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Wishiot LS-DR2533+LS0011

Wishiot 1.5g Micro Linear Digital Servo and 3CH Servo Tester Instruction Manual

Brand: **Wishiot** | Model: **LS-DR2533+LS0011**

1. Introduction

This manual provides detailed instructions for the Wishiot 1.5g Micro Linear Digital Servos and the accompanying 3CH Digital Multi Servo Tester. These components are designed for use in various remote-controlled applications, particularly small indoor aircraft and other models requiring precise and lightweight control. Please read this manual thoroughly before operation to ensure proper setup and functionality.



Image 1.1: Overview of the Wishiot 1.5g Micro Linear Digital Servos and 3CH Servo Tester.

2. Package Contents

Upon opening the package, verify that all components are present and undamaged:

- 2 x Wishiot 1.5g Micro Linear Digital Servos
- 1 x Wishiot 3CH Digital Multi Servo Tester

3. Product Overview

3.1. 1.5g Micro Linear Digital Servo

The 1.5g micro linear digital servo is a compact and lightweight actuator designed for applications where space and weight are critical. It provides precise linear movement for control surfaces or other mechanisms in small models.

3.2. 3CH Digital Multi Servo Tester

The 3CH Digital Multi Servo Tester is a tool used to test the functionality and consistency of servos. It can operate servos in three different modes, allowing for comprehensive evaluation before integration into a model. This tester is capable of testing servos weighing more than 55 grams.

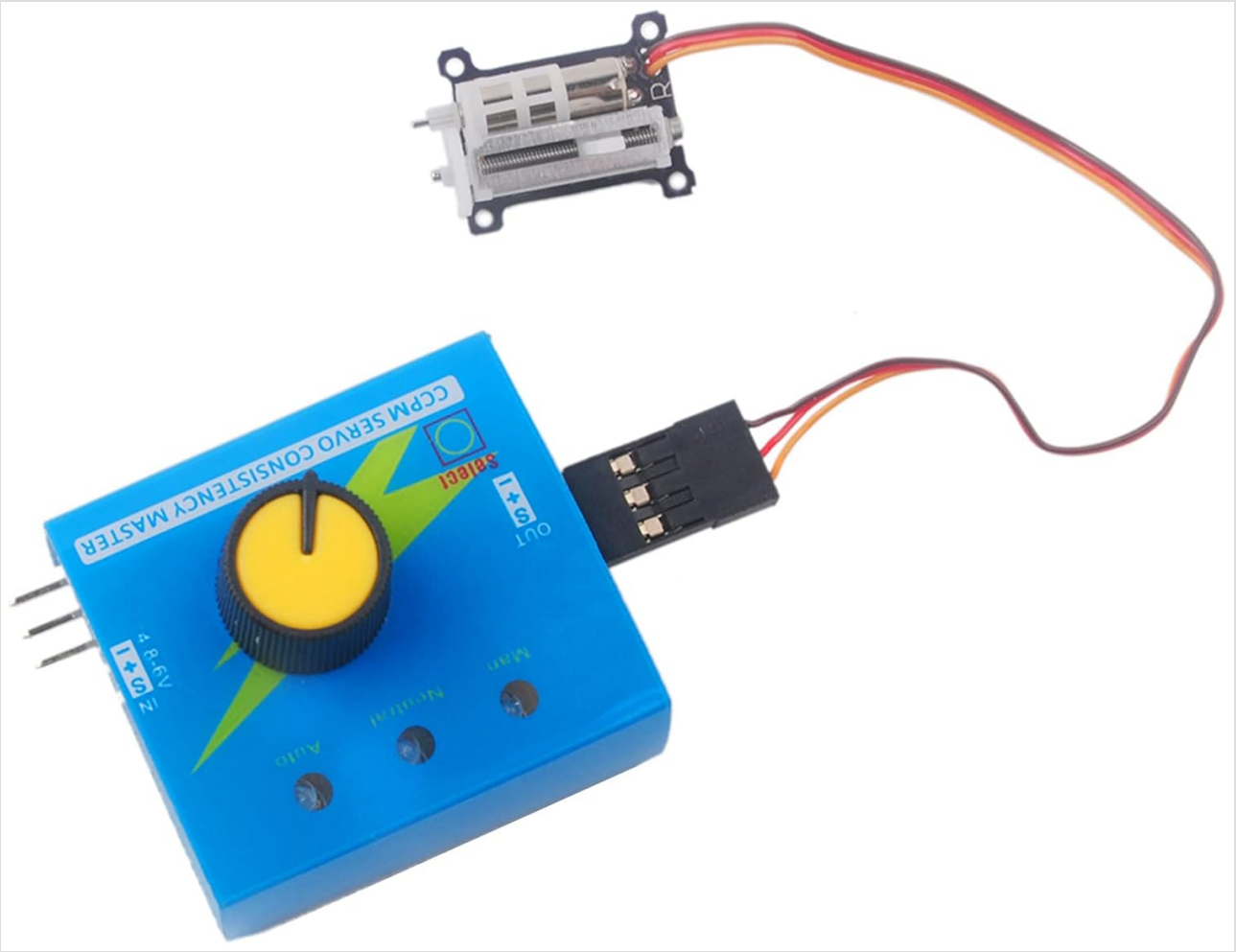


Image 3.1: A 1.5g micro linear servo connected to the 3CH Digital Multi Servo Tester.

4. Specifications

4.1. 1.5g Micro Linear Digital Servo

Dimensions: 21.2 x 15.0 x 6.0 mm

Operating Voltage: 4.8V - 8.4V

Wire Length: 100 mm

Performance Data:

Voltage	Torque	Speed	Current
3.7V	0.12kg.f	0.12sec / 9mm	55mA
4.2V	0.17kg.f	0.11sec / 9mm	32mA
5.0V	0.20kg.f	0.10sec / 9mm	80mA
6.0V	0.24kg.f	0.08sec / 9mm	100mA



Image 4.1: Performance specifications for the 1.5g micro linear digital servo.

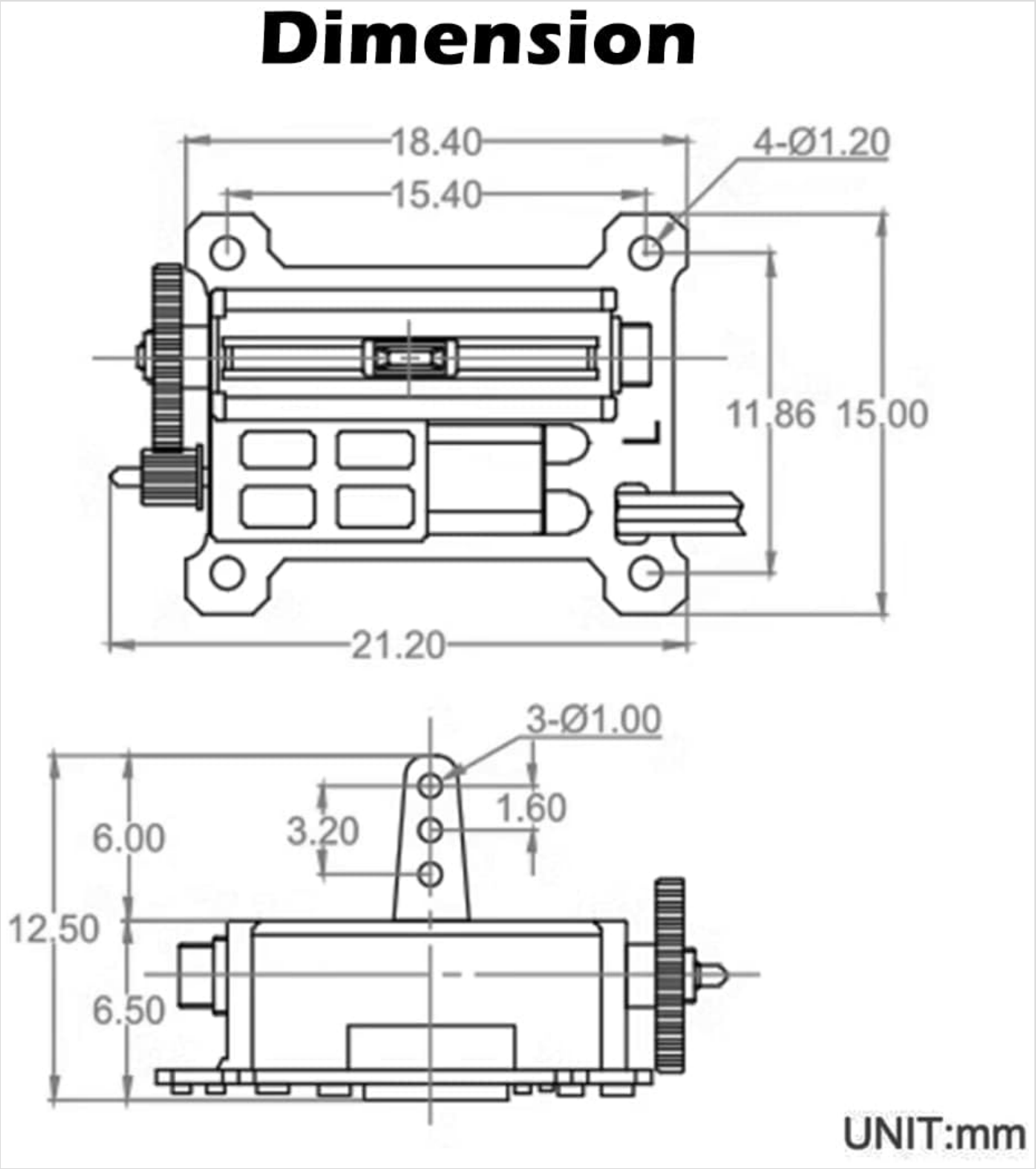


Image 4.2: Dimensional drawing of the 1.5g micro linear digital servo.

4.2. 3CH Digital Multi Servo Tester

Compatibility: Can test servos weighing more than 55 grams.

Modes: Manual, Neutral, Automatic.

4.3. General Product Information

Item Weight: 0.81 ounces (total package)

Package Dimensions: 5.5 x 4 x 0.5 inches

5. Setup

5.1. Servo Wiring

The 1.5g micro linear digital servo uses a standard JR connector. Ensure correct polarity when connecting to a receiver, flight controller, or the servo tester.

Red Wire: Positive (+) power supply

Black Wire: Negative (-) / Ground

Orange Wire: Signal (S)

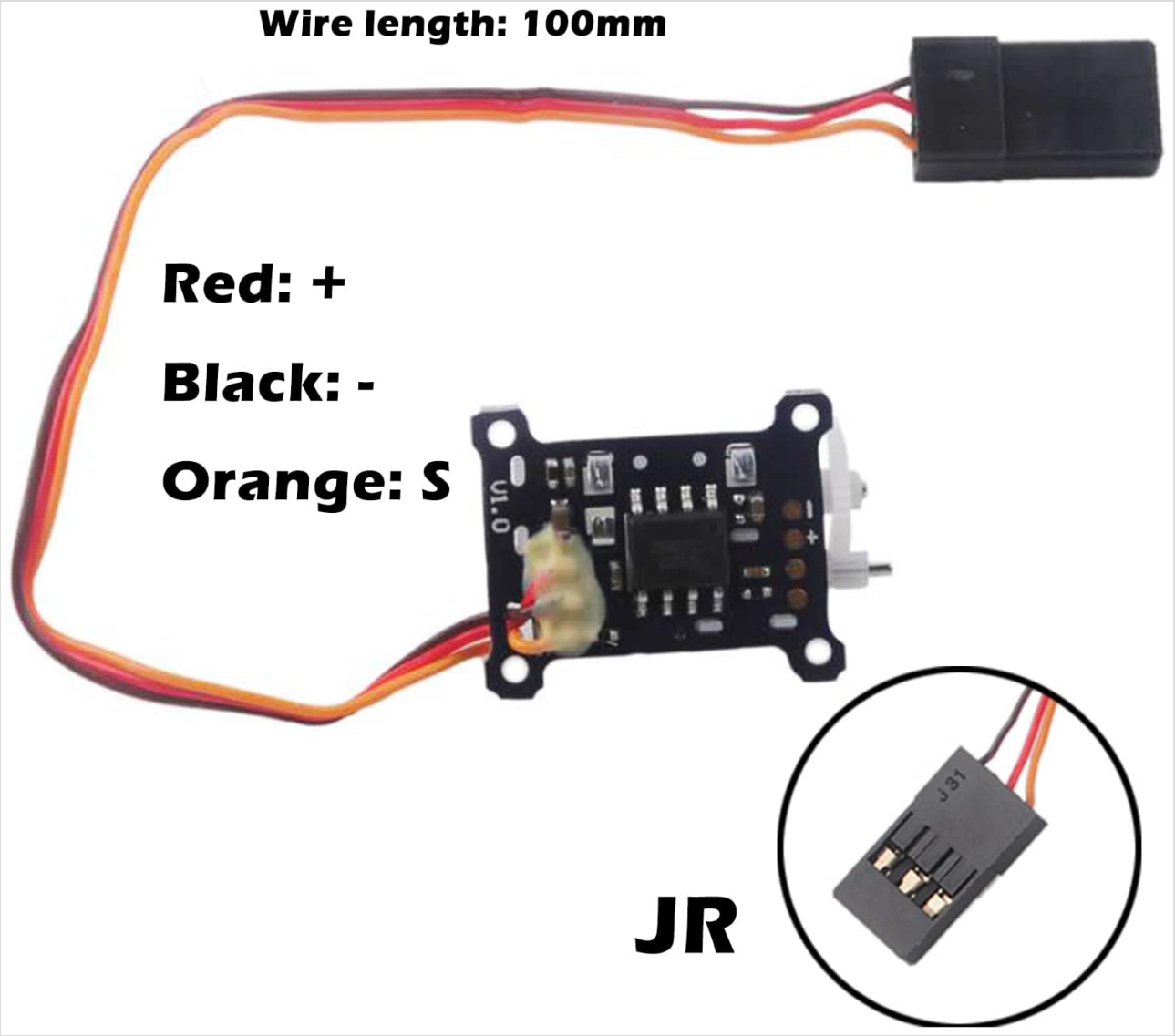


Image 5.1: Servo wiring diagram.

5.2. Connecting to the Servo Tester

1. Connect the servo's JR connector to one of the 'OUT' ports on the 3CH Digital Multi Servo Tester. Ensure the signal wire (Orange) aligns with the 'S' pin, the positive wire (Red) with the '+' pin, and the negative wire (Black) with the '-' pin.
2. Connect a power source (4.8V-8.4V) to the 'IN' port of the servo tester. This can be a battery pack or a regulated power supply.

6. Operating Instructions (3CH Digital Multi Servo Tester)

The servo tester features a mode selection button and a rotary knob for control. It supports three operating modes:

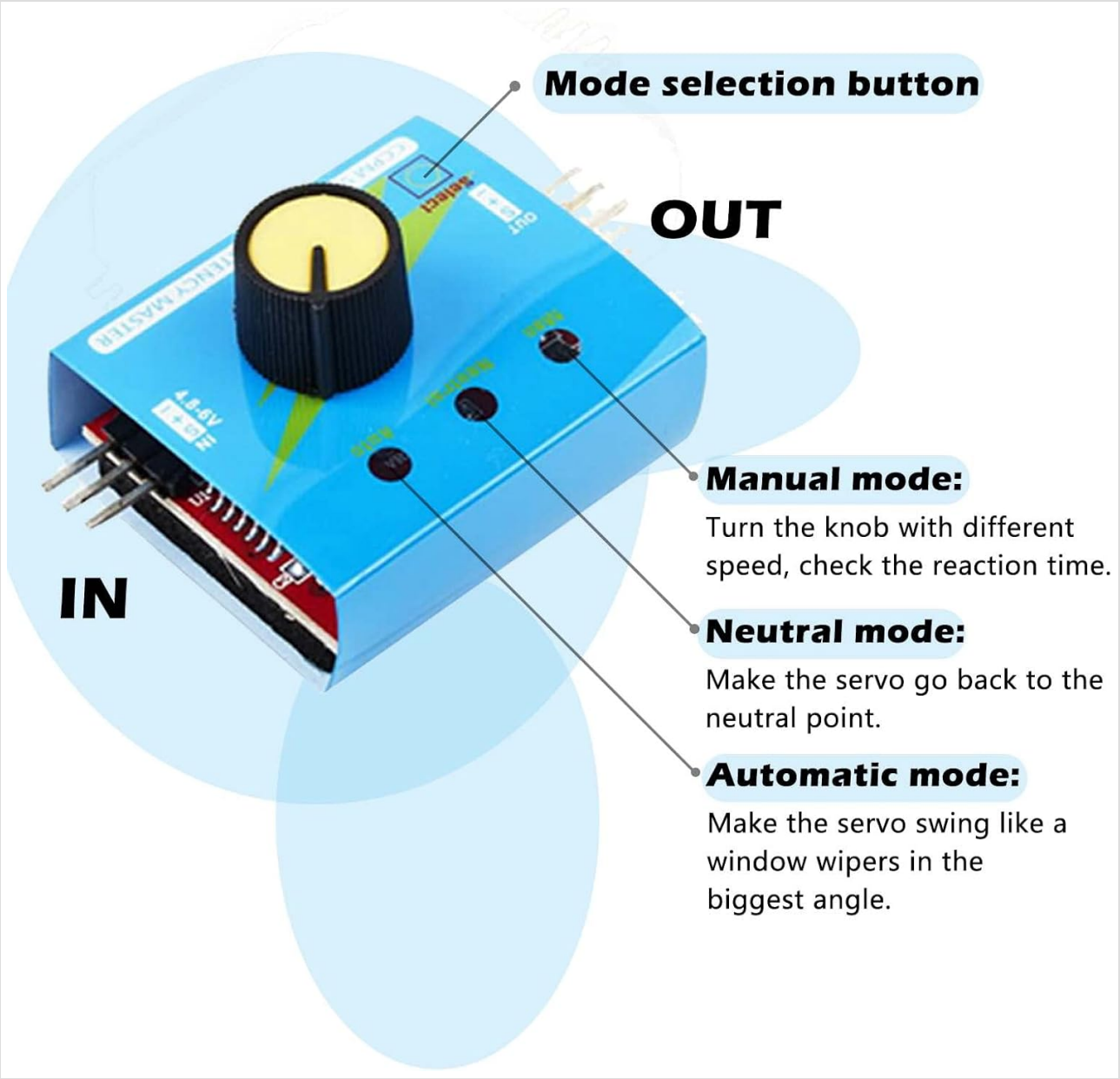


Image 6.1: Servo Tester Mode Selection.

6.1. Mode Selection

Press the 'Select' button to cycle through the three modes. An indicator light will show the currently active mode.

- **Manual Mode:** In this mode, turn the rotary knob to manually control the servo's position. This allows you to check the servo's reaction time and range of motion.
- **Neutral Mode:** This mode commands the servo to move to its neutral (center) position. It is useful for verifying the servo's calibration and ensuring it returns to the correct starting point.
- **Automatic Mode:** In automatic mode, the servo will continuously sweep back and forth across its full range of motion, similar to a window wiper. This mode is suitable for endurance testing and observing smooth operation.

7. Applications

The Wishiot 1.5g Micro Linear Digital Servos are suitable for a variety of applications requiring precise, lightweight, and compact actuation. These include:

- Small RC Planes
- Indoor Aircraft

- Helicopters
- Fixed-wing models
- Robotics projects
- 3D Printers (for specific small-scale movements)
- Industrial intelligence applications requiring miniature actuators

8. Maintenance

To ensure the longevity and optimal performance of your servos and tester, follow these general maintenance guidelines:

- **Keep Clean:** Avoid dust, dirt, and moisture, which can interfere with the internal mechanisms of the servos and the electronics of the tester.
- **Avoid Overloading:** Do not attempt to move loads beyond the servo's specified torque limits, as this can cause damage to the gears and motor.
- **Proper Storage:** Store components in a dry, cool environment away from direct sunlight and extreme temperatures.
- **Inspect Wiring:** Periodically check all wires and connectors for signs of wear, fraying, or corrosion.

9. Troubleshooting

If you encounter issues with your Wishiot servos or tester, consider the following troubleshooting steps:

- **Servo Not Responding:**
  - Check power connections to both the servo and the tester. Ensure correct polarity.
  - Verify the signal wire connection.
  - Ensure the power source provides adequate voltage (4.8V-8.4V) and current.
  - Test the servo with a different known-good tester or receiver, if available.
- **Servo Jittering or Inconsistent Movement:**
  - Check for loose connections or interference.
  - Ensure the servo is not mechanically binding or obstructed.
  - Verify the power supply is stable and free from voltage drops.
- **Servo Tester Not Functioning:**
  - Confirm the power supply to the tester is correctly connected and within the specified voltage range.
  - Ensure the mode selection button is pressed firmly.

10. Warranty and Support

Wishiot is committed to providing quality products and customer satisfaction. If you have any questions, concerns, or require assistance with your product, please do not hesitate to contact our customer support. We aim to respond to all inquiries within 24 hours and provide a satisfactory solution.

For support, please refer to the contact information provided with your purchase or visit the official Wishiot store page.

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Question

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Details

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

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