

# **Motorized Roman Blind**

# Super Liberta Kit

S-03042502

# Instructions (Contractor's Manual)

Please read this manual carefully before installing the product.

### **!** CAUTION

- Electrical wiring work for the product must be performed by a certified electrician.
- 2 The product operates at 100 VAC. Do not use any other power supply.
- 3 The product is designed for indoor use. Do not install or use it outdoors.
- 4 Do not attempt to disassemble the product.

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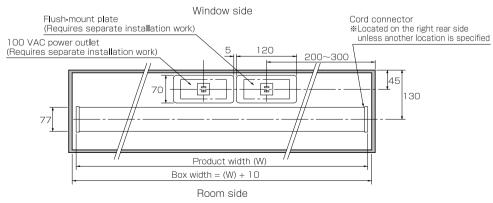
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\* This manual is made with recycled paper.

## Product diagrams and names of parts I ■ Main product components Switch cord (6wires, 30cm) \*Only one cable is supplied unless otherwise specified. Power-supply cord (1m) Head box Cap · Head-box cover -Fabric Up/down tape Weight bar Accessories ●Universal joint Bracket (sold separately) %Provided only for the joint specification 106 \*Mounting screws are not provided with the product. Installation dimensions Window side



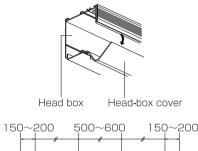
#### Installation instructions I

\* The installation method varies between standard specification (without joints) and 2 joint **specification.** Please follow the installation procedures specified for the type of product to be installed.

#### Standard specification

Brackets are not provided with the product unless this option is ordered. Install the head box directly to the ceiling.

- Installing the head box
- (a) Remove the head-box cover.
- (b) Mounting screws should be installed 150 to 200 mm from each end of the head box, and at equal intervals of 500 to 600 mm between the two end screws
- Prior to installation, use a drill to make holes for mounting screws along the screwmounting groove located inside the head box.
- (d) Install the head box using mounting screws that are suitable for the material of the mounting surface. (Mounting screws are not provided with the product.)
- (e) Do not attach the fabric or head-box cover at this stage.





Mounting-screw installation locations

Screw-

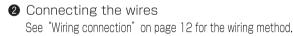
groove

mounting

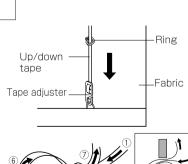


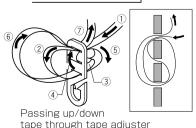
#### CAUTION

Be careful to prevent metal shavings produced during the drilling of holes or the installation of the head box from entering or adhering to the motor or control circuit board located inside the head box. The entry or adherence of metal shavings may cause electrical short-circuiting.

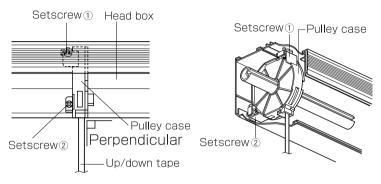


- Installing the fabric
- (a) Attach the fabric to the Velcro tape located at the upper section of the head box.
- (b) Pass the up/down tapes through all of the rings located on the rear of the fabric, and then attach the up/down tapes to the tape adjusters. Make sure the up/down tapes are not twisted.
- If the up/down tapes are not passed through all of the rings or if they are twisted, correct the problem in accordance with the instructions given in "Removing the fabric" on page 16.

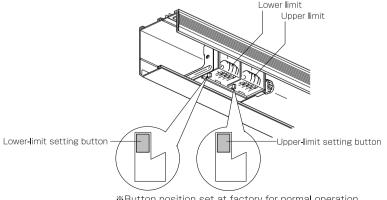




- 4 Checking the positions of the up/down tapes
- (a) Make sure all up/down tapes are perpendicular to the head box.
- (b) If any of the up/down tapes is not perpendicular to the head box, correct the position of the tape in accordance with the procedure described below.
- <Correcting the up/down-tape position>



- Loosen setscrews (1) and (2) that are securing the pulley case of the up/down tape to the head box.
- Move the pulley case to the right or left so that the up/down tape becomes perpendicular to the head box.
- Tighten setscrews (1) and (2) to secure the pulley case in place.
- **6** Checking the operation
- (a) Connect the wires. (Refer to "Wiring connection" on page 12.)
- (b) Press the buttons for OPEN (up), STOP, and CLOSE (down), and confirm that the product operates normally.
- (c) If the product fails to operate normally, refer to the "Troubleshooting guide" on page 15.
- 6 Checking the upper-limit and lower-limit positions
- The upper-limit and lower-limit positions have been set at the factory prior to shipment. If it is necessary to change them, follow the procedure described below.



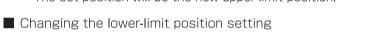
\*Button position set at factory for normal operation

- Changing the upper-limit position setting
- <To move the current upper-limit position to a higher position>
  - ① Set the upper-limit setting button in the release position (reset position).
  - ② Using the button, move the Roman blind to the desired stop position.
  - ③ After adjusting the position, return the upper-limit setting button to the set position.



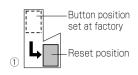
- ① Using the button, move the Roman blind to the desired stop position.
- ② After adjusting the position, push the upper-limit setting button toward the reset position once, and release it.

  The set position will be the new upper-limit position.

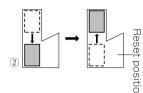


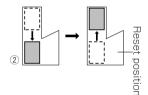
- <To move the current lower-limit position to a higher position>
  - ① Using the button, move the Roman blind to the desired stop position.
  - ② After adjusting the position, push the lower-limit setting button toward the reset position once, and release it.

    The set position will be the new lower-limit position.





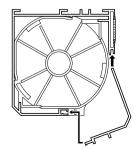


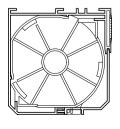




Do not move the lower-limit position so that it is lower than the currently set position. If it is lowered from the current lower-limit position, the fabric will be furled in the reverse direction, causing equipment problems.

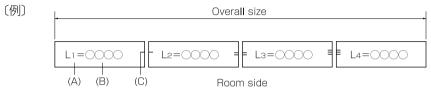
- Attaching the head-box cover
- (a) Make sure the notched sections on the head box are aligned with the pulley, upper-limit position, and lower-limit position.
- (b) Insert the head-box cover into the groove on the head box to secure it in place.





#### 2 Joint specification

- The brackets are not provided with the product unless this option is ordered. Install the head box directly to the ceiling.
- The fabric is provided in a separately-packaged box.
- Check the following prior to installation.
- (a) Confirm the position, size, and joint position of each head box by checking the marking on its top surface.



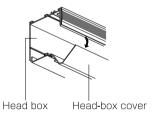
- (A) Head-box position.....L1, L2, L3, ... From the left as viewed from the room side
- (B) Head-box size.....Size of each separated head box
- (C) Joint mark.....Each joint section has a joint mark. The number of joint-mark lines must match during connection.
- (b) Place the product temporarily on the floor to check the overall product width.
- (c) Check to confirm that the head box installed with the motor and control circuit board is located near the center.



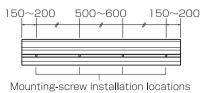
#### **CAUTION**

If the head boxes are not installed in the correct order, motor damage and other malfunctions may occur.

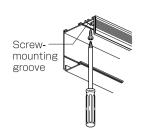
2 Installing the rightmost or leftmost head box



- (a) Remove all head-box covers.
- (b) Install mounting screws 150 to 200 mm from each end, and at equal intervals of 500 to 600 mm between the two end screws.



- (c) Prior to installation, use a drill to make holes for mounting screws along the screw-mounting groove located inside the head box.
- (d) Install each head box using mounting screws that are suitable for the material of the mounting surface. (Mounting screws are not provided with the product.)
- (e) Do not attach the fabric or head-box cover at this stage.



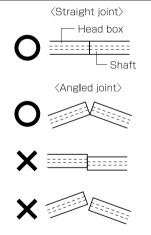


Be careful to prevent metal shavings produced during the drilling of holes or the installation of the head box from entering or adhering to the motor or control circuit board located inside the head box. The entry or adherence of metal shavings may cause electrical short-circuiting.

3 Installing the adjacent head box

The brackets are not provided with the product unless this option is ordered. Install the head box directly to the ceiling.

- (a) Position the end surfaces of two adjacent boxes firmly against each other. (The deviation in the vertical and horizontal directions must be within 2 mm.)
- \* Note that misaligned head boxes will prevent proper connection of the shafts.
- (b) The head-box caps are not attached to the joint sections.
- (c) Remove all head-box covers.
- (d) Mounting screws should be installed 150 to 200 mm from each end of the head box, and at equal intervals of 500 to 600 mm between the two end screws.



- (e) Prior to installation, use a drill to make holes for mounting screws along the screw-mounting groove located inside the head box.
- (f) Install the head box using mounting screws that are suitable for the material of the mounting surface. (Mounting screws are not provided with the product.)
- (g) Do not attach the fabrics or head-box covers at this stage.
- \* Continue installing head boxes next to each other.

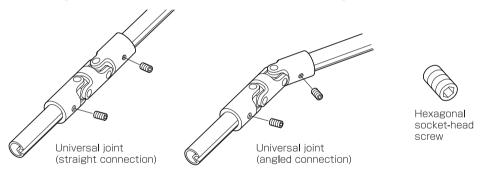
- **4** Connecting the shafts
- (a) Pull out the up/down tapes fully from all of the pulley cases, and align the grooves on the shafts. (Confirm that the up/down tapes have been pulled out fully from the pulley cases of the head box mounted with a motor.)
- (b) Loosen the hexagonal socket-head screws at each universal joint. (The universal joints are provided in a separately-packaged box.)
- (c) Attach the universal joint to the shaft connected to the motor. Set the universal joint at the marking position, and tighten the setscrew to secure it in place.
- (d) Insert the shaft to be connected into to the universal joint, and secure the universal joint firmly, confirming that it is positioned at the marking.



- \* Connect all other joints by the same procedure.
- \* The hexagonal wrench is not supplied with the product. (Hexagonal wrench size: 2.5 mm)

Groove on shaft

Marking



- **5** Connecting the wires inside the head boxes
- (a) Confirm that the switch connection cord (6 wires, connector attached,  $\times$  1 or  $\times$  2) and power cord (3 wires, connector attached,  $\times$  1) are extended from the head box mounted with a motor.
- (b) Confirm that the head box to be joined contains a switch connection cord (6 wires, connector attached,  $\times 1$  or  $\times 2$ ) and a power cord (3 wires, connector attached,  $\times 1$ ).
- (c) Connect the connectors inside the head box (without a motor) to be joined.
- (d) Bundle the excess sections of the cords, and secure them with a cord clip inside the head box so that the cords do not contact the shaft. (Cord clips are provided with the product.)

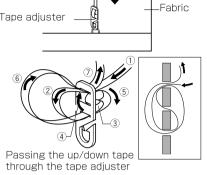
# $\triangle$

#### CAUTION

Do not connect wires at a location near the joint section inside the head box. Otherwise, cords may become entangled with the joint section.

P.6

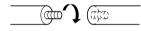
- 6 Connecting the wires See "Wiring connection" on page 12 for the wiring method.
- Installing the fabric
- (a) Attach the fabric to the Velcro tape located Tape adjuster at the upper section of the head box.
- (b) Pass the up/down tapes through all of the rings located on the rear of the fabric, and then attach the up/down tapes to the tape adjusters. Make sure the up/down tapes are not twisted.
- (c) If the up/down tapes are not passed through all of the rings or if they are twisted, correct the problem in accordance with the procedure described in "Removing the fabric" on page 16.



Up/down tape

Ring

- Weight-bar connection (for the Plain and Sharp styles only)
- (a) For some product sizes, a weight bar must be connected.
- (b) The divided weight-bar sections have either a threaded extension or receptacle on one end. Check the ends and connect the sections.
- \* In the case of a straight connection, the sections to be connected have the same joint mark as on the head boxes. Be sure to check the joint mark prior to connection. (For details, refer to "Joint specification" on page 5.)
- \* In the case of angled connection, there is no joint connection.



Turn the bar section to connect.

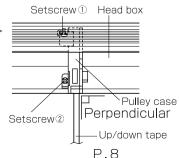
- 9 Shaper connection (for Sharp style only)
- (a) In some product sizes, a shaper must be connected.
- (b) The divided shaper sections have either an extension or indentation. Check the ends and connect the sections.

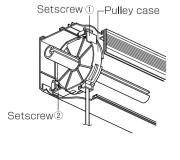
(C,D)

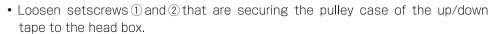
Push in to connect.

- Ohecking the positions of the up/down tapes
- (a) Make sure all up/down tapes are positioned perpendicular to the head box.
- (b) If any of the up/down tapes is not perpendicular to the head box, correct the position of the tape in accordance with the procedure described below.

<Correcting the up/down-tape position>



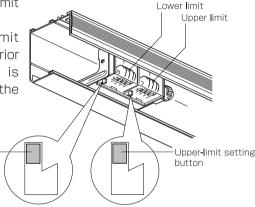




- Move the pulley case to the left or right so that the up/down tape becomes perpendicular to the head box.
- Tighten setscrews ① and ② to secure the pulley case in place.
- Checking the operation
- (a) Connect the wires. (Refer to "Wiring connection" on page 12.)
- (b) Press the buttons for OPEN (up), STOP, and CLOSE (down), and confirm that the product operates normally.
- (c) If the product fails to operate normally, refer to the "Troubleshooting guide" on page 15.

Checking the upper-limit and lower-limit positions

The upper-limit and lower-limit positions are set at the factory prior to shipment. However, if it is necessary to change them, follow the procedure described below.



\*Button position set at the factory for normal operation

■ Changing the upper-limit position setting

<To move the current upper-limit position to a higher position>

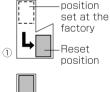
① Place the upper-limit setting button in the release position (reset position).

Lower-limit setting

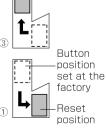
button

- ② Using the button, move the Roman blind to the desired stop position.
- ③ After adjusting the position, return the upper-limit setting button to the set position.
- <To move the current upper-limit position to a lower position>
  - ① Using the button, move the Roman blind to the desired stop position.
  - ② After adjusting the position, push the upper-limit setting button toward the reset position once, and release it.

    The set position will be the new upper-limit position.



Button





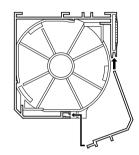
- Changing the lower-limit position setting
- <To move the current lower-limit position to a higher position>
  - 1) Using the button, move the Roman blind to the desired stop position.
  - ② After adjusting the position, push the lower-limit setting button toward the reset position once, and release it.

    The set position will be the new lower-limit position.

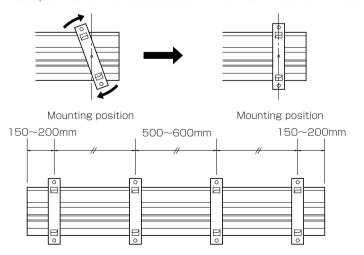


Do not move the lower-limit position to lower than the currently set position. If it is lowered from the current lower-limit position, the fabric will be furled in the reverse direction, causing equipment problems.

- Attaching the head-box cover
- (a) Make sure the notched sections on the head box are aligned with the pulley, upper-limit position, and lower-limit position.
- (b) Insert the head-box cover into the groove on the head box to secure it in place.



- When using optional brackets (common to the standard specification and joint specification)
  - Use the brackets, if necessary, in accordance with the condition of the mounting surface.
  - · Attach the brackets to the head box prior to installation.
  - The brackets should be installed 150 to 200 mm from each end of the head box, and at equal intervals of 500 to 600 mm between the two end brackets.



- 3 Installation of the guide cord (for Austrian style only; common to the standard specification and joint specification)
  - Product width of up to 4.000 mm
  - ① Insert each guide cord through the hole in the guide-cord mount, and tie the guide cord to the guide-cord mount.
  - ② Install bolts on both ends of the head box where the guide cords hang straight down (approx. 65 mm from the end). Use the L-shaped fixtures when installing the product on the outside of the window frame.
  - ③ Insert each guide wire through each of the double rings attached to the square rings on the up/down tape.
  - 4 Pull on each guide cord lightly, and tie a knot approximately 20 mm above the bolt. Cut off the excess sections of the guide cords, and attach nuts.
  - (5) If the guide cords become loose, shorten them by approximately 5 mm.
  - Product width of 4,010 mm or greater
  - ① Using a mounting fixture, attach a turnbuckle to the hole in each guide-cord mount,
  - ② Insert a guide wire through the hole at the bottom of each turnbuckle, and secure the guide wire using two guide-wire fasteners.
  - ③ Install guide-wire holding fixtures where the guide wires hang straight down (approx. 65 mm from the end). (Guidewire holding fixtures are not provided with the product.)



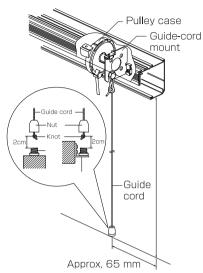
#### CAUTION

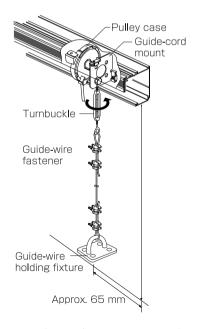
Use strong guide-cord holding fixtures that can withstand a pulling force of 100 kg.

\*\*Use the AK3001 Eye Plate manufactured by Asano Metal Co., Ltd., or the equivalent.

- 4 Insert each guide wire through the guide-wire holding fixture, and tie using two fasteners.
- ⑤ Turn each turnbuckle in the direction indicated by the arrow in the diagram to apply tension to the guide wire.

Extend the turnbuckles prior to setting so that they can be turned in order to apply tension to the guide wires.



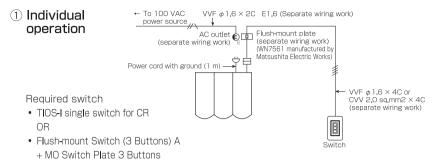


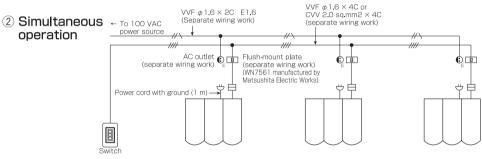
- 4 Installation of weights (for Austrian and Balloon styles only; common to the standard specification and joint specification)
  - Attach weights to the rings at the lower sections of the up/down tapes.
  - Attach a 320 g weight to the up/down tapes on both sides, and attach a 160 g weight to all other up/down tapes.

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#### Wiring connection I

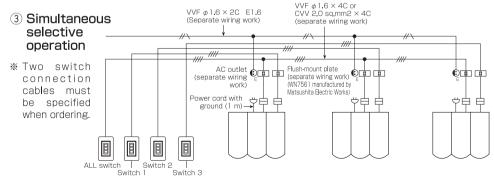
Before connecting power-supply cords and control wires, consult with our sales representative and the electrician who will perform the work, Be sure to have the wiring performed by a certified electrician.





Required switch

- TIOS-I single switch for CR OR
- Flush-mount Switch (3 Buttons) A
- + MO Switch Plate 3 Buttons

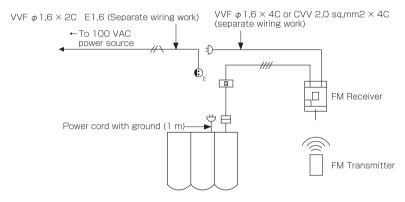


Required switch

- TIOS-I single switch for CR
   OR
- Flush-mount Switch (3 Buttons) A
- + MO Switch Plate 3 Buttons

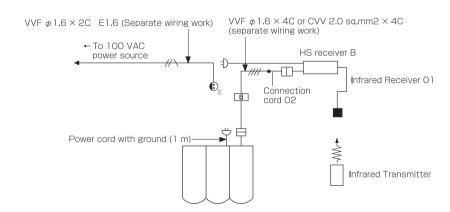
#### 4 Radiowave remote-control operation (FM remote control)

- \*When using the radiowave remote-control switch (FM remote control), be sure to read the operation manual.
- \*The radiowave remote control signal has a range of up to 30 m (depending on the operating environment).



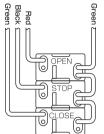
#### 5 Infrared remote-control operation (infrared remote control)

- \*When using the infrared remote-control switch (infrared remote control), be sure to read the operation manual.
- \*The radiowave remote control signal has a range of up to 10 m (depending on the operating environment).



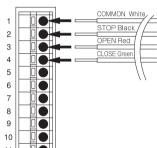
#### Connection method I

• Required switch......Flush-mount Switch (3 Buttons) A + MO Switch Plate 3 Buttons



- \*The blue and brown wires from the main unit are not used.
- \*Insulate the unused wires using, for example, insulating tape.
- Required switch......TIOS-I single switch for CR for flush-mount installation

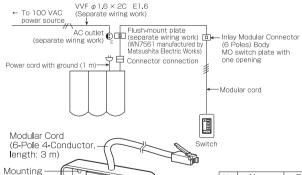
#### (Rear of the switch panel)



For details, refer to the "TIOS-I single switch for CR for exposed installation" manual.

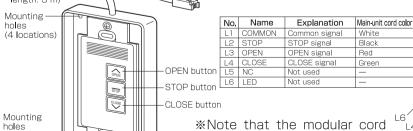
\*Insulate the unused wires using insulating tape or by a similar method.

• Required switch......TIOS-I single switch for CR for exposed installation



(4 locations)

For details, refer to the "TIOS-I single switch for CR for exposed installation" manual.



\*Note that the modular cord colors do not correspond to the main-unit cord colors.

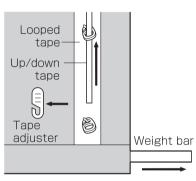
#### Troubleshooting guide

Troubleshooting guide	
•The product does not operate.	<ul> <li>There is a power outage. The power-cord plug is not connected to the AC outlet.</li> <li>→ Turn on the power.</li> <li>• The fabric will not move.</li> <li>→ Remove the item responsible.</li> <li>• The product fails to operate for a while following continuous operation. (Reduced rotating power due to high motor temperature)</li> <li>→ Before operating, wait at least three times the previous operating time. (Power will be restored after the motor temperature decreases.)</li> <li>• Overload detection is activated. (Check whether the fabric is caught in something.)</li> <li>→ Remove the item responsible.         Hold down the OPEN and CLOSE switches simultaneously for more than two seconds, or unplug the power cord to reset the unit.</li> <li>• The upper limit and lower limit are set to the same position.</li> <li>→ Reset the upper-limit and lower-limit positions.</li> </ul>
	<ul> <li>The switch wires are not connected correctly.</li> <li>→Refer to XWiring connection on page 12.</li> </ul>
The product does not move in the downward direction.	The up/down tape and the pulley case in the head box are not aligned normally.      Remove the head-box cover and move the pulley case so as to align it with the up/down tap position, in accordance with the method for correcting the up/down-tape position described on page 3.
•The product does not stop at the set upper-limit/lower-limit position.	<ul> <li>The upper-limit/lower-limit setting button is in the release (reset) position.</li> <li>→ Set the upper-limit/lower-limit position again.</li> </ul>
The product raises (lowers) lopsidedly.	<ul> <li>The up/down tapes are not of the same length.</li> <li>→ Adjust the lengths of the up/down tapes using the tape adjusters.</li> <li>&lt; In the case of the joint specification &gt;</li> <li>The up/down tapes are not of the same length.</li> <li>→ Remove the joints, pull out shorter up/down tapes so that all up/down tapes are equal in length, and reinstall the joints.</li> </ul>
Abnormal noise is produced by the joint sections.	<ul> <li>The joints are not installed at the proper positions.</li> <li>→ Align the joint position with the joint section of the head box.</li> </ul>

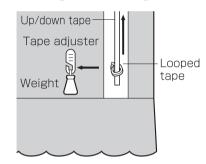
#### Maintenance I

#### Removing the fabric (for cleaning, etc.)

- 1 Lower the fabric fully.
- 2 Remove the up/down tapes, weight bar, and weight.
- Plain and Sharp styles
  - 1) Remove the weight bar.
  - ② Detach the up/down tapes from the tape adjusters at the bottom, and pull out the up/down tapes from the looped tapes.



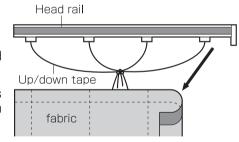
- Balloon and Austrian styles
  - 1) Detach the up/down tapes from the tape adjusters at the bottom, and pull out the up/down tapes from the looped tapes.
  - % In the case of Austrian style, until the knots on the guide cords or guide wires.



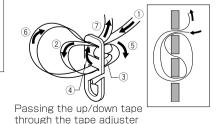
- 3 Remove the fabric.
  - ①Detach the fabric from the head rail.
  - ②Bundle and tie the up/down tapes so that they will not detach from the head rail.
  - After cleaning, reinstall the fabric by performing the removal procedure in reverse order.

Cleaning the fabric

Follow the cleaning instructions given on the care label attached to the rear of the fabric.

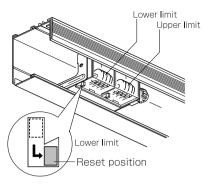


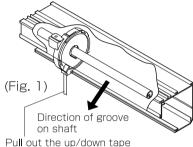
 Pass the up/down tapes through the tape adjusters as shown below.



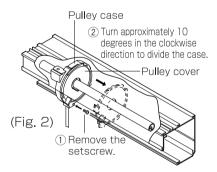
#### 2 Replacing up/down tapes

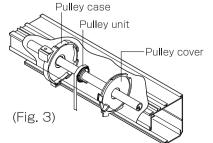
- If the up/down tapes cause a problem such as breaking or twisting, replace the damaged up/down tape in accordance with the procedure described below. (Up/down tapes are sold as an option.)
- Lower the fabric to the lower-limit position.
- Remove the head-box covers from the head box containing the problem-causing up/down tape and the head box containing the motor and control circuit board.
- 3 Set the lower-limit setting button to the release position (reset position).
- \*\* Place marks on the normal up/down tapes to indicate their lower-limit position. This will facilitate later work.
- 4 Operate the switch to further lower the fabric and fully extend the up/down tapes. (Stop immediately before the motor starts to wind the up/down tapes in the reverse direction and cause the fabric to rise.)
- **5** Detach the problem-causing up/down tape from the tape adjuster at the bottom, and pull it out completely from the fabric.
- \* Check to confirm that the groove on the shaft is visible.
- ① Remove the setscrew from the pulley case to which the problem-causing up/down tape is attached, and ② turn the pulley cover approximately 10 degrees in the clockwise direction and remove the pulley cover. (Fig. 2)
- Pring the pulley unit attached with the up/down tape into view, and remove the up/down tape if it is still wound on the pulley.





from the fabric





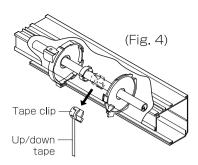
P.16

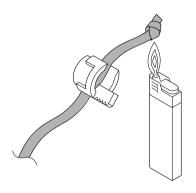
- 3 Pull the tape clip out of the pulley unit. Then, hold the up/down tape and detach the tape clip by pulling it at a right angle to the groove on the shaft. (Fig. 4)
- The tape clip cannot be detached unless it is positioned at a right angle to the groove on the shaft. If it is not possible to pull the tape clip at a right angle, press the button again to move the fabric down slightly.
- 9 Pull the up/down tape knot out of the tape clip.
- Detach the up/down tape from the tape adjuster at the bottom of the fabric, and pull out the up/down tape from the fabric.
- Insert a new up/down tape into the tape clip, and tie a knot at the end to prevent the tape from detaching from the tape clip.
- Cut the tape end extending from the knot to a length of approximately 10 mm.
- \* Heat the knot lightly with a cigarette lighter to harden it.

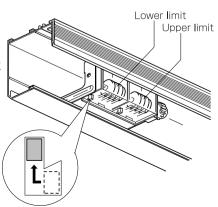


Be careful if using a lighter.

- 12 Insert the tape clip into the shaft and reassemble the pulley by following steps 6 through 3 in reverse order.
- **(3)** Attach the up/down tape to the fabric, and attach it to the tape adjuster at the bottom.
- Adjust the length of the up/down tape.
- Using the button, raise the fabric and stop it at the first lower-limit position.
- **(5)** Return the lower-limit button to the set position.
- 16 Reinstall the head-box covers.







#### Product specifications

Ite	em	Unit	Rating	
Power-supply voltage		V	AC100 ± 10%	
Power-supply frequency		Hz	50/60	
Power	In operation	W	66	
consumption	In non-operation	W	5	
Operation voltage		V	DC12	
Operation current		mΑ	7	
Ambient operation temperature °C		°C	0 to 50 (non-condensing)	
Weight		kg	Weight of mechanical components $1.3 + \frac{W}{1000}$	

The product weight varies depending on the fabric material.

Item	Unit	Rating
Motor voltage	V	DC140
Rated rotation speed	rpm	40 ±15%
Rated torque of the output shaft	Ncm	6.1 (60 kgf.cm: 30 kgf.cm on each side $\times$ 2)
Rated operation time	min	5

#### Calculating product weight

Product weight = Weight of mechanical components + Weight of fabric (1) Weight of fabric +2 Weight of parts)					
<ul><li>Weight of mechanical components (g)</li></ul>	1.12×0.99 × W + (N+1) × 0.02				
Weight of fabric (kg)	Plain	Weight of fabric     Weight of parts	W×H×Weight of fabric per $1m^2$ (kg) W×H×0.04+W×0.28		
	Sharp	Weight of fabric     Weight of parts	W×H×Weight of fabric per 1 m <sup>2</sup> (kg) W×H×0.23+W×0.28		
	Balloon	Weight of fabric     Weight of parts	W×H×2×Weight of fabric per 1m² (kg) W×H×0.04+W×0.09+0.16 (kg)		
	Austrian	Weight of fabric     Weight of parts	W×H×3.75×Weight of fabric per 1m² (kg) W×H×0.04+W×0.12+0.16 (kg)		

W = Product width (m); H = Product height (m); N = Number of swags (pcs.)The weight varies slightly depending on the fabric type.

#### Note regarding markings on the product

Markings (purple) used in sewing may be visible on the Roman blind. Such markings disappear within a few days after installation. They can be also be removed easily by wiping with a wet cloth.

- Removing markings
- 1 Soak a cloth in water and wring it lightly.
- 2 Dab an area with markings repeatedly to wet it.
- \* If the fabric is made of cotton or other material that shrinks easily, do not wet it excessively.
- 3 The marking will disappear when the water evaporates.

#### Disposal of packing materials

- 1 Do not leave packing materials at the installation site.
- 2 Separate combustible cardboard from noncombustible waste.
- 3 Observe the local waste separation regulations when disposing of the materials.