and delay of the joystick for quicker response.
- **HIGH RESOLUTION:** With extremely high resolution, it ensures that every subtle operation is accurately communicated.
- **Linear Response:** The output voltage produces a linear response within the specified range, with precise operation and true feedback.
- **HIGH DURABILITY:** Rigorously tested to ensure stability in a variety of extreme conditions.

2.2 Technical Specifications

- **Technology:** Tunneling magnetoresistance effect
- **Advantages:** 500W+ lifespan | Minimal dead zone | Centering Accuracy $\leq 3\%$ | Contactless technology eliminates drift | High precision, high resolution, low power consumption

III. Installation Guide

(Note: Disassembly steps vary slightly by controller model. This is a general guideline; refer to specific controller disassembly videos for your model.)

Disassembly: Use an appropriate screwdriver to open the controller casing. Carefully disconnect the battery flex cable and mainboard connection flex cable, then remove the mainboard.

Remove Old Joystick: Use a desoldering pump or desoldering braid to remove solder from the original joystick mounting pins. Recommend removing solder from the positioning and mounting pins first, followed by the signal pins. Gently lift the old joystick—avoid forceful removal to prevent pad damage.

Clean pads: Use a soldering iron and desoldering braid to remove excess solder residue from the motherboard pads, ensuring they remain flat.

Install the new joystick:

Align the new joystick with the motherboard holes and insert it.

First solder the positioning pins to secure the joystick, ensuring it sits flush against the motherboard without tilting.

Solder the signal pins and then the mounting pins in sequence, taking care to prevent solder bridges.

Inspection and reassembly: After verifying all solder joints are correct, reassemble the controller, perform a function test, and calibrate the joystick.

IV. Joystick Calibration

After replacing the joysticks, run joystick calibration as the ways below(Before calibration and testing, please install the controller cases and screws.):

For Switch Pro/Joy-Con, after replacing the joysticks, you can go to the Switch console's Settings -> Controllers and Sensors -> Calibrate Joysticks, and follow the instructions to calibrate the joysticks.

For PS4 DualShock 4 and PS5 DualSense(Edge) controllers, after replacing the joysticks, you can use the third-party open-source calibration tool at <https://dualshock-tools.github.io> to calibrate the joysticks.

For Xbox Series X/S controllers, after replacing the joysticks, you can go to the XBOX console or download the "XBOX Accessories" software from the Microsoft Store on PC, then find the "Recalibrate" option and follow the instructions to calibrate the joysticks.

V. Common Issues and Troubleshooting

Issue 1: Replaced joystick continuously drifts in one direction

Possible causes:

1. The joystick potentiometer was damaged by overheating during soldering.
2. The joystick is not seated properly, causing center offset.
3. The controller has not been calibrated.

Solutions:

1. Check for solder bridges at the joints and ensure soldering time does not exceed 3 seconds.
 2. Attempt the controller's built-in joystick calibration function (usually found in system settings).
 3. If calibration fails, the joystick may have been damaged during soldering and requires replacement.
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Issue 2: Joystick fails to reach full travel in one direction/sluggish response

Possible causes:

1. Joystick cap obstructed by foreign objects.
2. Rosin or flux ingress into joystick mechanism during soldering.

Solutions:

1. Remove obstructions from joystick pivot point.
 2. Apply a small amount of high-purity alcohol and agitate joystick to clean; test after evaporation.
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Issue 3: Joystick buttons (L3/R3) unresponsive when pressed

Possible cause: Loose solder or damaged microswitch beneath the joystick.

Solution: Re-solder the pins of the joystick button switch.

Issue 4: Controller fails to power on/all buttons unresponsive after replacement

Possible causes:

1. Short circuit on the mainboard caused during soldering.
2. Flex cable improperly seated or damaged.

Solution:

1. Thoroughly inspect the solder pad backside for solder ball shorts.
2. Reinsert and reseal the flex cable.

Issue 5: Joystick locks at a fixed point, or moves left/right but not up/down

Possible Causes: Improper joystick removal or excessive soldering temperature causing pad detachment. Small copper wires within the pad's internal holes may be accidentally pulled out during joystick insertion/removal. This prevents the mainboard from receiving resistance signals after potentiometer soldering, effectively creating a power-off state.

Solution: Search platforms like YouTube for keywords such as “PS5 controller solder pad detachment” or “Xbox controller solder pad detachment” to find detailed tutorials.

VI. After-Sales Service

Thank you for choosing our product. To protect your rights, please carefully review the following after-sales terms:

Warranty Period: This product offers a 30-day replacement service for quality issues starting from the date of receipt.

Warranty Coverage:

- Existing cosmetic damage or detached electronic components upon delivery.
- Physical stickiness or failure to center within the joystick before soldering.

Non-Covered Issues (including but not limited to):

Human Damage: Solder pad detachment, component burnout, or casing damage caused by excessive soldering time or improper handling.

Installation Damage: Damage to the controller mainboard or other accessories during installation. Our store assumes no liability for such incidents.

Unauthorized Modifications: Unauthorized disassembly, modification, or repair.

Natural Wear: Normal wear and tear or carbon film scratches occurring after product use.

Return/Exchange Procedure:

For quality issues, contact customer service with the following:

Order number, fault description, clear photos or video (must clearly show the fault and product condition).

Upon confirming eligibility, we will process your request.

5、COMPLIANCE INFO



6、DISPOSAL & RECYCLING



Environmental Disposal (WEEE Compliance): In accordance with the European Union's Waste Electrical and Electronic Equipment Directive (WEEE) (2012/19/EU) , discarded circuit boards and electronic components must not be disposed of as household waste. They must be delivered to appropriate electronic waste recycling facilities for proper recycling to prevent potential negative impacts on the environment and human health.
