

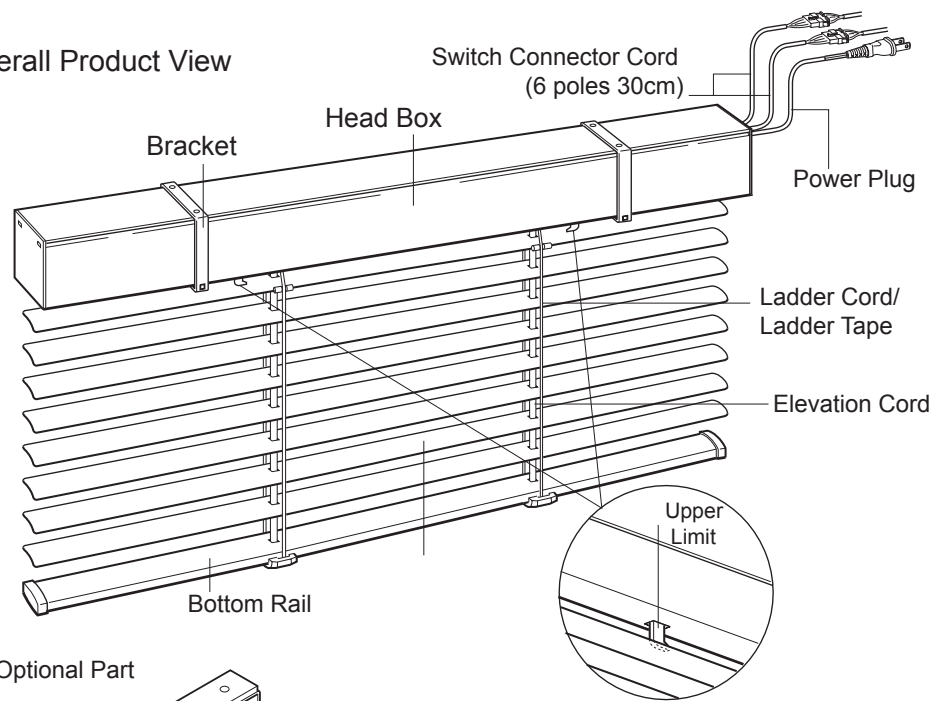
Instruction Manual (for Contructors)

Read this manual thoroughly before installation.

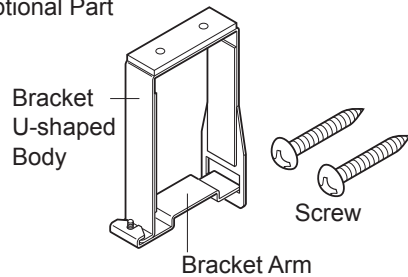
1. Wiring for this product needs to be done by a certified electrician.
2. Power source for this product is AC100V. Do not use this product with power other than AC100V.
3. This product is intended for indoor use. Please do not use it for exterior purposes.
4. Do not disassemble this product.
5. This product is not intended for bathroom use. Do not use this product in areas with high humidity.

Overall View and Part Name

Overall Product View



Optional Part



Bracket and Screw Quantity (piece)

Product Width (mm)	800 ~1200	1210 ~1600	1610 ~2300	2310 ~4000
Bracket Quantity	2	3	4	5
Screw Quantity	4	6	8	10

Operations for Intest ID 25, 35, 35 Blackout are 3-Button or 5-Button specification. Please see a sticker on a carton.

3-Button Operation: Operate a product to open, close, tilt with three buttons: OPEN, STOP, and CLOSE button.

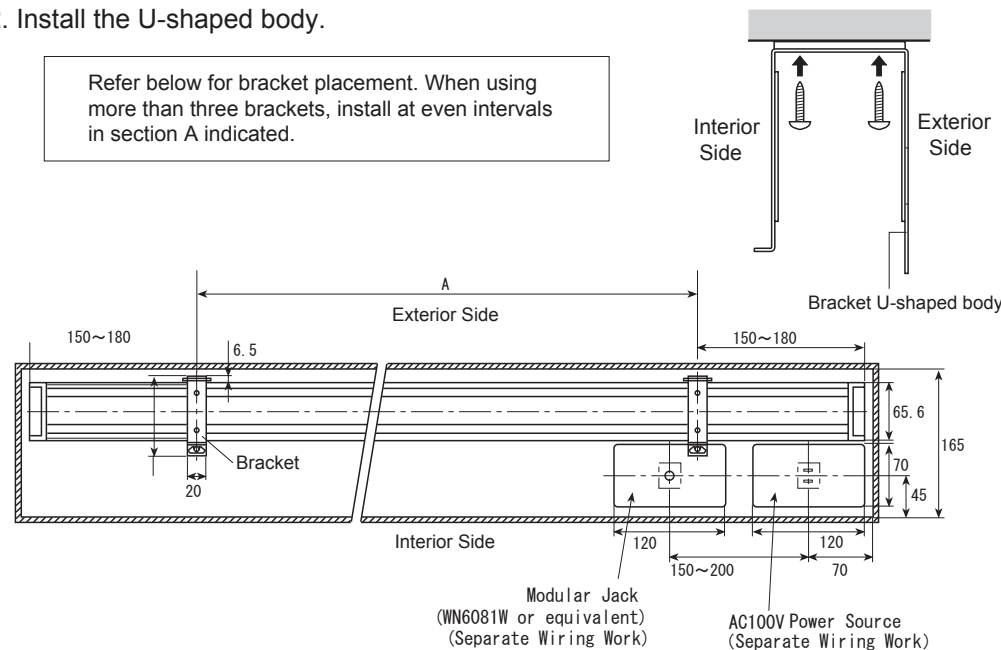
5-Button Operation: Operate a product to open, close, tilt with five buttons: OPEN, STOP, CLOSE, SLAT OPEN, and SLAT CLOSE button.

Installation

3-Button and 5-Button Operations

1. Separate Bracket into a U-shaped body and an arm.
2. Install the U-shaped body.

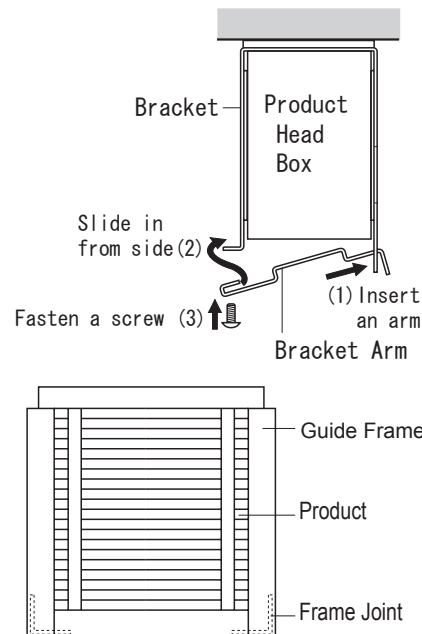
Refer below for bracket placement. When using more than three brackets, install at even intervals in section A indicated.



3. Place a head box in the U-shaped body, and attach the arm.

4. Fasten screws.

Follow (1), (2) and (3) in order as shown in a drawing.



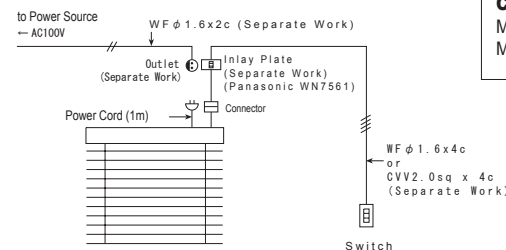
*Guide Frame is available for Intest ID 35 Blackout.

Wiring Work

Power source and other wiring for this product need to be done by a certified electrician.

3-Button Operation: Operate a product to open, close, tilt with three buttons.

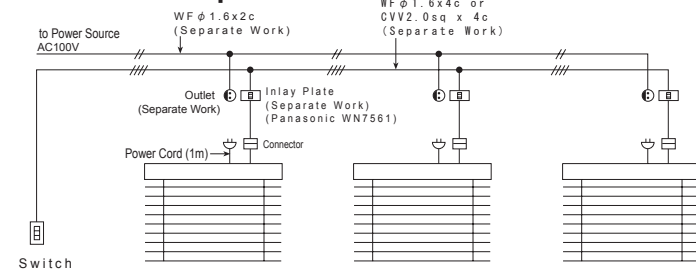
1. Independent Operation



Components
MO Switch 3 Button Inlay Body A
MO Switch Plate 3 Button 1 Row

Use one of two Switch Connector Cords (6 poles 30cm) from Intest ID. (No difference in two cords.)

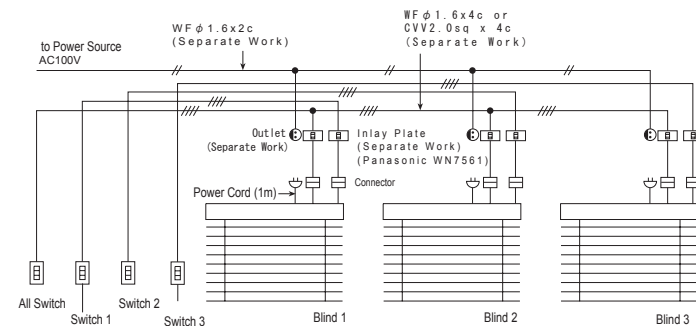
2. Simultaneous Operation



Components
MO Switch 3 Button Inlay Body A
MO Switch Plate 3 Button 1 Row

Use one of two Switch Connector Cords (6 poles 30cm) from Intest ID. (No difference in two cords.)

3. Simultaneous and Selective Operation

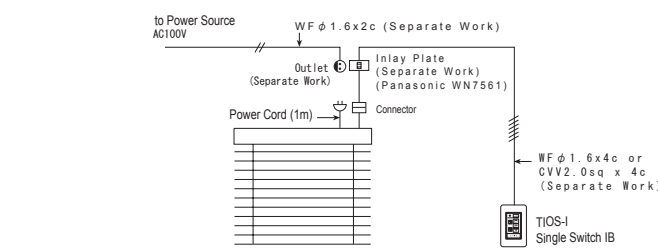


Components
MO Switch 3 Button Inlay Body A
MO Switch Plate 3 Button 1 Row

Use one of two Switch Connector Cords (6 poles 30cm) from Intest ID. (No difference in two cords.)

5-Button Operation: Operate a product to open, close, tilt with five buttons.

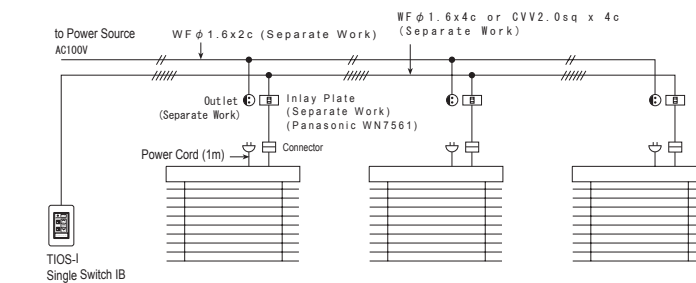
1. Independent Operation



Components
TIOS-I Single Switch IB
Or
MO Switch 3 Button Inlay Body A (for elevation),
MO Switch Plate 3 Button 1 Row, MO Switch 2 Button Inlay Body A (for tilting slats),
MO Switch Plate 2 Button 1 Row

Use one of two Switch Connector Cords (6 poles 30cm) from Intest ID. (No difference in two cords.)

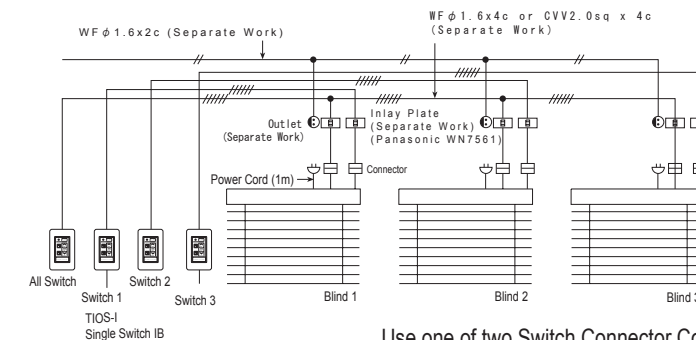
2. Simultaneous Operation



Components
TIOS-I Single Switch IB
Or
MO Switch 3 Button Inlay Body A (for elevation),
MO Switch Plate 3 Button 1 Row, MO Switch 2 Button Inlay Body A (for tilting slats),
MO Switch Plate 2 Button 1 Row

Use one of two Switch Connector Cords (6 poles 30cm) from Intest ID. (No difference in two cords.)

3. Simultaneous and Selective Operation



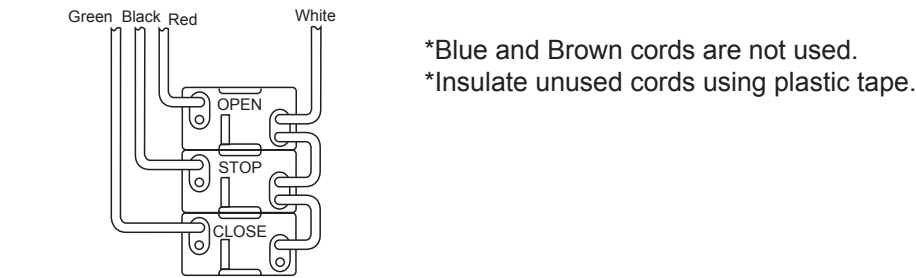
Components
TIOS-I Single Switch IB
Or
MO Switch 3 Button Inlay Body A (for elevation),
MO Switch Plate 3 Button 1 Row, MO Switch 2 Button Inlay Body A (for tilting slats),
MO Switch Plate 2 Button 1 Row

Use one of two Switch Connector Cords (6 poles 30cm) from Intest ID. (No difference in two cords.)

Wiring Switch

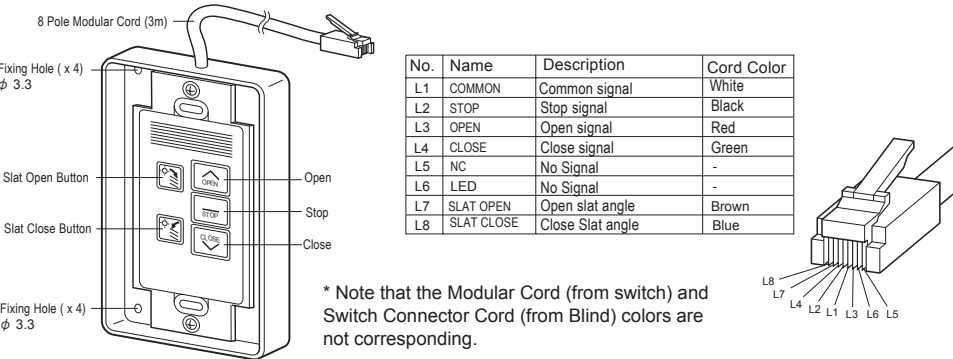
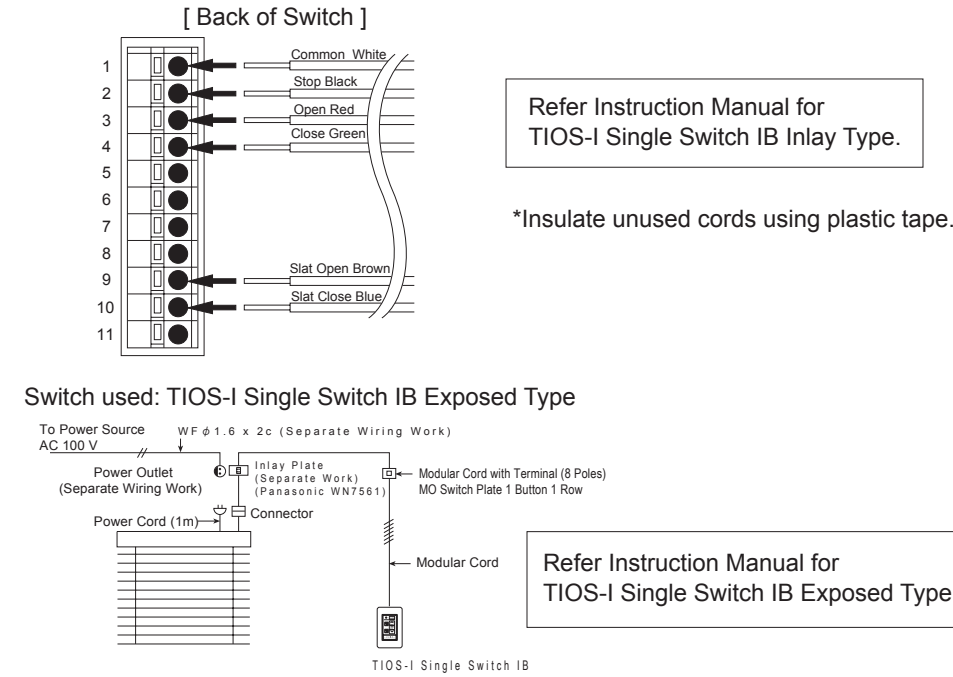
3-Button Switch

Switch used: MO Switch 3 Button Inlay A and MO Switch Plate 3 Button 1 Row

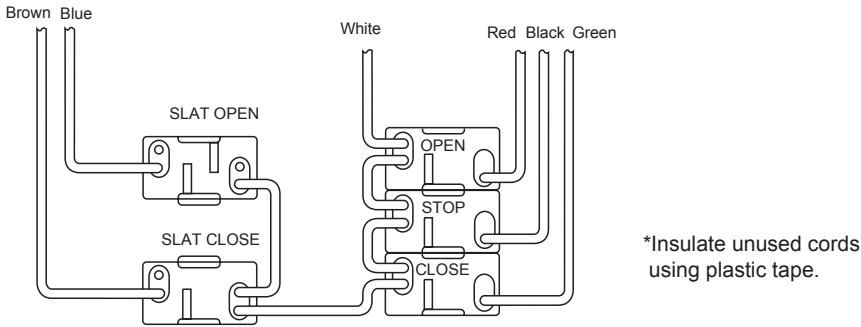


5-Button Switch

Switch used: TIOS-I Single Switch IB Inlay Type



Switch used:
MO Switch 3 Button Inlay A and MO Switch Plate 3 Button 1 Row
MO Switch 2 Button Inlay A and MO Switch Plate 2 Button 1 Row



Performance Check

1. Confirm wires if connected correctly.
2. Turn the power (100V) on.
3. Raise and lower the blind using a switch.

3-Button Switch

1. To raise blind : Press and hold down OPEN button.
2. To stop blind : Press STOP button.
3. To lower blind : Press and hold down CLOSE button.
4. To open (tilt) slats : Press OPEN button.

*After slats are opened fully, blind starts to rise.
*After slats are closed fully, blind starts to lower.

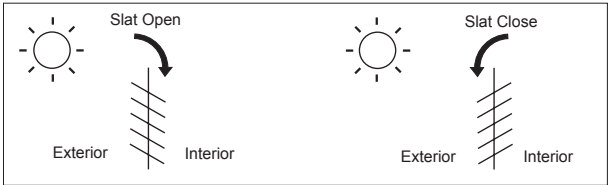
*Note: If you press CLOSE (or OPEN) button when the product is rising (or lowering), the product stops operating.

5-Button Switch (5-Button Switch or TIOS-I Single Switch IB)

*By pressing Slat Open/Close button, slat angle can be operated while the blind is rising (or lowering).

1. To raise blind : Press OPEN button
2. To stop blind : Press STOP button
3. To lower blind : Press CLOSE button
4. To open slats : Press SLAT OPEN button
5. To close slats : Press SLAT CLOSE button

*Note: If you press CLOSE (or OPEN) button when the product is rising (or lowering), the product stops operating.



Upper / Lower Limit Setting

For 3-Button and 5-Button Switches

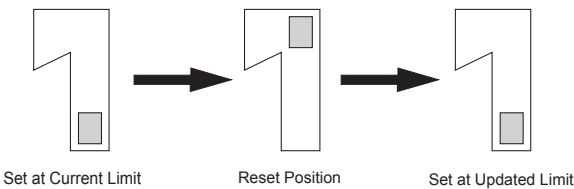
Upper Limit cannot be changed.

On the back of product Head Box, find a Limit Button covered by a sticker. Remove the sticker when changing the Lower Limit.

About Slat Angle
When changing the Lower Limit

A To set the Lower Limit at higher position than current

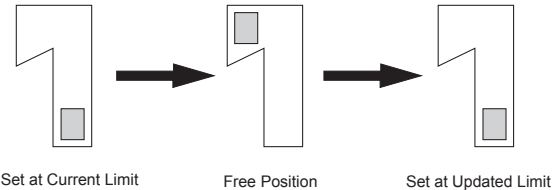
1. Using a switch, operate and stop at desired elevation.
2. Push the Limit Button into "Reset" position and release.
The Lower Limit is updated as new desired elevation.



B To set the Lower Limit at lower position than current

Note: A product is delivered with the Lower Limit preset at the lowest position. The Lower Limit cannot be changed from preset position.

1. Set the Limit Button at "Free" position.
2. Operate the blind using the switch and stop at desired elevation.
*If the blind stops by Obstacle, the Lower Limit is set at the stopped position.
3. Set the Limit Button at "Set" position.



ATTENTION

When the Lower Limit is at "Free" condition, note that the prior Lower Limit is no longer effective. Obstacle Stop functions for safety.

Troubleshooting

Condition	
Not operating	*Power is off. a. Check a circuit breaker box. b. Check if a plug is inserted into an outlet firmly. *Wiring Trouble a. Check if all wiring is done properly. b. Check if there are any disconnections of wires.
Lower Limit is not effective (Intest Type 3)	Check if the Limit Button is at "free" position. Set the Lower Limit at desired position.

Prodcut Specification

Component and Material

Component	Material/Coating
Head Box	Aluminum
Side Cover	Aluminum
Slat	Aluminum
Ladder Cord	Polyester/ Same as slat color
Elevation Cord	Polyester/ Gray
Bottom Rail	Coated Steel/ Same as slat color
Bottom Rail Cap	Flexible Polyethylene Transparent
Bracket	Cold-roll Steel / Glossy Chrome finish
Controller Cover	Polypropylene

Motor Specification

Power Source Voltage	V	AC100 (Angle)	AC100 (Elevation)
Rated Speed	r.p.m	10 (Angle)	21 (Elevation)
Rated Torque	Nm	0.03 (Angle)	3.0 (Elevation)
Time Rating	min.	Continuous(Angle)	5 (Elevation)

Controller Specification

Power Source Voltage	V	AC100
Frequency	Hz	50 / 60
Power Consumption	Operation	W less than 85W
	Not operating	W less than 8W
Operating Voltage	V	DC12
Operating Current	mA	less than 4
Operating Temperature	°C	0~50 (No Condensation)

Overall Product Height with Stacked Slats

H= Product Height (mm)

Intest ID 25	H x 0.03 + 117 (mm)
Intest ID 35	H x 0.03 + 122 (mm)
Intest ID 35 Blackout	H x 0.05 + 122 (mm)

Product Weight Figure

W= Product Width (mm) H= Product Height (mm)

Intest ID 25	$0.01 \times \frac{W}{1000} \times \frac{H-117}{21.3} + \frac{W}{500} + 3$ (kg)
Intest ID 35	$0.014 \times \frac{W}{1000} \times \frac{H-112}{31} + \frac{W}{500} + 3$ (kg)
Intest ID 35 Blackout	$0.014 \times \frac{W}{1000} \times \frac{H-112}{23.5} + \frac{W}{500} \times \frac{935+0.13W}{1000} + 3$ (kg)

Disposal of Package Material

1. Do not leave the package material at the installation site.
2. Dispose the package material according to local regulations.

TOSO Company, Limited.
Headquarters: Tokyo, Japan
Customer Service: Overseas Dept.
Phone: 81 - (0)297-20-5221
Visit our web site: www.toso.com