

Generic CAFLBFALG-12V80MM95RPM-EUPLUG

Generic Telescopic Linear Actuator User Manual

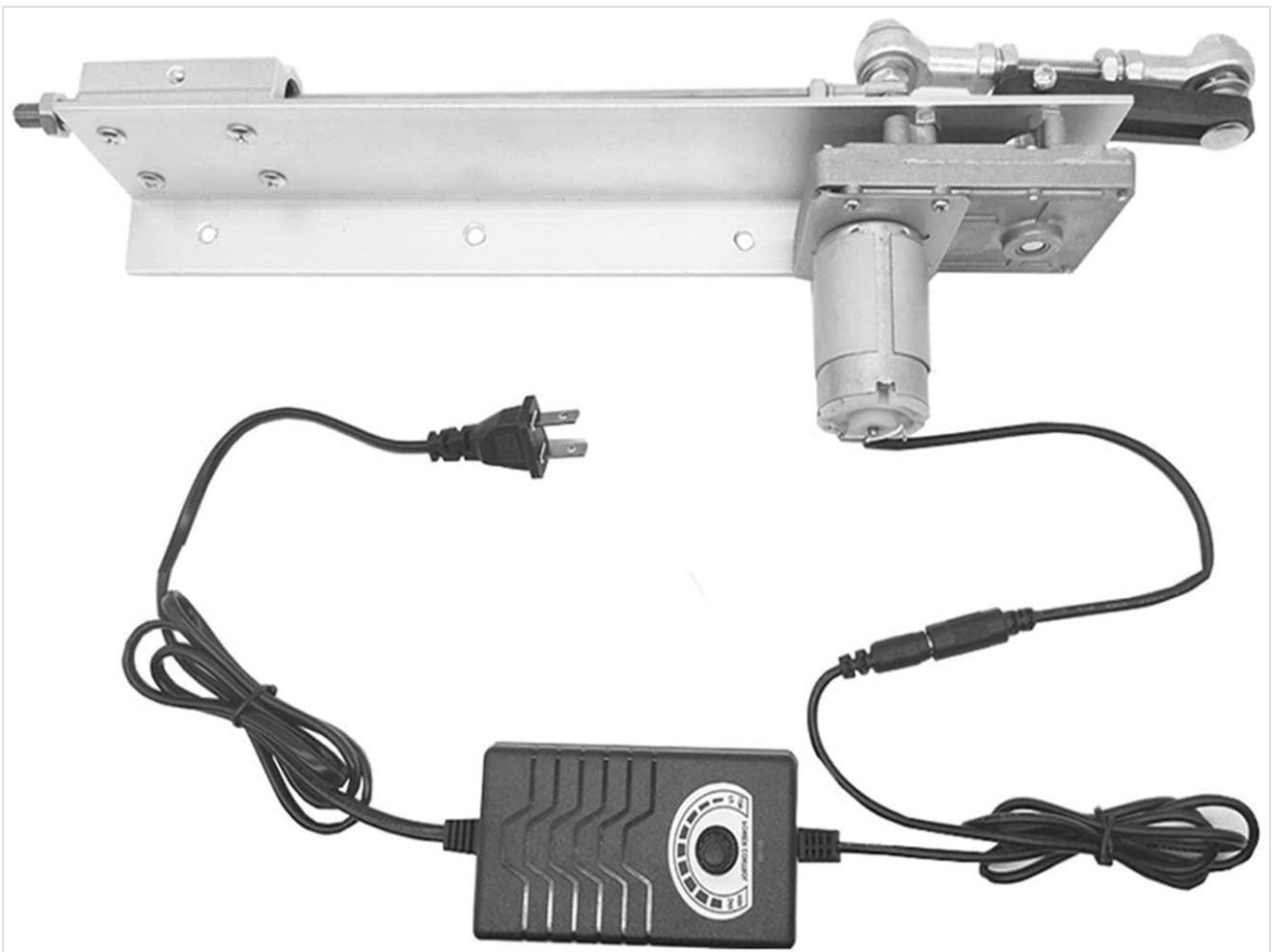
Model: CAFLBFALG-12V80MM95RPM-EUPLUG

1. PRODUCT OVERVIEW

This manual provides instructions for the Generic DC 12V/24V Metal Gear Reduction Motor Telescopic Linear Actuator. This device is designed for applications requiring linear reciprocating motion with adjustable stroke and speed.

Key Features:

- Adjustable stroke length to meet user requirements.
- Linear motion speed can be adjusted by controlling motor voltage.
- Easy to use: No re-welding required; simply plug in the correct patch cable.
- Easy to fix: Features three 6mm holes on the bottom for convenient installation and securing.



2. PACKAGE CONTENTS

Upon opening the package, ensure all the following components are present:

- 1 x Reciprocating Mechanism
- 1 x DC Gear Motor
- 1 x Power Supply with Speed Regulation
- 1 x Suction Cup (if applicable to specific model variant)



Figure 2: All components included in the package, showing the linear motor, power supply, and suction cup.

3. SETUP AND INSTALLATION

3.1 Connecting the Components

The motor is designed for easy connection without the need for re-welding. Simply connect the DC gear motor to the reciprocating mechanism and then plug the power supply into the motor's input port.

3.2 Mounting the Actuator

The reciprocating motor features three 6mm diameter holes on its base for secure mounting. Use appropriate fasteners (not included) to fix the actuator to a stable surface.

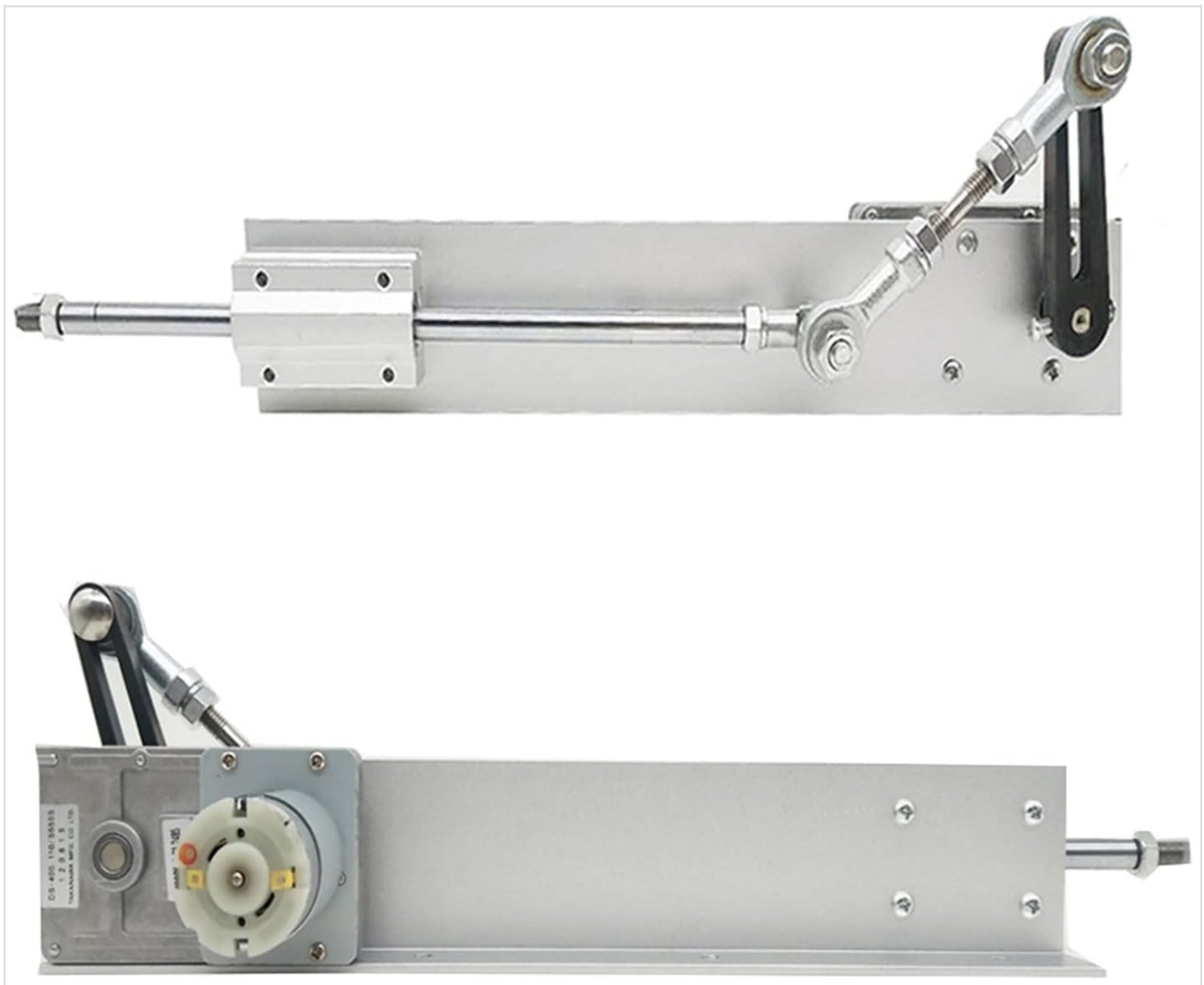


Figure 3: Underside of the linear actuator, highlighting the three Ø6mm mounting holes for installation.

4. OPERATION

4.1 Adjusting Stroke Length

The stroke length of this product is adjustable to suit user needs. The mechanism allows for adjustment to any position to achieve the desired length.

Unit: mm

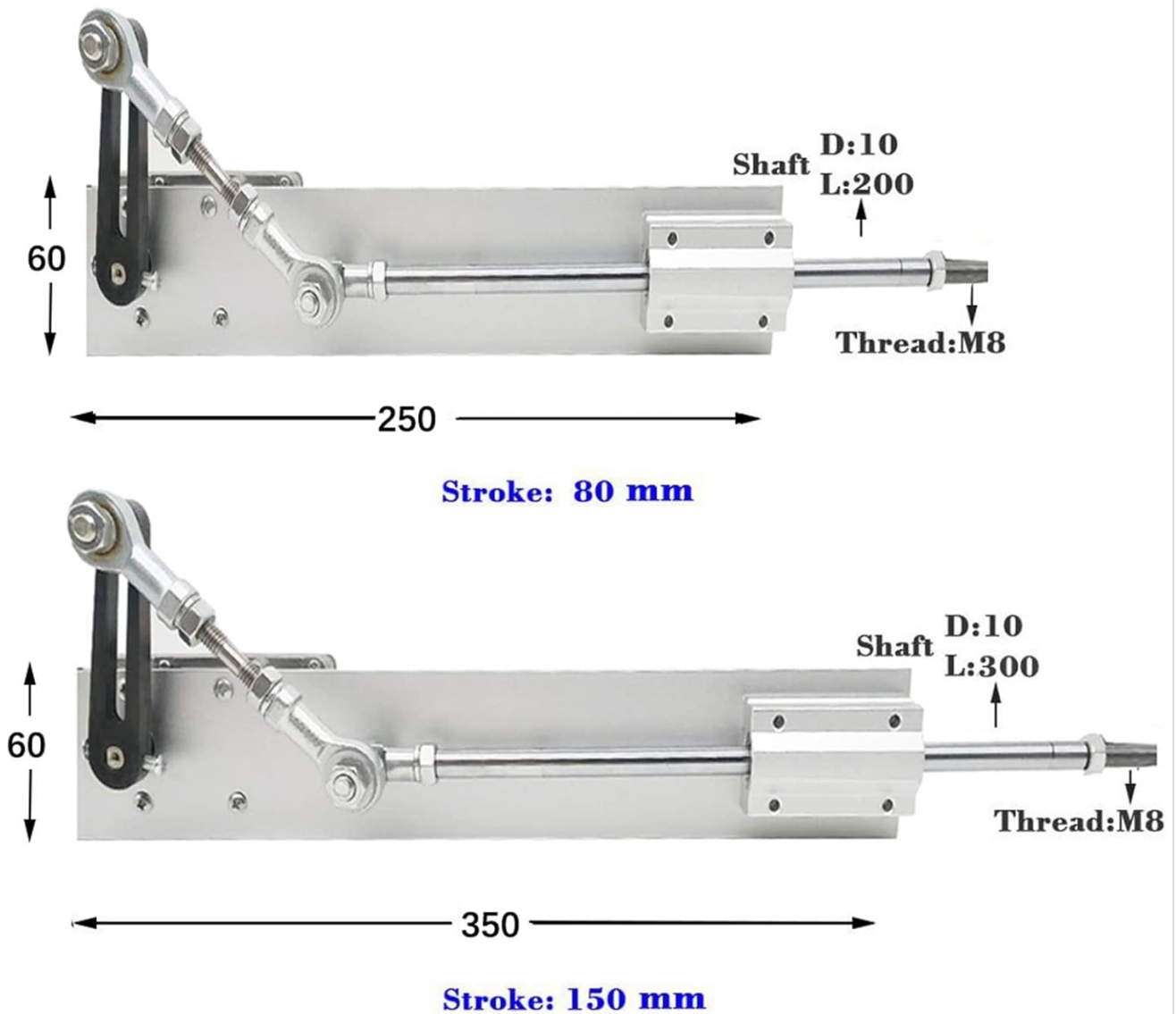


Figure 4: Illustration of adjustable stroke lengths, demonstrating 80mm and 150mm configurations.

4.2 Adjusting Speed (RPM)

The linear motion speed (RPM) can be adjusted by regulating the voltage supplied by the power adapter. The provided power supply unit includes a speed regulation feature.

Model	V Voltage	mm Stroke	rpm Speed	kg Force
12V80mm45rpm	12	20-80	45	4-15
12V80mm95rpm	12	20-80	95	4-15
12V150mm45rpm	12	30-150	45	1.5-7.5
12V150mm95rpm	12	30-150	95	1.5-7.5
24V80mm45rpm	24	20-80	45	5-25
24V80mm100rpm	24	20-80	100	5-25
24V80mm120rpm	24	20-80	120	5-25
24V150mm45rpm	24	30-150	45	2-10
24V150mm100rpm	24	30-150	100	2-10
24V150mm120rpm	24	30-150	120	2-10

Figure 5: Examples of 12V and 24V power adapters, each featuring a speed control dial for adjusting motor RPM.

5. SPECIFICATIONS

The following table details the various specifications for different models of the telescopic linear actuator:

Model	Voltage (V)	Stroke (mm)	Speed (RPM)	Force (kg)
12V80mm45rpm	12	20-80	45	4-15
12V80mm95rpm	12	20-80	95	4-15
12V150mm45rpm	12	30-150	45	1.5-7.5
12V150mm95rpm	12	30-150	95	1.5-7.5
24V80mm45rpm	24	20-80	45	5-25
24V80mm100rpm	24	20-80	100	5-25
24V80mm120rpm	24	20-80	120	5-25
24V150mm45rpm	24	30-150	45	2-10
24V150mm100rpm	24	30-150	100	2-10
24V150mm120rpm	24	30-150	120	2-10



Figure 6: Detailed specifications table for different models, including voltage, stroke, RPM, and force.

Note: For example, "24V150MM120RPM" indicates a voltage of 24V, a stroke of 150mm, and a speed of 120 RPM.

6. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your telescopic linear actuator, follow these general maintenance guidelines:

- Keep the actuator clean and free from dust and debris.
- Regularly inspect the moving parts for any signs of wear or damage.
- Ensure all connections are secure and free from corrosion.
- Avoid operating the actuator beyond its specified load and speed limits.

7. TROUBLESHOOTING

If you encounter issues with your linear actuator, consider the following common troubleshooting steps:

- **Actuator not moving:** Check power supply connection, ensure the power adapter is plugged into a live outlet, and verify the voltage setting.
- **Incorrect speed:** Adjust the speed regulation dial on the power supply. Ensure the power supply voltage matches the motor's requirements.

- **Unusual noise:** Inspect for any obstructions in the linear path or loose components. Ensure the actuator is securely mounted.

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your purchase receipt as proof of purchase.