

TOSHIBA

Toshiba Kindmover-II Instruction Manual

Escalator

1	
2	
Table Of Contents	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	

18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

--

•

[Table of Contents](#)

•

Bookmarks

--

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Quick Links



TOSHIBA TE-S1 series escalator
Kindmover-II



TOSHIBA Instruction Manual

For Operation Management

Please read this instruction manual carefully before operation
for correct and safe use,
and keep the manual handy for future reference.

[Table of Contents](#)

[Next Page](#)

1
2
3
4
5

Summary of Contents for Toshiba Kindmover-II

[Page 1](#) TOSHIBA TE-S1 series escalator Kindmover-II Instruction Manual For Operation Management Please read this instruction manual carefully before operation for correct and safe use, and keep the manual handy for future reference.

[Page 2: Introduction](#)

Introduction Thank you very much for using TOSHIBA TE-S1 series escalator “Kindmover-II”. In order to ensure the escalator operates safely, maintenance is required. However, regular inspection by the operator on daily basis is necessary too. Please assign an operator, who is directly in-charge of the operation of escalators.

[Page 3: Table Of Contents](#)

Contents Introduction Definition of safety signSafety precautionsThe Safety Devices Name and function of escalator’s part ..Operating proceduresStart up Shut downHow to ride an escalator safelyDefinition of operating monitor’s / status indicator’s signs

[Page 4: Definition Of Safety Sign](#)

Definition of safety sign Understand the following safety signs and their meaning. These signs are very important to alert the operators and users about the hazardous actions or locations. Description of signs Sign Meaning of sign WARNING Indicates “If erroneously handled, person may die or be seriously injured* ”.

[Page 5: Safety Precautions](#)

Conduct regular and preventive maintenance. Perform daily inspection to avoid undesirable malfunction Conduct regular inspections and maintenance on or risk of accident. the escalators to detect and prevent problem before occurrence. Please contact Toshiba for further details. Daily check! Mandatory Mandatory Action Action ■...

[Page 6](#) Safety precautions The following precautions apply to the Owner and the Operator of escalators. WARNING ■ Ensure the escalators are free of passengers ■ Stop the escalator before cleaning and and/or object before starting and stopping it. maintenance (refer to page for how to stop).

[Page 7](#) Please guide passengers with the following instructions. WARNING ■ Do not get on the handrail and deck board. ■ Do not lean your body (body parts) out of the handrail, or lean against a handrail. This may cause undesirable injury and accident. This may cause undesirable injury and accident.

[Page 8](#) Safety precautions Please guide passengers with the following instructions. WARNING ■ Do not climb or walk on the deck board. ■ Do not use escalator in the event of a fire and/ or earthquake. This may lead to undesirable accident. This may lead to secondary accident.

[Page 9](#) Please guide passengers with the following instructions. WARNING ■ Escalators with a width of 1000 mm allow up to two passengers to stand on the same step (while those with a width of 600 mm and 800 mm allow only one passenger on the same step). Accident has higher possibility to occur on a crowded escalator, passengers should leave sufficient space between themselves.

[Page 10](#) Safety precautions Please guide passengers with the following instructions. CAUTION Do not sit on the steps. Do not take animals. ■ ■ It may cause serious injury. It may lead to undesirable accident. Prohibition Prohibition ■ Do not stop at the landing plate once getting ■...

[Page 11](#) Please guide passengers with the following instructions. CAUTION Be careful for not letting your stiletto heels to Do not ride the escalator with barefoot. ■ ■ be caught in between the escalator steps. This may lead to serious injury. Stiletto heels may stuck in between the grooves or comb, leading to undesirable accident.

[Page 12: The Safety Devices](#)

The Safety Devices The following safety devices are equipped in escalator. (It may not be equipped with specification.) 2 4 1 12 3 16,17 6,10, 7,14 18,19...

[Page 13](#) Device name Emergency stop button Handrail inlet safety device Skirt guard panel safety device Comb safety device Electric-circuit protection device Electromagnetic brake Broken drive chain detective device Step abnormality detection device Step sag detective device Motor overheat protection device Step missing detector Handrail speed monitoring device Fire shutter interlocking device Ratchet wheel...

[Page 14: Name And Function Of Escalator's Part](#)

Name and function of escalator's part Operation key Use to start up an escalator. The operation key should be keep by authorized person only. Handrail Operating monitor <Optional> Upper floor Step operating panel Accommodate and carry passengers. Yellow demarcation lines Skirt brush Deck board Front skirt...

[Page 15](#) Operating monitor <Optional> Lower floor operating panel Comb light <Optional> *About <Optional>, it may not be equipped with the specification at the time of delivery. Upper floor operating panel Lower floor operating panel STOP STOP Symbol Operation part name Explanation In case of emergency, stop the escalator immediately by Emergency stop button pressing this button.

[Page 16: Operating Procedures](#)

Operating procedures ■ Before starting or stopping the escalator operation, make sure that there are no passengers on the escalator, and that there are no objects placed on the escalator. Starting or stopping the escalator when there are passengers on the escalator could cause the passengers tumble down the steps, which may lead to death or serious injury.

[Page 17: Shut Down](#)

Operation key Use to start up an escalator. The operation key should be keep by authorized person only. Shut down Make sure that there are no passengers on After checking! the escalator. • If passenger is present, please wait for the person to get off from the escalator.

[Page 18: How To Ride An Escalator Safely](#)

How to ride an escalator safely Please also read the "Definition of Safety Sign" (refer to the page) and "Safety Precautions" (refer to the page 4 to 10) to the users via notice or announcements, etc. Please guide users directly, especially during rush hours. Always stand within the yellow demarcation line of the step.

[Page 19: Definition Of Operating Monitor's / Status Indicator's Signs](#)

Definition of operating monitor's / status indicator's signs Operating monitor indicates the moving direction of the Operating monitor Status indicator escalator before passengers get on an escalator. <Option> Status indicator displays a situation, when a safety device activated and escalator stops. Operates normally Displays the direction of movement Getting on port...

[Page 20: Safety Measures In Case Of Emergency](#)

Safety measures in case of emergency In case of emergency stop When the emergency stop button is pressed or a safety device had been activated, please follow the procedures stated below: Inspect the handrail inlet, front skirt, comb, step, skirt guard panel, etc.

[Page 21: Examples Of The Rescue Method](#)

Examples of the rescue method These rescue methods are examples. The rescue may be difficult depend on situation. In such cases, please seek for professional help. ■ When fingers are caught in Use tools (driver etc.) to help the the handrail inlet. victim to draw out his/her fingers from the handrail inlet.

[Page 22: Safety Measures In Case Of Disaster](#)

Safety measures in case of disaster In case of disaster, it is very important for the supervisors to assess the situation calmly, take action promptly, and always ensure user's safety. Here, we explain the procedures to be taken in times of disaster. In case of earthquake ■...

[Page 23: In Case Of Fire](#)

In case of fire ■ Please do not use the escalator in case of fire. Taking refuge on an escalator raises the potential of secondary accident. ■ When you suspend the escalator services, put up barricades to WARNING prevent people from climbing up or down escalators like staircases to prevent undesirable accident.

[Page 24: Power Outage Notification](#)

Safety measures in case of disaster Power outage notification ■ When you suspend the escalator services, put up barricades to prevent people from climbing up or down escalators like staircases WARNING to prevent undesirable accident. Otherwise, a trip or fall accident may occur. Notify users of the power outage via notice and announcement etc.

[Page 25: In Case Of Rainstorm](#)

In case of rainstorm ■ If water penetrates into the escalator due to heavy rain etc., please stop the escalator immediately (refer to page for how to stop). Continues the operation may lead to undesirable accident, if the equipment/parts have been soak in water, replacement may be required. WARNING ■...

[Page 26: Procedure For Daily Inspection](#)

Procedure for daily inspection ■ Please conduct daily inspections. WARNING Conduct regular inspections daily to prevent undesirable problem and accident. Please conduct the following inspection every day. If anything unusual occurs, please contact the maintenance service company. Please check the surrounding facility installation situation at the time of test runs and round checks. If the safety equipment is defi...

[Page 27](#) Inspection Content of inspection • Ensure there is no sign of abnormal sound. Operational status • Ensure there is no sign of abnormal vibration. • Ensure there is no sign of abnormal flaw. Handrail • Match the step speed. • Ensure there is no sign of abnormal vibration. •...

[Page 28: How To Clean And Maintain](#)

When the cleaned section is thoroughly dried, operate the escalator to expose remaining section and continue with the cleaning operation. *An example slide agent Toshiba Silicone emulsion TSM 630 <GE Toshiba Silicones Co., Ltd.> Comb / • Remove rubbish etc. with a vacuum cleaner.

[Page 29](#) • Please apply a slide agent* once or twice a month. (When a fluoro-resin coating skirt is used, please apply once every three months.) Skirt guard panel *An example slide agent Toshiba Silicone emulsion TSM 630 <GE Toshiba Silicones Co., Ltd.>...

[Page 30: Guidelines Of Maintenance And Operation For Escalators](#)

Guidelines of maintenance and operation for escalators ■ Please implement legal regular inspection and maintenance checks. The escalators should be inspected and maintained regularly to ensure the safe use of escalators and it is performance. Please consult with our company regarding to the inspection and maintenance. ■...

[Page 31](#) Memo...

[Page 32](#) Safety Cautions • Observance of relevant laws / regulations are required. • Read the entire "Instruction Manual" carefully before use, for important information about safety, handling and operation. 72-34, Horikawa-cho, Saiwai-ku, Kawasaki 212-8585, Japan PHONE: +81-44-331-7057 FAX: +81-44-548-9597 • The data given in this catalogue are subject to change without notice. •...

This manual is also suitable for:

Te-s1 series