

User manual

MOVE- Bluetooth controlled motor for indoor blinds and shades

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1 Warnings and general precautions for safety

Read these warnings carefully before you continue installing, connecting and using MOVE 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.

1.1 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 is able to 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.

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 always remove the batteries and use a suitable USB power adapter to power the product. Exact specification for the USB power adapter can be found in this manual. Read all safety instructions for any other products and/or accessories before using with the product. Teptron AB 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 in regards to 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 it. Be aware of that a dropped product may not have visibly detectable damage.

Be very careful when handling knives, scissors or similar sharp cutting tools.

Do not install the product to outdoor shading products, its only intended to be applied to 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's 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's important to only use approved certified products. Only use accessories specified by Teptron AB.

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.

1.2 Use warnings

Do not operate the product when jobs are being performed in the vicinity i.e. window cleaning, maintenance jobs, etc. Disconnect the 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.

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.

Different types of batteries or new and old batteries should not be mixed. Always change all batteries when they no longer works, replace them with new ones. Batteries must always be attached with the correct polarity. It's very important that only rechargeable batteries are used. Non-rechargeable batteries are not allowed to be recharged and should not be used. Only use AAA NiMH batteries.

Wash yourself immediately if exposed to battery acid.

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

After commissioning, the batteries are trickle-charged by electrical energy generated by the solar panel. The energy produced by the solar panel is stored in NiMH batteries. It is normal for the battery to gain more energy in summer as compared to winter. The solar panel converts the intensity of light to energy when available.

If the motor does not operate due to an excessively diminished battery, the battery may require a full recharge by a regular battery charger that is approved by the battery manufacture. If the battery no longer provides adequate power to operate the motor, new rechargeable NiMH batteries should be installed in the battery holder. Always use certified batteries and read instructions on how to install them on MOVE.

Never force a connector into a port when using connectors and ports. Check for obstructions on the port. If the connector and port don't join with reasonable ease, they probably don't 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 solar panel cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, dose not operate normally, or has been dropped. Always contact Teptron AB or an approved retailer for repair or replacement.

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 producer.

2 Regulatory and safety notices

Model name: MOVE M1508

FCC compliance statement

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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. If not installed and used in accordance with the instructions, it 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 tuning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

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

FCC Warning

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

This appliance and its antenna must not be collocated or operation in conjunction with any other antenna or transmitter. A minimum separation distance of 20 cm must be maintained between the antenna and the person for this appliance to satisfy the RF exposure requirements.

Canadian regulatory statement

This device complies with Industry 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.

This appliance and its antenna must not be collocated or operation in conjunction with any other antenna or transmitter. A minimum separation distance of 20 cm must be maintained between the antenna and the person for this appliance to satisfy the RF exposure requirements.

Le présent appareil est conforme aux CNR d'Industrie Canada 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.

Cet appareil et son antenne ne doivent pas être situés à proximité de, ou fonctionner conjointement à, tout autre antenne ou transmetteur. Une distance de séparation minimale de 20 cm doit être maintenue entre l'antenne et la personne pour cet appareil afin de satisfaire les exigences d'exposition aux radiofréquences.

European Union (EU)

Declaration of Conformity with Regard to the EU Directive 1999/5/EC

Teptron AB is authorized to apply the CE Mark on MOVE, model name: MOVE M1508, thereby declaring conformity to the essential requirements and other relevant provisions of Directive 1999/5/EC.

Compliant with the standard R&TTE 99/CE/05

Conforme à la norme R&TTE 99/CE/05

Konform mit dem Standard R&TTE 99/CE/05

3 Product description and intended use

Note: MOVE is intended exclusively for the automation of various types of indoor blinds and shades. Any other use is absolutely prohibited! The manufacturer is not liable for damage resulting from any use of the product other than the intended use specified in this manual.

Functional characteristics of the product:

- MOVE is a motor for existing indoor blinds and shades.
- It is built to fit as many different manually controlled indoor blinds and shades as possible.

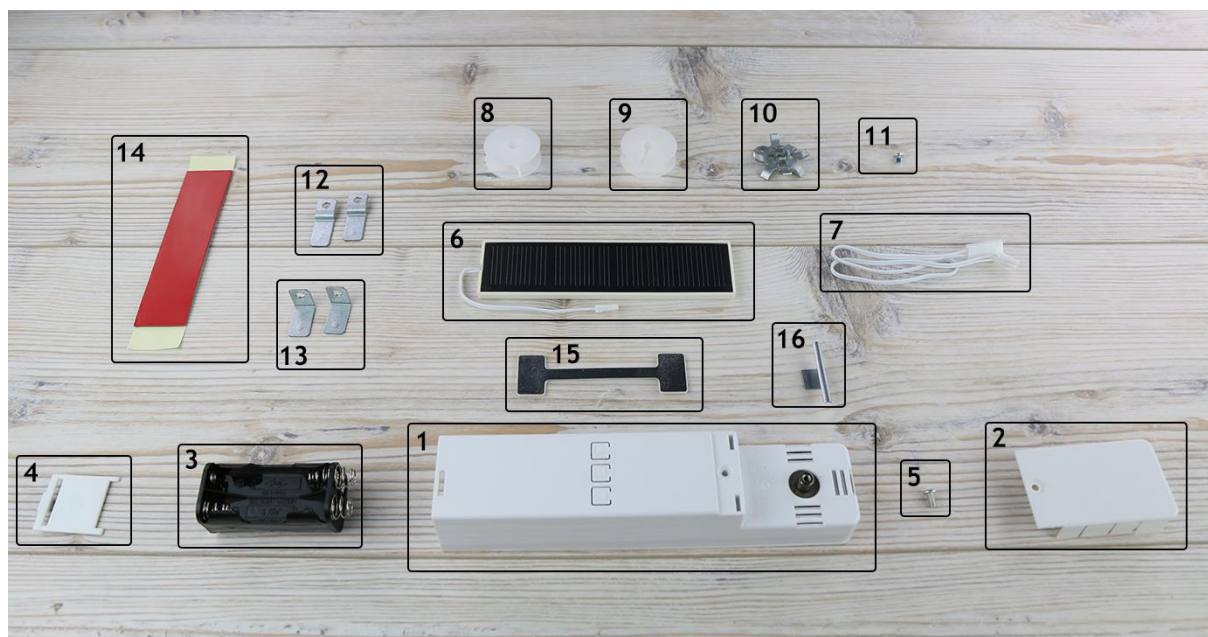
This is why the motor can be retrofitted to nearly all different manually controlled indoor blinds and shades. No matter if its continuous cord loops, bead chain loop, bead chain with connectors or just reeling in a cord MOVE will be able to operate it.

MOVE is installed either by using wall brackets or double coated foam tape.

MOVE uses a CSR1010 chip with the radio protocol Bluetooth Smart 4.0, the chip have CSRmesh radio which is a mesh protocol running over Bluetooth Smart. This means multiple units can communicate with each other forwarding transmissions making the radio coverage better. This also makes it possible to link units together making them act as one.

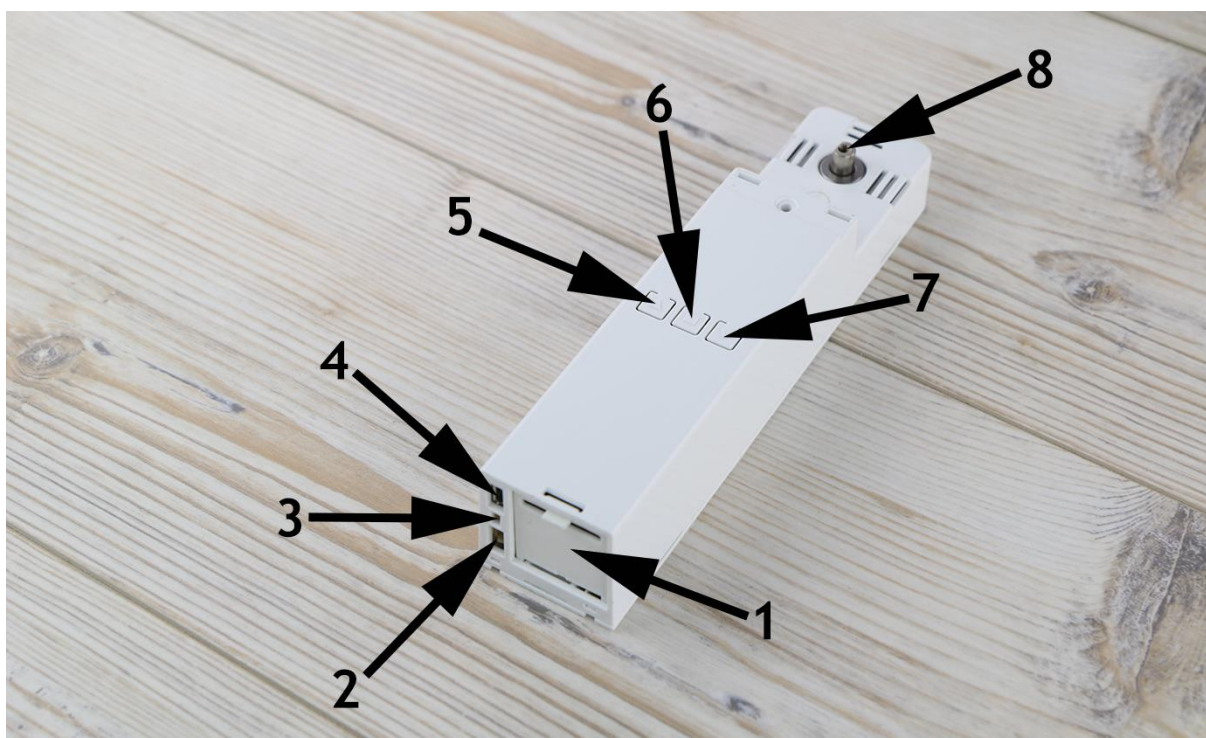
MOVE has a custom metal gearbox. In order to ensure its function even under heavy load the gears are made of metal and the output axel has dual bearings. The electronics controlling the motor has a force limiting safety feature making it safe to use.

Pic 1, all included parts



- | | |
|--------------------------------|--------------------------------------|
| 1. MOVE unit | 9. Cord spool |
| 2. Spool cover | 10. Cord loop spool |
| 3. Battery holder | 11. Axel output screw |
| 4. Battery lid | 12. Straight brackets |
| 5. Spool cover screw | 13. Angled brackets |
| 6. Solar panel | 14. Double coated foam tape |
| 7. Extension cable solar panel | 15. Solar panel installation bracket |
| 8. Cogwheel | 16. Cord guide |

Pic 2, unit overview



- | | |
|-------------------------------|---------------------------------|
| 1. Battery lid | 5. Run clockwise button |
| 2. Solar panel connector | 6. Stop button |
| 3. LED indicator | 7. Run counter clockwise button |
| 4. Micro USB type B connector | 8. Motor output axel |

The LED indicator can have the following states:

One quick green blink when batteries are installed: Unit booted up

Green blink: Pairing mode

Rapidly blink 6 times with green light: Factory reset performed

Before calibration MOVE will only run for as long as any one of the two buttons “run clockwise” or “run counter clockwise” is pushed down. After calibration it will be possible to click on either the “run clockwise” or the “run counter clockwise” button to make MOVE go to the respective end positions.

MOVE can always be stopped by clicking the “stop” button on the unit. This is true no matter if the initial run command originates from the push/click of buttons “run clockwise” or “run counter clockwise” or from the app.

The output axel can run with different speeds, the speed is adjusted in the app.

4 Bead chain

4.1 Mount the cogwheel for bead chain

Attach the cogwheel (section 3, pic 1, part 8) to the motor output axel (section 3, pic 2, position 8).

Pic 4.1.1



Mount and tighten the screw (section 3, pic 1, part 11) in the center of the cogwheel.

Pic 4.1.2



The bead chain needs to be taut enough so the bead chain doesn't skip cogs.

Pic 4.1.3



4.2 Bead chain with a connector

Important! If the bead chain has a connector make sure that the bead chain connector is running in the slot in-between the cogs.

Many different sizes of bead chain and connectors exist and MOVE is designed to fit as many as possible, but compatibility to make sure MOVE fits the product it's about to be installed on need to be established before installation.

The bead chain connector must run in the space in-between the cogs and the bead chain need to be taut enough so the bead chain doesn't skip cogs.

Pic 4.2.1



There is a slot in-between the cogs on the supplied cogwheel where the bead chain connector is supposed to run.

Pic 4.2.2



5 Cord loop

When installing the cord loop it's important to make sure the center hole in the spool lines up correctly with the hole on the motor output axel. The metal pieces that are bent around the cord loop center hole should grip the motor output axel.

Attach the cord loop spool (section 3, pic 1, part 10) to the motor output axel (section 3, pic 2, position 8).
Pic 5.1



Mount and tighten the screw (section 3, pic 1, part 11) in the center of the cord loop spool.
Pic 5.2



The cord need to be taut enough so the cord doesn't slip in the cord loop spool.
Pic 5.3



6 Cords

6.1 Prepare the cord

Products that are operated by just pulling a cord need some preparation in order for MOVE to operate them.

1. Remove all plastic parts from the cord
2. After removing the plastic parts make a knot on the end of the cord

Pic 6.1



6.2 Mount the spool for cords

Attach the cord spool (section 3, pic 1, part 9) to the motor output axel (section 3, pic 2, position 8).

Pic 6.2.1



Mount and tighten the screw (section 3, pic 1, part 11) in the center of the spool.

Pic 6.2.2



6.3 Mount the cord guide

The cord guide can be placed in the front or any of the sides. When using MOVE to pull cords it is very important that cord guide is installed correctly. Make sure to install MOVE in such way that the cord always will run with tension over the cord guide. The goal is to guide the cord to the center of the spool in order to pull the product it's attached to straight.

Option 1

Cord guide (section 3, pic 1, part 16) attached to the front.

Pic 6.3.1



Pic 6.3.2



Option 2

Cord guide attached to the side.

Pic 6.3.3



Pic 6.3.4



7 Ways to install

7.1 Double coated foam tape

Important! Before you proceed, do not use double coated foam tape on wallpaper.

The double coated foam tape should never be touched directly with fingers (or other sources of contaminants) prior to adhesion. The double coated foam tape is precut for your convenience. The double coated foam tape and all surfaces it will be attached to need to have room tempered before installation. All surfaces need to be cleaned thoroughly before installation. The bonding between the double coated foam tape and surface will take about 24 hours to reach full strength, do not use MOVE or stress the double coated foam tape in any way during that period.

The included double coated foam tape (section 3, pic 1, part 14).
Pic 7.1.1



Remove the back cover in order to attach the first side to the MOVE unit.
Pic 7.1.2



The double coated foam tape can be attached to either the back or any of the sides of MOVE.

Option 1

The double coated foam tape attached to the back.

Pic 7.1.3



Option 2

The double coated foam tape attached to the side.

Pic 7.1.4



7.2 Wall brackets

We recommend that you always use wall brackets to mount MOVE. Make sure you use the right type of screws for the specific wall/surface it's going to be installed on, if uncertain consult an expert.

Makes sure to have at least 5mm/0,2in of space between the wall/surface and the motor when attached with brackets, this in order to reduce vibration noise.

7.2.1 Angled brackets

Two angled brackets (section 3, pic 1, part 13) are included.

Pic 7.2.1



The angled brackets can be attached to either sides of the unit by firmly pressing them into position.

Pic 7.2.2



7.2.3 Straight brackets

Two straight brackets (section 3, pic 1, part 12) are included.
Pic 7.2.3



The straight brackets should be attached to the top and bottom of the unit by firmly pressing them into position.
Pic 7.2.4



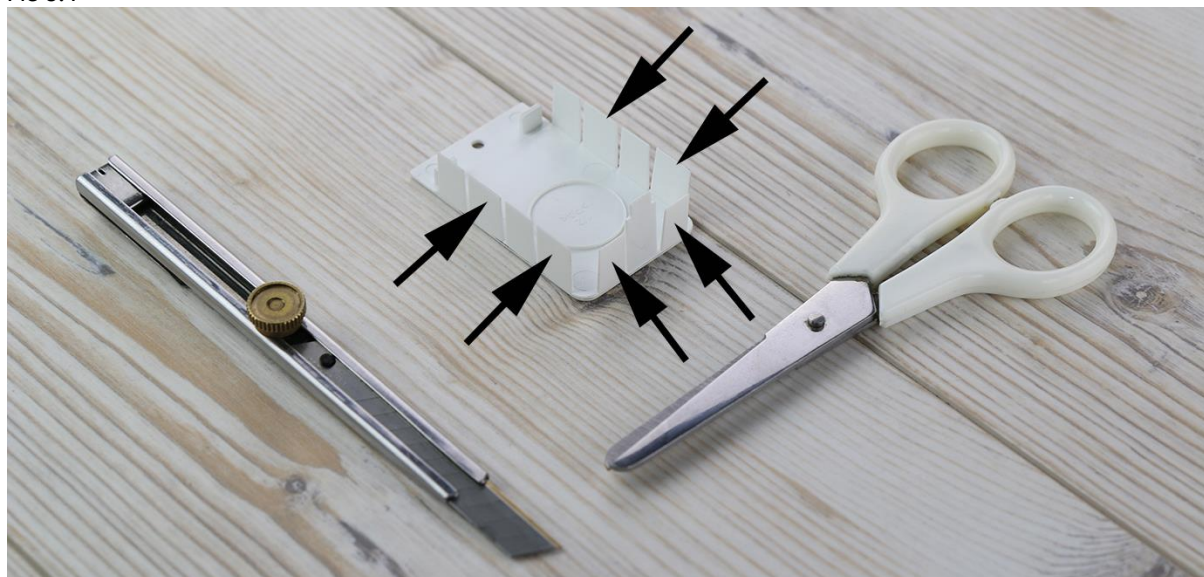
8 The spool cover

Important! Be very careful when handling knives, scissors or similar sharp cutting tools.

The spool cover has an overhang of protective plastic pieces that is necessary in order to ensure a safe use of MOVE. Some of these plastic pieces need to be cut away in the direction where the cord or bead chain is going to run. This can be done with a knife, a scissor or similar sharp cutting tools.

A knife or a scissor is required to cut away the plastic pieces on the spool cover (section 3, pic 1, part 2).

Pic 8.1



Make sure to only cut away the plastic pieces in the direction where the cord or bead chain is going to run.

The spool cover can look like this after cutting

Pic 8.2



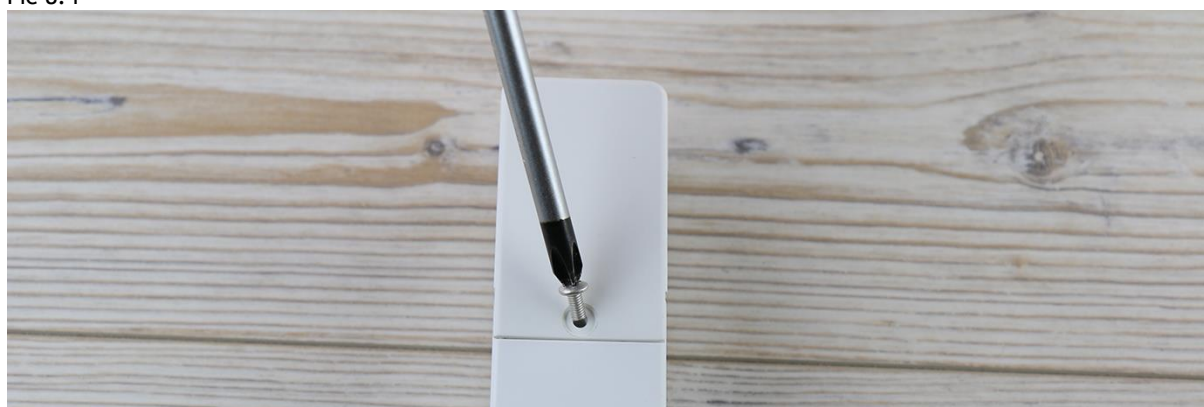
or like this, it's all depending on installation place.

Pic 8.3



Fasten and tighten the screw (section 3, pic 1, part 5) in the center of the spool cover with a screwdriver.

Pic 8.4

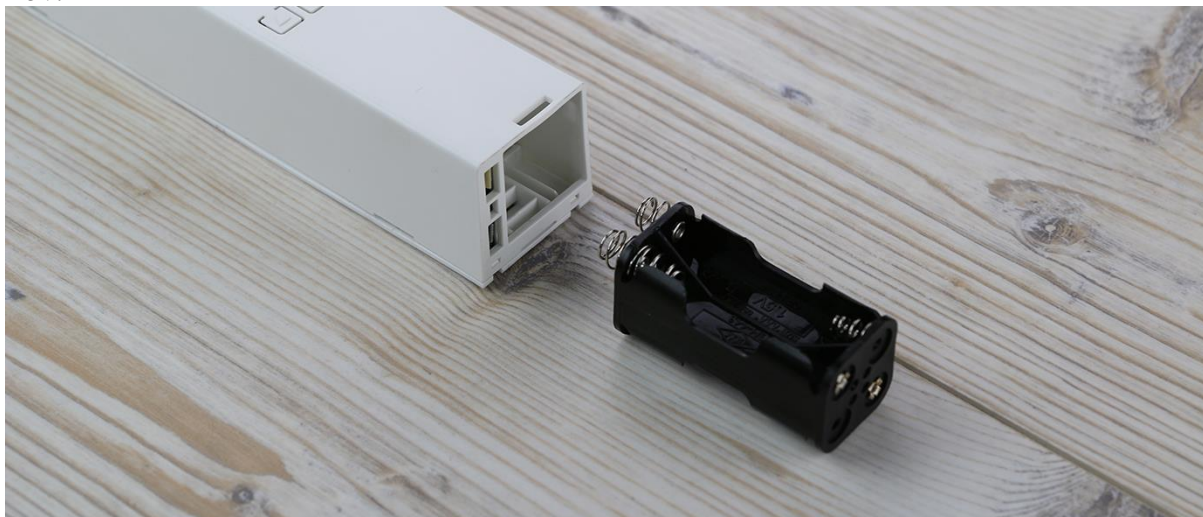


9 Battery

Important! Incorrect installed batteries are dangerous.

MOVE can charge the batteries installed in it through a solar panel or micro USB type B power source. That is why only rechargeable 4x AAA NiMH batteries should be used. The battery holder has markings how the batteries should be placed in the holder and these markings must be followed when installing batteries.

The battery holder (section 3, pic 1, part 3) should be inserted with the springs upward towards the top of the unit.
Pic 9.1



Attach the battery lid (section 3, pic 1, part 4) by inserting the lid as shown below.
Pic 9.2



Close the lid by pressing inwards and then upwards. Press the lid inwards and downwards to open.
Pic 9.3



10 Solar panel

The included solar panel (section 3, pic 1, part 6) needs to be placed in direct sunlight in order to work. The black surface of the solar panel needs to be facing the sun directly. The efficiency will drop if the black surface of the solar panel is not in correct angle to the sunlight. The included installation bracket for the solar panel can be used to install the solar panel against many different surfaces and it enables adjustments of the angle of the solar panel even after installation.

The installation bracket (section 3, pic 1, part 15) have two surfaces with foam tape.

Pic 10.1



One of the surfaces with foam tape should be attached to the backside of the solar panel and the other can either be attached to the side of MOVE, a glass window or any other hard surfaces in order for the solar panel to be facing the sunlight directly with a correct angle.

Pic 10.2



The solar panel should be connected to the solar panel connector (section 3, pic 2, position 2) on MOVE as shown below.
Pic 10.3



An extension cable (section 3, pic 1, part 7) is also included that can be used if needed.
Pic 10.4



11 Installation of the motor and the accessories

Check the condition of MOVE upon unpacking it, do not install if damaged.

Check if MOVE is compatible with the product you intend to install it on before installing, do not install if it's not compatible. Make sure the product you intend to install MOVE on is working correct and don't have any defects, do not install if there are any defects.

The motor inside MOVE has a torque of about 0,8Nm and incorrect installation and/or usage can be dangerous.

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

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

Only mount MOVE according to instructions in this manual.

Warning! - Before starting, carefully read the warnings under section 1. It is important that you install MOVE as described in this manual to ensure safe use of the motor.

11.1 Assembly and installation of MOVE

Prepare the unit by remove the spool cover (section 3, pic 1, part 2) before you proceed to 11.2

11.2 Selecting the correct spool

If bead chain, read section 4

If cord loop, read section 5

If cords, read section 6

11.3 Mounting MOVE

Important! MOVE should only be installed indoors.

Before you proceed read section 7. The installation options are double coated foam tape or wall brackets. You must use wall brackets if you are mounting on wall with wallpaper.

11.3.1 Roller blinds installation

Option 1

Install with double coated foam tape

Important! Before you proceed, do not use double coated foam tape on wallpaper

1. Attach the double coated foam tape on the MOVE unit as described in section 7.1 and pic 7.1.3 or pic 7.1.4
2. Insert the bead chain according to section 4 and pic 4.1.3 (read section 4.2 if the bead chain has a connector)

Important! If the bead chain has a connector make sure that the bead chain connector is running in the slot in-between the cogs, see section 4.2.

Important! Make sure the cord is taut before pressing MOVE against the surface

3. Remove the second cover of the double coated foam tape and press MOVE against the surface for about 10-20 seconds
4. Cut away the plastic pieces on the spool cover according to section 8
5. Attach the spool cover according to section 8 and pic 8.4

Option 2

Install with wall brackets

1. Attach the wall brackets to MOVE as described in section 7.2 and pic 7.2.2 or pic 7.2.4
2. Insert the bead chain according to section 4 and pic 4.1.3 (read section 4.2 if the bead chain has a connector)

Important! If the bead chain has a connector make sure that the bead chain connector is running in the slot in-between the cogs, see section 4.2.

Important! Make sure the cord is taut before fasten the screws

3. Mount the wall bracket with correct screws as described in section 7.2
4. Cut away the plastic pieces on the spool cover according to section 8
5. Attach the spool cover according to section 8 and pic 8.4

11.3.2 Vertical blinds installation

11.3.2.1 Attaching MOVE to bead chain

This is the same procedure as installing MOVE on a roller blind, read section 11.3.1 for more information.

11.3.2.2 Attaching MOVE to cord loop

Option 1

Install with double coated foam tape

Important! Before you proceed, do not use double coated foam tape on wallpaper.

1. Attach the double coated foam tape on the MOVE unit as described in section 7.1 and pic 7.1.3 or pic 7.1.4
2. Insert the cord loop according to section 5 and pic 5.3

Important! Make sure the cord is taut before pressing MOVE against the surface.

3. Remove the second cover of the double coated foam tape and press MOVE against the surface for about 10-20 seconds
4. Cut away the plastic pieces on the spool cover according to section 8
5. Attach the spool cover according to section 8 and pic 8.4

Option 2

Install with wall brackets

1. Attach the wall brackets to MOVE as described in section 7.2 and pic 7.2.2 or pic 7.2.4
2. Insert the cord in the cord loop according to section 5 and pic 5.3.

Important! Make sure the cord is taut before fasten the screws.

3. Mount the wall bracket with correct screws as described in section 7.2
4. Cut away the plastic pieces on the spool cover according to section 8
5. Attach the spool cover according to section 8 and pic 8.4

11.3.3 Pleated blinds installation

Option 1

Install with double coated foam tape

Important! Before you proceed, do not use double coated foam tape on wallpaper.

1. Attach the double coated foam tape on the MOVE unit as described in section 7.1 and pic 7.1.3 or pic 7.1.4
2. Insert the cord according to section 6.3 and pic 6.3.2 or pic 6.3.4

Important! Make sure to install MOVE in such way that the cord always will run with tension over the cord guide.

3. Remove the second cover of the double coated foam tape and press MOVE against the surface for about 10-20 seconds.
4. Cut away the plastic pieces on the spool cover according to section 8
5. Attach the spool cover according to section 8 and pic 8.4

Option 2

Install with wall brackets

1. Attach the wall brackets to MOVE as described in section 7.2 and pic 7.2.2 or pic 7.2.4
2. Insert the cord according to section 6.3 and pic 6.3.2 or pic 6.3.4

Important! Make sure to install MOVE in such way that the cord always will run with tension over the cord guide.

3. Mount the wall brackets with correct screws as described in section 7.2
4. Cut away the plastic pieces on the spool cover according to section 8
5. Attach the spool cover according to section 8 and pic 8.4

11.3.4 Venetian blinds installation

Option 1

Install with double coated foam tape

Important! Before you proceed, do not use double coated foam tape on wallpaper.

1. Attach the double coated foam tape on the MOVE unit as described in section 7.1 and pic 7.1.3 or pic 7.1.4
2. Insert the cord according to section 6.3 and pic 6.3.2 or pic 6.3.4.

Important! Make sure to install MOVE in such way that the cord always will run with tension over the cord guide.

3. Remove the second cover of double coated foam tape and press MOVE against the surface for about 10-20 seconds.
4. Cut away the plastic pieces on the spool cover according to section 8
5. Attach the spool cover according to section 8 and pic 8.4

Option 2

Install with wall brackets

1. Attach the wall brackets to MOVE as described in section 7.2 and pic 7.2.2 or pic 7.2.4
2. Insert the cord according to section 6.3 and pic 6.3.2 or pic 6.3.4

Important! Make sure to install MOVE in such way that the cord always will run with tension over the cord guide.

3. Mount the wall brackets with correct screws as described in section 7.2
4. Cut away the plastic pieces on the spool cover according to section 8
5. Attach the spool cover according to section 8 and pic 8.4

11.4 Calibration

MOVE can be calibrated either through the app or through the physical buttons (section 3, pic 2, positions 5, 6, 7). Because MOVE can be installed in many different ways the buttons “run clockwise” and “run counter clockwise” can make the product on which MOVE is installed on run in different directions depending on installation.

Before calibration MOVE will only run for as long as any one of the two buttons “run clockwise” or “run counter clockwise” is pushed down. After calibration it will be possible to click on either the “run clockwise” or the “run counter clockwise” button to go to the respective end positions.

Calibration of “home” (position 0). This is the maximum open position.

1. Push and hold down the “stop” button
2. With the “stop” button pushed down, push and hold down the “run clockwise” button
3. Let go of both buttons. Use the “run clockwise” and “run counter clockwise” buttons to set the maximum open position. The open position is the position when the product on which MOVE is installed on doesn’t cover the window.
4. When the desired open position is found push and hold down “stop”
5. With the “stop” button pushed down, push down “run clockwise”
6. Let go of both buttons. The position will now be saved

Calibration of “end” (position 100). This is the maximum closed position.

1. Push and hold down the “stop” button
2. With the “stop” button pushed down, push and hold down the “run counter clockwise” button
3. Let go of both buttons. Use the “run clockwise” and “run counter clockwise” buttons to set the maximum closed position. The closed position is the position when the product on which MOVE is installed on cover the window.
4. When the desired closed position is found push and hold down “stop”
5. With the “stop” button pushed down, push down “run counter clockwise”
6. Let go of both buttons. The position will now be saved

11.5 Pairing and controlling with a smartphone app

MOVE can be controlled through a smartphone app after the app and MOVE have paired with each other. First the app should be placed in pairing mode. The first step to do this is to click “add new unit” in the dropdown menu in the app. The second step is to choose the type of function the new unit should perform, after that the app will be in pairing mode.

1. When the app is in pairing mode the physical “stop” button on the MOVE unit should be pushed down for 10 seconds, the LED indicator will blink green when MOVE is pairing mode. MOVE will be in pairing mode for 2 minutes and if no connection is made MOVE will exit the pairing mode.

The steps that follow when adding a unit to an app will be described in the app.

11.6 Electrical connections

The main power source for MOVE is 4 AAA NiMH rechargeable batteries. The alternative power source that can be used is an AC to DC 5V 1800mA, switch mode power supply with output regulated to 5V and a micro USB type B connector. The batteries inside MOVE can be charge either by energy from the solar panel or by energy from the USB power supply. MOVE can also be powered from only the USB power supply without batteries or solar panel.

11.6.1 Rechargeable Batteries

Warning! Do not use batteries if MOVE is exposed to an excessive amount of sunlight and heat. If that's the case MOVE must be powered with a USB power supply.

Important! Only use rechargeable batteries. Non rechargeable batteries are not allowed to be recharged and should not be used. Batteries must be fully charged prior to installation.

Follow the steps below to access the batteries

1. Press the battery lid inwards and downwards and then release to access the battery holder as described in section 9 and pic 9.3
 2. Insert 4 AAA NiMH batteries in the holder as described in section 9
- Important! Batteries must be attached with the correct polarity.**
3. Insert the battery holder, with batteries as described in section 9 and pic 9.1
 4. Make sure to attach the battery lid properly

11.6.2 Solar panel

The solar panel must always be installed indoors.

1. Insert the cable from the solar panel to MOVE solar panel connector (section 3, pic 2, position 2). Use the included extension cable (section 3, pic 1, part 7) if needed.
2. Make sure that the solar panel is placed in a spot with lots of direct sunlight, read section 10 for more information.

11.6.3 Micro USB

The USB power source can by itself power MOVE or it can charge the batteries.

1. Insert the micro USB type B connector from the USB power supply to MOVE USB connector (section 3, pic 2, position 4)
2. Connect the USB power supply to a power outlet

11.7 Factory reset

In order to clear all settings and go back to the default state of a MOVE unit a factory reset can be performed.

To do this:

1. Remove the battery holder and disconnect USB power supply if present
2. Push and hold down the “stop” button
3. With the “stop” button pushed down put back the battery holder or connect the USB power supply and keep the “stop” button pushed down for 10 seconds. After the reset MOVE will rapidly blink 6 times with green light.

12 Technical specifications

Main power source: Battery 4xAAA NiMH (not included)

Alternate power source: AC to DC 5V 1800mA, switch mode power supply with output regulated to 5V and a micro USB type B connector (not included)

Radio protocol: Bluetooth Smart

Primary MCU chip: CSR1010

Secondary MCU chip: Atmel ATtiny48

Motor torque: $\approx 0,8\text{Nm}$ (lift/pull capacity: 6kg/13lb)

Reel mechanism: Spool, cogwheel and cord loop spool

Size MOVE: Length 163mm, with 35mm, height 33mm

Size solar panel: Length 122mm, with 32mm, height 5mm

Weight: 213g

14 Disposal and recycling information

You must dispose of MOVE properly according to local laws and regulations. Because MOVE contains electronic components, MOVE must be disposed of separately from household waste. When MOVE reaches its end of life, contact local authorities to learn about disposal and recycling options, or simply drop it off at your local Teptron retail store or return it to Teptron. MOVE packaging materials must be disposed of in full compliance with local regulations.



European Union—Disposal Information

The symbol above means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product and/or its battery at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

Union Européenne—informations sur l'élimination: Le symbole ci-dessus signifie que, conformément aux lois et réglementations locales, vous devez jeter votre produit et/ou sa batterie séparément des ordures ménagères. Lorsque ce produit arrive en fin de vie, apportez-le à un point de collecte désigné par les autorités locales. La collecte séparée et le recyclage de votre produit et/ou de sa batterie lors de sa mise au rebut aideront à préserver les ressources naturelles et à s'assurer qu'il est recyclé de manière à protéger la santé humaine et l'environnement.

Europäische Union—Informationen zur Entsorgung: Das oben aufgeführte Symbol weist darauf hin, dass dieses Produkt und/oder die damit verwendete Batterie den geltenden gesetzlichen Vorschriften entsprechend und vom Hausmüll getrennt entsorgt werden muss. Geben Sie dieses Produkt zur Entsorgung bei einer offiziellen Sammelstelle ab. Durch getrenntes Sammeln und Recycling werden die Rohstoffreserven geschont und es ist sichergestellt, dass beim Recycling des Produkts und/oder der Batterie alle Bestimmungen zum Schutz von Gesundheit und Umwelt eingehalten werden.

Unione Europea—informazioni per lo smaltimento: Il simbolo qui sopra significa che, in base alle leggi e alle normative locali, il prodotto e/o la sua batteria dovrebbero essere riciclati separatamente dai rifiuti domestici. Quando il prodotto diventa inutilizzabile, portalo nel punto di raccolta stabilito dalle autorità locali. La raccolta separata e il riciclaggio del prodotto e/o della sua batteria al momento dello smaltimento aiutano a conservare le risorse naturali e assicurano che il riciclaggio avvenga nel rispetto della salute umana e dell'ambiente.

Europeiska unionen—information om kassering: Symbolen ovan betyder att produkten och/eller dess batteri enligt lokala lagar och bestämmelser inte får kastas tillsammans med hushållsavfallet. När produkten har tjänat ut måste den tas till en återvinningsstation som utsetts av lokala myndigheter. Genom att låta den uttjänta produkten och/eller dess batteri tas om hand för återvinning hjälper du till att spara naturresurser och skydda hälsa och miljö.