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## FrSky X20S

# FrSky X20S Transmitter Flat Push Button Switches User Manual

Model: X20S Compatible Switches | Brand: FrSky

## 1. PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of the FrSky X20S Transmitter Flat Push Button Switches. These switches are designed as replacement or upgrade components for the FrSky X20S series of radio transmitters, offering a flat profile for specific user preferences or applications.



**Figure 1:** A set of FrSky X20S Transmitter Flat Push Button Switches. The image displays ten individual switches, each with a metal lever and a black base, along with several black rubber caps of varying sizes, likely for covering the switch levers.

## 2. SAFETY INFORMATION

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Please read and understand all safety instructions before handling or installing the product.

- For external use only. These switches are components intended for integration into electronic devices.
- Keep out of reach of children under 14 years of age. This product contains small parts that could pose a choking hazard.

- Handle with care to avoid damage to the switch components or the transmitter during installation.
- Ensure the transmitter is powered off and disconnected from all power sources before attempting any installation or maintenance.
- If you are unsure about the installation process, seek assistance from a qualified technician or refer to the official FrSky X20S transmitter service manual.

## 3. SETUP AND INSTALLATION

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These flat push button switches are designed for integration into the FrSky X20S Transmitter. Installation typically involves replacing existing switches or adding new functionality.

### 3.1 Required Tools

- Small Phillips head screwdriver
- Small flathead screwdriver (optional, for prying)
- Needle-nose pliers (optional, for securing nuts)
- Anti-static wrist strap (recommended)

### 3.2 Installation Steps (General Guide)

1. **Power Off Transmitter:** Ensure your FrSky X20S transmitter is completely powered off and disconnected from any power source.
2. **Access Internal Components:** Carefully open the transmitter casing according to the official FrSky X20S service manual or repair guide. Note the location and connection of existing switches if you are performing a replacement.
3. **Remove Old Switch (if applicable):** Desolder any wires connected to the old switch and carefully unmount it from the transmitter chassis.
4. **Mount New Switch:** Insert the new flat push button switch into the designated opening on the transmitter casing. Secure it with the provided nut (if applicable) using needle-nose pliers, ensuring it is snug but not overtightened.
5. **Solder Connections:** Carefully solder the appropriate wires from the transmitter's circuit board to the terminals of the new switch. Refer to the transmitter's wiring diagram for correct polarity and connection points.
6. **Test Functionality:** Before reassembling, perform a preliminary test of the switch functionality if possible, ensuring it actuates correctly.
7. **Reassemble Transmitter:** Carefully close and secure the transmitter casing, ensuring all screws are properly tightened.

*Note: Specific installation procedures may vary. Always refer to the official FrSky X20S transmitter documentation for detailed instructions and wiring diagrams.*

## 4. OPERATING THE SWITCHES

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These flat push button switches are designed for momentary action.

- **Momentary Action:** The switch completes a circuit only while the button is being pressed. Upon release, the circuit is broken.
- **Function Assignment:** The specific function of each switch is determined by its wiring within the FrSky X20S transmitter and the configuration settings within the transmitter's operating system (e.g., ETHOS). Refer to your transmitter's user manual for details on assigning functions to switches.

## 5. MAINTENANCE

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Proper maintenance ensures the longevity and reliable operation of your switches.

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the switches. Avoid using liquid cleaners or solvents, as they may damage the internal components or the transmitter casing.
- **Inspection:** Periodically inspect the switches for any signs of physical damage, loose connections, or excessive wear.
- **Environmental Conditions:** Store and operate the transmitter with these switches in a clean, dry environment, away from extreme temperatures, humidity, and direct sunlight.

## 6. TROUBLESHOOTING

If you encounter issues with your flat push button switches, consider the following troubleshooting steps:

- **Switch Not Responding:**
  - Verify that the switch is correctly wired and soldered to the transmitter's circuit board.
  - Check the transmitter's software settings to ensure the switch input is correctly assigned and calibrated.
  - Inspect for any physical obstructions preventing the switch from fully actuating.
- **Intermittent Functionality:**
  - Check for loose solder joints or damaged wires.
  - Ensure the switch is securely mounted and not wiggling.
- **Physical Damage:** If the switch lever or body is visibly damaged, replacement may be necessary.

If troubleshooting steps do not resolve the issue, contact FrSky customer support or a qualified service center.

## 7. SPECIFICATIONS

Attribute	Value
Brand	FrSky
Item Name	X20S Transmitter Flat Switches
Product Dimensions	5 x 5 x 6 inches (packaging/overall product, not individual switch)
ASIN	B0CD73WYFF
Manufacturer Recommended Age	14 years and up
Manufacturer	FrSky

## 8. WARRANTY AND SUPPORT

For specific warranty information regarding your FrSky X20S Transmitter Flat Push Button Switches, please refer to the official FrSky website or contact the authorized reseller from whom you purchased the product. Warranty terms and conditions may vary by region and retailer.

For technical support, product inquiries, or service requests, please visit the official FrSky support channels:

- **FrSky Official Website:** [www.frsky-rc.com](http://www.frsky-rc.com)
- **Customer Support:** Refer to the "Support" or "Contact Us" section on the official website for contact details.

