

Model name:

TCB-SC643TLE

TCB-SC643TLE-TR





TCB-SC643TLE-ME

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Safety Precautions

- This section explains safety precautions you must follow in order to prevent harm to the user and other persons and damage to property.
- "Display Description" explains the classification of the degree of harm or damage that may occur if the unit is handled incorrectly, while "Symbol Description" indicates the meanings of symbols.






Display Description	Symbol Description
 WARNING Indicates "Content that is expected to result in death or serious injury (*1) to the user in the case of incorrect handling".	 ○ indicates prohibited actions. Specifically prohibited contents are indicated with a picture and/or text in or near the symbol.
 CAUTION Indicates "Content that is expected to result in minor injury (*2) to the user or damage to property (*3) in the case of incorrect handling".	 ● indicates instructions which must be followed. The actual contents of the instructions are indicated with a picture and/or text in or near the symbol.

* 1: Serious injury refers to lasting after effects such as blindness, injury, burns (high temperature / low temperature), electric shock, bone fracture, or poisoning, etc. and injuries that require hospitalization/long-term outpatient treatment.
 * 2: Minor injury refers to injuries, burns, or electric shocks, etc. that do not require hospitalization or long-term outpatient treatment.
 * 3: Damage to property refers to extended damage related to houses, household goods, livestock, or pets, etc.

DANGER

- 
Turning off the circuit-breaker
 - **Set the circuit-breaker to "OFF" before starting work**
Failing to do so may result in a high-voltage electric shock, leading to death or injury.
- 
Prohibited
 - **Do not turn on the circuit-breaker when the cover is removed**
Doing so may result in a high-voltage electric shock leading to death or injury.

WARNING

- 
Check earth connection
 - **Check that the earth wire (*) is connected to the unit earth terminal before beginning troubleshooting and repair work**
If the earth wire is not connected, there is the risk of electric shock in the event of an electric leakage occurring.
- 
Modification prohibited
 - **Do not modify the product**
Also, do not disassemble or modify the parts.
Doing so may cause fire, electric shock, or injury.
- 
Children must be kept away
 - **Only qualified engineers should be allowed on a troubleshooting or repair work site. Children and all other third parties must be kept away**
There is a risk of injury from tools or disassembled parts.
Inform the customer that children and other third parties must be kept away from the work site.
- 
Insulation
 - **After connecting a crimp terminal to a cut lead wire, place the closed-end facing up and clean it**
If connections are not properly processed, electrical leakage, ignition or other accident could occur on the customer's premises.
- 
Wiring Precautions During Assembly
 - **After repairs are complete, be sure to reassemble the disassembled parts and connect and route the wires to restore the equipment to its original state. Make sure internal wires are not trapped in the cabinets, panels, or other parts**
An assembly or wire connection problem may result in a short circuit, ignition or other accident on the customer's premises.



Insulation check

- **After the work is completed, be sure to test between the live and dead metal parts (earth terminal) with an insulation resistance tester (500 V) to confirm that the insulation resistance is 2 MΩ or higher**

A low insulation resistance value may result in a short circuit, electric shock or other accident on the customer's premises.



Risk of electric shock

- **If you have to inspect a circuit that is energized, for example, take precautions such as wearing rubber gloves to avoid direct contact with a live part**

Touching a live part may result in an electric shock.



Check after repair

- **Check that there are no abnormalities after completing the repair work**

Failure to perform this check may result in fire, electric shock, or injury.

Turn off the earth leakage breaker before performing an inspection.

- **After completing the repair work, perform a test run and check that there are no abnormalities such as smoke or unusual noise**

Failure to perform this check may result in fire or electric shock.

Perform a test run after installing the front panel and cabinets.



Repair and reinstallation work

- **Installation and reinstallation work should be performed by your vendor or a qualified electrician**

Attempting to carry out installation work on your own, and doing so incorrectly, may result in electric shock or fire.

1 Product Overview

This is an air conditioning control system for controlling and monitoring the operating conditions of air conditioners in a building. A single controller can control up to 64 indoor units in one to 10 zones that can be individually controlled and monitored. You can combine this system with a schedule timer to perform program operation of indoor units.

1-1. Key Features

Ventilation Setting Functions

You can control (start/stop ventilation, set ventilation mode or set ventilation fan speed) all linked heat exchange units.

Timer Operation Functions

You can use timer operation to set the time until operation stops or starts as required by the range of the area to be air conditioned.

Energy Save Mode Functions

You can save energy by setting 0%, 50% or Max. (%) as required by the range of the area to be air conditioned.

Remote Control Lock Functions

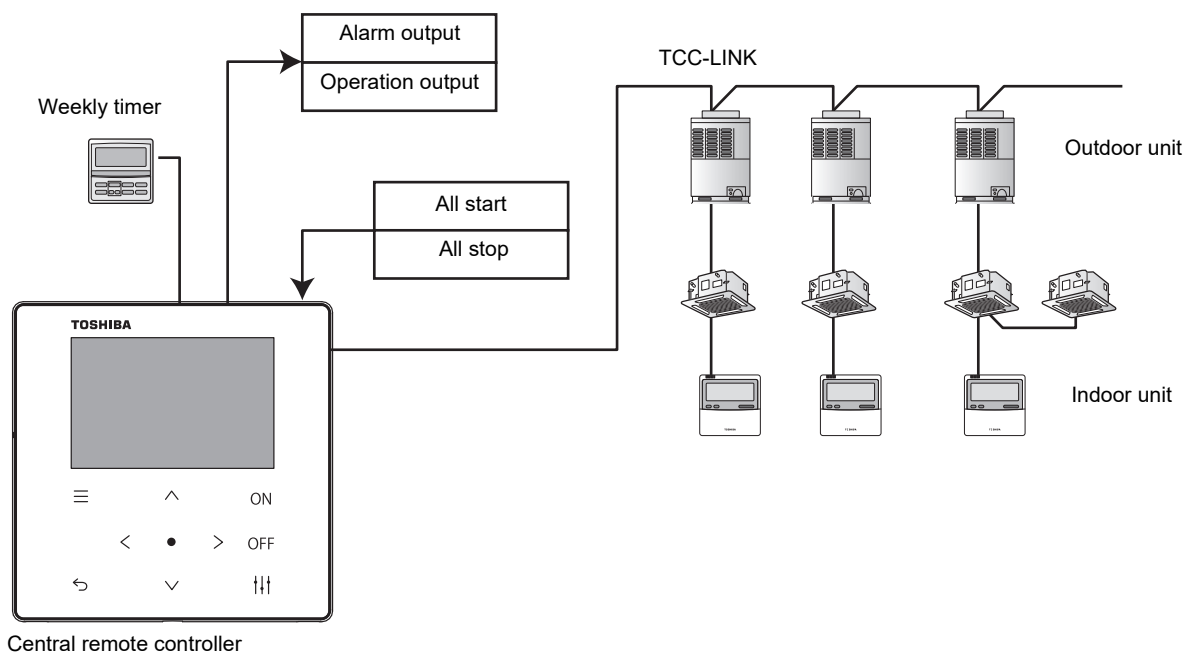
You can restrict button operation of the remote controls connected to each air conditioner as required by the set area range.

Setting Items	Functions that can be operated with the remote control		
	ON/OFF	Change Operation Mode	Change Temperature
All allowed	○	○	○
Centralized Control 1	×	○	○
Centralized Control 2	×	×	×
Centralized Control 3	○	×	×
Centralized Control 4	○	×	○

Device Information Display Functions

The machine's model No. and version information can be displayed.

2 System Configuration



System Equipment Configuration Table

Equipment name	Model name	Number of connected units	Remarks
Indoor unit	(Model with TCC-LINK)	Max. 64	Max. 64 units
Weekly timer	TCB-EXS21TL	Max. 1	Use the supplied cable to connect

2-1. Communication Specifications

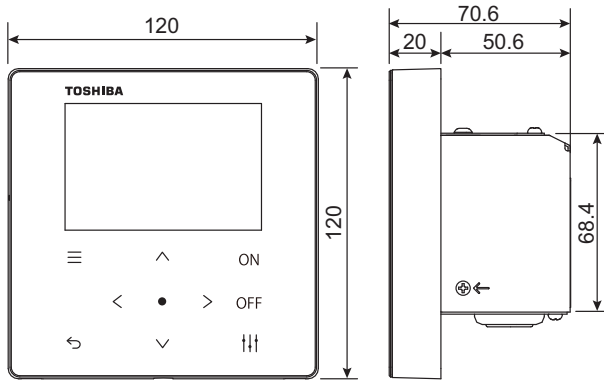
TCC-LINK	Topology	Bus
	Transmission medium	MVVS-1.25 mm ² /2.00 mm ²
	Transmission distance	Max. 1,000 m for 1.25 mm ² (AWG16) (total extended length) Max. 2,000 m for 2.00 mm ² (AWG14)
	Number of nodes	Max. 100 (Outdoor and indoor units)
	Transmission rate	9.6 kbps
	Polarity	No

3 Function List

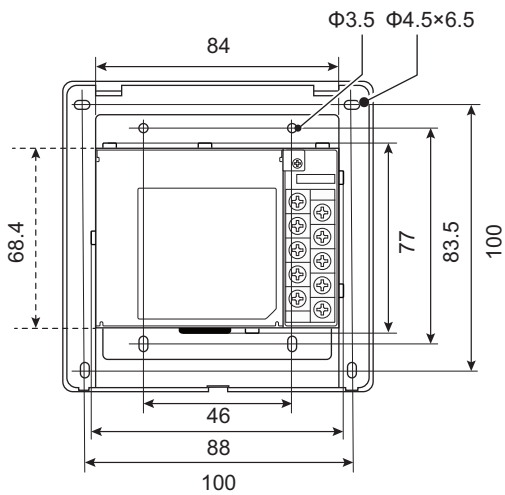
Functions		Description
Display item	ON or OFF	<input type="radio"/>
	Operation Mode	<input type="radio"/>
	Set Temperature	<input type="radio"/>
	Fan speed	<input type="radio"/>
	Flap	<input type="radio"/>
	FILTER Sign	<input type="radio"/>
	Room temperature	<input type="radio"/>
	Ventilation Operation	<input type="radio"/>
	Ventilation Mode	<input type="radio"/>
	Ventilation fan speed	<input type="radio"/>
	Alarm	<input type="radio"/>
	Save	<input type="radio"/>
	Alarm history	<input type="radio"/> (300 instances, displayed in the order they occur, no time data)
	Contact information	<input type="radio"/>
Operation item	ON or OFF	<input type="radio"/>
	Operation Mode	<input type="radio"/>
	Set Temperature	<input type="radio"/>
	Fan speed	<input type="radio"/>
	Flap	<input type="radio"/>
	Remote Control Lock	<input type="radio"/>
	Ventilation Operation	<input type="radio"/>
	Ventilation Mode	<input type="radio"/>
	Ventilation fan speed	<input type="radio"/>
	Filter Reset	<input type="radio"/>
	Save	<input type="radio"/>
Timer	On Timer	<input type="radio"/>
	Off Timer	<input type="radio"/>
Optional settings	Setting passwords	<input type="radio"/>
	Communication Conf.	<input type="radio"/>
External I/O	All start input	<input type="radio"/>
	All stop input	<input type="radio"/>
	Alarm output	<input type="radio"/>
	Operation output	<input type="radio"/> (contact output when more than one unit is on)

4 Product specifications

TCB-SC643TLE Central remote controller



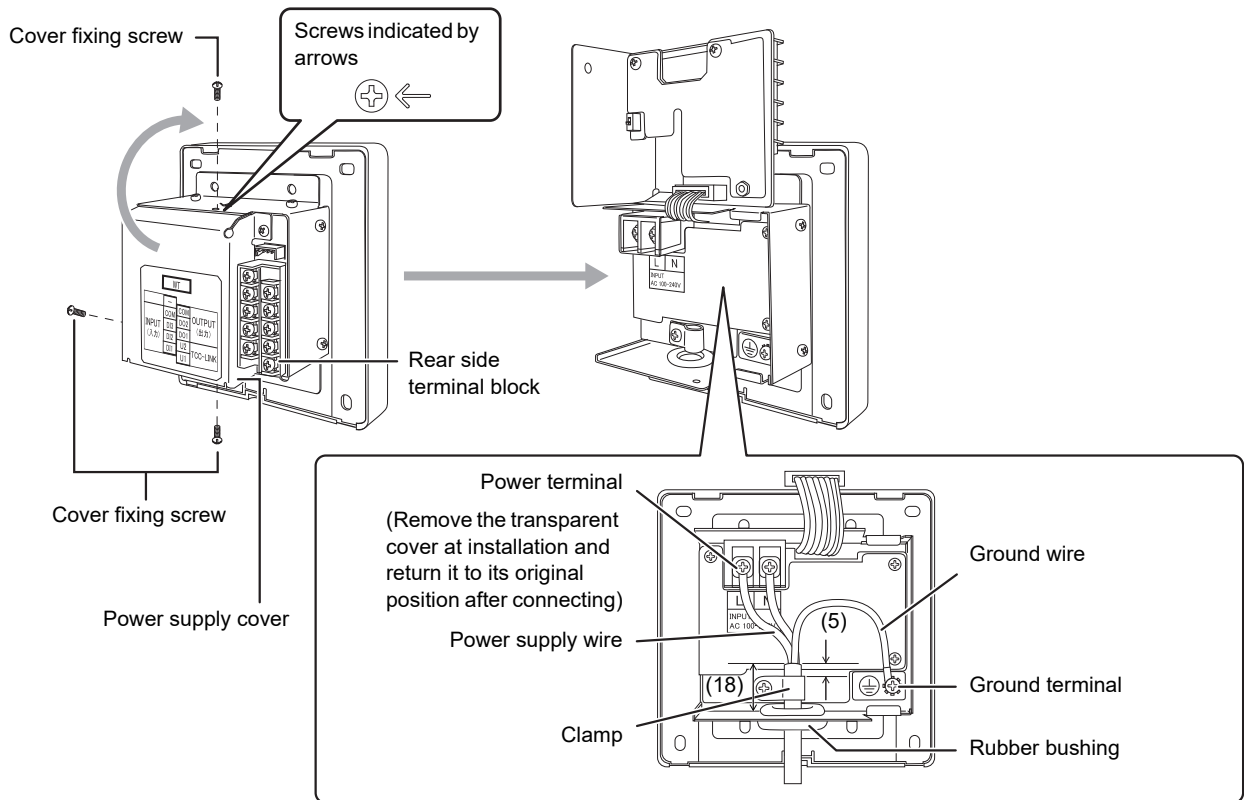
Power supply	220 - 240 V AC, 50/60 Hz
Current consumption	0.06 A
Operating temperature/humidity range	0 to 40 C°, 10 to 90% RH (no condensation)
External dimensions	120 (H) x 120 (W) x 70.6 (D) mm
Mass	0.55 kg



5 Power, signal and earth line connections

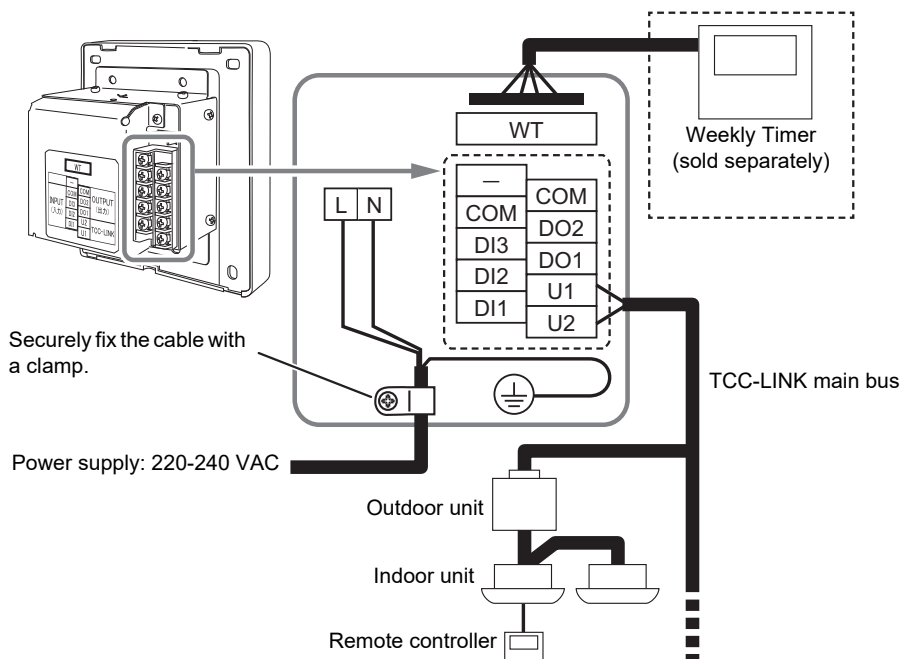
Connect the power supply wire to the ground wire

- (1) Remove the 3 screws pointed to by arrows and open the cover
- (2) Insert cross notches in the rubber bushing in order to pass the power supply cable
- (3) Pass the power supply cable through the rubber bushing and the clamp, and connect the power supply wire and the ground wire to the specified terminal block
- (4) Close the power supply cover and secure with 3 screws

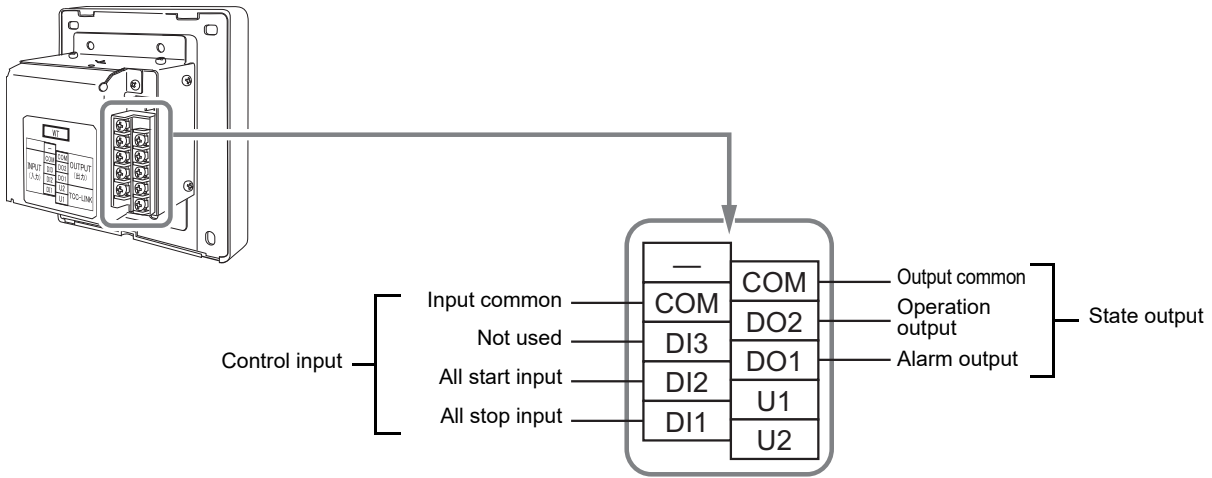


Connect the signal wires

- (1) Connect the TCC-LINK signal wire (U1/U2) to the terminal block
When connecting with an optional weekly timer, connect it to the WT connector.

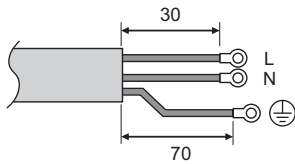


(2) Connect to external equipment (digital I/O signal wire)

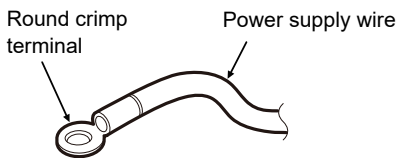


■ About stripping length

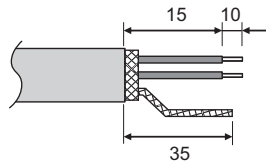
Power supply wire stripping length



Attach a round crimp terminal to each wire of the power supply wire.



Signal wire (TCC-LINK) stripping length

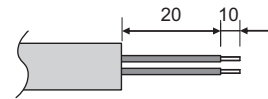


About the shield grounding process

Shield of TCC-LINK communication line

When using a single Central remote controller, open the shield of the TCC-LINK communication line and perform insulation processing.
 When using multiple Central remote controller, connect the shield of the TCC-LINK communication line to the closed end, open the shield at the final end of the Central remote controller and perform insulation processing.
 Perform TCC-LINK communication line shield grounding on the air conditioner side.

Digital I/O cable stripping length



About terminator resistor setting

TCC-LINK terminator resistor setting

Set on the air conditioner side. The TCC-LINK terminator resistor is not set in the Central remote controller. Leave "open".

■ Connection to external equipment

Name	I/O Item	This unit side			Equipment side	
		I/O conditions	Circuit	Terminal name	Circuit example	I/O conditions
Digital I/O terminal	State output	Alarm output Run output No-voltage contact A Static Contact permissible voltage/current 24 VDC/35 mA		Alarm Run Output common		
	Control input	All stop input All start input No-voltage contact A Pulse or static No-voltage contact compatible with very small current must be selected 5 VDC/3 mA		All stop (+) All start (+) Input common (-) COM		Pulse width: 300 ms or more

* Wire the cables so that the user does not touch the power supply directly.

* On the equipment side, use a basically insulated power circuit and place it in a location where the user cannot touch it.

NOTE

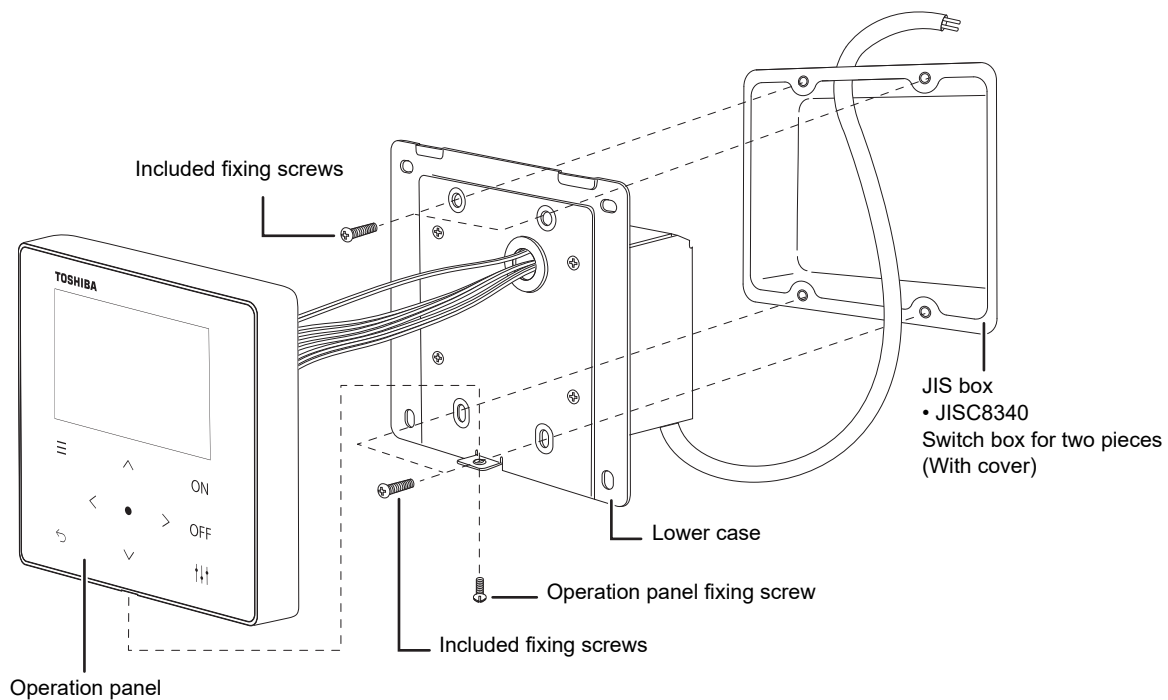
- Do not connect the device directly to the primary side of the power supply.
Be sure to install a circuit breaker or all-pole isolating switch (with a contact breaking distance of at least 3 mm) on the primary side of the power supply.
- Fasten the screws to the terminal with torque of 0.5 N•m.

6 How to install

CAUTION

- Do not wire communication lines (outdoor/indoor transition wiring, central control line wiring) or input/output wiring next to power supply wiring, etc., or house them in the same metal pipe. Doing so may result in failure.
- Install the Central remote controller away from noise sources.
- If noise is induced in the unit power supply, measures such as attaching a noise filter are necessary.

- (1) Remove one operating part panel fixing screw and open the operating part panel
- (2) Attach the lower case to the JIS box embedded in the wall in advance with the four included fixing screws
- (3) Close the operating part panel and attach it with one operation part panel fixing screw



NOTE

When attaching to a metal lath, wire lath or metal board wooden structure, attach it to the control panel, etc. without attaching it to the wall.

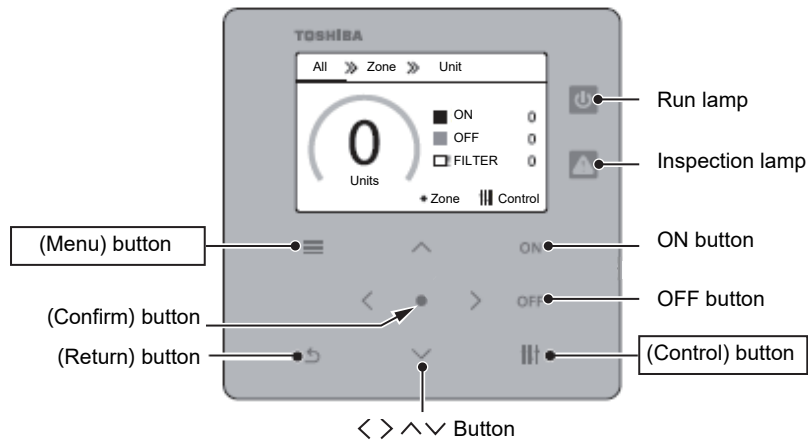
Do not install in the following locations.

- Locations with high humidity or water
- Dusty locations
- Locations in direct sunlight and locations subject to high temperatures
- Locations within 1 m from televisions or radios
- Outdoors, under awnings, or other locations exposed to rain and dew

7 Centralized controller test run

- Before use, please follow the procedure below to configure the settings.
This makes it possible to monitor and operate air conditioners with the Unit.

"All" screen example



1 Turn on the power of all air conditioners

- Indoor unit, outdoor unit, air to air heat exchanger, general-purpose equipment control interface, etc.

2 Turn on the power of the centralized controller

- It is necessary to allocate a central control address to the indoor units to be controlled.

<Preparation for central control address setting>

- A centralized controller or a wired remote controller is required to set the central control address.
- Configure the central control address setting after completing the air conditioner test run.
- * When configuring various settings with the centralized controller, it is necessary to first complete initial communication with all connected indoor/outdoor units. Perform the setting work at least 10 minutes after turning on the power.

NOTE

If you configure the central control address setting before initial communication is fully completed, units with no set address will be generated.

- Connect the U1 and U2 terminals in the outdoor unit (center unit) and the relay connectors of the U3 and U4 terminals.
- Leave only one SW30 - 2 (terminator resistor) in the outdoor unit (center unit) interface board ON, and turn OFF all others. (For the position of SW30, refer to the wiring diagram attached to the outdoor unit.)

3 Register an indoor unit in the Unit

On the "All" screen, press the [≡] button and the [↑↓] button at the same time for 4 seconds or more to enter "Servicing Menu".

Perform "Obtain Address (P.15-8-(1) to (3))" of "Address Settings". After performing "Obtain Address (P.15-8-(3))", check whether there are any mistakes in the displayed number of connected units, the Outdoor line No.-indoor address, or the central control address (*1) and then perform "Obtain Address (P.15-8-(6))".

- *1 If there is a mistake
- Check the power supply and wiring.
 - To change the address, use the remote controller or the Unit (P.15-8-(4) to (5)).
 - Redo the settings in this section (3.Register an indoor unit in the Unit) from the beginning.

4 Allocate the indoor units registered in 3 to up to 10 zones

Perform "Zone Settings (P.16-9-(2) to (4))" of "Servicing Menu".

Return to the "All" screen and check whether the displayed number of units matches the number of units that were registered to the zones (*2).

- *2 Indoor units that have not been registered to a zone are not included in the number of units on the "All" screen.

5 Operation confirmation

Confirm that the indoor units operate from the centralized controller.

Also, check whether the operation of the local remote control is reflected in the centralized controller.

This completes the test run of the controller.

For other detailed settings, please refer to "Installation Manual" as necessary.

Example of the Obtain Address screen

Line address		Indoor address		Central control address	
Address Settings (1/1) ● Confirm					
01-00	1	01-02	2	01-03	3
02-01	4	02-02	5	02-03	6
02-04	7	03-01	8	03-02	9
03-03	10	03-04	11	03-05	12
04-01	13	04-02	14	04-03	15

Example of the Zone Settings screen

Zone No.	
Zone Settings (1/1) ● Confirm	
01-01	1
02-01	1
02-04	1
03-03	1
04-01	1

8 Obtain Address

- (1) Display the "Address Settings" screen
- (2) Press [▲] and [▼] to select "1. Obtain Address", then press [●] (Confirm)

The "Obtain Address" confirmation screen appears.

- (3) Press [▲] and [▼] to select "Yes", then press [●] (Confirm)

"Obtaining address... ⌚" appears, and the "List of equipment" screen appears when address acquisition is completed.

Acquiring an address may take several minutes.

Address Settings (1/1)				● Confirm
01-01	1	01-02	1	01-03 3
02-01		02-02		02-03
02-04		03-01		03-02
03-03	10	03-04		03-05
04-01		04-02		04-03

- Select "No" and press [●] (Confirm) to return to the "Servicing Menu" screen.
- Press [↵] (Return) to return to the "Servicing Menu" screen.

- (4) Press [◀] [▲] [▼] [▶] to select a piece of equipment, then press [●] (Confirm)

The "Address list" screen appears.

01-01										● Confirm
0	1	2	3	4	5	6	7	8	9	
0	10	11	12	13	14	15	16	17	18	
0	19	20	21	22	23	24	25	26	27	
0	28	29	30	31	32	33	34	35	36	
0	37	38	39	40	41	42	43	44	45	

- In the screen, black is "cursor" and grey is "assigned address".

- (5) Press [◀] [▲] [▼] [▶] to select an address, then press [●] (Confirm)

The "Address list" screen closes and the "List of equipment" screen appears.

- (6) To confirm the displayed address, press [↵] (Return)

The confirmation screen appears.

Confirm this address?

Yes

No

- (7) Press [▲] and [▼] to select "Yes", then press [●] (Confirm)

"Registering the address... ⌚" appears, and when address registration is completed, the "List of equipment" screen appears.

- If you select "No" and press [●] (Confirm), the display returns to the "Servicing Menu" screen without registering the address.

- (8) Confirm that the set address has been changed, then press [↵] (Return)

- (9) Press [▲] and [▼] to select "Yes", then press [●] (Confirm)

This machine restarts and address acquisition ends.

Associated functions

Address acquisition method switching

- When connecting custom device to a 29 to 30 system, set SW24-7 of "Communication Conf. (P17)" to "0", and switch the address acquisition method to "Complete Search of 29 to 31 Outdoor line Indoor unit Only" to acquire the address.
- When connecting custom-designed equipment to a 1 to 30 system, set SW24-7 of "Communication Conf. (P17)" to "1", and switch the address acquisition method to "Complete Search of All Systems Indoor Equipment" to acquire the address.
- * It may take about 20 minutes when setting SW24-7 to "1" to acquire an address.

Auto registration in zones

- When acquiring an address at initial start-up, the connected air conditioners will all automatically register in zone 1.
- If you are acquiring an address when the zone setting of all air conditioners is still not set, the connected air conditioners will all automatically be registered to zone 1.

NOTE

It cannot be operated normally when the address is changed with a Local remote control or when the wrong centralized control address is registered to a centralized controller. Re-acquire the address.

9 Zone settings

- (1) Display the "Servicing Menu" screen
- (2) Press [^] and [v] to select "2. Zone Settings", then press [●] (Confirm)

The "List of equipment" screen appears.

Zone Settings (1/1)				● Confirm
01-01	1	01-02	1	01-03
02-01		02-02		02-03 1
02-04	10	03-01		03-02
03-03		03-04	2	03-05
04-01		04-02		04-03

- (3) Press [<] [^] [v] [>] to select a piece of equipment, then press [●] (Confirm)

The "Zone list" screen appears.

Zone Settings (1/1)				● Confirm
01-01	1	01-02	1	01-03
02-01		02-02		02-03 1
02-04	10	03-01		03-02
03-03		03-04	2	03-05
04-01		04-02		04-03

01-01 01				
1	2	3	4	5
6	7	8	9	10
Del		● Confirm		

- (4) Press [<] [^] [v] [>] to select a zone, then press [●] (Confirm)

The zone is set and the display returns to the "List of equipment" screen.

- The registered zone is deleted by selecting "Del" with [v] and pressing [●] (OK).
- Press [↵] (Return) to return to the "Servicing Menu" screen.

■ Procedure for deleting all zones

- (1) Display the "Servicing Menu" screen
- (2) Press [^] and [v] to select "2. Zone Settings", then press [●] (Confirm)

The "List of equipment" screen appears.

Zone Settings (1/1)				● Confirm
01-01	1	01-02	1	01-03
02-01		02-02		02-03 1
02-04	10	03-01		03-02
03-03		03-04	2	03-05
04-01		04-02		04-03

- (3) From the "List of Equipment" screen, press and hold [^][v] and [↑][↓] simultaneously for at least 4 seconds.

The "Delete zone setting" confirmation screen appears.

Delete zone setting	
Delete all. Is it OK?	
Yes	
No	

- (4) Press [^] and [v] to select "Yes", then press [●] (Confirm)

- "It has been deleted." is displayed, and when you press [↵] (Return), you will return to the "List of Equipment" screen.

10 Communication Conf.

(1) Display the "Communication Conf." screen

The "Communication Conf." screen appears.

Default screen

Communication Conf.	
No	1234 5678
SW23	0000 0000
SW24	0000 0000
SW25	0010 0000
0: OFF 1: ON	

SW23

0000 0000

Controlled unit number
Header unit switching (1)
0 = Header unit
1 = Follower unit

Controlled unit number mode switching
(2)(3)(4)(5)
0000 = All groups
1000 = Groups 1 to 16
0100 = Groups 17 to 32
0010 = Groups 33 to 48
0001 = Groups 49 to 64

SW24

0000 0000

Controlled unit number
mode switching (4)
0 = All groups
1 = Assigned groups

Weekly timer input switching (1)(2)(3)
See the table on the next page

Address acquisition method switching (7)
0 = Complete Search of 29 to 31 Outdoor line
Indoor unit Only
1 = Complete Search of All Outdoor line Indoor
unit

SW25

0010 0000

Operating the key lock at power fail recovery (3)
0 = Cancel restricted state
1 = Continue restricted state

(2) Press [◀] [^] [v] [▶] to select the SW number, then press [◀] [^] [v] [▶] to set SW

- Press [^] and [v] to change the number.

(3) Press [●] (Confirm)

The data is confirmed and the display returns to the "Servicing Menu" screen.

NOTE

See the table on the next page for Communication Conf. details.

**Central remote controller header/
follower switching**

	SW23
	1
Header	0
Follower	1

**Controlled unit number
mode switching**

	SW23				SW24
	2	3	4	5	4
All groups	0	0	0	0	0
Groups 1 to 16	1	0	0	0	1
Groups 17 to 32	0	1	0	0	1
Groups 33 to 48	0	0	1	0	1
Groups 49 to 64	0	0	0	1	1

Weekly timer input switching

		SW24		
Timer OFF→ON	Timer ON→OFF	1	2	3
All start	All stop	0	0	0
No change	All stop	1	0	0
Permitted all indoor unit operation by using RCU	All indoor units are centralized 1	0	1	0
	All stop and all indoor units are centralized 1	1	1	0
	All indoor units are centralized 2	0	0	1
	All stop and all indoor units are centralized 2	1	0	1

Address acquisition method switching

	SW24
	7
Complete Search of 29 to 31 System Indoor Equipment Only	0
Complete Search of All Systems Indoor Equipment	1

**Operating the remote-controlled lock at
power fail recovery**

	SW25
	3
Cancel restricted state	0
Continue restricted state	1

11 Troubleshooting

Code indication

Air conditioner errors and system errors detected by the Central remote controller displayed on the Central remote controller LCD screen.

Check code	Alarm Content	Action
C 06	Errors in air conditioner communications	Check TCC-LINK communications
Error codes other than above	Errors detected in the air conditioners	Check the air conditioners

11-1. Problems that prevent connections

■ Operating conditions do not match remote controller status.

No.	Cause	Support
1	Setting error	<p>Check that the addresses recognized by the centralized controller and the addresses set for the air conditioners match.</p> <p>Use the UNIT button on the local remote control to confirm an air conditioner address.</p> <p>Correct the air conditioner address or the Central remote controller.</p>

■ The displayed order of the air conditioners is strange.

No.	Cause	Support
1	Setting error	<p>The displayed order of the air conditioners is the ascending order of centralized control addresses set for the air conditioners.</p> <p>Change the centralized control address to the order you want to display.</p>

■ The acquired temperature is incorrect.

No.	Cause	Support
1	The acquired temperature is the temperature of intake air that has been modified for room temperature control.	Since the correction amount varies with operation mode (Cool, Heat), it may differ from the actual room temperature.

11-2. Other Problems

■ Local remote control does not work.

No.	Cause	Support
1	The key lock is set.	Check that the "Key lock" is set with the centralized controller. If you want to cancel it, change the "Key lock" setting to "All allowed" with the centralized controller.

■ Air conditioners do not operate according to made settings (for example, on/off). Settings are restored to the previous ones over time.

No.	Cause	Support
1	Communication with the air conditioners is not normal.	Check whether a communication error with the air conditioners was detected.
2	The indoor unit is set as a follower.	Change the setting so that the air conditioner header settings match.
3	Setting the temperature range for air conditioners	Temperatures set outside of the set temperature range are set to the high limit or low limit within the set temperature range.
4	The address was changed with the remote control or the wrong centralized control address was set by the centralized controller.	Re-acquire the address and reset the address to the correct one.

■ Set temperature changes erratically.

No.	Cause	Support
1	The set temperature has been changed from the local remote control or another controller.	Check whether the air conditioner has been operated from the local remote control or another controller.

■ An alarm code apart from C06 is displayed in the air conditioning control system screen.

No.	Cause	Support
1	Alarms detected in the air conditioners	Check the error indicator on the remote control or SMMS series outdoor unit board. Identify the failure location or check the components and wiring as described in the maintenance guide for the specific air conditioner.

11-3. Installation Problems

■ The controller LCD Screen Display is incorrect.

No.	Cause	Support
1	All air conditioners are not connected or are not turned on.	When an attempt is made to obtain an address and it is not possible to communicate with a single air conditioner, the message "No connected indoor unit" is displayed. Check the power supply of the air conditioners or communication wiring.

11-4. Function Inquiries

No.	Questions	Answers
1	How many air conditioner units can be connected?	Up to 64 units can be connected.
2	How many air conditioner units can the Central remote controller connect?	A total of 10 central control devices can be connected to one TCC-LINK line. A central control device is a Central remote controller, schedule timer or ON-OFF controller.
3	Is it possible to turn on and off lights, ventilators, and air conditioners from other manufacturers?	If they are connected to a general-purpose device control interface, it is possible.
4	Is it possible to use a schedule timer with this system?	Yes.
5	Is it possible to use a touch panel air conditioning control system with this system?	Yes. But a check is required.
6	Is it possible to use a BACnet system with this system?	Yes. But a check is required.
7	Is it possible to use a LONwork system with this system?	Yes. But a check is required.
8	Is it possible to use a remote monitoring system in conjunction with this system?	Yes. But a check is required.
9	Is it possible to connect AI-NETwork series devices?	No. Use an air conditioning control system that supports the AI-NET work series.
10	Is it possible to change zone names and other names?	Use the "Setting menu" to change a zone name.
11	How many characters can be used for zone names and other names?	7 bytes for zone names (7 single-byte characters or 3 double-byte characters)
12	Up to how many items are saved in the alarm history?	Up to 300 instances. The 301 instance and subsequent instances are saved by deleting old history instances starting in order from the oldest.
13	Can the alarm history be deleted?	When [^]+[V]+[↑↓] are pressed and held down for 4 seconds simultaneously in the alarm history display screen, the confirmation screen is displayed and it can be deleted.
14	Is a special operation required to turn off the Central remote controller?	No.
15	Does turning off the power to the Central remote controller also turn off the air conditioners?	Air conditioners connected to a local remote control or wireless adapter are not turned off when the Central remote controller is turned off. Air conditioners not connected to a local remote control or wireless adapter are turned off.
16	Is it possible to stop all indoor-units at once?	Yes. Use the All screen to stop operation. Use the Central remote controller to make an All stop external input.
17	Is it possible to monitor the operation status of the outdoor units?	No.
18	Is there a priority order for setting air conditioner operations?	A latter setting overrides a former setting.
19	Is it possible to connect indoor units without local remote control?	Yes.
20	I have forgotten the administrator password.	When [↶]+[^]+[V] are pressed for at least 4 seconds simultaneously in the "All" screen, the "Initialize admin. password" confirmation screen is displayed, and then it can be reset. The password after resetting will be "0000". Reset the password to a password of your choice on the setting menu.
21	I want to check the software version.	Press [↑↓] in the control screen to display the menu. It can be confirmed on the "Information" in "Model information".

12 Check Point

12-1. TCC-LINK wiring

No.	Points to check
1	Check that the wiring is connected to the TCC-LINK terminal block on the Central remote controller.
2	Turn off switch DS1 on the Central remote controller termination resistor and confirm that resistance between U1/U3 and U2/U4 on the TCC-LINK terminal block is the termination resistance (about 100 Ω). This confirmation makes it possible to determine that the wiring up to the system that set the terminal resistance is correct.
3	Check that a relay connector is connected between the U1U2 and U3U4 terminals on all centre units of the SMMS series of outdoor units.
4	When custom device has been connected, check that the TCC-LINK adapter is connected to the base unit of the indoor unit.

12-2. End-to-end test

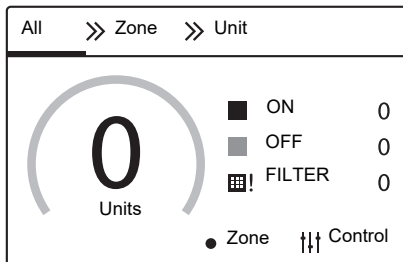
No.	Points to check
1	Perform setting operations and display check separately on the controller and local remote control.
2	Before starting the check procedure, determine the order of the air conditioners to be checked and the check procedure with the customer.
3	Check 1: Check that the unit name and operation status are identical on both the controller and the local remote control.
4	Check 2: Check that you can change local remote control settings using the controller.
5	Check 3: Restore the settings on the local remote control and check that the settings on the controller have changed.
6	Check the next air conditioner.

12-3. Method for identifying problem location when a C06 (reception errors of the TCC-LINK central control device) occurs

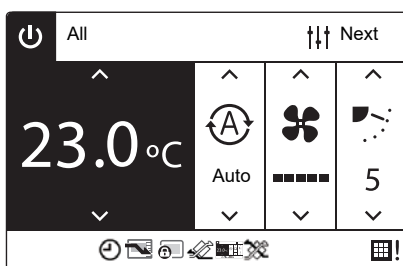
No.	Points to check			
1	Check whether an E04 (communication circuit error between indoor and outdoor units) has occurred in the local remote controller.			
	Error message			
	<table border="1"> <tbody> <tr> <td>(When E04)</td> <td> <ul style="list-style-type: none"> • Problem location: TCC-LINK wiring • Action: Check connections by outdoor system unit to identify the problem location (outdoor system). </td> </tr> <tr> <td>(When not E04)</td> <td> <ul style="list-style-type: none"> • Problem location: TCC-LINK wiring between outdoor unit and controller • Action: Check the following items. </td> </tr> </tbody> </table>	(When E04)	<ul style="list-style-type: none"> • Problem location: TCC-LINK wiring • Action: Check connections by outdoor system unit to identify the problem location (outdoor system). 	(When not E04)
(When E04)	<ul style="list-style-type: none"> • Problem location: TCC-LINK wiring • Action: Check connections by outdoor system unit to identify the problem location (outdoor system). 			
(When not E04)	<ul style="list-style-type: none"> • Problem location: TCC-LINK wiring between outdoor unit and controller • Action: Check the following items. 			
2	Check whether the C06 occurrence affects all air conditioners or only some of them.			
	Error message			
	<table border="1"> <tbody> <tr> <td>(When some of the air conditioners are affected)</td> <td> <ul style="list-style-type: none"> • Problem location: TCC-LINK wiring on the air conditioner side • Action: Use C06 problem location and wiring working diagram to identify the problem location to check wiring connection status and perform continuity check of communication wiring. </td> </tr> <tr> <td>(For all air conditioners)</td> <td> <ul style="list-style-type: none"> • Problem location: TCC-LINK wiring on the controller side • Action: Check the continuity of the communication wiring. </td> </tr> </tbody> </table>	(When some of the air conditioners are affected)	<ul style="list-style-type: none"> • Problem location: TCC-LINK wiring on the air conditioner side • Action: Use C06 problem location and wiring working diagram to identify the problem location to check wiring connection status and perform continuity check of communication wiring. 	(For all air conditioners)
(When some of the air conditioners are affected)	<ul style="list-style-type: none"> • Problem location: TCC-LINK wiring on the air conditioner side • Action: Use C06 problem location and wiring working diagram to identify the problem location to check wiring connection status and perform continuity check of communication wiring. 			
(For all air conditioners)	<ul style="list-style-type: none"> • Problem location: TCC-LINK wiring on the controller side • Action: Check the continuity of the communication wiring. 			

13 Confirming the software version

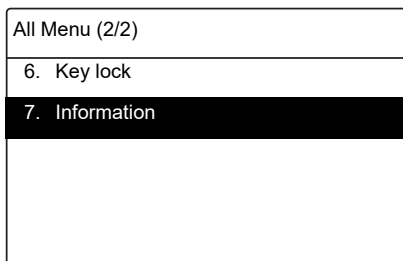
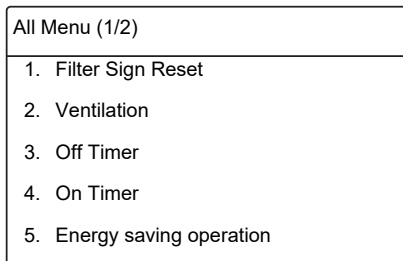
(1) Display the "All" screen



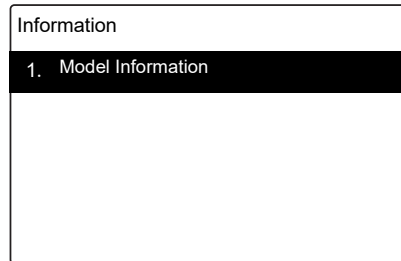
(2) Press [↑↑↑] (Control) in the "All" screen
The "Control" screen appears.



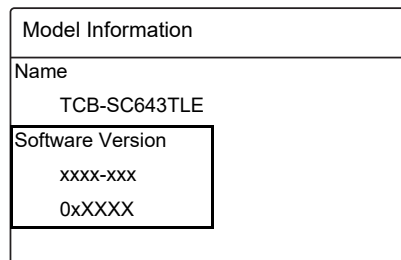
(3) Press [↑↑↑] (Control) in the "Control" screen
The "All Menu" screen appears.



(4) Press [^] and [v] to select "7. Information", then press [●] (Confirm)
The "Information" screen appears.



(5) Press [^] and [v] to select "1. Model Information", then press [●] (Confirm)
The "Model Information" screen appears.



(6) The model name and software version can be confirmed.

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