### FrSky 2-Way Switch

# FrSky Horus X12S 2-Way Switch User Manual

## Introduction

This manual provides detailed instructions for the installation and operation of the FrSky 2-Way Switch, specifically designed for use with the FrSky Horus X12S Transmitter. Please read this manual thoroughly before attempting installation or operation to ensure proper function and safety.

## Product Overview

The FrSky 2-Way Switch is a robust component intended for integration into your FrSky Horus X12S radio transmitter. It allows for the control of various functions through two distinct positions, enhancing the versatility of your remote control system.

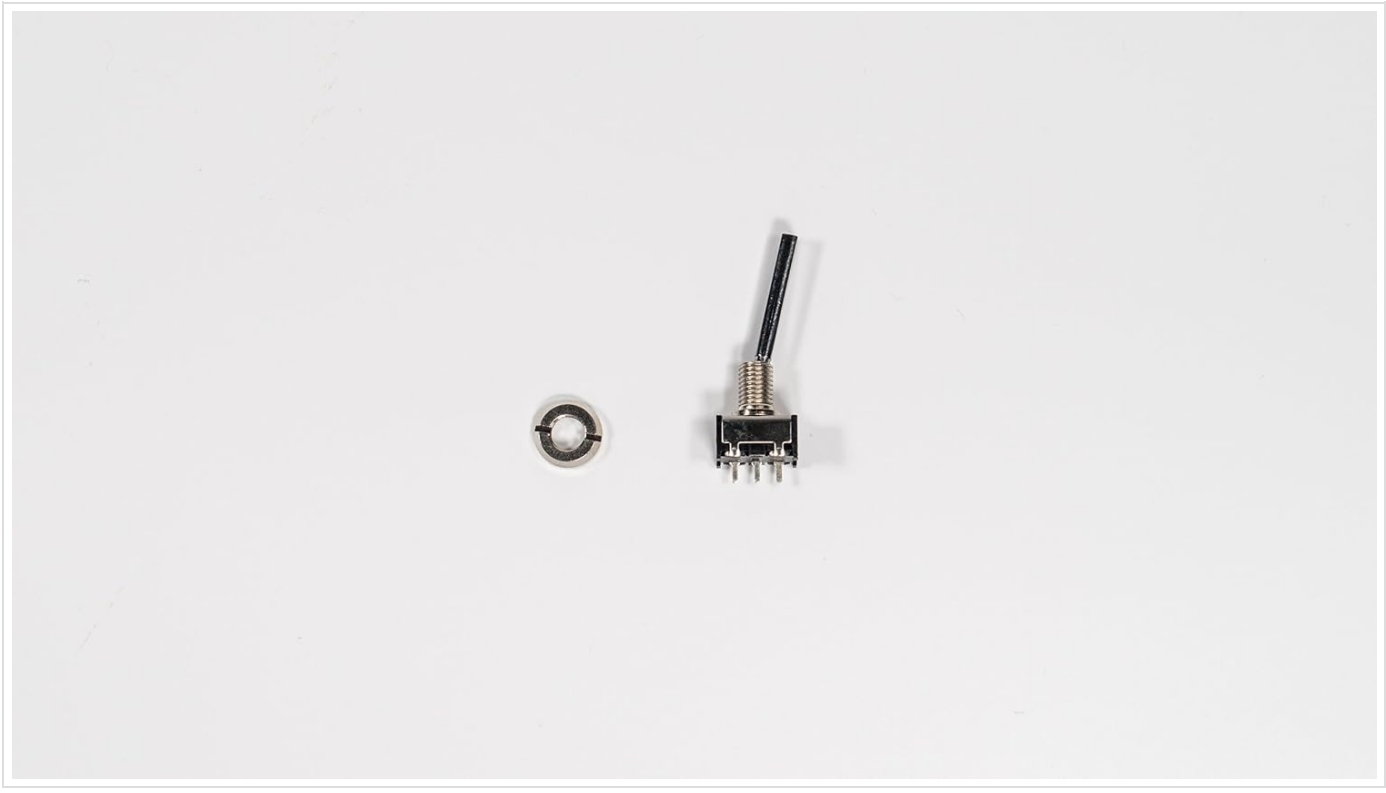


**Image 1:** The FrSky 2-Way Switch, showing the toggle lever, the main body with solder terminals, and a separate mounting washer.

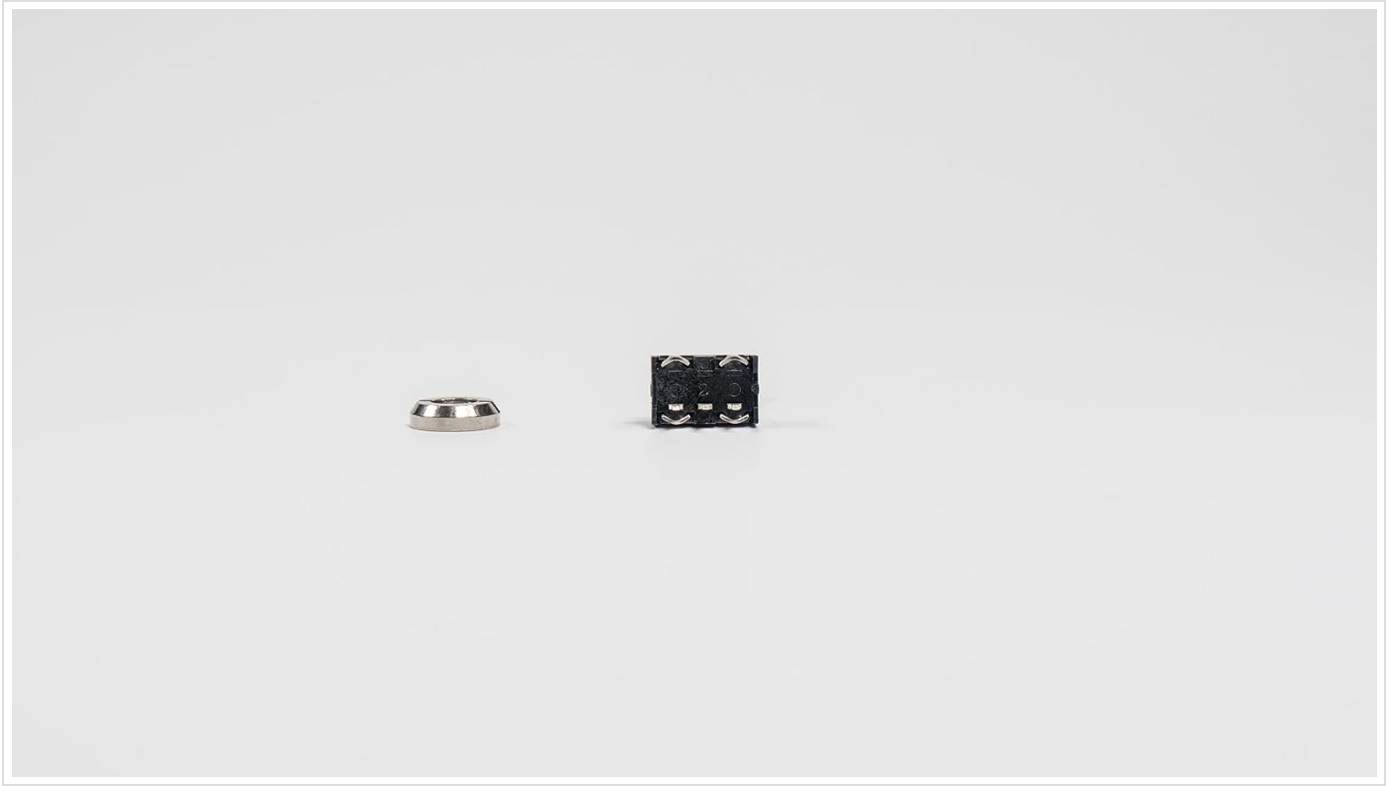


**Image 2:** The underside of the FrSky 2-Way Switch, highlighting the screw terminals for wiring connections and the mounting nut.

## Setup and Installation

### Safety Precautions

- Ensure the transmitter is powered off and disconnected from any power source before beginning installation.
- Use appropriate tools to avoid damaging the switch or the transmitter's internal components.
- If you are unsure about any step, consult an experienced technician or refer to the official FrSky support resources.

### Installation Steps

1. **Identify Location:** Locate an available switch slot on your FrSky Horus X12S Transmitter. Refer to your transmitter's main instruction manual for compatible switch locations and internal access.
2. **Access Transmitter Interior:** Carefully open the transmitter casing according to the manufacturer's instructions.
3. **Mount the Switch:** Insert the threaded shaft of the 2-way switch through the chosen opening from the exterior of the transmitter.
4. **Secure the Switch:** From the interior of the transmitter, place the provided washer over the threaded shaft and then thread on the mounting nut. Tighten gently by hand, then use a suitable tool to snug it securely without over-tightening.
5. **Wire Connections:** Connect the switch's terminals to the corresponding pins on the transmitter's circuit board. Consult your Horus X12S wiring diagram for correct pin assignments. Typically, a 2-way switch will connect to a signal pin and a ground pin.
6. **Verify Connections:** Double-check all wiring connections to ensure they are secure and correctly polarized. Loose connections can lead to intermittent operation.
7. **Reassemble Transmitter:** Carefully reassemble the transmitter casing, ensuring no wires are pinched and all screws are tightened appropriately.

## Operating Instructions

The FrSky 2-Way Switch provides two distinct positions for controlling functions within your transmitter's software.

- **Position 1:** Moving the toggle lever to its first position (e.g., fully up or fully left) will activate the function assigned to this position in your transmitter's settings.
- **Position 2:** Moving the toggle lever to its second position (e.g., fully down or fully right) will activate the alternative function or deactivate the first function, depending on your programming.

To assign specific functions to the switch positions, refer to the software manual for your FrSky Horus X12S Transmitter. This typically involves navigating to the 'Mixes', 'Inputs', or 'Special Functions' menu within the radio's operating system and selecting the installed switch as an input source for the desired function.

## Maintenance

The FrSky 2-Way Switch is designed for long-term durability and requires minimal maintenance.

- **Cleaning:** Keep the switch free from dust, dirt, and debris. Use a soft, dry cloth to gently wipe the exterior of the switch. Avoid using harsh chemicals or abrasive materials.
- **Environmental Protection:** Avoid exposing the switch to excessive moisture, extreme temperatures, or corrosive environments, as these can degrade performance and lifespan.
- **Connection Check:** Periodically inspect the mounting nut for tightness to ensure the switch remains securely in place within the transmitter.
- **Gentle Operation:** Do not apply excessive force to the toggle lever. Operate it smoothly between its two positions to prevent mechanical stress.

## Troubleshooting

### Switch Not Responding

- **Check Wiring:** Ensure all wires are securely connected to the correct pins on the transmitter's circuit board. A loose or incorrect connection is a common cause of non-responsiveness.
- **Transmitter Settings:** Verify that the switch is correctly assigned and configured within your transmitter's software. Confirm that the function you expect to control is indeed linked to this switch.
- **Physical Damage:** Inspect the switch for any visible signs of damage to the toggle lever or the internal mechanism. If damage is present, replacement may be necessary.

### Intermittent Operation

- **Loose Connections:** Re-check all wiring connections for any looseness. Vibrations during use can sometimes cause connections to become unstable.
- **Debris:** Ensure no foreign objects or debris are obstructing the switch mechanism, which could prevent it from making consistent contact.

## Specifications

- **Brand:** FrSky
- **Model Compatibility:** FrSky Horus X12S Transmitter
- **Circuit Type:** 2-way
- **Number of Positions:** 2
- **Actuator Type:** Push Button (Functionally a Toggle Lever)
- **Contact Type:** Normally Open, Normally Closed
- **Connector Type:** Screw Terminals
- **Contact Material:** Copper

- **Color:** Black
- **Operation Mode:** Manual
- **Recommended Age:** 14 years and up

## Support

For further assistance, technical support, or to explore other FrSky products, please visit the official FrSky website or contact their customer service department.

You can also find more information and products at theFrSky Store on Amazon.


### Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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