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## EcoPower 827

# EcoPower 827 12g Digital Metal Gear Micro Servo (High Voltage) Instruction Manual

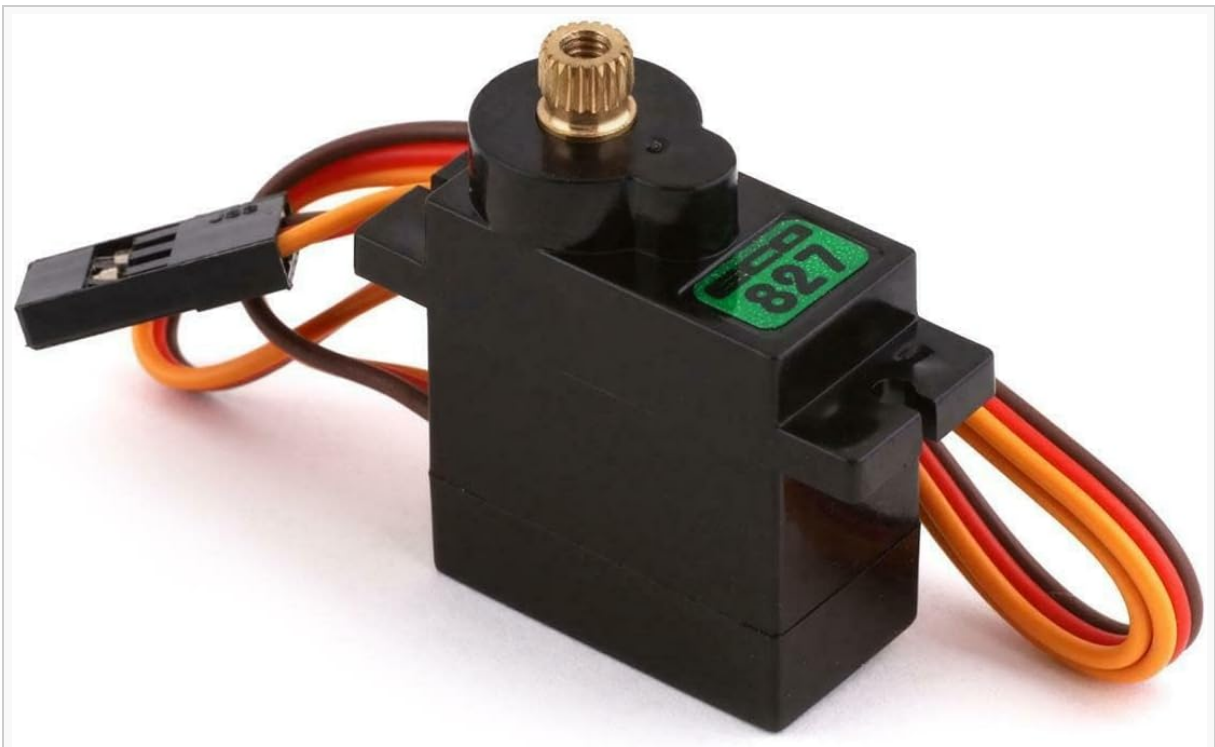
Model: 827 | Brand: EcoPower

## INTRODUCTION

This instruction manual provides essential information for the proper setup, operation, and maintenance of your EcoPower 827 12g Digital Metal Gear Micro Servo. Please read this manual thoroughly before using the product to ensure optimal performance and longevity. Retain this manual for future reference.

## PRODUCT OVERVIEW

The EcoPower 827 is a high-performance digital micro servo designed for various remote-controlled applications. It features metal gears for durability and operates at high voltage for increased power and speed.



This image displays the EcoPower 827 12g Digital Metal Gear Micro Servo. It features a black plastic casing, a brass output shaft, and a three-wire connector (brown, orange, red) for power and signal connection to a receiver or flight

controller.

## SPECIFICATIONS

Feature	Value
Brand	EcoPower
Model	827
Type	Digital Metal Gear Micro Servo
Voltage	High Voltage
Product Dimensions	6 x 6 x 6 inches
Item Weight	3 ounces
ASIN	B0C7NKT67M
Recommended Age	12 years and up

## SETUP

- Mounting:** Securely mount the servo in your model using appropriate servo mounts and screws. Ensure there is no binding or excessive force on the servo case.
- Horn Attachment:** Select the correct servo horn for your application. Attach the horn to the servo output shaft, ensuring it is centered before tightening the retaining screw.
- Electrical Connection:** Connect the servo's three-wire cable to the corresponding channel on your receiver or flight controller. Ensure correct polarity: brown (ground), red (positive voltage), orange (signal). This is a high-voltage servo; ensure your power source and receiver support the required voltage range.
- Linkage Setup:** Connect the servo horn to the control surface or mechanism using appropriate linkages. Adjust linkages to achieve the desired range of motion without straining the servo.

## OPERATING

Once properly installed and connected, the EcoPower 827 servo will respond to control signals from your transmitter via the receiver. Ensure your transmitter and receiver are correctly bound and configured for the servo's operation. Always perform a range check before operating your model to confirm reliable control.

- Power On Sequence:** Always turn on your transmitter first, then power on your model's receiver/power system.
- Power Off Sequence:** Always power off your model's receiver/power system first, then turn off your transmitter.
- Voltage Compatibility:** Verify that the operating voltage supplied to the servo is within its specified high-voltage range to prevent damage.

## MAINTENANCE

- Regular Inspection:** Periodically check the servo for any signs of physical damage, loose screws, or worn gears.

- **Cleanliness:** Keep the servo free from dirt, dust, and moisture. Use a soft, dry cloth for cleaning. Avoid using solvents or harsh chemicals.
- **Gear Lubrication:** The metal gears are pre-lubricated. If necessary, a small amount of high-quality plastic-safe grease can be applied to the gear train. Avoid over-lubrication.
- **Cable Integrity:** Inspect the servo cable for cuts, fraying, or damaged connectors. Replace if necessary.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Servo not responding	Incorrect connection, no power, faulty receiver/transmitter, damaged servo.	Check all connections and polarity. Verify power supply. Test with a different servo or receiver/transmitter.
Servo jitters or moves erratically	Interference, low battery voltage, faulty signal, mechanical binding.	Check for sources of interference. Ensure battery is fully charged. Inspect linkages for binding.
Servo makes noise but doesn't move	Stripped gears, obstructed movement, insufficient power.	Inspect gears for damage. Remove any obstructions. Verify power supply.
Servo is weak or slow	Low voltage, excessive load, incorrect settings.	Ensure adequate voltage supply. Reduce mechanical load. Check transmitter settings for servo speed/travel.

## WARRANTY AND SUPPORT

For warranty information, please refer to the terms and conditions provided by your retailer or the manufacturer, EcoPower. Keep your proof of purchase for any warranty claims.

If you encounter issues not covered in this manual or require further assistance, please contact the retailer where you purchased the product or visit the official EcoPower website for support resources.