

[manuals.plus](#) /› [Rollerhouse](#) /› [Rollerhouse RTS 12V DC Radio Controlled Tubular Motors for Electric Mini Roller Blind Instruction Manual](#)

[Rollerhouse 16mm_Radio_DC_12V](#)

Rollerhouse RTS 12V DC Tubular Motor Instruction Manual

Model: 16mm_Radio_DC_12V

For Electric Mini Roller Blind Compatible 1" (25mm) and 1-1/8" (28mm) Roller Shades

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Rollerhouse RTS 12V DC Tubular Motor. This motor is designed to convert existing manual roller blinds into convenient, remote-controlled motorized shades, enhancing comfort and functionality in your home or office. Please read all instructions carefully before beginning installation or operation.

WHAT'S INCLUDED

Your Rollerhouse wired shade motor kit includes the following components:

- 1x DC12V Blinds Motor (Motor tube Φ 16mm/0.63 in.)
- 1x Mounting Bracket
- 1x Remote Control
- 1x 1in. (25mm) Rubber Fittings
- 1x Pair Instruction Manual

What's in the Kit

Shade Motor Parameter



12V	Rated Torque (Nm)	Rated Speed (Rpm)	Radio Frequency (MHz)	Rated Current (A)	Rated Power (W)	Degree Of Protection (P)	Working Temperature (°C)	Length (mm)	Certification
	0.3	28	433	0.6	7.2	IP20	0°C~40°C	9.4in	

Image: Detailed view of the Rollerhouse motor kit components and their specifications.

SETUP AND INSTALLATION

This section guides you through the process of installing your Rollerhouse tubular motor into an existing roller shade. Ensure you have all components and necessary tools before starting.

Power Requirements

The DC12V motor requires a 12V DC power supply. Ensure a DC power source is nearby. Note that this motor is not compatible with 8 AA or 8 D battery packs due to constant power drain from the radio component.

Manual Shade Retrofit Guide

Designed for a small tube



Power options

DC motors are powered from a 12V DC power source.

TIPS Not for use with 8 AA batteries or 8 D batteries (constant power drain because of the radio portion of the unit)

Select appropriate Crown and Drive set
• Based on Motor type and Tube size



Image: Manual Shade Retrofit Guide illustrating power options and motor tube dimensions.

Installation Steps

- 1. Unclip and Remove Chain Drive:** Unclip your existing manual blind and remove its chain drive mechanism.
- 2. Measure Tube Dimensions:** Accurately measure the Inner Diameter (ID) and Outer Diameter (OD) of your blind's shade tube. This is crucial for selecting the correct drive fittings.
- 3. Remove End Cap and Bracket:** Gently remove the end cap from the blind housing. Then, carefully pry away the bracket metal piece that holds the entire blind system together.
- 4. Insert Motor:** Hold the blinds up and insert the tubular motor into the shade tube. Ensure the charging port on the motor is facing upwards for easy access to the adapter or solar charger.
- 5. Reassemble:** Reinstall the bracket metal piece and the end cap. Ensure the antenna wire is not cut during reassembly.

Installation Guild



Manual Shades



Screw off the Chain side bracket



No need chain drive Mechanism



Please measure ID&OD



Fit required crown and drive adapters



Pair the remote with motor

Image: Visual guide detailing the installation process from manual shade to motorized.

Video Guide: Motorizing Existing Blinds

Your browser does not support the video tag.

Video: A detailed guide on how to motorize your existing blinds, shades, and draperies using Rollerhouse motors.

OPERATING INSTRUCTIONS

Once installed, your Rollerhouse tubular motor can be operated using the included remote control. For advanced control, it can be integrated with smart home hubs.

Remote Control Operation

Use the remote control to raise, lower, and stop your motorized blinds. The remote allows for precise control over the shade's position.



Image: The Rollerhouse motor, remote control, and mounting hardware.

Smart Home Integration

The motor can work with smart bridges like Broadlink RM Pro to learn RF commands. This allows you to control your shades via smartphone apps and integrate them into your home automation system, including voice control with Amazon Alexa and Google Assistant (requires a separate hub).

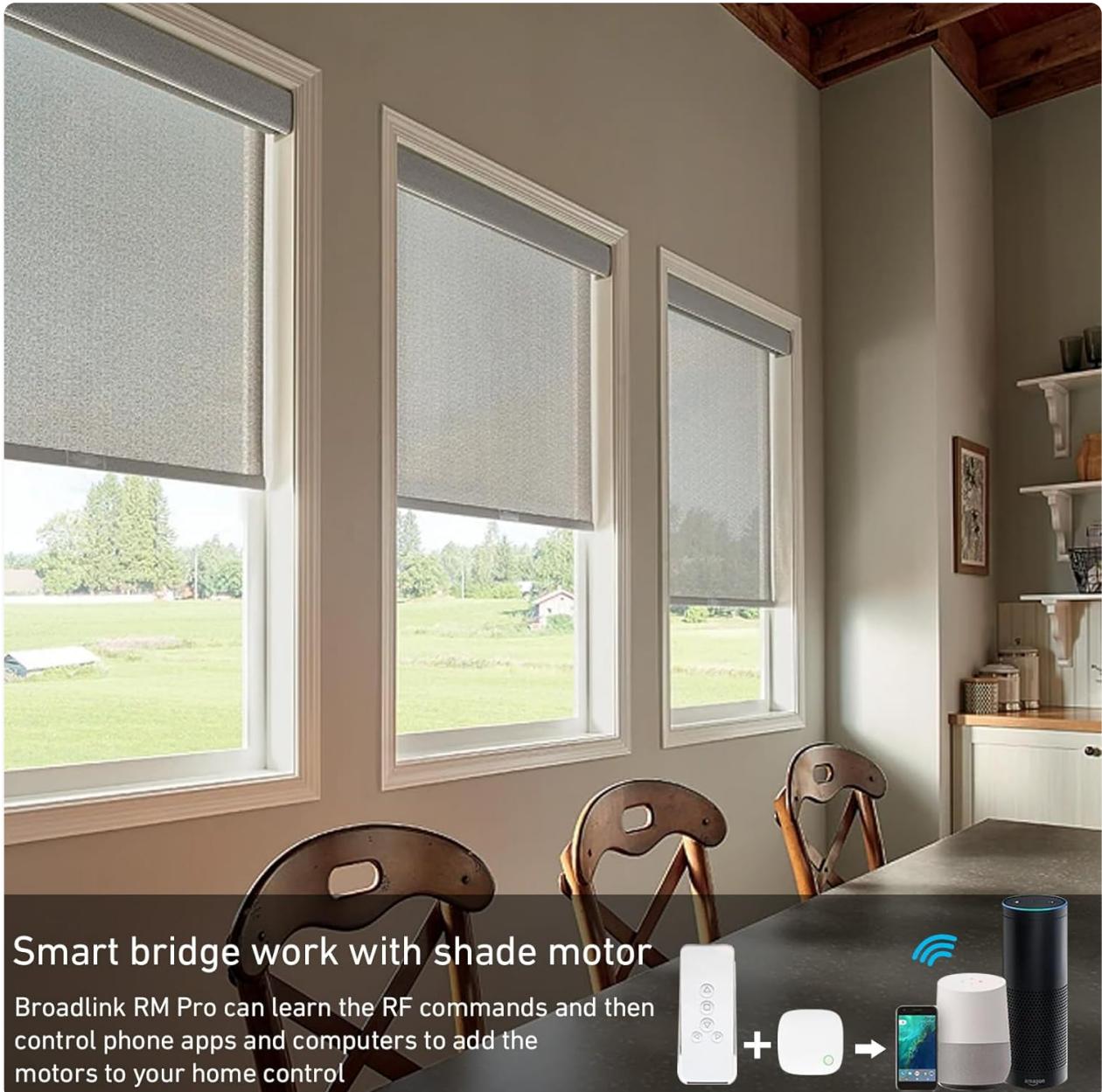


Image: Diagram illustrating how the motor integrates with smart home systems for app and voice control.

Video Guide: Programming the Remote

Your browser does not support the video tag.

Video: Instructions on how to program the remote control to operate your motorized blinds.

Video Guide: Connecting to RF Hub

Your browser does not support the video tag.

Video: A guide on how to connect your RF Shade Motor to an RF hub, such as Broadlink.

MAINTENANCE

To ensure the longevity and optimal performance of your Rollerhouse tubular motor, follow these simple maintenance guidelines:

- **Cleaning:** Spot clean the motor and surrounding components as needed. Avoid using harsh chemicals or abrasive materials.
- **Power Source:** Ensure a stable 12V DC power source is used. Avoid using battery packs for extended periods due to constant power drain.

Video Guide: Changing Rubber Pieces

Your browser does not support the video tag.

Video: A tutorial on how to change the rubber pieces at the end of the tubular motor.

TROUBLESHOOTING

If you encounter issues with your Rollerhouse tubular motor, refer to the common problems and solutions below:

- **Motor Not Responding:** Ensure the 12V DC power supply is properly connected and providing power. Check the remote control battery.
- **Motor Runs Slowly:** This can occur with some shades. Ensure the shade weight does not exceed the motor's lifting capacity (up to 4.4 lbs for 1" tube).
- **Battery Drains Quickly (if using battery pack):** The radio component of the unit causes constant power drain. It is recommended to use an AC 12V 2 amp power supply instead of battery packs for continuous operation.
- **Missing or Ill-fitting Parts:** If parts are missing or do not fit correctly, contact Rollerhouse customer service for assistance. Some users have found success with 3D printing custom adapters if needed.
- **Motor Failure:** In rare cases, a motor may fail after extended use. If within the warranty period, contact customer support for replacement or repair.

SPECIFICATIONS

Feature	Specification
Brand	Rollerhouse
Model Number	16mm_Radio_DC_12V
Voltage	12 Volts
Horsepower	7.2 Watts
Speed	0.6 A/W
Material	Metal+plastic

Feature	Specification
Item Weight	0.41 Kilograms (14.4 ounces)
UPC	612289935791
Included Components	12v motor blind, Mounting Hardware, remote
Care Instructions	Spot Clean

WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your Rollerhouse product, please visit the official Rollerhouse store or contact their customer service directly.

Official Rollerhouse Store: <https://www.amazon.com/stores/Rollerhouses/page/018EE1FB-1C43-46A7-A7C9-61E1A8AE468D>

© 2025 Rollerhouse. All rights reserved.