

MOVE motor pro

MOVE - Bluetooth controlled motor for indoor blinds and shades

User manual

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Warnings and general precautions for safety

Read these warnings carefully before you continue installing, connecting and using MOVE device hereinafter called the product. It is very important that you follow the safety and warning instructions written in this manual to ensure a safe use of the product. Keep these instructions. Heed all warnings. Only use the product as described in these instructions.

WARNING: Failure to follow these safety instructions could result in fire, electric shock, or other injury or damage to the product or other property.

Installation warnings

The product installation, collection programming and maintenance operations must be carried out exclusively by a qualified adult in observance of the instructions in this manual.

Before starting installation make sure the product can be retrofitted to your type of indoor blinds and shades. If not suitable do NOT proceed with installation. Make sure the product can run without risks of entangling, also make sure that anything in the vicinity is within such risk.

The product installation and maintenance operations must be performed with all power sources disconnected from MOVE motor.

Install the product out of reach for children. The product shall not and cannot replace the purpose of a child safety product for indoor blinds and shades. The product and its accessories may contain small parts. Keep them away from small children.

It is very important NOT to use the product with battery power if it must be placed in direct sunlight or near other heat sources, in high temperatures batteries can be dangerous. In these conditions some sort of heat shield is required so the product temperature never exceeds 35°C. Read all safety instructions for any other products and/or accessories before using with this product. The manufacturer is not responsible for the operation of, or any damage caused by, third-party accessories or their compliance with safety and regulatory standards.

During installation, handle the product with care - avoid crushing, impact, dropping or contact with liquids - never place the product near sources of heat or expose to naked flames. All these actions could damage the product and cause malfunctions or dangerous situations.

Pay attention to your personal safety regarding proper use of ladders. Be careful when handling tools from an extended height, do not drop them. Do not drop the product. If dropped or damaged do not install the product. Be aware of that a dropped product may not have visibly detectable damage but be damaged inside.

Do not install the product outdoor, its only intended to be installed and used with indoor blinds and shades.

Do not dismantle the product other than described in this manual. Do not make any changes to any part of the product except those indicated in this manual. Do not insert anything in the product except what is described in this manual. The manufacturer declines all liability for damage caused by makeshift modifications to the product.

Before connecting a power adapter, batteries or blinds and shades to the product, carefully read the warnings and the product manuals of those products, and it is important to only use approved certified products with this product.

When connecting a power adapter to the product do not use a damaged power cord or plug and do not use loose or damaged power outlets. Unplug power adapter during lightning storms or when unused for long periods of time.

Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Use warnings

Do not operate the product when jobs are being performed in the vicinity i.e., window cleaning, maintenance jobs, etc. Disconnect all power supplies to the product before starting such jobs. Be aware of operating the product when your window is open. Outside circumstances may cause damage to the product and the surroundings and the manufacturer declines all liability for damage caused by these situations.

Keep the product out of reach for children. The product may attract attention of children and animals. During operation children and animals should be kept away from the device.

Do not pull the cord, cord loop or bead chain when the product is attached to and installed in active or passive mode.

Always shield the product from direct sunlight regardless of power source.

Make sure that your burglar alarm does not trigger because of movement from your blinds or shades.

If the motor does not operate due to an excessively diminished battery, the battery pack may require a full recharge before use again. If the battery no longer provides adequate power to operate the motor, a new rechargeable battery pack should be installed. Only use battery packs from the manufacturer of the product. Always read and follow the instructions in this user manual on how to install and remove battery pack on MOVE devices. Wash yourself immediately if exposed to battery acid.

Only use USB power adapters that meet the requirements in this user manual and that are certified and approved. The manufacturer declines all liability for damage caused by use of wrong or malfunction USB power adapters.

Never force a connector into a port when using connectors and ports. Check for obstructions on the port. If the connector and port do not join with reasonable ease, they probably do not match. Make sure that the connector matches the port and that you have positioned the connector correctly in relation to the port.

Refer all servicing to qualified service personnel. Service is required when the apparatus has been damaged in any way, such as when the USB cable or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, has been dropped or similar situations that are outside the normal use case.

Do not use the product in rain, or near washbasins or other wet locations and avoiding water and wet locations. Take care not to spill any food or liquid on the product. In case the product gets wet, unplug all cables and remove the battery before cleaning, and allow it to dry thoroughly before turning it on again. Do not attempt to dry the product with an external heat source, such as a microwave oven or hair dryer. Damage to the product caused by contact with liquid is not covered by the manufacturer.

Regulatory and safety notices

Model name: M2009, Product name: MOVE motor pro

FCC warnings:

FCC Statement:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and Operated with minimum distance 20cm between the radiator & your body.

ISED RSS Warning/ISED RF Exposure Statement:

ISED RSS Warning:

This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ISED RF exposure statement:

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Le rayonnement de la classe b repecte ISED fixaient un environnement non contrôlé. Installation et mise en œuvre de ce matériel devrait avec échangeur distance minimale entre 20 cm ton corps. Lanceurs ou ne peuvent pas coexister cette antenne ou capteurs avec d'autres.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC

Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Product description and intended use

Functional characteristics of the product:

-MOVE motor pro is a motor for existing indoor blinds and shades.

-MOVE motor pro is built to fit as many different manually controlled indoor blinds and shades as possible.

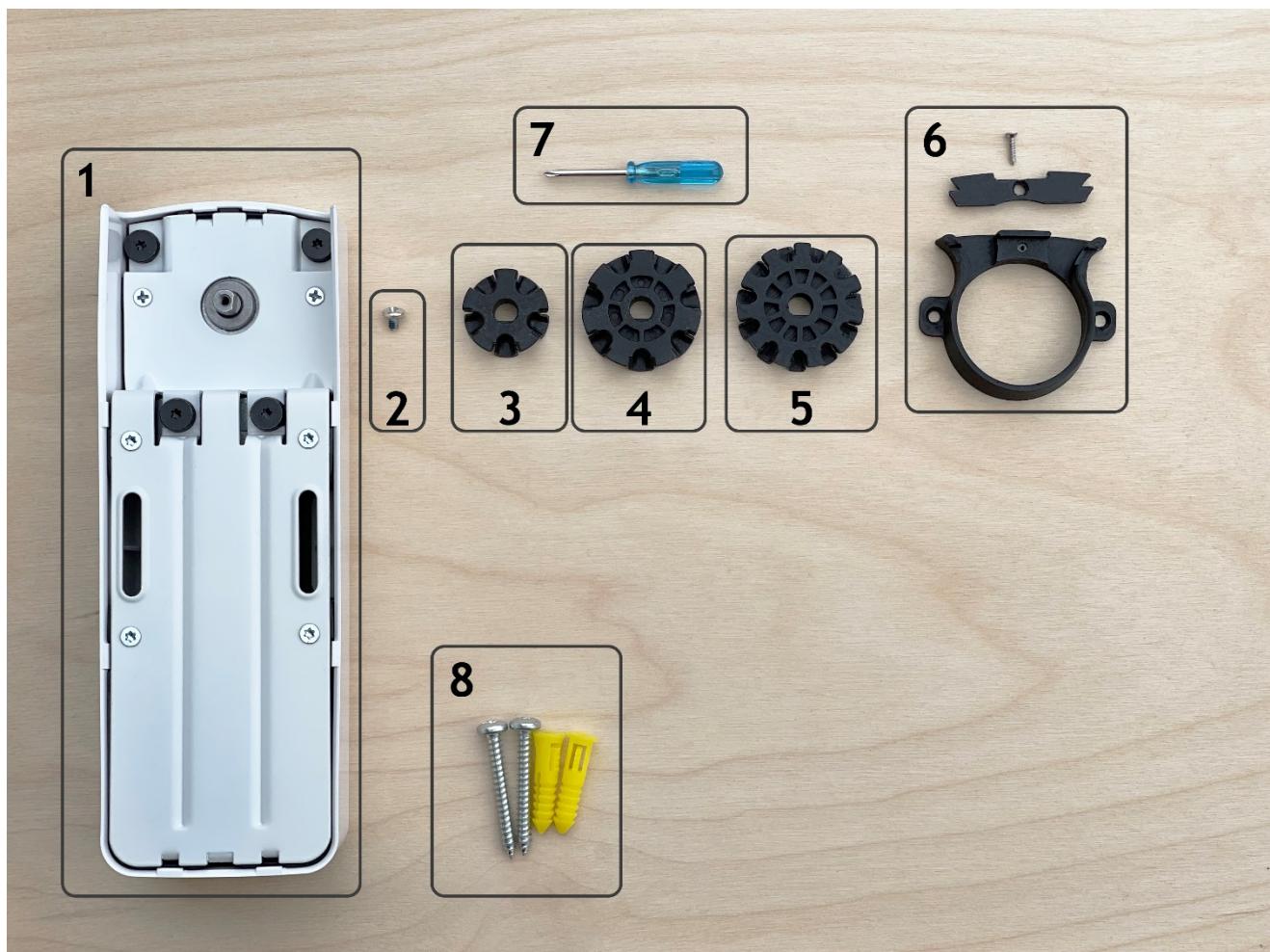
The MOVE motor pro can be retrofitted to nearly all different manually controlled indoor blinds and shades. No matter if its continuous cord loops or bead chain.

MOVE devices are installed with screws that are hidden behind the front cover.

MOVE devices uses a mesh protocol running over Bluetooth. This means multiple MOVE devices can communicate with each other and forwarding radio transmissions making the radio coverage bigger and more stable. This also makes it possible to link devices together making them act as one or have one device command other devices.

MOVE devices has a custom metal gearbox with a super silent brushless motor. To ensure its function even under heavy load the gears are made of metal and the output axel has dual bearings. The electronics controlling the motor has force limiting safety feature, stall protection and overheating protection making it safe to use.

All included parts



1. MOVE device
2. Pulley screw
3. Small pulley for bead chain #10
4. Standard pulley for bead chain #10, cord loop D30, K35, C30
5. Small pocket pulley for bead chain #6, #8, vertical blind track cord
6. Support wall
7. Small Phillips screwdriver
8. Screw and anchor

Outside device overview



1. 2.4" display with touch

2. Micro USB type B charge port

The touch display is used to access the different settings and adjust the position of the window cover where the MOVE device is installed.

The MOVE devices can either be controlled directly at the device through the touch display, through a remote control or through an app running on a smartphone or tablet. The remote control can be used with or without the app to control MOVE devices.

MOVE devices count the number of rotations the motor makes to know where open and closed limits for the window covers are set and where the window cover are in between the open and closed limit. The limits need to be manually set at first use of MOVE device. It is described in this user manual how to set limits.

Slippage or skipping by cord loop or bead chain can make the limits drift or get wrong. If these happens the limits need to be adjusted for MOVE devices to know where the correct open and closed position are. Adjusting the limits are done the same way as setting them the first time.

The open and closed limit are stored in the MOVE device. No matter what interface that is used to control the MOVE device it will always just run in between the open and closed position, never outside of this range. But limits can for different reasons become wrong and if that happens the motor will go pass the position it was set to stop at. This can be caused by many different external factors. When the motor go pass a position it was supposed to stop at the root case should be determined and fixed, then both open and closed limits should be set again.

Each MOVE device can have a favorite position that can be anywhere in between fully open and fully closed. It is described in this user manual how to set a favorite position.

It is possible to set automations to trigger a MOVE device to go to any position in between fully open and fully closed. Automations are stored and handled in each device separately.

It is possible to group MOVE devices and send commands that should be performed by all devices in a group. A single MOVE device can belong to 8 different groups.

Remove the front cover

To remove the front cover when the MOVE device is new use the red stickers attached to the device. Use both hands. One hand should hold the sticker that is marked “hold”. The other hand should pull the sticker that is marked “pull”. These stickers should be removed after installation.

If the red stickers are not present and the front cover should be removed a pulley need to be attached. One hand should hold the pulley and the other should pull the front cover for it to pop off. Follow the steps bellow.

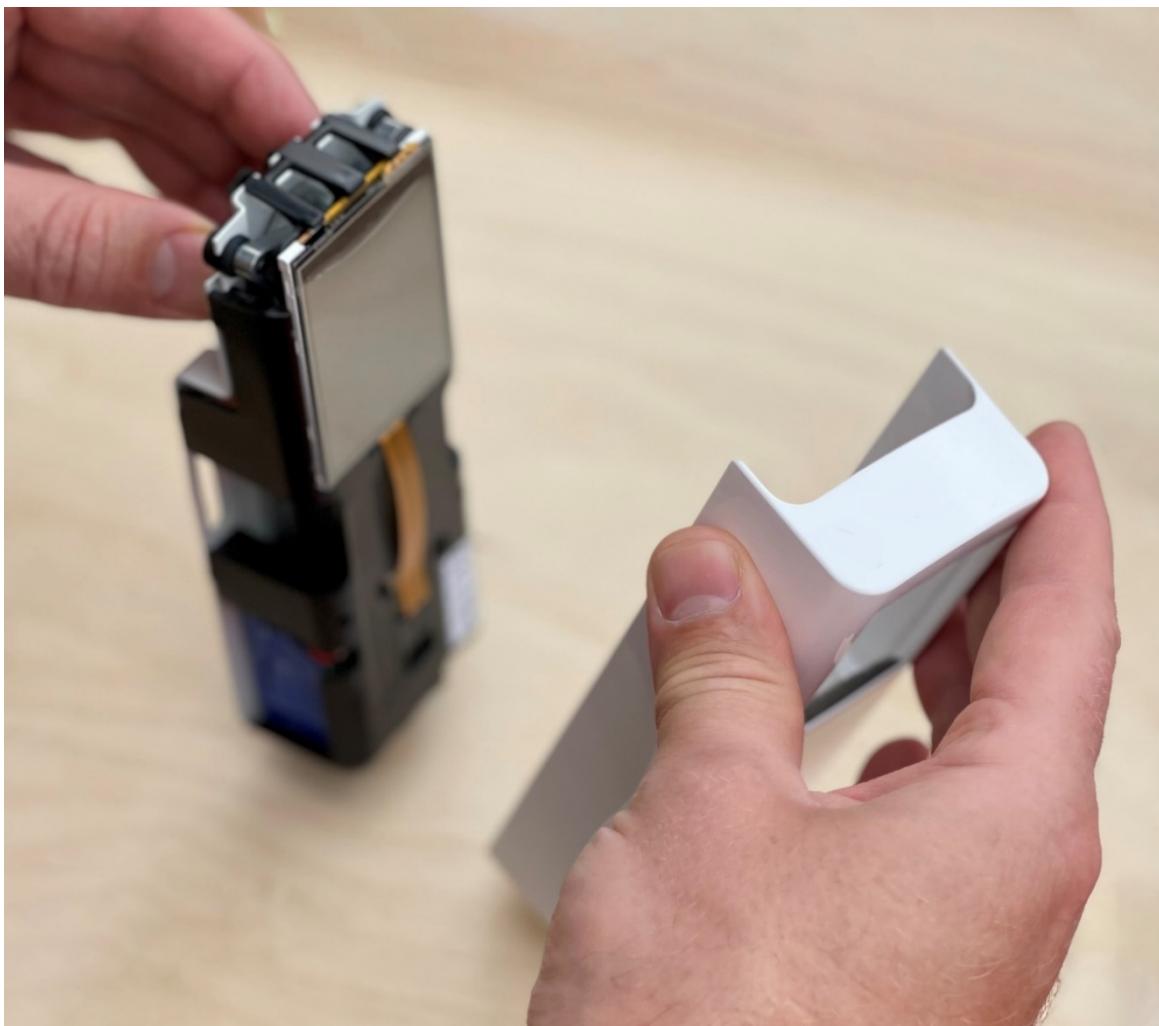
Step 1



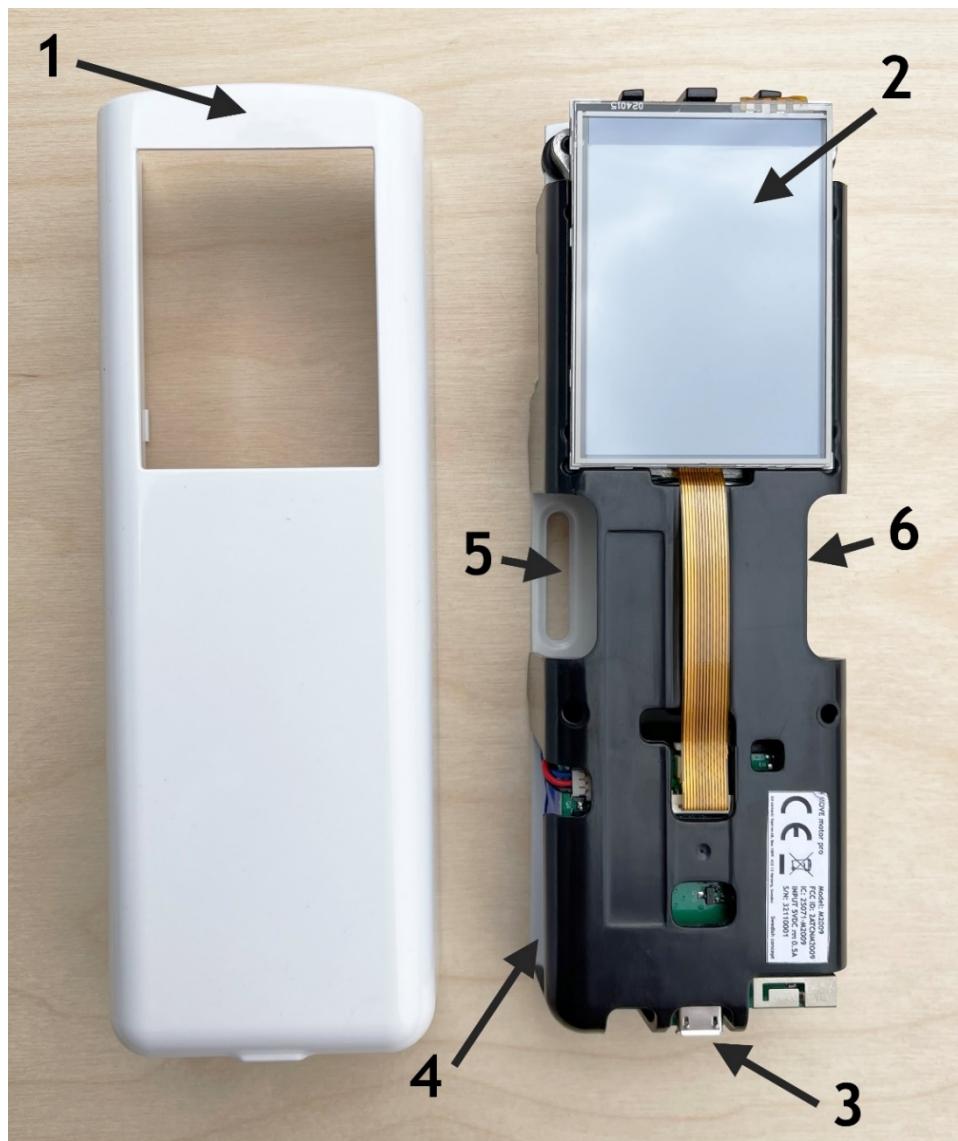
Step 2



Step 3



Inside device overview



- 1. Front cover
- 2. 2.4" display with touch
- 3. Micro USB type B charge port
- 4. LiPo battery 7.4V 2600mAh
- 5. Wall screw slot
- 6. Wall screw slot

The front cover needs to be removed when installing the MOVE device.

The slot screw holes (5 and 6) are supposed to be used when installing the MOVE device. Screws and anchors are included in the package but depending upon the wall where the device is intended to be installed, different type of screws and anchors may need to be used.

The reason for the slot holes is that it is important that the MOVE device is installed with correct tension of the cord or bead chain. It should not be too much nor too little tension. The slot holes make it possible to adjust the tension level even after the screws are attached to the wall.

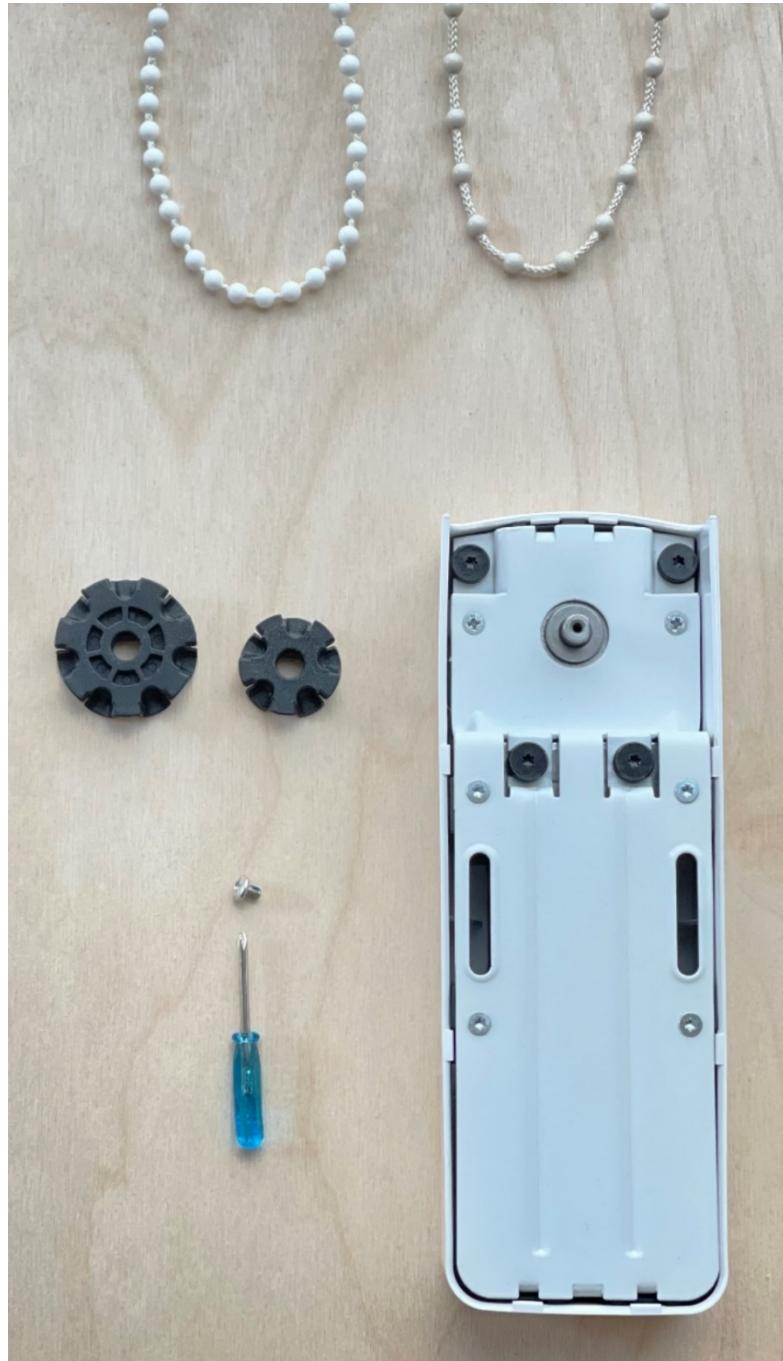
When the mounting to the wall is complete the front cover only needs to be snapped back on.

It is much easier to snap off the front cover when a MOVE device is mounted to the wall than it is to snap off a cover from a MOVE device that is not attached to a wall.

Prepare for bead chain size #10, 4.5mm

There are two types of pulleys for size #10 bead chain. The small pulley (part 3 in the picture "All included parts" at page 5) is intended for big and heavy window covers and the standard pulley (part 4 in the picture "All included parts" at page 5) is intended for regular size window covers.

The size of the pulley will affect the speed of the open and closing of the window cover. There is a speed setting in the MOVE device that can be used to slow down devices that have the pulley with bigger diameter if it is desired to have multiple devices run at the same speed even though different size pulleys are used.



Install the standard pulley for size #10, 4.5mm bead chain

Attach the standard pulley (part 4 in the picture “All included parts” at page 5).



Install the small pulley for size #10, 4.5mm bead chain

Attach the small pulley (part 3 in the picture “All included parts” at page 5).



Prepare support wall for cord loop and small size bead chains

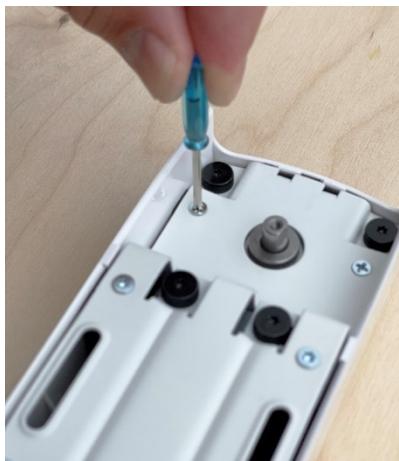
When installing a MOVE device to a window cover with cord loop it is important to first install the support wall to the MOVE device.

The support wall will make sure the pulley grips the cord and smaller bead chains do not fall out of the pockets of the pulley.

The main purpose of the support wall is to prevent slippage of the cord loops or skipping of beads for the smaller types of bead chain.



Remove the Philips screws at each side of the motor axel.



Place the support wall so the holes line up.



Reattach the Philips screws to fasten the support wall.



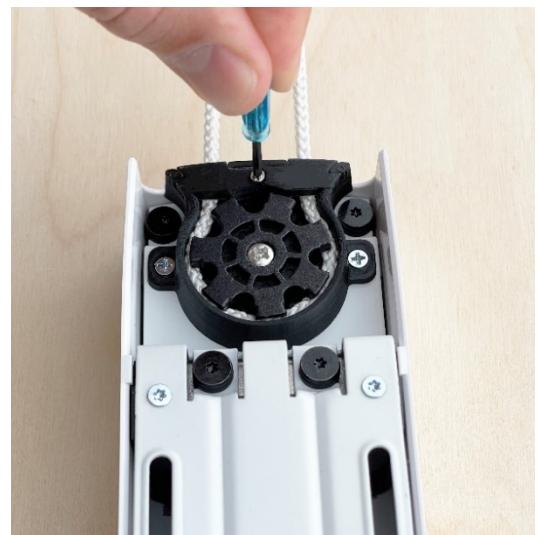
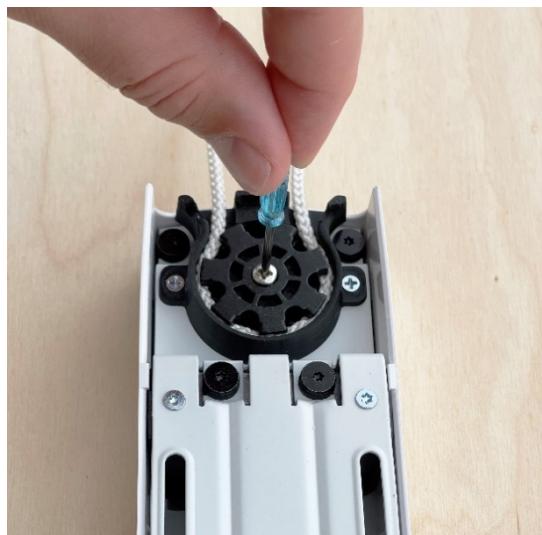
Prepare for cord loop D30, K35, C30, 2.7-3.5mm

Use the support wall and the standard size pulley (marked 4 in the “All parts included” picture at page 5).



Install at cord loop D30, K35, C30, 2.7-3.5mm

After the support wall is installed the cord loop should be placed in the standard pulley. The standard pulley is then pressed onto the motor axel and the supplied screw is used to secure the pulley. Then attach the small top part to make sure the cord is always centered and aligned towards the pulley. Use the supplied screw to secure the small top part.



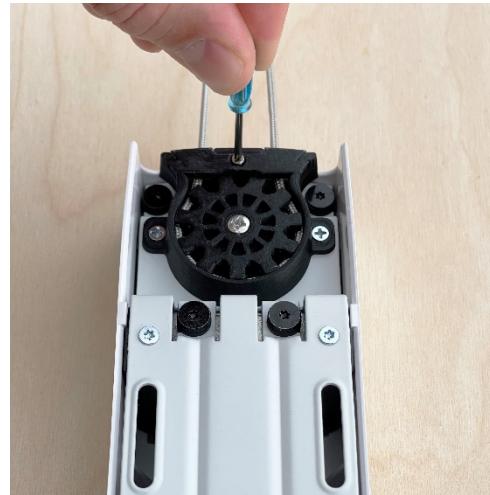
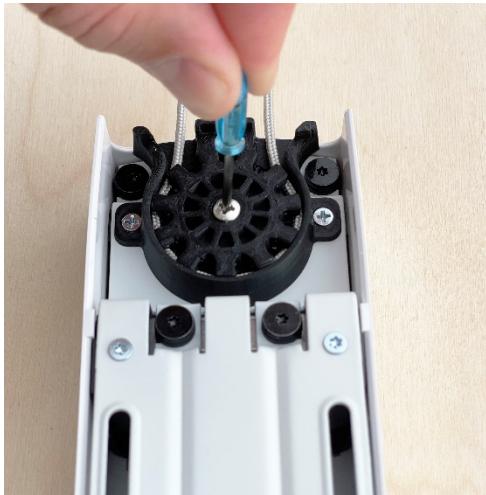
Prepare for vertical blinds track cord, bead chain size #6 and size #8

Use the support wall and the pulley that have small pockets (marked 5 in the “All parts included” picture at page 5).

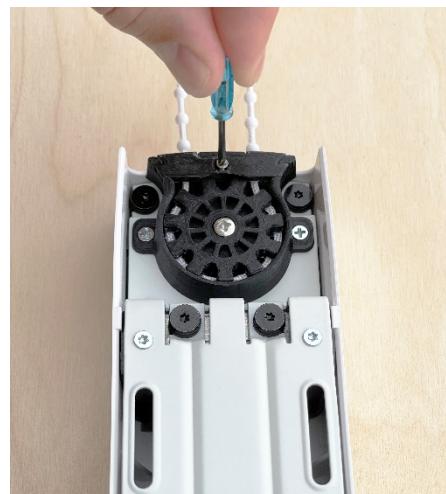
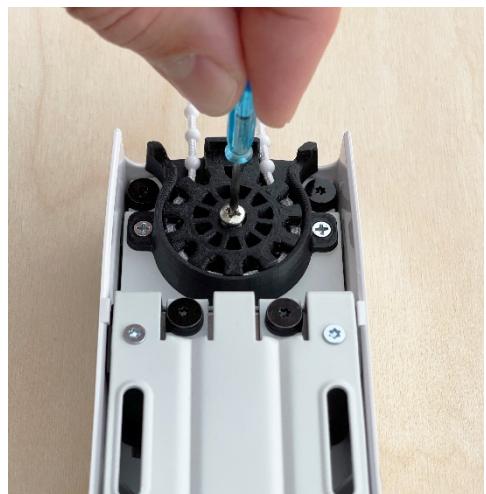


All installations options below require the support wall. After the support wall is installed the cord loop or bead chain should be placed in the small pocket pulley. The small pocket pulley is then pressed onto the motor axel and the supplied screw is used to secure the pulley. Then the small top part is installed to make sure the cord is always centered and aligned towards the pulley. Use the supplied screw to secure the small top part.

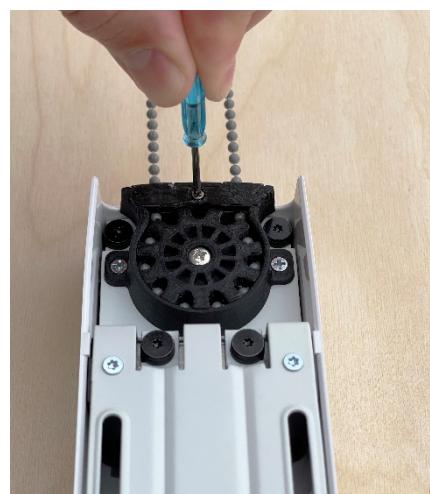
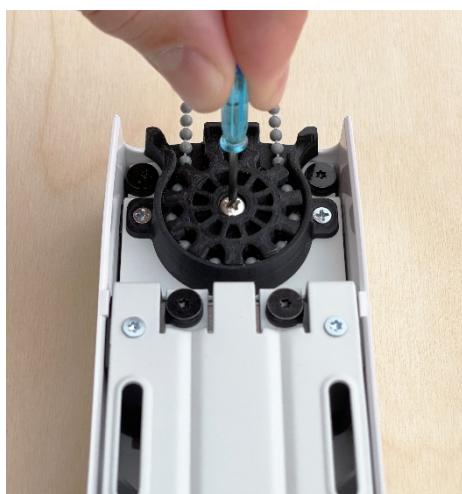
Install at vertical blinds track cord



Install at bead chain size #8



Install at bead chain size #6



Mount device to wall

Warning! - Before starting, carefully read the warnings in the first part of this user manual. It is important that you install MOVE device as described in this manual to ensure safe use of the motor.

Note! The motor inside a MOVE device has a torque of about 1Nm and incorrect installation and/or usage can be dangerous.

Check the condition of the MOVE device upon unboxing it, do not install if damaged. Check if the MOVE device is compatible with the product you intend to install it on before installing, do not install if it is not compatible.

Make sure the product you intend to install the MOVE device on is working correct and do not have any defects, do not install if it is not working correct or if it has any defects.

Make sure that the cord or bead chain of the product you intend to install the MOVE device on is compatible with any of the pulleys included in the package, do not install if it is not compatible.

Before installing a MOVE device make sure that there is enough free space in the window for the MOVE device to operate freely, do not install if there is a possibility that things can get caught and tangled in by the motor motion or the window cover movement.

Prepare the MOVE device depending upon what window cover it should be installed at. Follow the guides in this user manual for selecting the correct pulley and if needed support wall.

Remove the front cover of the device in the way described in page 7 (Remove the front cover) in this user manual.

Use screws and anchors that are appropriate to the type of wall where MOVE is installed at. The supplied screw and anchor do not work at all types of walls and need to be replaced at some types of walls. Consult a professional for what type of screws and anchors to use if uncertain.

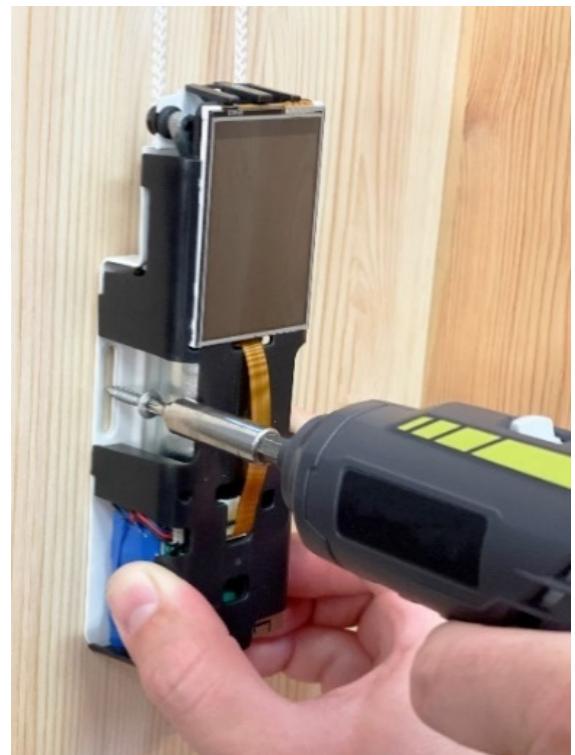
Important! Make sure the cord or bead chain is sufficiently stretched when doing the installation. It should not be too stretched and not too little stretched, the amount of stretch needed is different between different type of window covers and the slot holes at the MOVE device are intended to enable fine tuning of the stretch. If the stretch is wrong the MOVE device may not keep the open and closed limits due to slippage of cords or skipping of beads at bead chains.



At each side on the of MOVE device there are slot holes (marked 5 and 6 in the "Inside device overview" picture at page 8) that should be used when installing MOVE devices.

The slot holes are behind the front cover.

Use either the included screw and anchor (marked 8 in the "All included parts" picture at page 5) or replace them with screws and anchors that are appropriate for the wall where installation should be made.





When the MOVE device is fastened to the wall, just snap on the front cover and mounting is complete.



The front cover is available in a transparent version that can be painted or left as is to give the MOVE device a different look, contact your seller for more details.



Charing the battery

MOVE devices charge the battery installed in them through a USB type B connector. The USB charger adaptor used must be rated for at least 0.5A and 5V.



Set limits

Limits in MOVE device can either be set through the app or at the device through the display. Because MOVE device can be installed in many ways there are an option to change direction in the set limit's view.

Set open limit (position 0). This is the maximum open position.

Do this to set open limit:

1. Wake the device by clicking anywhere in the display
2. Click the settings icon in the top right corner of the display
3. Click the “Set open limit” option
4. Use the up and down arrow to set the desired open position. Use “switch direction” to invert the up and down button in the display if needed
5. The position is automatically stored when the back arrow in the top left corner is clicked

Set closed limit (position 100). This is the maximum closed position.

Do this to set closed limit:

1. Wake the device by clicking anywhere in the display
2. Click the settings icon in the top right corner of the display
3. Click the “Set closed limit” option
4. Use the up and down arrow to set the desired open position. Use “switch direction” to invert the up and down button in the display if needed
5. The position is automatically stored when the back arrow in the top left corner is clicked

Set favorite position

MOVE devices let the users set a favorite position. From the main view in the MOVE device display the favorite position have a button with a heart icon. When this button is clicked the MOVE device will go to the favorite position. The favorite position can easily be set in the settings menu.

To set the favorite position do this:

1. Wake the device by clicking anywhere in the display
2. Click the settings icon in the top right corner of the display
3. Click the “Set fav position” option
4. Use the drawbar to set the desired favorite position
5. The position is automatically stored when the back arrow in the top left corner is clicked

Set speed

MOVE devices let the users set different speed for opening and closing direction. The speed that is set will be used both when manually adjusting position but also when automations change the position. The speed can easily be set in the settings menu.

To set the speed do this:

1. Wake the device by clicking anywhere in the display
2. Click the settings icon in the top right corner of the display
3. Click the “Set speed” option
4. Use the drawbar to set the opening speed
5. Use the drawbar to set the closing speed
6. Use the drawbar to test the speed. When testing speed, the user interface will be locked until the motor comes to a complete stop
7. The speed is automatically stored when the back arrow in the top left corner is clicked

Set energy mode

MOVE devices let the users set different energy modes. The “Battery” mode is default and will make the device last for a long time when powered by battery. The “Mains” option is intended to be used if a USB charger is plugged into the device permanently. The “Main” option will keep the device active and quicker to respond to radio activities. App will connect faster if at least one MOVE device in a mesh network is set to use the “Mains” energy mode. The energy mode can easily be set in the settings menu.

To set the energy mode do this:

1. Wake the device by clicking anywhere in the display
2. Click the settings icon in the top right corner of the display
3. Click the “More settings” option
4. Click the “Set energy mode” option
5. Click on either “Battery” or “Mains”
6. The energy mode is automatically stored when the back arrow in the top left corner is clicked

Pair with Android or iOS app

MOVE devices can be controlled through a smartphone or tablet with an app. To be able to use an app the MOVE device must be paired with that app.

Do this to pair:

1. Download and install the app from Google Play or Apple AppStore. QR code is in the product box lid.
2. Open the app
3. Click “Device” tab in the bottom tab bar of the app
4. Click the “+” icon in the top right corner of the app
5. Wake the MOVE device by clicking anywhere in the MOVE device display
6. Click the settings icon in the top right corner of the MOVE display
7. Click the “More settings” option in the MOVE display
8. Click the “Set pairing mode” option in the MOVE display
9. Click the “Search for mesh” option in the MOVE display
10. The app should now find and pair with the MOVE device. The steps that follow will be described in the app

Remove pairing

To remove pairing do this:

1. Wake the MOVE device by clicking anywhere in the MOVE device display
2. Click the settings icon in the top right corner of the MOVE display
3. Click the “More settings” option in the MOVE display
4. Click the “Set pairing mode” option in the MOVE display
5. Click the “Remove from mesh” option in the MOVE display. The device will remove itself from the pairing and then load the main view

Reboot the device

MOVE devices can be rebooted by selecting this option the settings menu.

Do this to reboot:

1. Wake the device by clicking anywhere in the display
2. Click the settings icon in the top right corner of the display
3. Click the “More settings” option
4. Click the “Reboot” option. The device will do the reboot and then load the main view

Factory reset

To clear all settings and go back to the default state of a MOVE device, a factory reset can be performed.

To perform a factory reset do this:

1. Wake the device by clicking anywhere in the display
2. Click the settings icon in the top right corner of the display
3. Click the “More settings” option
4. Click the “Factory reset” option
5. Confirm by clicking “Yes” option. The device will do the factory reset and then load the main view

Technical specifications

Power source: Battery LiPo pack 7.4V 2600mAh

Radio protocol: Bluetooth 5.0

Motor torque: $\approx 1\text{Nm}$ (lift/pull capacity: 10kg/22lb)

Reel mechanism: Different types of pulleys

Device dimensions: Length 162mm, width 55mm, height 35mm

Weight: 425g

Battery details

Important! Only use the supplied battery or a battery supplied by the MOVE device manufacturer. Other batteries are not allowed to be used with the MOVE device.

Important! Incorrect installed battery is dangerous.

The battery is behind the front cover under the device circuit board. The battery connector is snapped in place by pressing down on top of it and snapped off by gently pulling the battery cable straight up/away from the MOVE device.

