

RBS iOn

Motor (battery powered)



Forest Link RF
Protocol inside



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 - Technical information

- Motor including Bluetooth capabilities
- Works directly with Forest Connect app
- 16 lbs. weight load
- Battery charging motor takes 6-8 hours or until the blue light comes on
- Battery motor: 6 month battery life (1 up & 1 down)
- 5 year warranty on motor
- 2 Year warranty on the battery pack

DECLARATION OF CONFORMITY

EU Declaration of Conformity

Hereby we, the undersigned:

Manufacturer: Forest Group Nederland B.V.
 Address: city, Country: Teugeweg 42, 7418 AM Deventer, The Netherlands
 Telephone number: +31 0570 622850

Declare that this DoC is issued under our sole responsibility and that this product is:

Product description: Electronic motorized curtain track system
 Type designation(s): BS Bluetooth Motor (3636000000)
 Trademark: Forest
 Power Adapter: DZ024EHL120200V
 Battery Pack: 300556788

Object of the declaration:

The object is in conformity with the relevant Union harmonization legislation:

EN 300 220-2 V3.1.1 (2017-02)	
EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A10:2021 + A16:2023 EN IEC 60335-2-97:2023 + A1:2023 + A11:2023	EN 300 220-1 V3.1.1 (2017-02)
EN 50663:2017 EN 62323:2020	EN 300 220-2 V3.1.1 (2017-02)
EN 301 488-1 V2.2.3 (2018-11) EN 301 488-3 V2.2.3 (2023-01)	
EN IEC 55014-1:2021 EN IEC 55014-2: 2021 EN IEC 61000-3-2:2019 + A1:2021 EN 61000-3-3:2013 + A2:2021	
REPS directive - 2011/65/EU - amendment (EU) 2015/863	
Battery directive - (EU) 2021/242	

Signed for and on behalf of:

Place: Deventer Name: A.G. ten Have
 Date: 07-01-2025 Function: Head R&D
 Signature:



Forest Link RF Protocol inside

SUPPORTED PROTOCOL

This RBS® Motor is equipped with the Forest Link® protocol.

1. Your RBS® iOn Motor

INTRODUCTION

Thank you for choosing the Forest RBS® iOn motor. This guide provides essential information on how to operate, maintain, and maximize the performance of your Forest RBS® iOn motor. In this manual, you'll find step-by-step instructions for usage, charging, and troubleshooting, as well as tips to ensure safe and efficient operation.

AREAS OF USE

The RBS® iOn motor is designed for use with the Forest Roman Blind System.

IMPORTANT SAFETY AND LIABILITY INFORMATION

To ensure safe and proper operation of the RBS® iOn motor, please follow the instructions in this document as well as the complete manual.

Keep this document close to the product at all times or visit www.forestdh.com to view it online. Use the product only as intended.

This product is not suitable for use in humid spaces such as bathrooms or outdoors. In order for the RBS® iOn motor to function correctly and safely, the complete Roman Blind System must be assembled with original & undamaged parts and devices of Forest Group (Nederland) B.V.

This product is not suitable for use by children, it is not a toy. Keep (as well the remote control) out of the reach of children at all times. Frequently examine the product for imbalance and signs of wear or damage.

GENERAL

Please read this manual and the safety instructions carefully before using this Forest product.

Follow the instructions in this manual and keep it throughout the entire lifespan of the product.

This manual describes the setup and operation of the RBS® iOn motor.

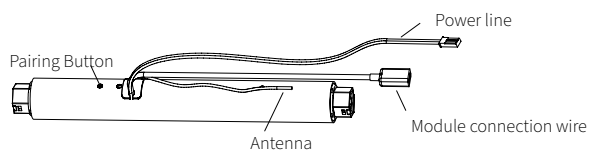
Any use beyond the application scope defined by Forest is not permitted. Ignoring the instructions in this manual voids any liability and warranty from Forest Group.

Forest Group does not assume liability for resulting damages to persons, animals and/or property, defects, labor on location, service calls, re-installation or expenses involved shipping, packing or returning goods, if the product has been abused/modified in any way or damaged by improper use or failure to observe these operating instructions. In such situation, the right to any form of warranty, service and reimbursement of expenses shall cease.

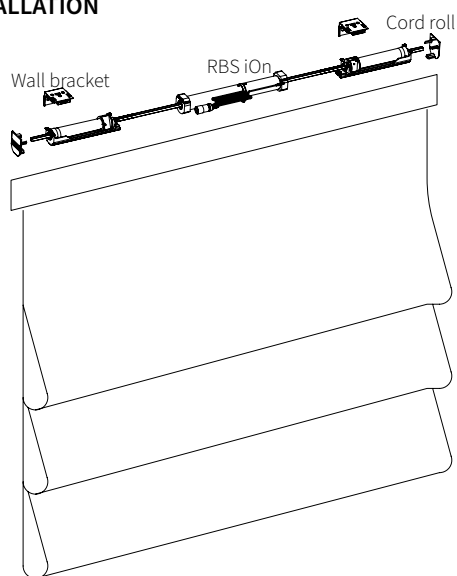
1. This product is for indoor use only, do not use outdoor or in humid environments.
2. Power supply: rechargeable lithium battery 12V
3. The motor will jog during setup, please do not proceed to the next step until jog complete.
4. During setup, if no buttons are pressed for 10 seconds, the motor will exit the setting mode.
5. The motor can be paired with max 10 controllers.
6. Upper & Lower limits cannot be set at the same position, limits saved even power off.
7. The motor runs constantly for at 6 minutes max without any other operation.

2. Product info

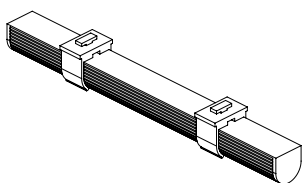
PRODUCT INFO



INSTALLATION



LITIUM ION BATTERY PACK



External battery 12V
Art.no. 68002

3. Instructions

CONTROL FUNCTIONS

To operate the tubular motor, you need a Forest remote control with the Link protocol (EasyTouch line).

Button EasyTouch	Description/ function
	Open Opens the blinds
	Close Closes the blinds
	Stop Stops the movement
	Channel + Switches to the next channel. The LED indicator moves to the right
	Channel - Switches to the previous channel. The LED indicator moves to the left
	Favourite Allows users to quickly access their preferred shade positions with a single press
	Prg The Program button, enables users to access programming functions

Note: The P button is located inside the back of the remote control. The method to open the remote may vary depending on the model. Please refer to the specific instructions for your remote type.

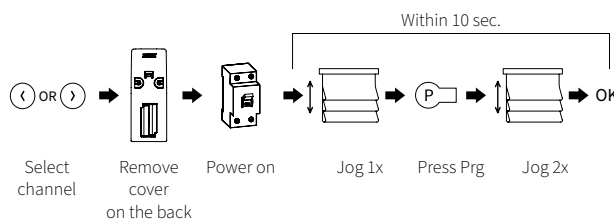
TUBULAR MOTOR PAIRING BUTTON FUNCTIONS

Functions	Paring button	Jogging time	Note
OPEN/STOP/CLOSE	Short press	/	Can only be used when limits are already set.
Adding/Removing Controller	Hold for 2s	Jog 1x	Press the P button on the remote control within 10 seconds.
Deactivate RF control	Hold for 6s	Jog 2x	Hold Pairing button for 6s, motor jogs twice to show the motor RF controle is deactivated. To activate again: hold Pairing button for 2s.
Direction Reverse	Hold for 10s	Jog 3x	All other settings remain the same
Reset*	Hold for 16s	Jog 4x	Delete all settings

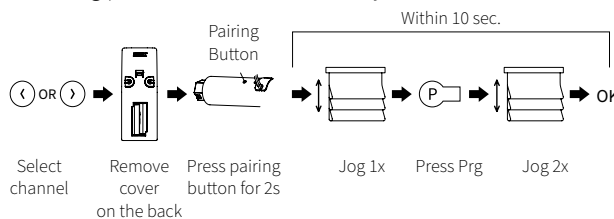
**Important: Be sure to reset the end positions before using the motor to prevent damage to both the fabric and the motor.*

PAIRING MOTOR WITH FOREST EASYTOUCH REMOTE CONTROL

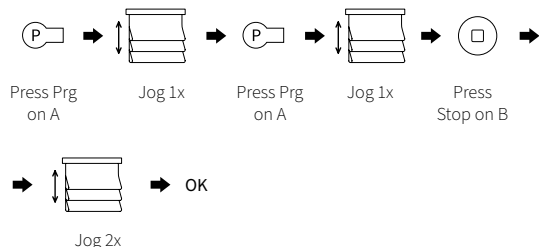
1: Pairing procedure after assembly



2: Pairing procedure before assembly



3: Add a new remote using an existing remote (unassembled systems)

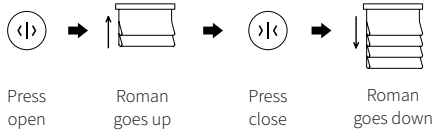


Note: Pairing can not be done under group channel or 0 channel.

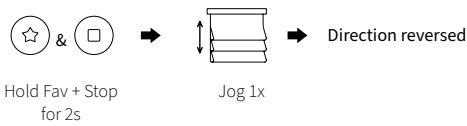
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DIRECTION REVERSE

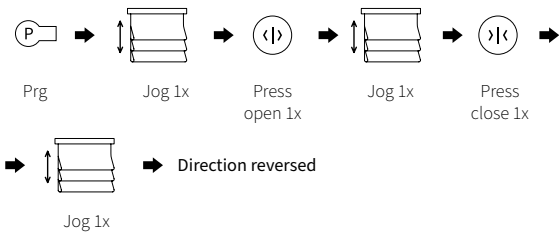
The blind moves in the right direction.



If the limits are not set, and direction goes opposite.

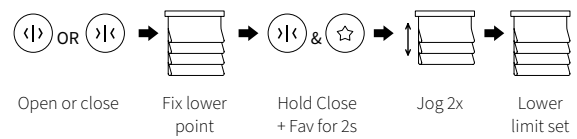


If limits are set and direction goes opposite.



Note: Do reverse the direction when it goes opposite.

UPPER & LOWER LIMITS SETTINGS



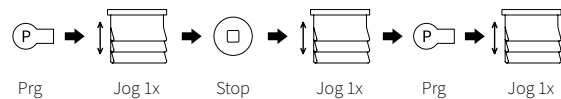
Note: Upper & Lower limits cannot be set at the same point. As long as the end positions have not yet been set, the motor operates in step-by-step mode:

The motor moves as long as you hold down the Open or Close button, and stops as soon as you release it.

Tip: If you hold the Open or Close button for 2 seconds, the curtain will continue to move in one continuous motion until you press Stop.

Once the end positions have been set, the motor will automatically operate in one-touch mode. A single press of Open or Close will activate a continuous movement.

CANCELLING LIMITS

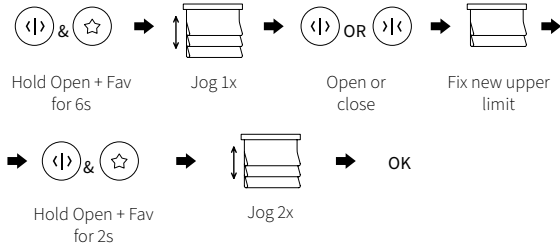


➔ Limits cancelled

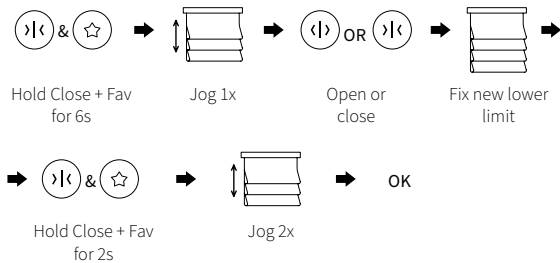
Important: Make sure to reset the end positions before using the motor to prevent damage to both the fabric and the motor.

ADJUSTING UPPER & LOWER LIMITS

Adjust Upper limit



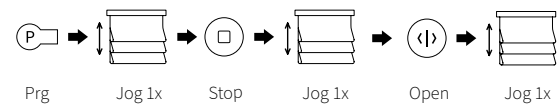
Adjust Lower limit



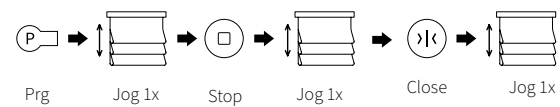
Note: The operation should be done within 4mins.

ADJUSTING MOTOR SPEED

speed increase:



speed decrease:

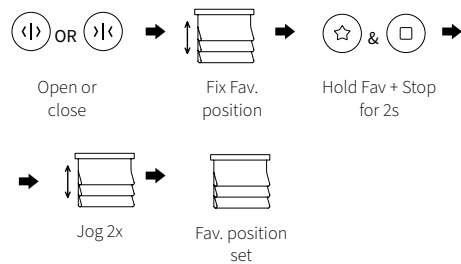


Note: If motor doesn't jog, the max/min speed has already been reached. There are 3 speeds adjustable.

SETTING UP THE FAVORITE FUNCTION

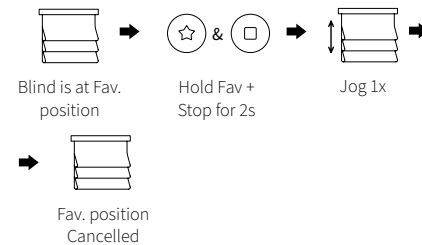
The Favorite Function allows you to set a preferred position that can be activated with a single press of a button.

Setting the Favorite Function



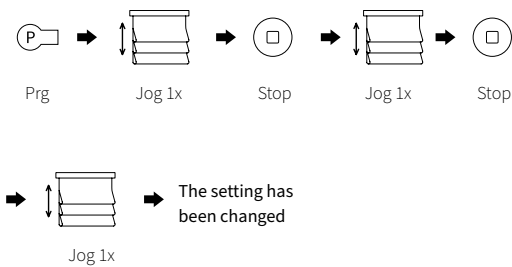
Important: The Favorites function can only be set if the end positions are configured.

Cancelling Favourite function



SWITCHING BETWEEN CONSTANT TOUCH MODE AND ONE-TOUCH MODE

Once the end positions are set, the motor operates in one-touch mode (the shade moves in a continuous motion). To switch to step-by-step mode, follow these steps:

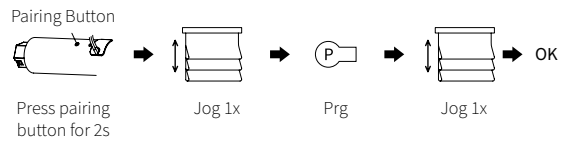


Same operation can toggle from step-by-step-mode to one-touch-mode.

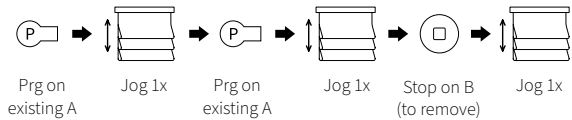
Note: When the motor is in step-by-step mode, it is also possible to fully open or close the shade in one smooth motion by holding the Open or Close button for more than 2 seconds.

UNPAIR REMOTE CONTROLS

Unpair a single remote control

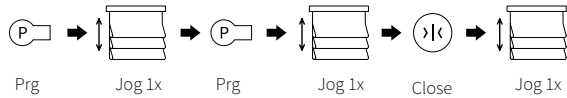


Unpair remote control B via pre-existing remote control A



Remote control B unpaired

Unpair all remote controls



All remote controls unpaired

Note: All other settings, except paired remote controls, remain the same.

6. Installation & connecting bluetooth module



- Working voltage: 3V~3.6V
- Supporting protocol: 802.11B/G/N20
- Working Temperature: 0 - 40 C
- For Indoor Use only

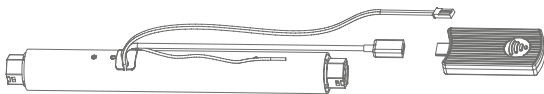
DOWNLOAD APP



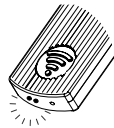
- Search "Forest Connect" in the app store or scan the QR-Code.
- Complete account registration and login to the app

INSTALL BLUETOOTH MODULE FOR APP CONTROL

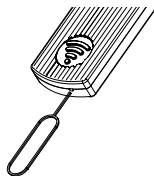
- Power on, insert Bluetooth module to motor module connection wire



- Wait for 10s to see if the indicator is blinking.



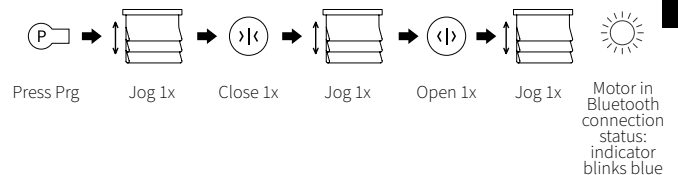
- If indicator didn't blink, please try:
Method 1: Long insert RESET button until indicator blinking, motor's ready to Bluetooth connection.



The pin is not supplied. A paperclip or similar tool may be used instead.

Note: Wait for 10s to see if the indicator is blinking.

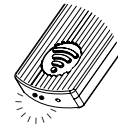
Method 2: Short Press Prg on back of controller, motor jogs once; short press Down, motor jogs once, then short press UP, motor jogs once and blue indicator blinks which means motor enters Bluetooth connection status.



- Find the added Bluetooth gateway on the "Forest Connect app" App, click "+" to add a subdevice, and then click "LED already blink", the APP will automatically search for motor device.

- After adding successfully, click to modify the device name.

- The Bluetooth module indicator is always on after successful network connection.



- Enter the main interface to control the operation of the RBS iOn tubular motor.

7. Notice



RECYCLING

Do not dispose of the product with household waste. Ensure that you return it to a collection point or depot for recycling purposes.

7. The Lithium Battery Pack

SPECIFICATIONS

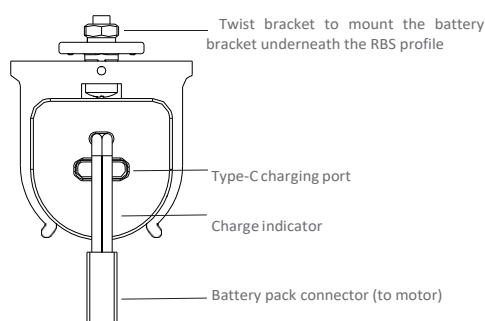
- Forest Rechargeable Lithium Battery pack
- Input voltage: 5V DC max. 2000mA
- Battery capacity: 2500mAh
- IP Rating: IP20 (indoor use only)
- Operating temperature: 0-40C° (32 – 104F°)
- Battery - Motor cable length: 20cm
- 5V/2A Type-C USB charger



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CHARGING INSTRUCTIONS

1. Connect the charger cable to the Type-C charging port of the battery pack.
2. Charge indicator status:
 Orange: Battery is charging
 Blue: Battery is fully charged



CONNECTION INSTRUCTIONS

Connect the battery pack connector of the battery pack to the RBS iOn motor.

CAUTION

1. Make sure the battery is fully charged before first use.
2. To maintain the optimal performance and longevity of your battery, please ensure that it is stored in a cool, dry place, away from direct sunlight, heat sources, and excessive moisture. Exposure to extreme temperatures or direct sunlight may damage the battery and impair its functionality.
3. For your safety and to ensure the proper functioning of the device, please be advised that the battery pack should not be disassembled, modified, or tampered with under any circumstances. Disassembling the battery pack can result in serious injury, damage to the device, and void the warranty. Additionally, improper handling of the battery may lead to fire, explosion, or electrical hazards. If you encounter any issues with the battery pack, please contact customer support for assistance.
4. Ensure that used batteries are properly disposed of in accordance with your local waste classification and recycling regulations. Following these guidelines helps protect the environment and ensures compliance with local laws. For more information on proper disposal or recycling practices, please consult your local authorities

8. Notice



RECYCLING

Do not dispose of the product with house-hold waste. Ensure that you return it to a collection point or depot for recycling purposes.

9. Support & Technical specification

FAQ

Why isn't the motor working?

- Check if you have paired a remote control. If your remote is not paired yet you need to pair the remote control with the motor by following the pairing instructions in this manual.
- Check if the motor is active. If the motor is inactive, you can reactivate it by pressing the pairing button twice (poke the button 2 times) to activate the motor.

Why does the motor stop suddenly during operation?

- Check if the upper and lower limits are set correctly. If not, re-set the upper and lower limits according to the instructions in this manual.
- Check if the tubular motor doesn't exceed the rated load. In that case, reduce the load on the motor by adjusting the fabric and checking whether it falls within the specified weight limits.

Why does the motor only move in one direction?

- Check if the motor's limits are set correctly. If they are incorrect, then cancel the original limits and set new upper and lower limits following the instructions in this manual.

TECHNICAL SPECIFICATION

- Voltage 12Vdc
- Power max. 9.6W
- Current max. 0.8A
- Torque 0.8Nm
- Speed 20/30/40
- Run time max. 6 minutes
- Length 22.75in.
- Diameter 1in.
- Frequency 433.92MHz
- RF range (max.) 98ft.
- Protection degree IP20
- Temperature 0 - 40°C
- Weight load fabric 16 lbs
- Battery charging time 6-8 hours (blue light on = fully charged)

The images in this document are not binding.

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**SCAN FOR
YOUTUBE VIDEO**



<https://www.youtube.com/user/forestdrapery>