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› DC 8V 12V 24V 36V Motor Remote Control Switch for Control Linear Actuator, 433Mhz 10A Motor Forward Reverse Relay  
Switch Momentary Mode 2 remotes --Black

fushionsea M01

DC Motor Remote Control Switch Instruction Manual

Brand: fushionsea | Model: WJZH-M01

1. PRODUCT OVERVIEW

This fushionsea WJZH-M01 DC Motor Remote Control Switch is designed for controlling the forward and reverse rotation of DC motors, linear actuators, and electronic locks. It operates on a 433MHz frequency and supports a wide voltage range from DC 8V to 36V. The system includes a receiver module and two remote transmitters, offering convenient wireless control.



Figure 1: The fushionsea DC Motor Remote Control Switch receiver and two remote transmitters.

## 2. PRODUCT COMPONENTS

The package includes the following items:

- 2 x Remote Transmitters
- 1 x Receiver Module (Model: WJZH-M01)

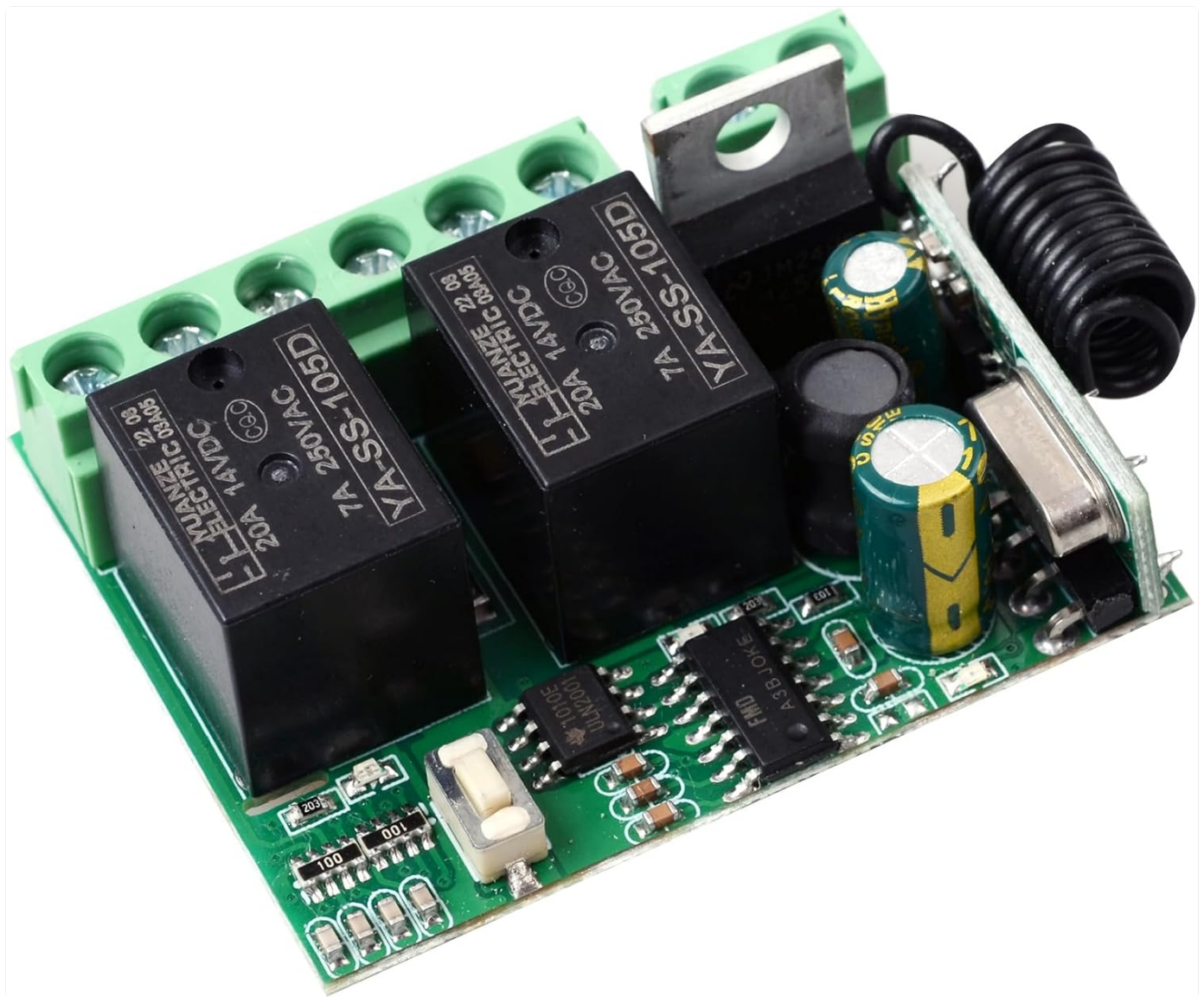


Figure 2: Internal view of the receiver module, highlighting key electronic components and relays.

### 3. SPECIFICATIONS

| Parameter               | Value                                      |
|-------------------------|--------------------------------------------|
| Receiver Model          | WJZH-M01                                   |
| Working Voltage         | DC 8V - 36V                                |
| Quiescent Current       | Less than 8mA                              |
| Working Temperature     | -40°C to +80°C                             |
| Receiver Sensitivity    | More than -105dBm                          |
| Working Frequency       | 433MHz                                     |
| Max Load                | 10A (suggest motor load less than 5A)      |
| Receiver Dimensions     | 68 x 44 x 25mm (2.68 x 1.73 x 0.98 inches) |
| Remote Control Distance | 10-30 meters (without obstacles)           |



Figure 3: Receiver module dimensions in centimeters and inches.

## 4. SETUP AND WIRING

Before connecting, ensure the power supply is disconnected. Refer to the wiring diagram below for proper connections. This module is designed for DC motors and linear actuators.

- **Power Input:** Connect your DC 8V-36V power supply to the terminals labeled **DC-COM** (Negative) and **DC+** (Positive).
- **Motor Connection:** Connect your DC motor to the terminals labeled **M1** and **M2**. The polarity determines the direction of rotation.
- **External Button/Limit Switch Connections:**
  - **SW1 & SW2:** These terminals are for connecting external limit switches (e.g., for counter-clockwise and clockwise limits).
  - **K1 & K2:** These terminals are for connecting external manual control buttons. K1 typically controls one direction (e.g., CW ON) and K2 controls the other (e.g., CCW ON).

**Important:** Always double-check your wiring before applying power to prevent damage to the module or connected devices. The maximum recommended motor load is 5A, even though the relay is rated for 10A.

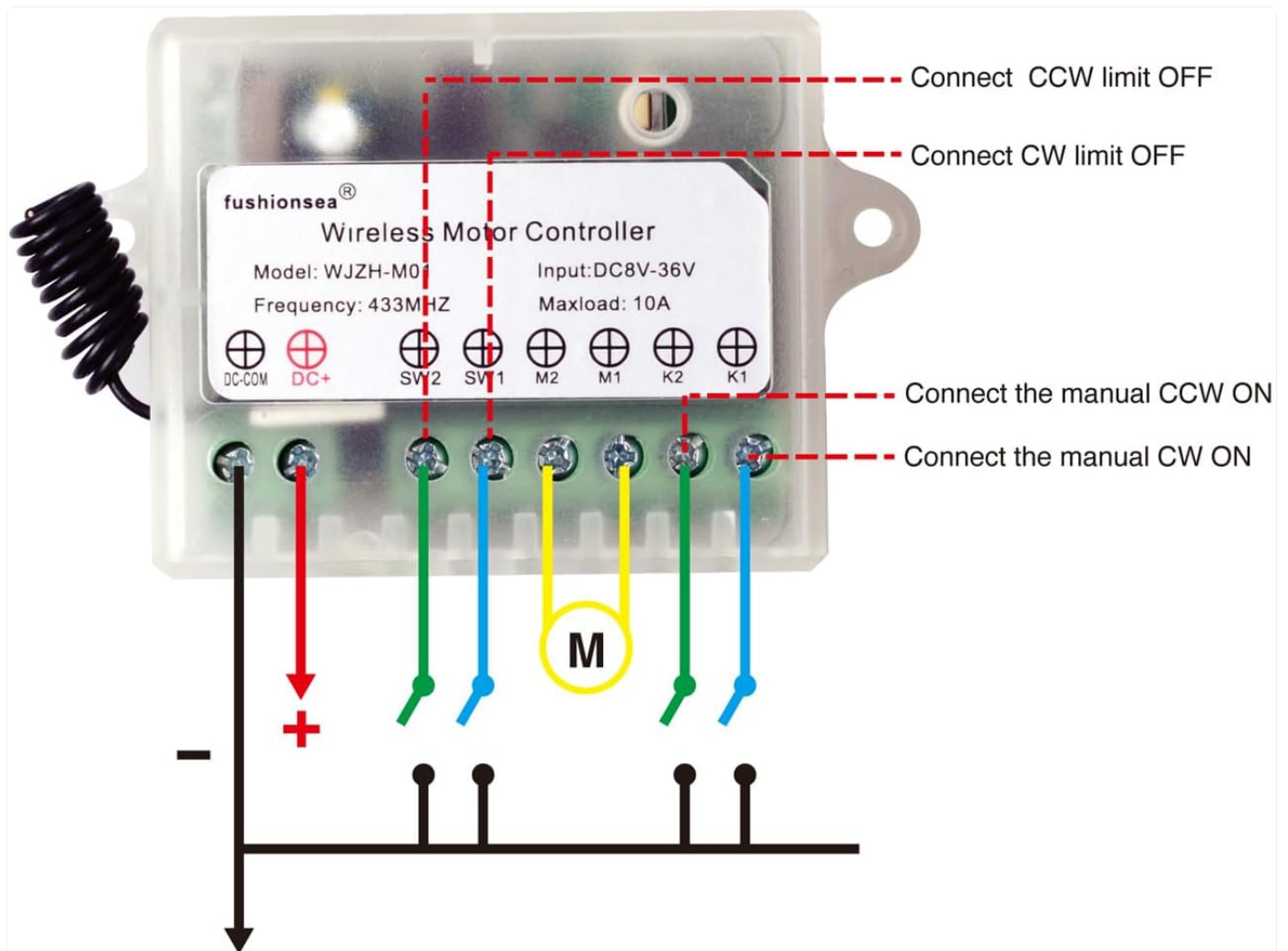


Figure 4: Detailed wiring diagram for connecting power, motor, and external switches.

## 5. OPERATING INSTRUCTIONS (MOMENTARY MODE)

The default working mode for this device is Momentary. In this mode, the motor operates only while the remote button is pressed and held. Releasing the button stops the motor.

- **Forward/Up Movement:** Press and hold the "Up" button on the transmitter. The motor will move in the forward direction. Release the button to stop the motor.
- **Reverse/Down Movement:** Press and hold the "Down" button on the transmitter. The motor will move in the reverse direction. Release the button to stop the motor.

## 6. LEARNING AND CLEARING REMOTE CODES

The receiver needs to learn the codes from the remote transmitters to function. The learning button and indicator are located on the receiver board.

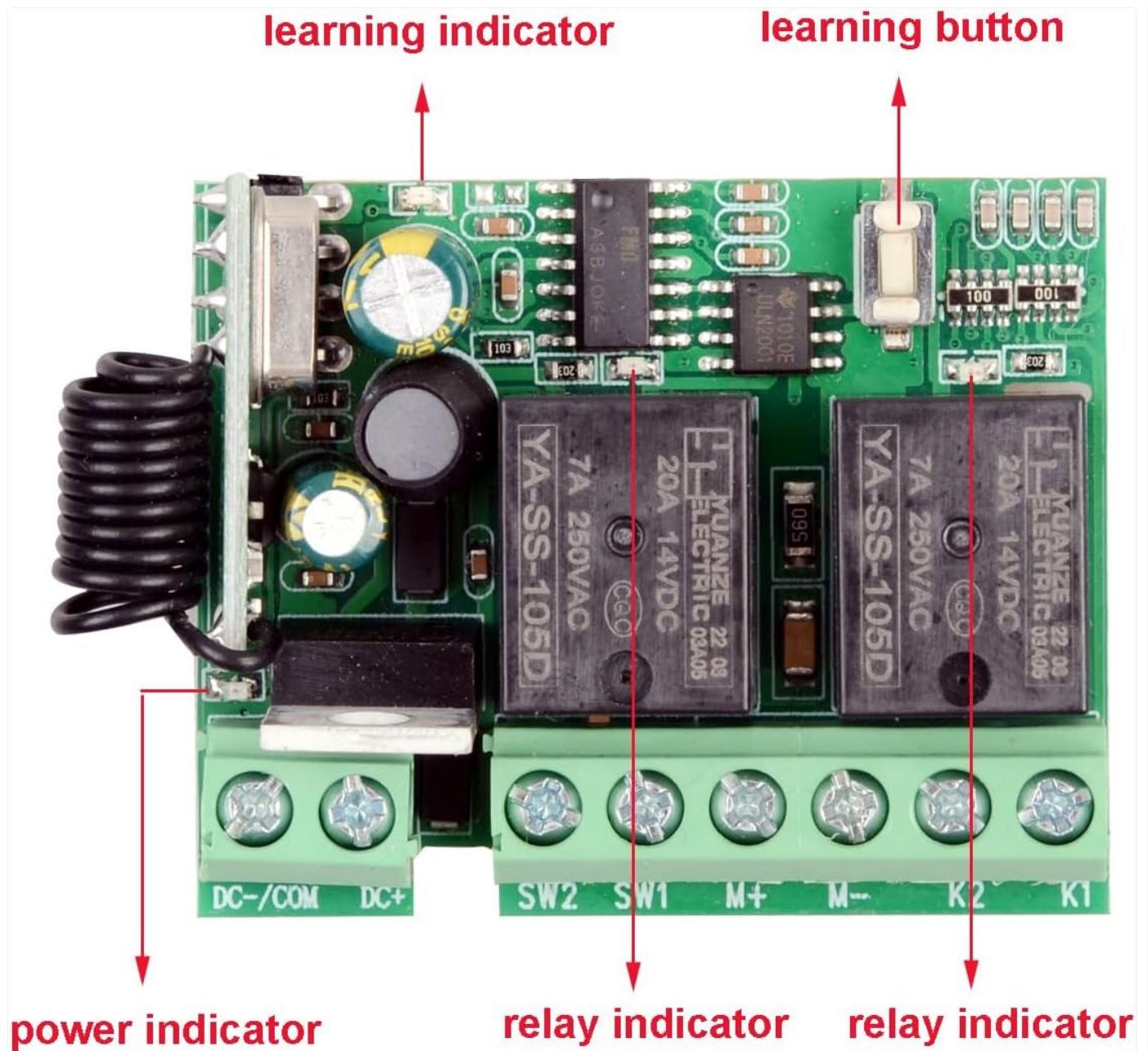


Figure 5: Location of the learning button and indicator on the receiver board.

### 6.1. Learning Method (Momentary Mode)

1. Press the learning button on the receiver once. The indicator light will flash once and then remain ON.
2. On the transmitter, press the "Up" button. The learning indicator on the receiver will flash 3 times and then remain ON.
3. On the transmitter, press the "Down" button. The learning indicator on the receiver will flash 3 times and then turn OFF.
4. This indicates that the Momentary mode learning process has been successfully completed.

### 6.2. Clearing Method

To clear all learned transmitter codes from the receiver:

1. Press the learning button on the receiver 3 times consecutively.
2. The learning indicator will flash 5 times and then turn OFF.
3. All previously stored transmitter codes in the receiver have now been cleared.

## 7. MANUAL CONTROL (EXTERNAL BUTTONS)

The receiver also supports manual control via external buttons connected to the K1 and K2 terminals. This functionality operates in momentary mode by default, similar to the remote control.

- **K1 Button:** Press and hold the external button connected to K1. The motor will move in one direction (e.g., forward). Release the button to stop the motor.
- **K2 Button:** Press and hold the external button connected to K2. The motor will move in the opposite direction (e.g., reverse). Release the button to stop the motor.

*Note: If travel switches are required for automatic stopping at limits, please use normally open (NO) type switches. The MD soldered dot on the receiver does not need to be connected for default momentary manual control.*

8. TROUBLESHOOTING

| Problem                              | Possible Cause                                                                         | Solution                                                                                                                                                                                 |
|--------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Receiver not responding to remote.   | Remote batteries are low or dead.<br>Remote not paired with receiver.<br>Out of range. | Replace remote batteries.<br>Perform the "Learning Method" (Section 6.1).<br>Move closer to the receiver.                                                                                |
| Motor does not move.                 | Incorrect wiring.<br>Power supply issue.<br>Motor load exceeds 5A.<br>Faulty motor.    | Verify all connections according to Section 4.<br>Check power supply voltage and connection.<br>Reduce motor load or use a separate relay for higher loads.<br>Test motor independently. |
| Remote range is poor.                | Obstacles (walls, metal structures).<br>Interference from other devices.               | Ensure clear line of sight if possible.<br>Relocate receiver or reduce interference sources.                                                                                             |
| Learning indicator does not respond. | Learning button not pressed correctly.<br>Receiver not powered.                        | Press the learning button firmly and briefly.<br>Ensure DC power is supplied to the receiver.                                                                                            |

9. MAINTENANCE

To ensure the longevity and optimal performance of your fushionsea DC Motor Remote Control Switch, follow these maintenance guidelines:

- **Keep Dry:** Protect the receiver module from moisture and water, as this can cause short circuits and damage.
- **Temperature:** Operate and store the device within the specified temperature range (-40°C to +80°C). Avoid extreme heat or cold.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the receiver and remotes. Do not use harsh chemicals or abrasive cleaners.
- **Remote Batteries:** Replace the alkaline batteries in the remote transmitters when their performance degrades or they stop working.
- **Connections:** Periodically check all wired connections to ensure they are secure and free from corrosion.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your fushionsea DC Motor Remote Control Switch, please contact the manufacturer or your point of purchase directly. Keep your purchase receipt as proof of purchase.

Manufacturer: fushionsea

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