

EN INSTALLATION AND OPERATION MANUAL

ES MANUAL DE INSTALACIÓN Y FUNCIONAMIENTO

DE INSTALLATIONS- UND BETRIEBSHANDBUCH

FR MANUEL D'INSTALLATION ET DE FONCTIONNEMENT

IT MANUALE D'INSTALLAZIONE E D'USO

PT MANUAL DE INSTALAÇÃO E DE FUNCIONAMENTO

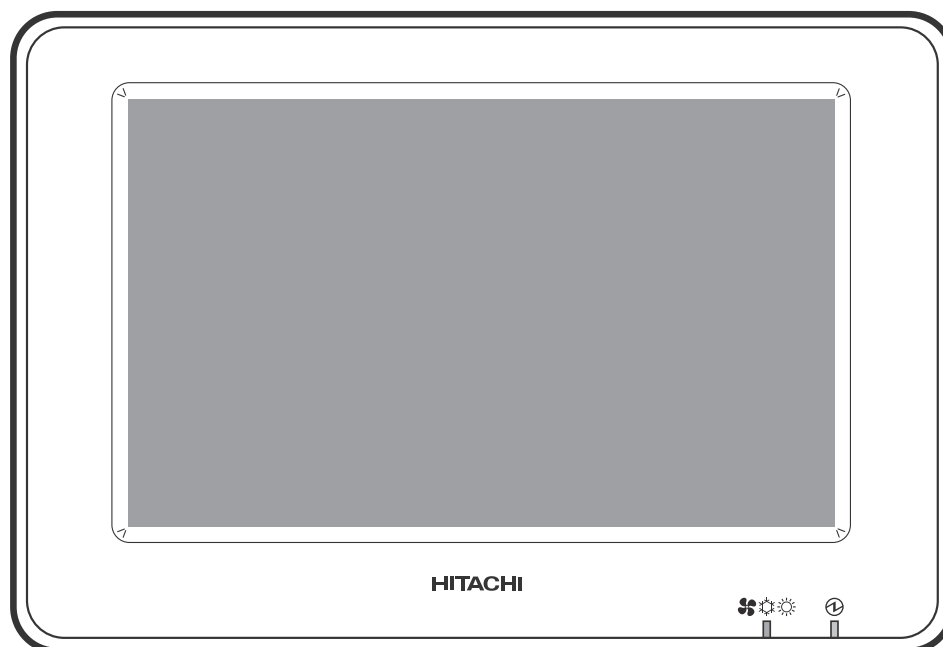
DA BRUGER- OG MONTERINGSVEJLEDNING

NL INSTALLATIE- EN BEDIENINGSHANDLEIDING

SV HANDBOK FÖR INSTALLATION OCH ANVÄNDING

EL ΕΓΧΕΙΡΙΔΙΟ ΕΓΚΑΤΑΣΤΑΣΗΣ ΚΑΙ ΛΕΙΤΟΥΡΓΙΑΣ

## CENTRAL STATION EZ PSC-A64GT





## EN

Specifications in this manual are subject to change without notice in order that HITACHI may bring the latest innovations to their customers.

Whilst every effort is made to ensure that all specifications are correct, printing errors are beyond Hitachi's control; Hitachi cannot be held responsible for these errors.

## ES

Las especificaciones de este manual están sujetas a cambios sin previo aviso a fin de que HITACHI pueda ofrecer las últimas innovaciones a sus clientes.

A pesar de que se hacen todos los esfuerzos posibles para asegurarse de que las especificaciones sean correctas, los errores de impresión están fuera del control de HITACHI, a quien no se hará responsable de ellos.

## DE

Bei den technischen Angaben in diesem Handbuch sind Änderungen vorbehalten, damit HITACHI seinen Kunden die jeweils neuesten Innovationen präsentieren kann.

Sämtliche Anstrengungen wurden unternommen, um sicherzustellen, dass alle technischen Informationen ohne Fehler veröffentlicht worden sind. Für Druckfehler kann HITACHI jedoch keine Verantwortung übernehmen, da sie außerhalb ihrer Kontrolle liegen.

## FR

Les caractéristiques publiées dans ce manuel peuvent être modifiées sans préavis, HITACHI souhaitant pouvoir toujours offrir à ses clients les dernières innovations.

Bien que tous les efforts sont faits pour assurer l'exactitude des caractéristiques, les erreurs d'impression sont hors du contrôle de HITACHI qui ne pourrait en être tenu responsable.

## IT

Le specifiche di questo manuale sono soggette a modifica senza preavviso affinché HITACHI possa offrire ai propri clienti le ultime novità.

Sebbene sia stata posta la massima cura nel garantire la correttezza dei dati, HITACHI non è responsabile per eventuali errori di stampa che esulano dal proprio controllo.

## PT

As especificações apresentadas neste manual estão sujeitas a alterações sem aviso prévio, de modo a que a HITACHI possa oferecer aos seus clientes, da forma mais expedita possível, as inovações mais recentes.

Apesar de serem feitos todos os esforços para assegurar que todas as especificações apresentadas são correctas, quaisquer erros de impressão estão fora do controlo da HITACHI, que não pode ser responsabilizada por estes erros eventuais.

## DA

Specifikationerne i denne vejledning kan ændres uden varsel, for at HITACHI kan bringe de nyeste innovationer ud til kunderne. På trods af alle anstrengelser for at sikre at alle specifikationerne er korrekte, har Hitachi ikke kontrol over trykfejl, og Hitachi kan ikke holdes ansvarlig herfor.

## NL

De specificaties in deze handleiding kunnen worden gewijzigd zonder verdere kennisgeving zodat HITACHI zijn klanten kan voorzien van de nieuwste innovaties.

Iedere poging wordt ondernomen om te zorgen dat alle specificaties juist zijn. Voorkomende drukfouten kunnen echter niet door Hitachi worden gecontroleerd, waardoor Hitachi niet aansprakelijk kan worden gesteld voor deze fouten.

## SV

Specifikationerna i den här handboken kan ändras utan föregående meddelande för att HITACHI ska kunna leverera de senaste innovationerna till kunderna.

Vi på Hitachi gör allt vi kan för att se till att alla specifikationer stämmer, men vi har ingen kontroll över tryckfel och kan därför inte hållas ansvariga för den typen av fel.

## EL

Οι προδιαγραφές του εγχειριδίου μπορούν να αλλάξουν χωρίς προειδοποίηση, προκειμένου η HITACHI να παρέχει τις τελευταίες καινοτομίες στους πελάτες της.

Αν και έχει γίνει κάθε προσπάθεια προκειμένου να εξασφαλιστεί ότι οι προδιαγραφές είναι σωστές, η Hitachi δεν μπορεί να ελέγξει τα τυπογραφικά λάθη και, ως εκ τούτου, δεν φέρει καμία ευθύνη για αυτά τα λάθη.



#### CAUTION

This product shall not be mixed with general house waste at the end of its life and it shall be retired according to the appropriated local or national regulations in a environmentally correct way.

Due to the refrigerant, oil and other components contained in Air Conditioner, its dismantling must be done by a professional installer according to the applicable regulations.

Contact to the corresponding authorities for more information.

#### PRECAUCIÓN

Este producto no se debe eliminar con la basura doméstica al final de su vida útil y se debe desechar de manera respetuosa con el medio ambiente de acuerdo con los reglamentos locales o nacionales aplicables.

Debido al refrigerante, el aceite y otros componentes contenidos en el sistema de aire acondicionado, su desmontaje debe realizarlo un instalador profesional de acuerdo con la normativa aplicable.

Para obtener más información, póngase en contacto con las autoridades competentes.

#### VORSICHT

Dass Ihr Produkt am Ende seiner Betriebsdauer nicht in den allgemeinen Hausmüll geworfen werden darf, sondern entsprechend den geltenden örtlichen und nationalen Bestimmungen auf umweltfreundliche Weise entsorgt werden muss.

Aufgrund des Kältemittels, des Öls und anderer in der Klimaanlage enthaltener Komponenten muss die Demontage von einem Fachmann entsprechend den geltenden Vorschriften durchgeführt werden.

Für weitere Informationen setzen Sie sich bitte mit den entsprechenden Behörden in Verbindung.

#### PRECAUTION

Ne doit pas être mélangé aux ordures ménagères ordinaires à la fin de sa vie utile et qu'il doit être éliminé conformément à la réglementation locale ou nationale, dans le plus strict respect de l'environnement.

En raison du frigorigène, de l'huile et des autres composants que le climatiseur contient, son démontage doit être réalisé par un installateur professionnel conformément aux réglementations en vigueur.

#### ATTENZIONE

Indicazioni per il corretto smaltimento del prodotto ai sensi della Direttiva Europea 2002/96/EC e Dlgs 25 luglio 2005 n.151

Il simbolo del cassonetto barrato riportato sull'apparecchiatura indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti.

L'utente dovrà, pertanto, conferire l'apparecchiatura giunta a fine vita agli idonei centri di raccolta differenziata dei rifiuti elettronici ed elettrotecnici, oppure riconsegnarla al rivenditore al momento dell'acquisto di una nuova apparecchiatura di tipo equivalente.

L'adeguata raccolta differenziata delle apparecchiature dismesse, per il loro avvio al riciclaggio, al trattamento ed allo smaltimento ambientale compatibile, contribuisce ad evitare possibili effetti negativi sull'ambiente e sulla salute e favorisce il riciclo dei materiali di cui è composta l'apparecchiatura.

Non tentate di smontare il sistema o l'unità da soli poiché ciò potrebbe causare effetti dannosi sulla vostra salute o sull'ambiente.

Vogliate contattare l'installatore, il rivenditore, o le autorità locali per ulteriori informazioni.

Lo smaltimento abusivo del prodotto da parte dell'utente può comportare l'applicazione delle sanzioni amministrative di cui all'articolo 50 e seguenti del D.Lgs. n. 22/1997.

#### CUIDADO

O seu produto não deve ser misturado com os desperdícios domésticos de carácter geral no final da sua duração e que deve ser eliminado de acordo com os regulamentos locais ou nacionais adequados de uma forma correcta para o meio ambiente.

Devido ao refrigerante, ao óleo e a outros componentes contidos no Ar condicionado, a desmontagem deve ser realizada por um instalador profissional de acordo com os regulamentos aplicáveis.

Contacte as autoridades correspondentes para obter mais informações.

#### BEMÆRK:

At produktet ikke må smides ud sammen med almindeligt husholdningsaffald, men skal bortskaffes i overensstemmelse med de gældende lokale eller nationale regler på en miljømæssig korrekt måde.

Da klimaanlægget indeholder kølemiddel, olie samt andre komponenter, skal afmontering foretages af en fagmand i overensstemmelse med de gældende bestemmelser.

Kontakt de pågældende myndigheder for at få yderligere oplysninger.

#### FORSIGTIG

Dit houdt in dat uw product niet wordt gemengd met gewoon huisvuil wanneer u het weg doet en dat het wordt gescheiden op een milieuvriendelijke manier volgens de geldige plaatselijke en landelijke reguleringen.

Vanwege het koelmiddel, de olie en andere onderdelen in de airconditioner moet het apparaat volgens de geldige regulering door een professionele installateur uit elkaar gehaald worden.

Neem contact op met de betreffende overheidsdienst voor meer informatie.

#### LET OP

Det innebär att produkten inte ska slängas tillsammans med vanligt hushållsavfall utan kasseras på ett miljövänligt sätt i enlighet med gällande lokal eller nationell lagstiftning.

Luftkonditioneringsaggregatet innehåller kylmedium, olja och andra komponenter, vilket gör att det måste demonteras av en fackman i enlighet med tillämpliga regelverk.

Ta kontakt med ansvarig myndighet om du vill ha mer information.

#### ΠΡΟΣΟΧΗ

Σημαίνει ότι το προϊόν δεν θα πρέπει να αναμιχθεί με τα διάφορα οικιακά απορρίμματα στο τέλος του κύκλου ζωής του και θα πρέπει να αποσυρθεί σύμφωνα με τους κατάλληλους τοπικούς ή εθνικούς κανονισμούς και με τρόπο φιλικό προς το περιβάλλον.

Λόγω του ψυκτικού, του λαδιού και άλλων στοιχείων που περιέχονται στο κλιματιστικό, η αποσυναρμολόγησή του πρέπει να γίνει από επαγγελματία τεχνικό και σύμφωνα με τους ισχύοντες κανονισμούς.

Για περισσότερες λεπτομέρειες, επικοινωνήστε με τις αντίστοιχες αρχές.



**DANGER** – Hazards or unsafe practices which COULD result in severe personal injuries or death.

**PELIGRO** – Riesgos o prácticas poco seguras que PODRÍAN producir lesiones personales e incluso la muerte.

**GEFAHR** – Gefährliche oder unsichere Anwendung, die zu schweren Körperverletzungen oder zum Tod führen kann.

**DANGER** – Utilisation dangereuse ou sans garantie de sécurité qui PEUT provoquer de sévères blessures personnelles ou la mort.

**PERICOLO** – Pericoli o azioni pericolose che POTREBBERO avere come esito lesioni fisiche gravi o il decesso.

**PERIGO** – Riesgos o prácticas poco seguras que PUEDEN producir lesiones personales e incluso la muerte.

**FARE** – Farer eller farlig brug, som KAN resultere i alvorlig personskade eller dødsfald.

**GEVAAR** – Gevaren of onveilige praktijken die ernstig persoonlijk letsel of de dood tot gevolg KUNNEN hebben.

**FARA** – Risker eller osäkra tillvägagångssätt som KAN leda till svåra personskador eller dödsfall.

**KINAYNO** – Κίνδυνοι ή επικίνδυνες πρακτικές, οι οποίες ΜΠΟΡΕΙ να έχουν ως αποτέλεσμα σοβαρές σωματικές βλάβες ή θάνατο.



**CAUTION** – Hazards or unsafe practices which COULD result in minor personal injury or product or property damage.

**PRECAUCIÓN** – Riesgos o prácticas poco seguras que PODRÍAN provocar lesiones personales de menor importancia o daños en el producto u otros bienes.

**VORSICHT** – Gefährliche oder unsichere Anwendung, die geringfügigen Personen-, Produkt- oder Sachschaden verursachen kann.

**PRECAUTION** – Utilisation dangereuse ou sans garantie de sécurité qui PEUT provoquer des blessures mineures ou des dommages au produit ou aux biens.

**ATTENZIONE** – Pericoli o azioni pericolose che POTREBBERO avere come esito lesioni fisiche minori o danni al prodotto o ad altri beni.

**CUIDADO** – Perigos e procedimentos perigosos que PODERÃO PROVOCAR danos pessoais ligeiros ou danos em produtos e bens.

**FORSIGTIG** – Farer eller farlig brug, som KAN resultere i mindre skade på personer, produkt eller ejendom.

**LET OP** – Gevaren of onveilige praktijken die licht persoonlijk letsel of beschadiging van het product of eigendommen tot gevolg KUNNEN hebben.

**VARNING** – Risker eller farliga tillvägagångssätt som KAN leda till mindre personskador eller skador på produkten eller på egendom.

**ΠΡΟΣΟΧΗ** – Κίνδυνοι ή επικίνδυνες πρακτικές, οι οποίες ΜΠΟΡΕΙ να έχουν ως αποτέλεσμα την πρόκληση ελαφρών σωματικών βλαβών ή καταστροφή περιουσίας.



**NOTE** – The text following this symbol contains information or instructions that may be of use or that require a more thorough explanation.

**NOTA** – El texto que sigue a este símbolo contiene información o instrucciones que pueden ser de utilidad o requeridas para ampliar una explicación.

**HINWEIS** – Der diesem Symbol folgende Text enthält konkrete Informationen und Anleitungen, die nützlich sein können oder eine tiefergehende Erklärung benötigen.

**REMARQUE** – Les textes précédés de ce symbole contiennent des informations ou des indications qui peuvent être utiles, ou qui méritent une explication plus étendue.

**NOTA** – I testi preceduti da questo simbolo contengono informazioni o indicazioni che possono risultare utili o che meritano una spiegazione più estesa.

**NOTA** – Os textos precedidos deste símbolo contém informações ou indicações que podem ser úteis, ou que merecem uma explicação mais detalhada.

**BEMÆRK** – Den tekst, der følger efter dette symbol, indeholder oplysninger eller anvisninger, der kan være til nytte, eller som kræver en mere grundig forklaring.

**OPMERKING** – De teksten waar dit symbool voorstaat bevatten nuttige informatie en aanwijzingen, of informatie en aanwijzingen meer uitleg behoeven.

**OBS** – Texten efter denna symbol innehåller information och anvisningar som kan vara användbara eller som kräver en noggrannare förklaring.

**ΣΗΜΕΙΩΣΗ** – Το κείμενο που ακολουθεί αυτό το σύμβολο περιέχει πληροφορίες ή οδηγίες που μπορεί να φανούν χρήσιμες ή που απαιτούν μια πιο ενδελεχή εξήγηση.

### Central Station Block/Group Register Table

Tabla de registro de bloque/grupo de la estación central / Tabelle Block-/Gruppenregistrierung der Zentraleinheit / Tableau d'enregistrement de les zones/  
groupes de la télécommande centralisée / Tabella di registrazione zona/gruppo della postazione centrale /

Tabela de registo de blocos/grupos da estação central / Skema for centralenhedsblok/grupperegister / Registratietabel blokken/groepen van centrale bedieningspaneel / Central styrenhet Block/grupp registreringstabell / Κλειδίωμα κεντρικού χειριστηρίου/Πίνακας ομαδικής εγγραφής

[illegible]

Fill in Block number (1 to 4), Group number (1 to 16) in the table. (Ex.: 3-5). Circle the filled number for registering as main unit.

Rellene con el número de bloque (de 1 a 4) y el número de grupo (de 1 a 16). (P. ej.: 3-5). Marque con un círculo el número de unidad registrada como principal.

Tragen Sie die Blocknummer (1 bis 4) und die Gruppennummer (1 bis 16) in die obige Tabelle ein. (Übern.: 3-5). Kreisen Sie die eingetragene Nummer zum Registrieren als Hauptgerät ein.

Remplissez le numéro de la zone (de 1 à 4), le numéro de groupe (de 1 à 16) dans le tableau. (Ex.: 3-5). Encerclez les numéros remplis pour l'enregistrement de l'unité principale.

Inserire il numero della zona (da 1 a 4) ed il numero del gruppo (da 1 a 16) nella tabella. (Es.: 3-5). Cerchiare il numero inserito per la registrazione come unità principale.

Preencha o número do bloco (1 a 4) e o número do grupo (1 a 16) na tabela. (Ex.: 3-5). Rodeie com um círculo o número a registrar como unidade principal.  
Udfyld bloknummer (1 til 4), gruppenummer (1 til 16) i skemaet. (Eks.: 3-5). Marker det anførte tal, der skal registreres som hovedenhed.

Vul het bloknummer (1 tot 4) en het groepnummer (1 tot 16) in de tabel in. (Bijv.: 3-5). Omcirkel het nummer van de unit die is geregistreerd.

Fyll i blocknummer (1 till 4), gruppnummer (1 till 16) i tabellen. (Ex.: 3-5). Ringa in det ifyllda numret för att registrera som huvudenhet.

Συμπληρώστε τον αριθμό μονάδας (1 έως 4), τον αριθμό ομάδας (1 έως 6) στον πίνακα. (Π.χ.: 3-5). Κυκλώστε τον αριθμό που συμπληρώσατε για εγγραφή ως κύρια μονάδα.

### Central Station Block/Group Register Table (2)

Tabla de registro de bloque/grupo de la estación central (2) / Tabelle (2) Block-/Gruppenregistrierung der Zentraleinheit / Tableau d'enregistrement de les zones/groupes de la télécommande centralisée (2) / Tabella di registrazione zona/gruppo della postazione centrale (2) / Tabela de registro de blocos/grupos da estação central (2) / Skema for centralenhedsblok/gruppperegister (2) / Registratietabel blokken/groepen van centrale bedieningspaneel (2) / Central styrenhet Block/grupp registreringstabel (2) / Κλειδίωμα κεντρικού χειριστηρίου/Πίνακας ομαδικής εγγραφής.

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EN	English	Original version	PT	Português	Versão traduzida
ES	Español	Versión traducida	DA	Dansk	Oversat version
DE	Deutsch	Übersetzte Version	NL	Nederlands	Vertaalde versie
FR	Français	Version traduite	SV	Svenska	Översatt version
IT	Italiano	Versione tradotta	EL	ΕΛΛΗΝΙΚΑ	Μεταφρασμένη έκδοση



## 1 SAFETY SUMMARY

HITACHI cannot anticipate every possible circumstance that might involve a potential hazard.



### DANGER

- **DO NOT pour water into the central station. This product is equipped with electrical parts. If poured, it will cause a serious electrical shock.**
- **DO NOT perform installation work and electrical wiring connection by yourself. Contact your HITACHI distributor or dealer and ask them for installation work and electrical wiring by service person.**



### CAUTION

- **DO NOT install the indoor unit, outdoor unit, central station and cable at such places as:**
  - Where there is oil vapor and the oil is dispersed.
  - Where the hot springs are near (in a sulfuric environment).
  - Where generation, flowing, staying or leaking of flammable gas is detected.
  - Where the sea is near (in the salty environment).
  - A place with humid atmosphere or there is possibility of water wetting
  - A place of poorly ventilated.
  - An acid or alkaline environment.
- **DO NOT install the indoor unit, outdoor unit, central station and cable within approximately 3 meters from strong electromagnetic wave radiators such as medical equipment. In case that the central station is installed in a place where there is electromagnetic wave radiation, shield the controller and cables by covering with the steel box and running the cable through the metal conduit tube.**
- **In case that there is electric noise at the power source for the indoor unit, provide a noise filter.**
- **Use specified cables to connect between indoor unit and remote control switch. Selecting incorrect cables may lead to fire or electrical shock.**



### NOTE

- **The installer and system specialist shall comply with local regulations or standards for the safety. The following standards may be applicable, if local regulations are not available. International Organization for Standardization, ISO5149 or European Standard, EN378 or Japan Standard, KHK0010.**
- **Perform electrical work according to the Installation Manual. As for the electrical wiring work and check, turn OFF the main power supply before opening/closing the service cover of indoor unit. If service cover is opened with main power supply left on, it may result in an electrical shock.**
- **It is assumed that this control remote will be operated and serviced by English speaking people. If this is not the case, the customer should add safety such as caution and operating signs in the native language for non English speakers.**
- **This manual should be considered as a permanent part of the air conditioning equipment and should remain with the air conditioning equipment.**
- **This appliance must be used only by adult and capable people, having received the technical information or instructions to handle this appliance properly and safely.**
- **Children should be supervised to ensure that they do not play with the appliance.**
- **Important: read and understand this manual before using this remote controller**

If you have any questions, contact your HITACHI distributor or dealer.

## 2 GENERAL DATA

PSC-A64GT is the remote controller for air conditioning system that controls and monitors maximum 160 indoor units.

### 2.1 MAIN FEATURES

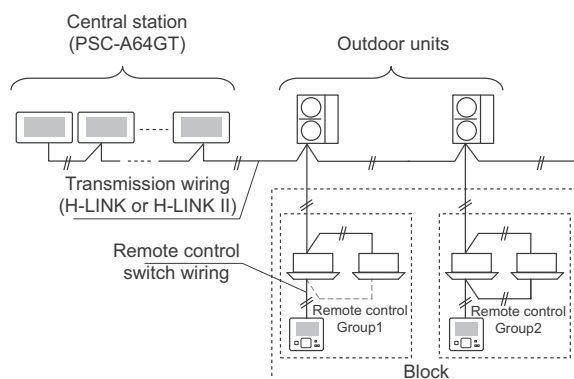
The following functions are available for the all indoor units which are connected to the central stations.

- 1 Run/Stop, Operation Mode Change, Fan Speed Control, Swing Louver Direction Control, Temperature Setting and Permitting/ Prohibiting Operation by Remote Control Switch.
- 2 Monitoring of Operating Conditions for Block/Groups.
- 3 Schedule Operation (Run/Stop and Temperature Setting) for Block/Groups.
- 4 Run/Stop, Emergency Stop and Demand Function by External Input.
- 5 Run and Alarm Output by External Output.
- 6 Control Exception Function of All Run/Stop Command for Selected Groups.
- 7 Control Exception Function of All Run/Stop Command for Selected Groups by External Input.
- 8 Indication and Calculation of Unit Accumulated Operation Time of Each Group.
- 9 Indication of Alarm History Record.
- 10 Registering Name of Blocks and Groups.
- 11 Registration and Indication of Service Contact Information.
- 12 Operation modes can be selected as follows.
  - Normal Operation
  - Run/Stop Only

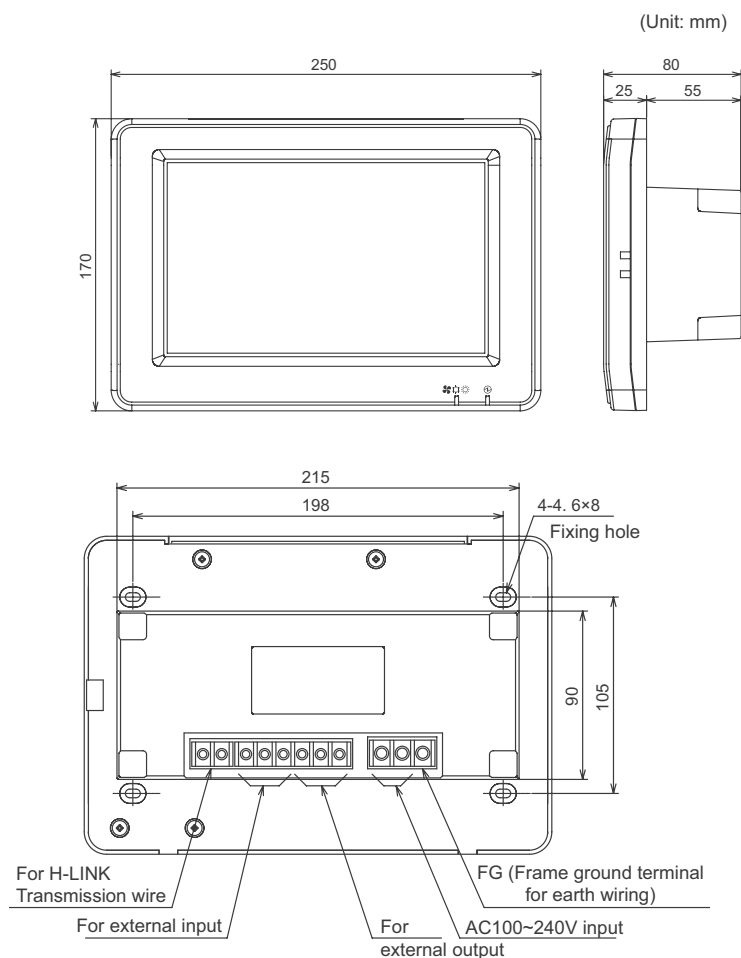


#### NOTE

- **Group:** Remote Control Group
- **Block:** Collective of Remote Control Groups



## 2.2 DIMENSIONAL DATA

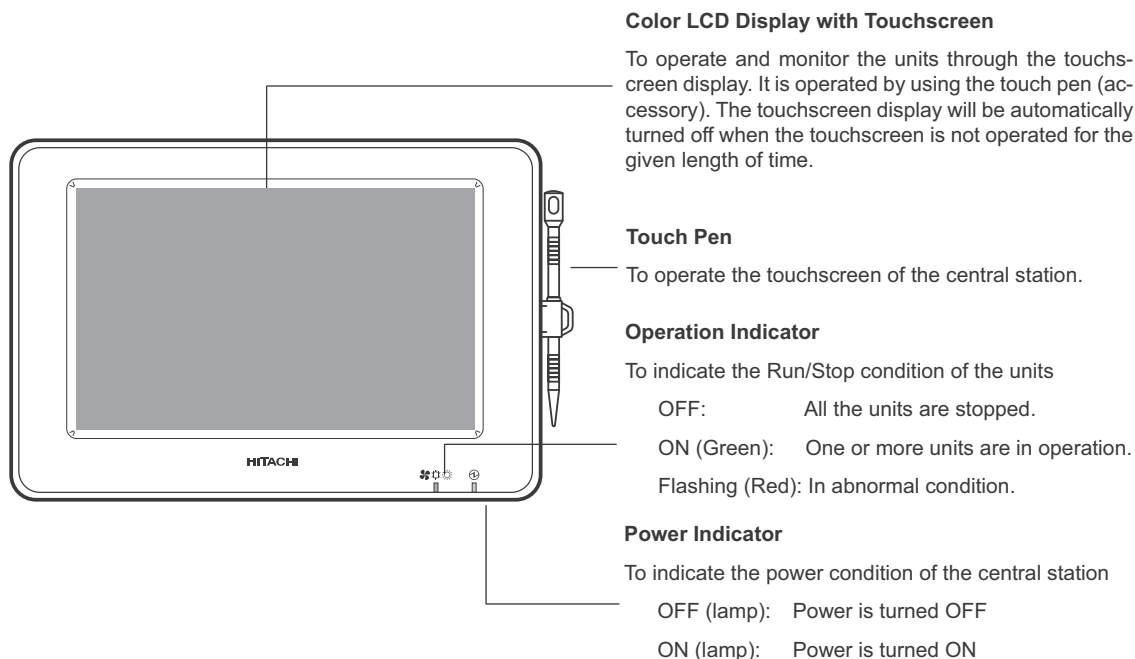


## 2.3 SPECIFICATION

Model	PSC-A64GT
Outer Dimension <W x H x D + (Built-in Part)>	250 × 170 × 25 + 55 (mm)
Net Weight	1.5 kg (Approx.)
Installation Location	Indoor
Installation Method	Wall Built-in with JIS Switch Box for 4 Switches (with cover) (JIS C8340)
Connected Indoor Unit (Q'ty)	160 (Max.)
Clock Accuracy	± 70 Seconds/Month (at Normal Temperature)
Ambient Temperature	5 ~ 35°C
Ambient Humidity	35 ~ 90% (No Dew Condensation)
Display	8.5" TFT Color Liquid Crystal Display (800 x 480 dots)
Rated Power Supply	1Ø, AC 100~240V, 50/60Hz
Electrical Power Consumption	30W (Max.)

### 3 PART NAMES AND FUNCTIONS

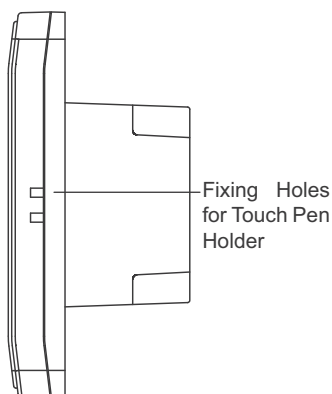
#### ◆ Front Side



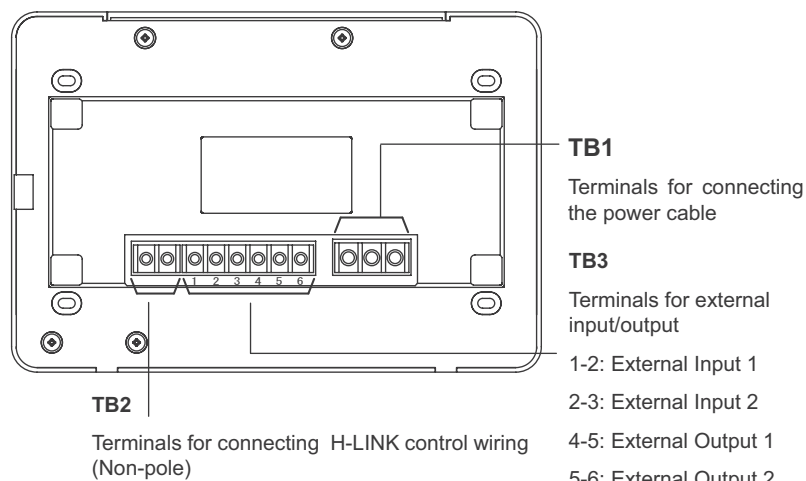
#### NOTE

Remove the protection sheet on LCD (liquid crystal display) before using this product.

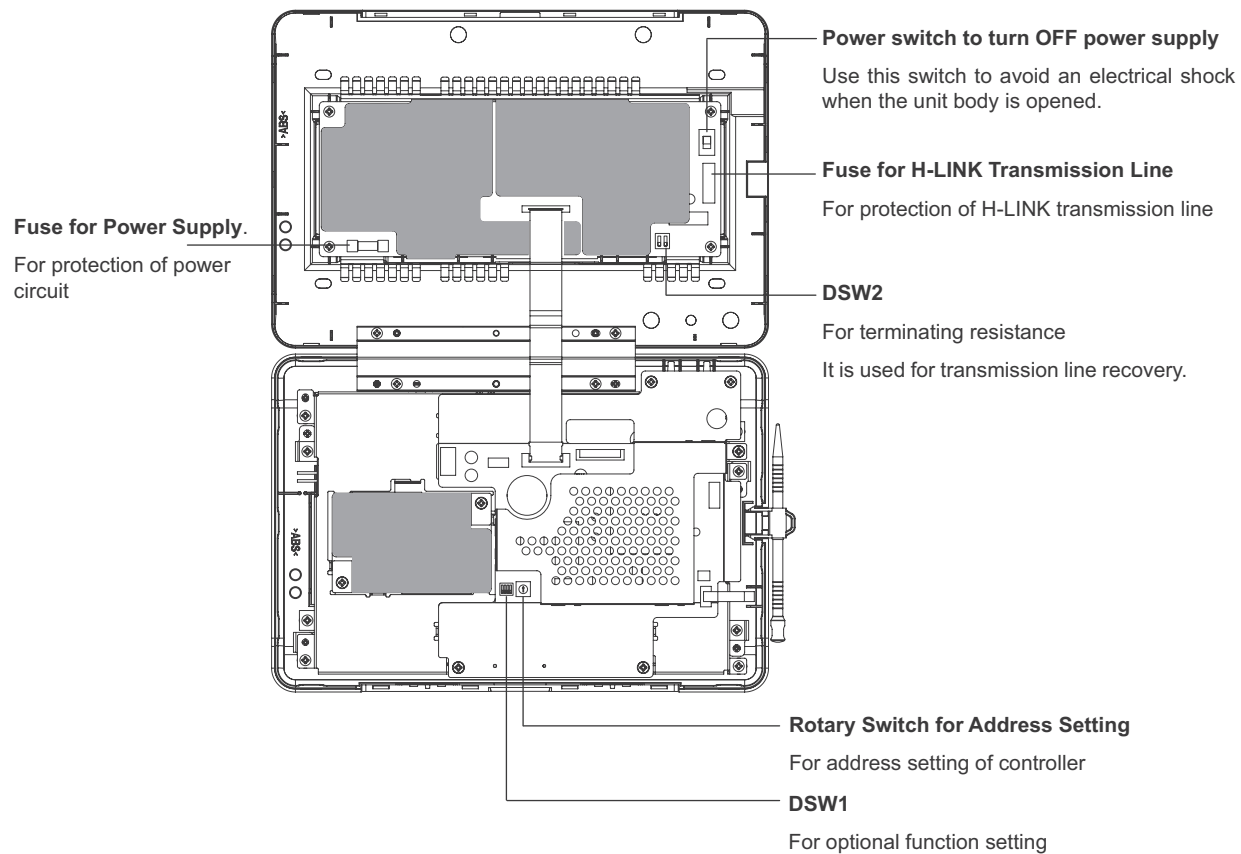
#### ◆ Right Side



#### ◆ Rear Side



◆ When Unit Body is Opened



**! DANGER**

**DO NOT remove the covers of marked with " " for safety. If remove these and touch inside, it may cause a serious electrical shock.**

### 3.1 SCREEN DISPLAY

#### 3.1.1 "Monitor 1 (All groups)"

**Present Indication**  
To display the present indication (all groups)

**Unit Condition**  
To indicate the unit condition such as filter sign, demand, etc.

**Block Button**  
To change the screen display into "Block" Monitor 2 (Block) indication by tapping this button.

**Group Button**  
To indicate the operating condition of each group as follows:  
 Green: Run  
 Gray: Stop  
 Red: Abnormal  
 If the target group button is tapped, "Settings" of the target group screen will be indicated. \*1)  
 (Refer to Run/Stop for each group section)

**"All Groups Stop" Button**  
To stop all the units simultaneously which are controlled by the central station.

**"All Groups Run" Button**  
To run all the units simultaneously which are controlled by the central station.

**"All Groups Setting" Button**  
To change the setting of the units simultaneously which are controlled by the central station.

**"Menu" Button**  
To indicate the menu items such as "Filter Sign Reset", "Schedule Setting", etc.

**"Alarm Info." Button**  
To indicate the abnormality Tap the button for details.

\*1) Only for the "Normal Mode" operation. In "Run/Stop Only" mode, the operation is switched to Run ↔ Stop.

#### 3.1.2 "Monitor 2 (Block)"

**Present Indication**  
To display the present indication (groups in block)

**Unit Condition**  
To indicate the unit condition such as filter sign, demand, etc.

**Block Tab**  
To change the monitor display into "Block" or "All Groups" indication.

**Group Button**  
To indicate the operating condition  
 Green: Run  
 Gray: Stop  
 Red: Abnormal  
 If the target group button is tapped, "Settings" of the target group screen will be indicated. \*2)  
 (Refer to Run/Stop for each group)

**"Stop by Block" Button**  
To stop the all groups operation in the target block simultaneously

**"Run by Block" Button**  
To run the all groups operation in the target block simultaneously

**"Setting by Block" Button**  
To change the setting of the all groups in the target block simultaneously.

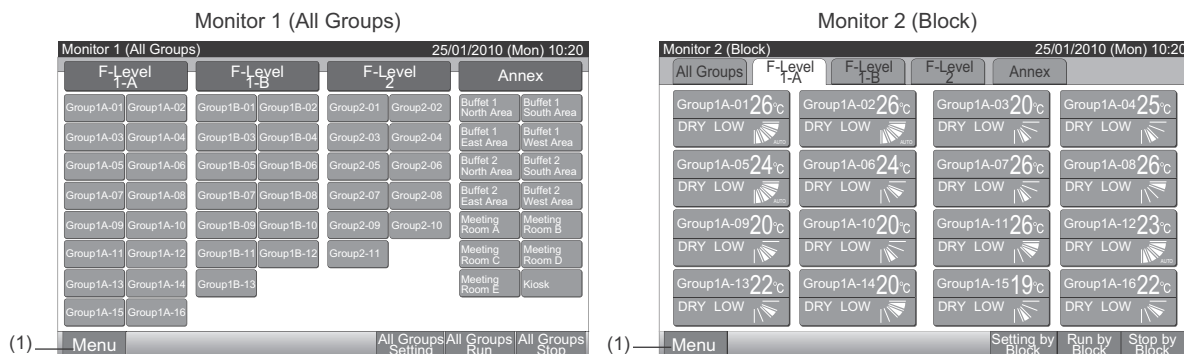
**"Menu" Button**  
To indicate the menu items such as "Filter Sign Reset", "Schedule Setting", etc.

**"Alarm Info." Button**  
To indicate the abnormality. Tap the button for details.

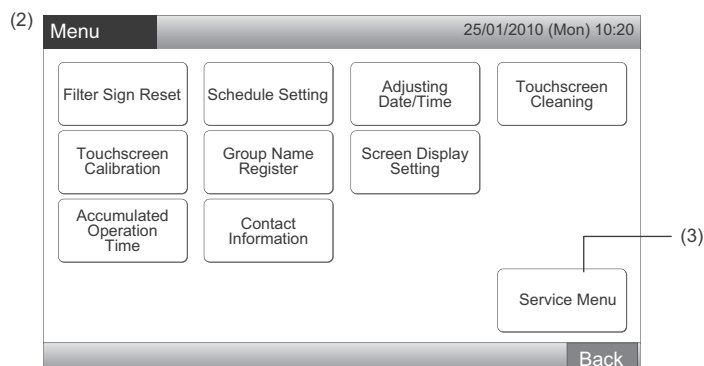
\*2) Only for the "Normal Mode" operation. In "Run/Stop Only" mode, the operation is switched to Run ↔ Stop.

### 3.2 DISPLAY OF SERVICE MENU SCREEN

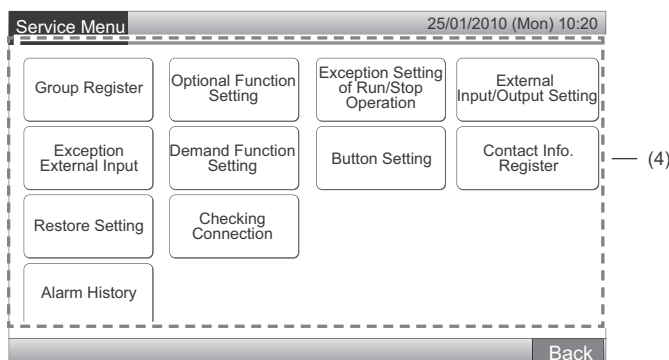
- 1 Tap "Menu" on screen of "Monitor 1" or "Monitor 2".



- 2 "Menu" screen is displayed.
- 3 Press and hold "Service Menu" for at least 3 seconds. "Service Menu" is displayed.



- 4 Select the service menu item by tapping each item button. The setting screen of tapped item will be displayed.



#### NOTE

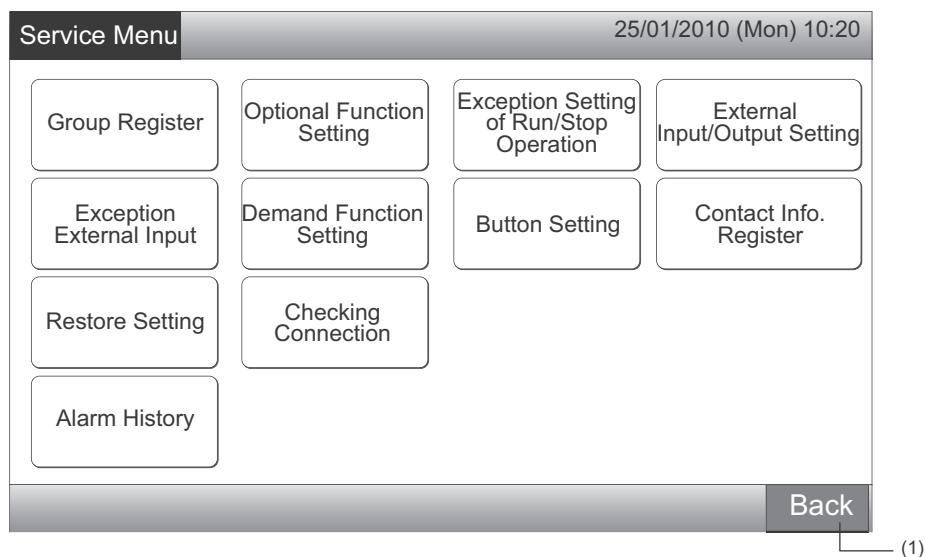
Following items are available only when none of the air conditioners (connected to the central station) is being operated.

- \* Optional Function Setting
- \* External Input/Output Setting
- \* Exception External Input
- \* Checking Connection

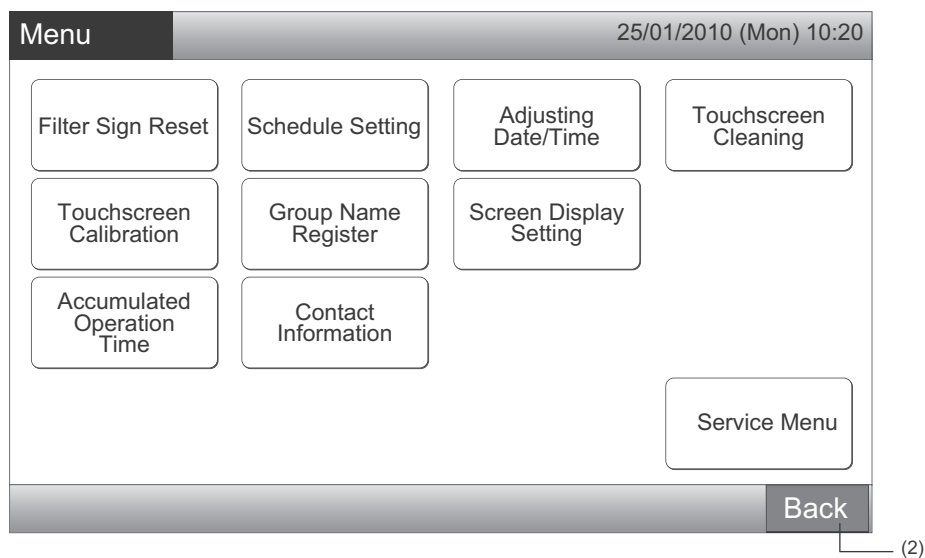
Stop the operation of all indoor units when selecting the items above. After that, perform the operation of (1) to (3).

### 3.3 EXIT SERVICE MENU SCREEN

- 1 Tap "Back" on "Service Menu" to return to the screen of "Menu".



- 2 Tap "Back" to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".





### 3.4 QUICK REFERENCE

The table below shows the display on the screen and its function structure.

Screen Display		Function
Monitor 1 (All Groups)		To display the name of all groups and operating conditions
Monitor 2 (Block)		To display the name of groups in the block and operating conditions
Menu		To display the list of menu items
Filter Sign Reset		To reset the filter sign
Schedule Setting	Schedule Timer Setting	To set or change the weekly schedule
		To copy the schedule setting
		To delete the schedule timer setting
	Holiday Setting	To specify days of suspended schedule setting
	Schedule Timer ON/OFF Setting	To set schedule operation ON/OFF
Adjusting Date/Time		To adjust the date and time
Touchscreen Cleaning		To lock the touchscreen for cleaning
Touchscreen Calibration		To calibrate the touch position on the touchscreen
Group Name Register		To register the name of block and group
		To copy the name of block and group
Screen Display Setting	Brightness	To adjust the backlight brightness of display screen
	Language Setting	To set the displayed language
	Temperature Unit	To set the temperature unit
Accumulated Operation Time		To display the accumulated operation time of the unit
Contact Information		To display the service contact address (if registered)
Service Menu		This switch is for the serviceman only. Therefore do not use it. If this switch is used and the service menu is indicated on the screen, tap "Back". The screen will return to the menu.

### 3.5 FUNCTIONS

The table below shows the main functions.

Operation Procedure	Menu Function
Display of All Groups (All the indoor units which are connected to the central stations.)	Menu (Menu Items and Details)
Display of Specified Block (All the remote control groups in the block which are connected to the central stations.)	Menu
Simultaneous Run/Stop for All Groups	Filter Sign Reset
Simultaneous Run/Stop for Block	Schedule Operation
Run/Stop for Each Group	Adjusting Date/Time
Operation Mode Change	Touchscreen Cleaning
Fan Speed Setting	Touchscreen Calibration
Swing Louver Direction	Registering Groups/Blocks Name
Setting Temperature	Screen Display Setting
Permitting/Prohibiting Operation from Remote Control Switch	Accumulated Operation Time of Unit
	Contact Information

## 4 INSTALLATION WORK

### 4.1 SELECTION OF INSTALLATION PLACE

Select a suitable place for handling and determine the installation place of the central station with the customer's acceptance.

Do not install the central station at such places as:

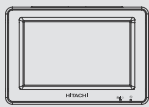




- Where children can touch.
- Where the air from the air conditioner is directly discharged.

Prior to the installation work, ensure that foundation is flat, level and sufficiently strong and then fix the unit securely. If the foundation is not strong enough, it may lead to injuries caused by falling of the product, electrical shock or fire.

### 4.2 BEFORE INSTALLATION

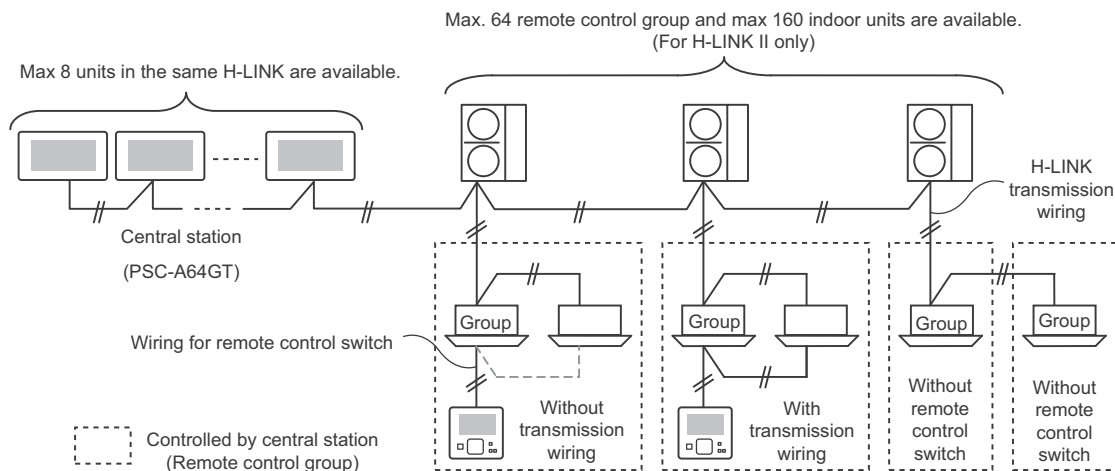
When unpacking Central Station PSC-A64GT, check that it has not suffered damage during transport.

Check to ensure that the following parts are packed with the central station.

Item	Central Station PSC-A64GT	Installation and Operations Manual	Touch Pen	Touch Pen Holder	Screw
Appearance					 M4 x 16mm
Q'ty	1	1	2	1	4

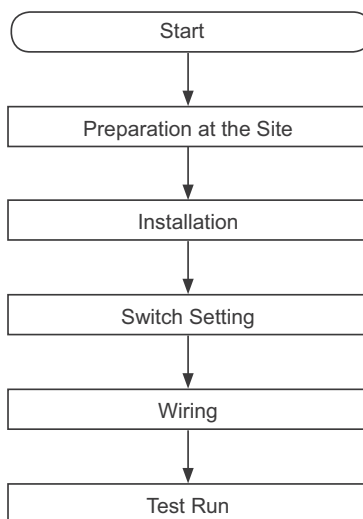
### 4.3 SYSTEM CONFIGURATION

This central station (PSC-A64GT) is connected to H-LINK and used for the central control and monitoring of the air conditioners. The system configuration example is shown in below.



### 4.4 INSTALLATION PROCEDURE

The installation procedure shall be performed as shown below.



#### 4.4.1 Preparation at the site

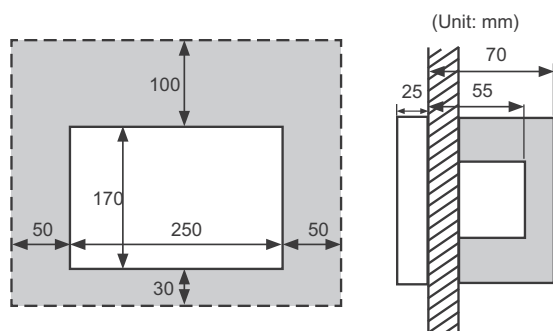
Before installing a controller, prepare the following items.

Parts	Specification
Switch Box	JIS Switch Box for 4 Switches (with cover) (JIS C8340)
Power Supply Cable	Cable SPEC: 1.25 to 2mm <sup>2</sup> Recommended Cable: 600V CV, CCV, CEV
H-LINK Cable (For Control)	Cable SPEC: 0.75 to 1.25mm <sup>2</sup> Recommended Cable: Twist Pair Cable with Shield, Over 0.75mm <sup>2</sup> (Equivalent to KPEV-S)

\* The recommended cables are the model name of Hitachi Cables, Ltd.

#### 4.4.2 Installation space

Keep the installation space for the central station as shown below.



Do not attach anything in the half-tone screen area "■".

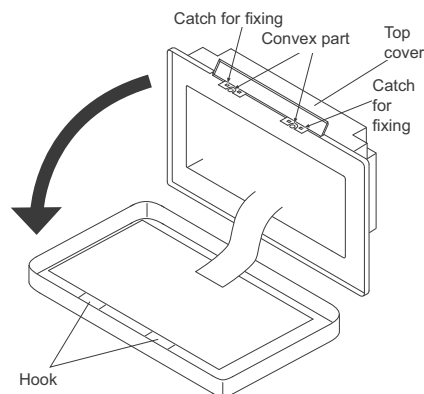
When installing more than 2 central stations in row or in line, keep the space between each.

\* Vertical Direction: 100mm

\* Horizontal Direction: 50mm

#### 4.4.3 Installation method

- 1 Install the switch box into the wall. (Field-supplied: JIS Switch Box for 4 Switches (with cover) (JIS C8340).
- 2 Open the unit body. (The unit body is opened when the factory shipping). If the unit body is closed, open it as shown below.
  - a. Open the top cover of unit body.
  - b. While pressing the convex part (2 portions), pull the top case and it is opened because the catches for fixing are removed.

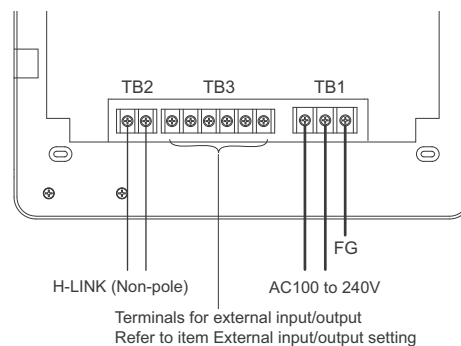


- 3 Connect the wiring to the terminal board of the central station.

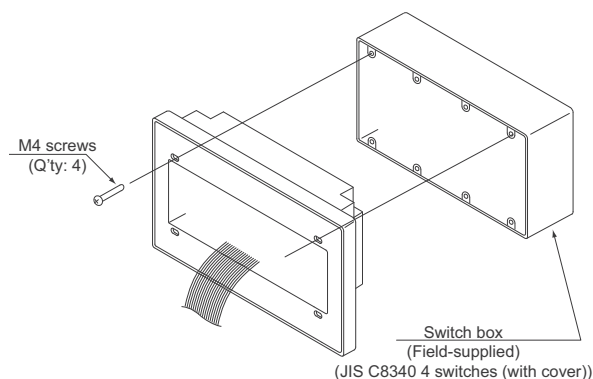
TB1: Terminal Board for Power Supply

TB2: Terminal Board for H-LINK

TB3: Terminal Board for External Input and Output



- 4 Fix the switch box (Field-supplied: JIS Switch Box for 4 Switches (with cover) (JIS C8340)) by accessory fixing screw (M4 x 16mm).



## 4.5 SWITCH SETTING PROCEDURE

The list for switch settings of central stations are indicated in the following table.

1 The following is set by each setting.

Switch	Switch No.	Usage	Factory Setting	Remarks
RSW1 (Rotary Switch 16-poles)	-	For address setting of central station	0	When using multiple units of the central stations.
DSW1 (Dip Switch 4-poles)	1	ON: Setting for Non-H-LINK II OFF: Setting for H-LINK II	OFF	Refer to the chart in the next page.
	2	OFF (Fixed)	OFF	Not Used
	3	OFF (Fixed)	OFF	Not Used
	4	OFF (Fixed)	OFF	Not Used
DSW2 (Dip Switch 2-poles)	1	ON: Terminating Resistance Enable OFF: Terminating Resistance Disable	OFF	Make sure no other terminating resistance exists on the same H-LINK when enabling the terminating resistance from the central station.
	2	ON: Protection Fuse for H-LINK ... Disable (Short-circuited) OFF: Protection Fuse for H-LINK ... Enable (Normal)	OFF	
SW1		ON: Turn ON Central Station OFF: Turn OFF Central Station	ON	



### NOTE

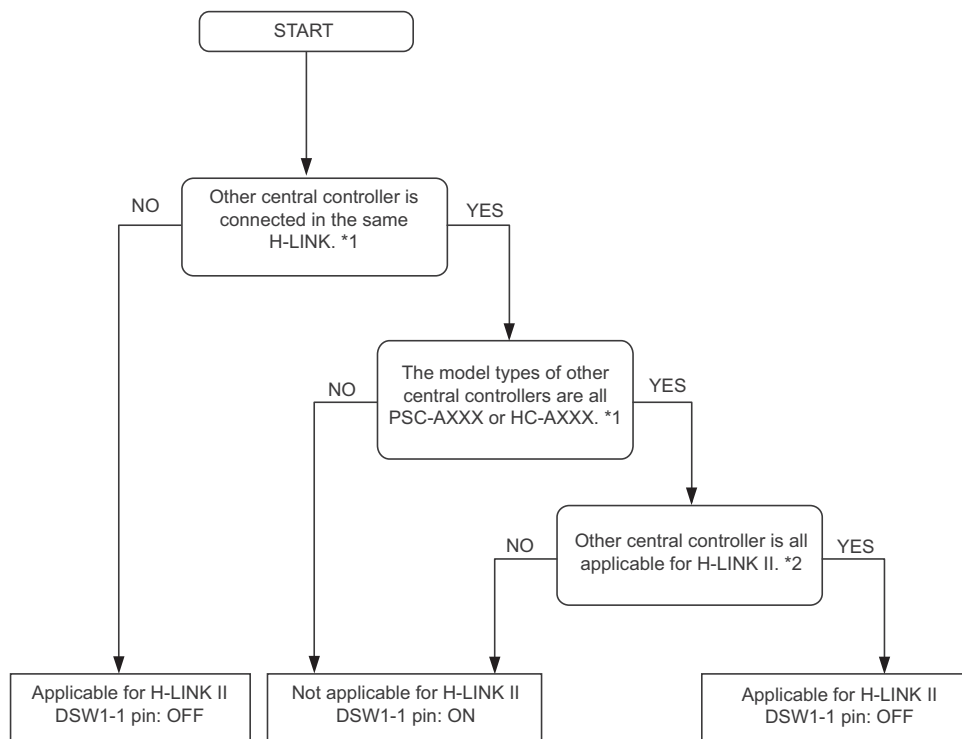
- **Turn OFF the power supply when setting the dip switches and rotary switch. Do not touch directly the printed circuit board and metal part to avoid the central station malfunction.**
- **The central station is reconnected to H-LINK/H-LINK II automatically when change the setting of H-LINK or H-LINK II.**
- **When same central station are connected to H-LINK with incorrect DIP switch setting, then “63” alarm will be indicated in the central station. In this case, turn OFF the power supply for all central control devices, and check the dip switch settings of each central control device. After that, restart central control devices.**

### DSW1 Setting

Combined PSC-A64GT with other central controller	Other central controller	Name	Model	Switch 1	Switch 2	Switch 3	Switch 4
		Central Station EZ	PSC-A64GT	OFF	OFF	OFF	OFF
		Central Station	PSC-A64S	OFF	OFF	OFF	OFF
			PSC-5S	ON	OFF	OFF	OFF
		Centralized ON/OFF Controller	PSC-A16RS	OFF	OFF	OFF	OFF
Without other central controller				OFF	OFF	OFF	OFF

### Distinction Method of Setting for H-LINK I or H-LINK II.

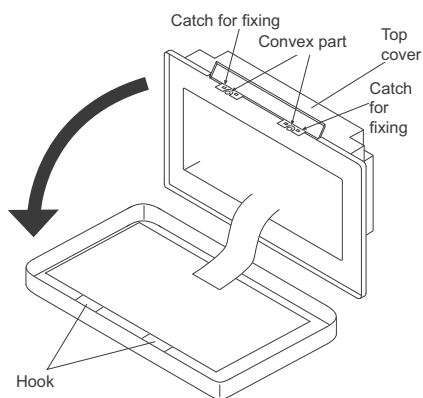
Distinguish the unit type of H-LINK I or H-LINK II as the following procedure. Set dip switch 1-1 pin as the result of the distinction.



\*1: Exclude PSC-4RA, PSC-5RA, and PSC-5HR from the target of other central controllers.

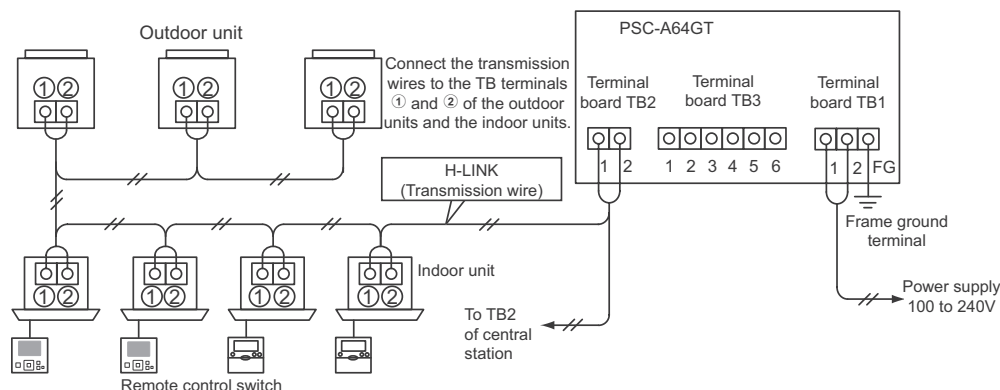
\*2: As for setting details, refer to the Installation and Maintenance Manual of other central controllers.

- 2 Close the unit body until hearing snapping sound, and make sure if the top and bottom close fully. At this time, check if the top side cover is fixed and closed firmly.



## 4.6 ELECTRICAL WIRING

- 1 The central station requires wiring work of the power supply cable, air conditioner, and control wiring (H-LINK).
- 2 Wiring Method.



Type of wiring	Specification	Length of wiring	Cable specification	Recommended cable model
Power supply cable	AC100~240V	-	1.25 to 2mm <sup>2</sup>	600V CV, CCV, CEV (Hitachi Cable)
Earth wiring				
H-LINK (Control Wire)	DC5V	1000m $\geq$	0.75 to 1.25mm <sup>2</sup>	Twist pair cable with shield $\geq$ 0.75mm <sup>2</sup> (Equivalent to KPEV-S)
Wiring for external input and output	Input: Non-voltage normal open Output: DC12V, 75mA $\geq$	70m $\geq$	0.75 to 1.25mm <sup>2</sup>	JKPEV-S, JKEV-S, CVV-S, CVV, 600V VCT (Hitachi Cable)



### NOTE

- The central station may break down by an incorrect wiring.
- The transmission wires are required to be separated from the power supply wiring and other electrical device wiring. Keep at least 30cm between transmission wiring and the power supply wiring. If the above is not secured, put the power supply wirings and transmission wirings into the each metal conduit tube separately. The one side of the metal conduit tubes should be earthed for noise reduction.
- Do not connect the power supply wiring to the terminals for transmission of central station. However, if the power supply wires are connected incorrectly, the fuse of the printed circuit board will blow out for protection. In this case, turn on the DSW2-2 pin on the printed circuit board for unfused emergency operation.
- Remove the earth wiring of "FG" terminal securely when the insulating capacity test or the withstand voltage test is performed. If the above is not secured, it may cause of breaking down of the central station.

Main breaker switch

Model	Supply voltage	Maximum current (A)	ELB(1)		CB(2)
			Rated current (A)	Sensitivity (mA)	Rated current (A)
PC-A64GT	1~ 230V 50 Hz	5	40	30	5

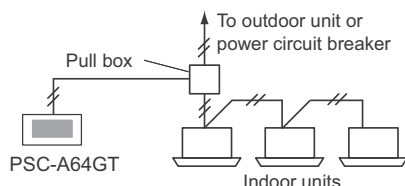
(1) ELB: earth leakage breaker (field-supplied)

(2) CB: circuit breaker (field-supplied)



### CAUTION

On using AC200V to 240V for power supply.



- In the case of power supply voltage is 200V to 240V, diverge the main power supply cables by using the pull box as shown in the figure. (As for the power cables between the indoor units, refer to the technical catalog, etc.).
- The electricity supply to the unit should be via an exclusive power control switch and protective circuit breaker, certified and installed in accordance with local or national safety regulations.

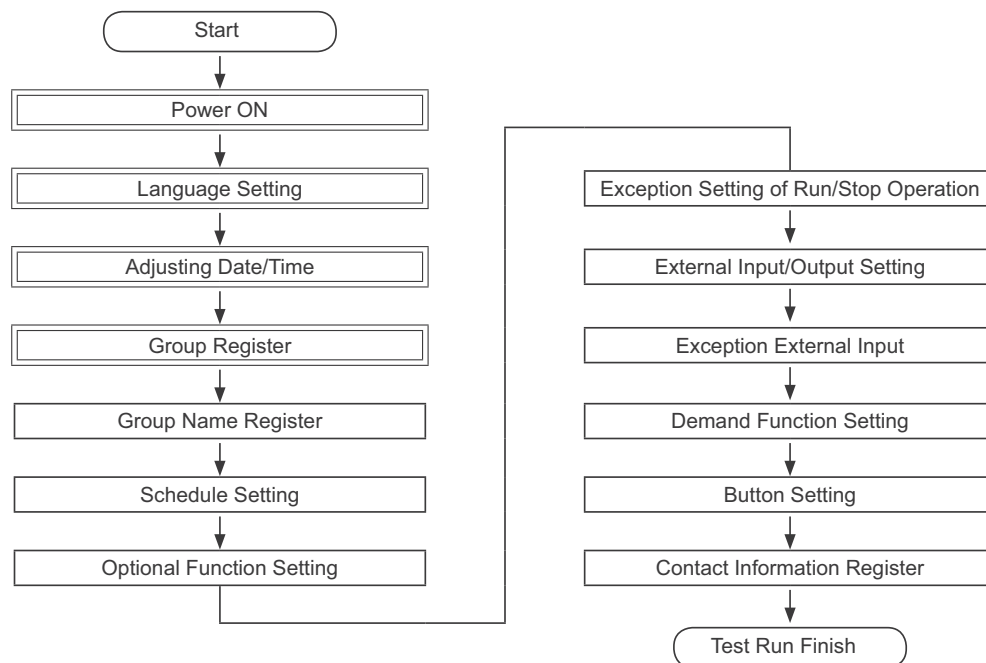
- Use an earth leakage breaker with medium sensitivity, and an activation speed of 0.1 or less. If this is not fitted, there is a risk of electric shock and/or fire.
- Install an earth leakage breaker, fuse and circuit breaker for each outdoor unit power line. Not fitting it may cause an electric shock or fire.


**DANGER**

- Turn OFF the main power switch for the indoor units, outdoor units, and central stations before the electrical wiring work is performed. If not, it may cause a fire, electrical shock or device breaking down.
- Do not use cables that are lighter than the normal flexible coated polychloroprene cable (code H05RN-F).

## 5 TEST RUN PROCEDURE

The outline of the test run procedure is indicated as shown in the figure. The marked of " " are required items.



### 5.1 LIST OF ITEMS

Item	Function
Language Setting	This function is used for language selection.
Adjusting Date/Time	This function is used for adjusting the date and time.
Group Register	The connected indoor units are checked by the central station in the same H-LINK. This function is used for the group or block registration of them.
Main Unit Register	This function is used for the main unit registration in the each remote control group. (The main unit is the only one (1) per one (1) remote control group.) The control command is sent from the central station to the main unit for the remote control group.
Sub Unit Register	This function is used for registration of the sub units except the main unit in the same remote control group. In the case of using the remote control switches or the receiver kits as follows, the sub units are registered automatically by the central station after the main unit registration. <ul style="list-style-type: none"> <li>• The remote control switches and the receiver kits which model names start from PC-ATT.</li> <li>• The remote control switches which model names start from PC-PTT.</li> <li>• The receiver kits which model names are PC-RLH8~12.</li> </ul>
Group Name Register	This function is used for registering name of the block and group. The registrable number of letters are maximum 20 letters for the name of each block or group. It is also available to copy the name. If the group/block is registered without name, it will be registered as "Group 1" or "Block 1" automatically.



Item	Function
Schedule Setting	This function is used for scheduled timer operation which is possible to set by each group or block.
Schedule Timer Setting	This function is used for setting the time (by the minute), "Run/Stop" and temperature (19~30°C). For weekly schedule setting, up to 10 schedule items can be set per day. It is also available to copy the setting contents.
Holiday Setting	This function is used for suspending the schedule operation temporarily. The schedule operation will not be available when this function is set. This function is used for setting irregular holidays such as national holidays.
Schedule Timer ON/OFF Setting	"Schedule Timer OFF Setting" is used for suspending the schedule operation for the target group. The schedule operation will not be available when Schedule Timer is OFF. This function is used for a long holiday, sudden holidays, national holidays, etc.
Optional Function Setting	This function is used for setting and changing of the function for air conditioners and central stations.
Exception Setting of Run/Stop Operation	This function is used to specify exceptional Groups/Blocks for "All Run/Stop" command. <ul style="list-style-type: none"> <li>The "All Run/Stop" command will not be affected to the specified group/block.</li> </ul>
Selecting of Exception Operation	This function is used to select which of the followings will be excepted. <ul style="list-style-type: none"> <li>Run</li> <li>Stop</li> <li>Run and Stop</li> </ul>
Selecting of Exception Groups	This function is used to select "All Run/Stop" command of which of the following items will be excepted. <ul style="list-style-type: none"> <li>All Groups Run/Stop</li> <li>Run/Stop by Block</li> <li>All Groups Setting</li> <li>Setting by Block</li> </ul>
External Input/Output Setting	Two (2) external input terminals and two (2) external output terminals are equipped in the central station. These terminals are used for "All Groups Run/Stop" and "Demand Function" operations for the connected air conditioners. The external output terminals are used for the operation signal output or alarm signal output of the air conditioners which is connected to the central station.
Exception External Input	This function is used for cancelling the operation commands such as "All Groups Run/Stop", etc. by the external input signal. "Exception External Input" is available for each external input (Input 1 and Input 2).
Selecting Groups of Exception External Input 1	This function is used for selecting the group to cancel of operation command from the external input 1.
Selecting Groups of Exception External Input 2	This function is used for selecting the group to cancel of operation command from the external input 2.
Demand Function Setting	This function is used for setting of "Demand Function" to the terminal of "Input 1". The operating condition is changed by the demand signal such as the operation stop, Thermo-OFF, etc. "Demand Function" is available under the following conditions. <ol style="list-style-type: none"> <li>Select "Demand Function" at "Input 1" on the "External Input/Output Setting" screen. ("Demand Function" will not be available without this setting.)</li> <li>Select one of "Demand Function" No.1 to No.4 at "Demand Function Setting" screen.</li> </ol>
Demand Function Setting	This function is to select the action at "Demand Function" control.
Selecting Group for Demand Function	This function is to select the target group for "Demand Function" control.
Button Setting	This function specifies each button to be shown/hidden. This function also includes specification/setting for "one-tap operation" or "press and hold" operation.
Contact Information Register	This function is used for editing the contents of contact information registration.
Restore Setting	This function is used for restoring all the settings such as registered Groups (Blocks) and schedules.
Checking Connection	This function is used for checking of the connected indoor unit numbers in the same H-LINK. When this function is used, the confirmation for the keeping of registered information such as the group names, schedules, etc. will be indicated. If "OK" is tapped, the connected indoor unit numbers are updated with keeping the registered information. If "Cancel" is tapped, the setting of the central station is all restored.
Alarm History	This function is used for displaying the list of alarm history that occurred in the air conditioner and the controller. (Maximum 100 records)

## 5.2 INITIAL POWER ACTIVATION SETTING

### ◆ Supply Power to the Unit

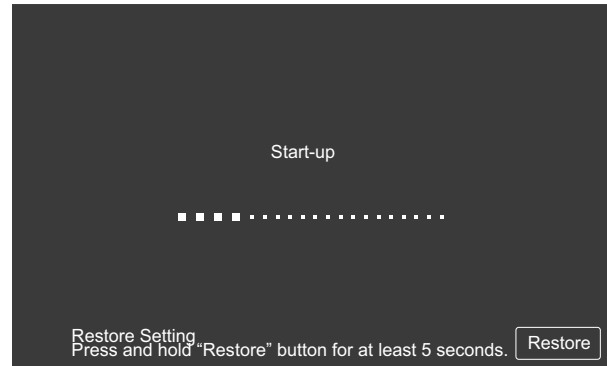
Turn on the power supply of the air conditioners.

To protect the compressor, the power supply should be turned on 12 hours before the operation is started. Do not turn off the power supply during the air conditioning seasons.

Perform after checking of each air conditioner has test run and confirming all the air conditioners operates normally.

Turn on the power supply of the central station.

“Start-up” will be displayed for a while and the screen changes to “Monitor 1 (All Groups)”.

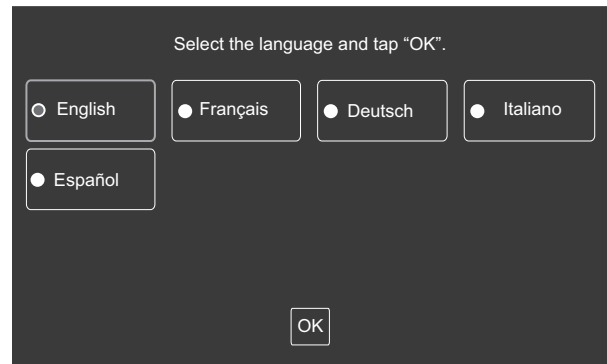


## 5.3 LANGUAGE SETTING

Several minutes later after turning ON the power supply, the language setting screen is displayed on the touchscreen as shown in the figure.

(When the power supply is turned ON at the first time.)

Select the using language for operation and tap “OK”.



## 5.4 ADJUSTING DATE/TIME

After language setting, the adjusting date/time screen is displayed on the touchscreen as shown in the figure.

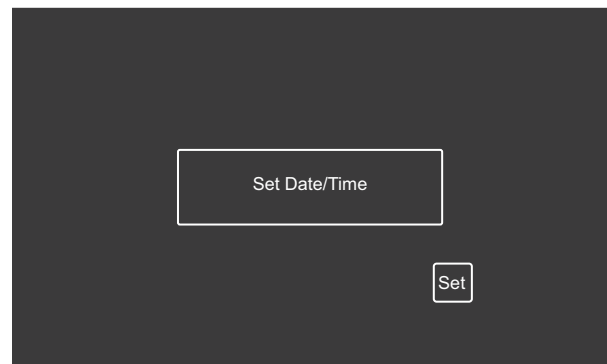
Tap “Set” on the touchscreen display, and set the date and time according to the indicated procedure.

Refer to the chapter Adjusting Date/Time for detailed information.



### NOTE

**Setting the date and time may be required after long-term power failure. In that case, “Set Date/Time” will be displayed on the screen. If “Set” is tapped, “Adjusting Date/Time” will be displayed.**

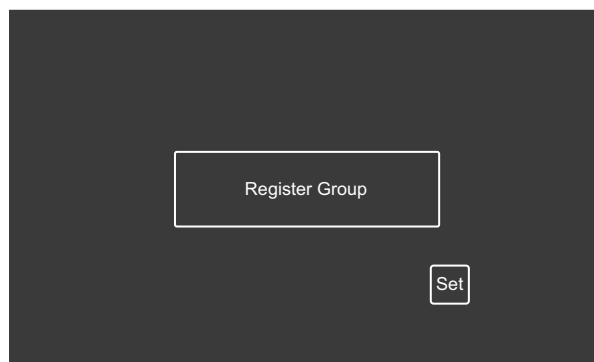


## 5.5 GROUP REGISTER

Register the indoor units confirmed for connection to the group (block) of the central station.

Tap "Set" on the touchscreen and the setting screen is displayed. (When the power supply is turned ON at the first time.)

The registrable number of letters are maximum 20 for the name of the group (block).



### ◆ Group and Block

- Group (Remote Control Switch Group):

The minimum operation unit from the central station, multiple indoor units (Max. 16 units) are connected by the transmission wiring. The indoor unit in the same group are controlled the same operation. Maximum of 64 groups (4 blocks x 16 groups) can be controlled by the one (1) central station.

- Block:

Operation unit of the groups. Maximum of 16 groups can be registered within one (1) block. Maximum of 4 blocks can be controlled by the one (1) central station.

- Main Unit:

The main unit registration is available for the only one (1) indoor unit per one (1) group. The control command is sent from the central station to the main unit for the group.

- Sub Unit:

The indoor unit except the main unit in the same group. They are controlled by the same operation with the main unit.

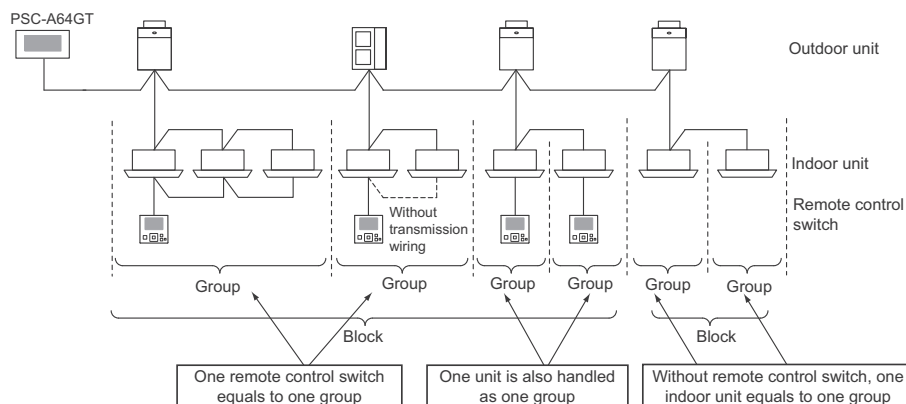
### ◆ Main Unit Registration

- The main unit registration is available for the only one (1) indoor unit per one (1) group. Thus, duplicate registration of the main unit is not possible into the same group. If the main unit registration is changed by something reason, cancel the current main unit registration, and register again the new main unit.
- When the indoor unit with the automatic swing louver and the indoor unit without the automatic swing louver are mixed in a same group, do not register the indoor unit without automatic swing louver as the main unit. If it is registered as the main unit, this group cannot be use the louver setting function.
- In the case of the group which the transmission wiring connecting for the remote control switch is not used, the indoor unit without remote control switch is not register as the main unit.

### ◆ Sub Unit Registration

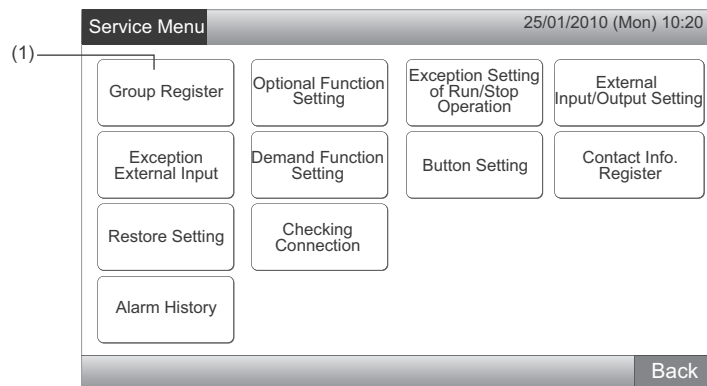
- Sub unit can be registered maximum 15 units per one group. (Adding up with quantity of the main unit, maximum 16 units can be registered for one group.)
- In the case of reregistration of the sub unit to other group, cancel the registration of target sub unit and register it again to other group.

◆ If tap "Enter" at the name registration, the name of the group or the block will be indicated in the two lines. 10 letters can be input in each line. (Total 20 letters)



### 5.5.1 How to register group (Main unit)

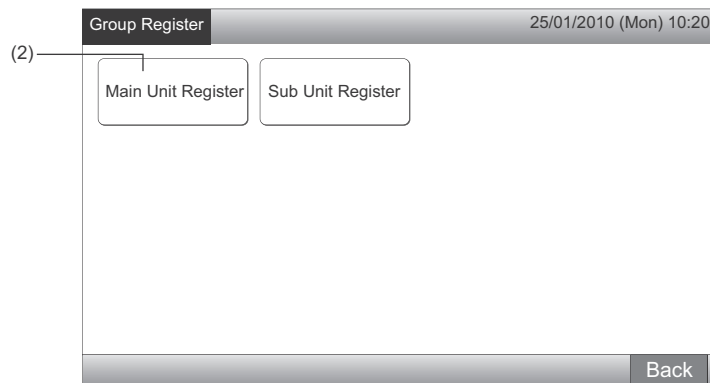
- 1 Select "Group Register" on the screen of "Service Menu".



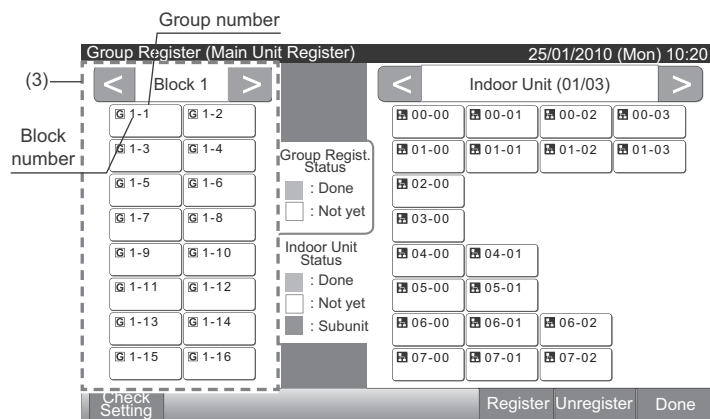
#### NOTE

*This function cannot be selected when the external input signal is input to the external input terminal 1 or 2.*

- 2 Select "Main Unit Register" on the screen of "Group Register".

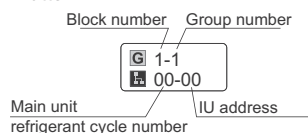


- 3 Select group for main unit to register.
  - When tapping "<" or ">" on the upper left of the touchscreen, the block display is switched.
  - The information of Block No and Group No are indicated in the button as "Block Number - Group Number".
  - Select the group button by tapping. The selected button is rimmed with orange line. If the selected group button is tapped again, the group selection will be canceled.

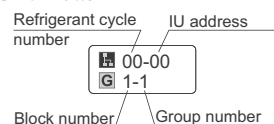


- 4 Select the indoor unit for "Main Unit Register".
  - Tap "<" or ">" on the upper right of the touchscreen, the display of indoor units is switched.
  - The information of the refrigerant cycle No. and indoor unit address are indicated in the indoor unit button as "Refrigerant Cycle No - Indoor Unit Address".
  - Select the indoor unit button by tapping. The selected button is rimmed with orange line. If the selected button is tapped again, the indoor unit selection is canceled.
  - The indoor unit that already registered as the main unit cannot be selected. (The button color is blue.)
    - About the Indoor Unit Selecting
      - ◆ The indoor unit which letters are red cannot be registered as the main unit. In this case, the indoor unit is registered as the sub unit automatically.
      - ◆ When the indoor units such as "with auto louver function" and "without auto louver function" are mix-installed in the same H-LINK, register the indoor unit "with auto louver function" on the priority basis as the main unit. If the unit "without auto louver function" is registered as the main unit, the auto louver function cannot use in this H-LINK. (Same applies to the other functions).
- 5 Tap "Register" to register the main unit while the group and indoor unit are selected.
  - If the group and indoor unit for the main unit are not selected, the "Register" indication is grayout which cannot be tapped.
  - The button color of the registered group and indoor unit are changed to blue and the information is indicated in the buttons as below.

- "Group" Button



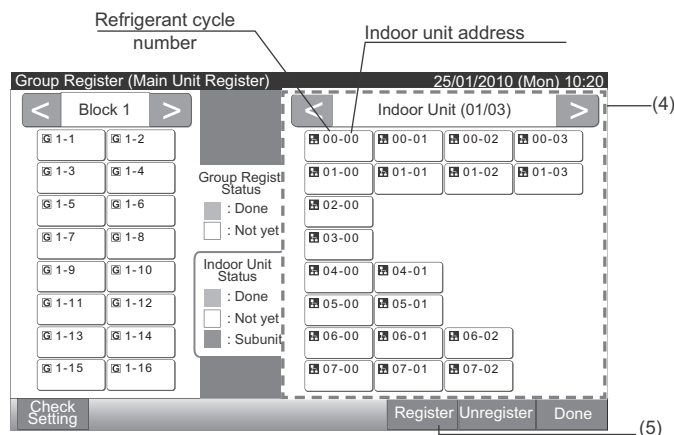
- "Indoor Unit" Button



Proceed the main unit registering depending on the setting afterwards.

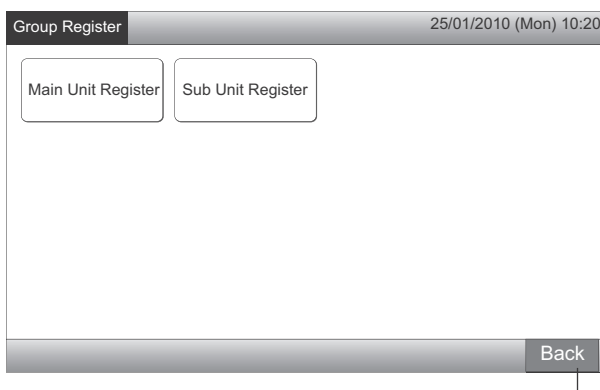
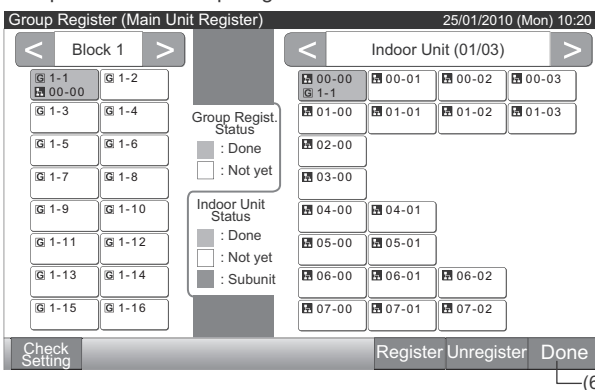
Continue "Main Unit Register" (3)

Exit "Main Unit Register" (6)



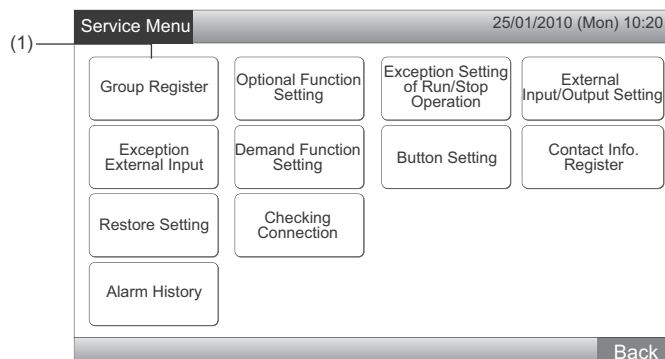
6 Tap "Done" on "Group Register (Main Unit Register)" to return to the screen of "Group Register".

7 Tap "Back" on "Group Register" to return to the screen of "Service Menu".



### 5.5.2 How to register group (Sub unit)

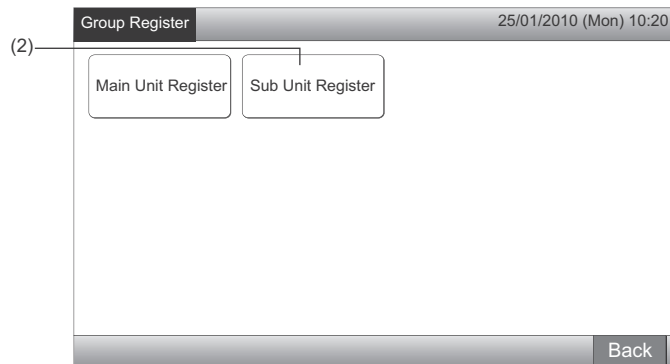
- 1 Select "Group Register" on the screen of "Service Menu".



#### NOTE

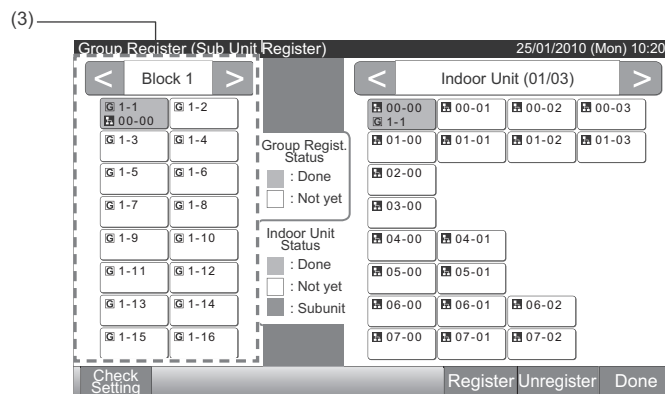
*This function cannot be selected when the external input signal is input to the external input terminal 1 or 2.*

- 2 Select "Sub Unit Register" on the screen of "Group Register".



- 3 Select the group for "Sub Unit Register".

- When tapping "<" or ">" on the upper left of the touchscreen, the block display is switched.
- Select the group button by tapping. The selected button is rimmed with the orange line.
- If the selected group button is tapped again, the selection will be canceled.



#### NOTE

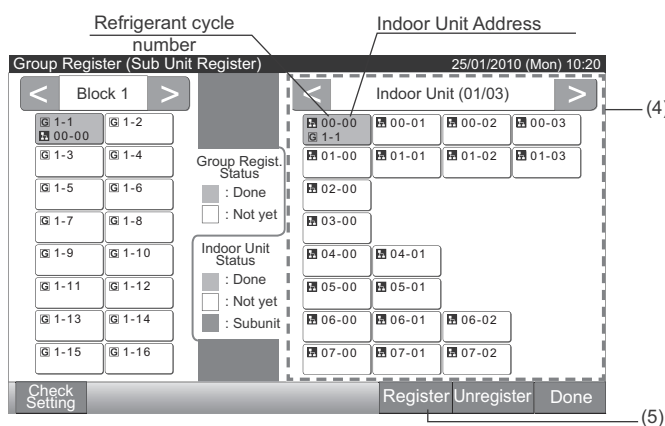
*The white color button indicates the non-registered main unit which cannot be selected.*

- 4 Select the indoor unit for "Sub Unit Register".
  - Tap "<" or ">" on the upper right of the touchscreen, the display of indoor units is switched.
  - The information of the refrigerant cycle number and indoor unit address are indicated in the indoor unit button as "Refrigerant Cycle No - Indoor Unit Address".
  - Select the indoor unit button by tapping. The selected button is rimmed with orange line. If the selected button is tapped again, the indoor unit selection is canceled.
  - Indoor unit that already registered as main unit cannot be selected. (The button color is blue.)
- 5 Tap "Register" to register the sub units while the group and indoor units are selected.
  - If the group and indoor units for the sub units are not selected, the "Register" indication is grayout which cannot be tapped.
  - The button color of the registered group and indoor unit are changed to purple.

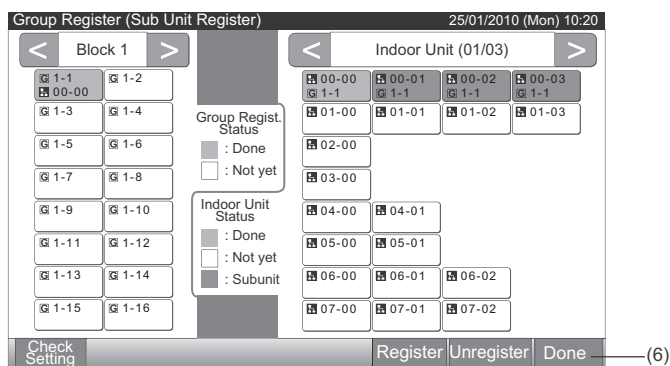
Proceed to register the sub unit depending on the setting afterwards.

Continue "Sub Unit Register" (3)

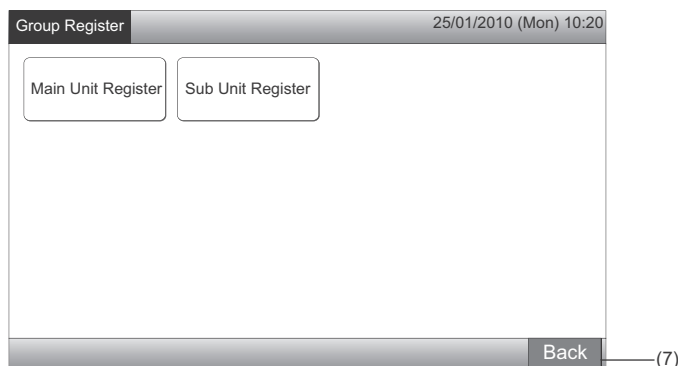
Exit "Sub Unit Register" (6)



- 6 Tap "Done" on "Group Register (Sub Unit Register)" to return to the screen of "Group Register".



- 7 Tap "Back" to return to the screen of "Service Menu".



#### NOTE

**Maximum 15 sub units register is available in the same remote control group.**

**The indoor unit without remote control switch cannot register as the sub unit. (Refer to Group register section).**

### 5.5.3 How to unregister group

- 1 Select "Group Register" on the screen of "Service Menu". Refer to item How to register group (Main unit).



#### NOTE

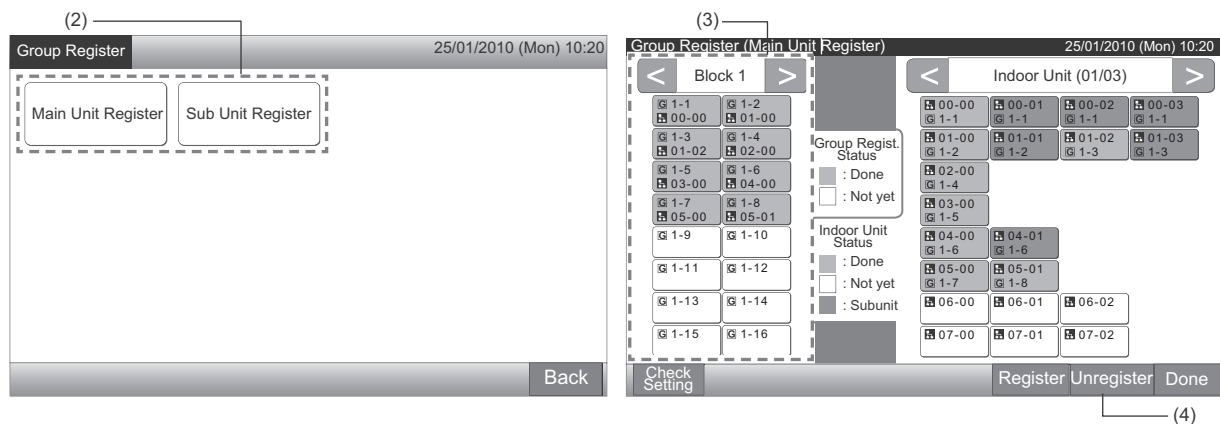
*This function cannot be selected when the external input signal is input to the external input terminal 1 or 2.*

- 2 Select "Main Unit Register (or Sub Unit Register)" on the screen of "Group Register".
- 3 Select group to unregister.
  - When tapping "<" or ">" on the upper left of the touchscreen, the block indication is switched.
  - Select the group button by tapping, the selected button is rimmed with the orange line. If the selected group button is tapped again, the group selection will be canceled.
- 4 Tap "Unregister" and group register is unregistered. The button color of the group and the indoor unit turn to white.
  - When tapping "Unregister" on the screen of "Main Unit Register", the main unit and the sub units are unregistered.
  - When tapping "Unregister" on the screen of "Sub Unit Register", the sub units are unregistered.

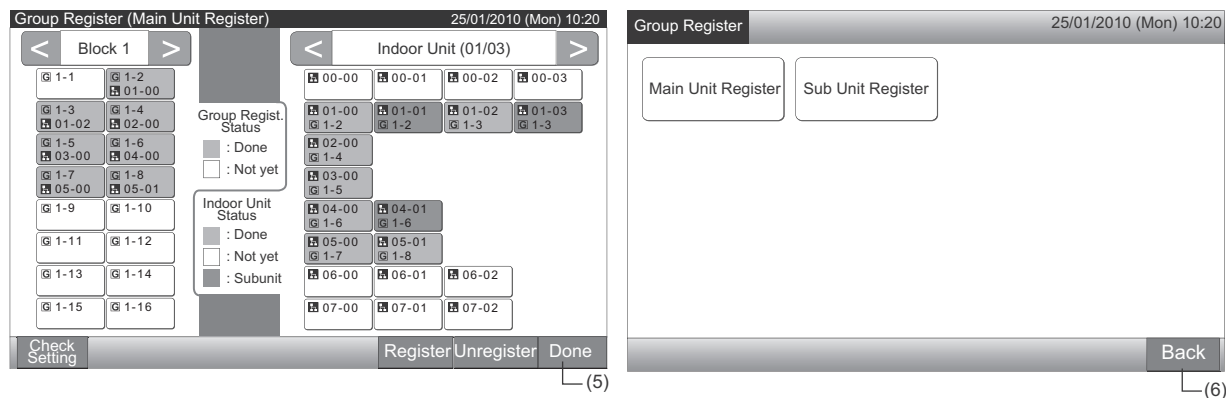
Proceed to unregister the group depending on the setting afterwards.

Continue of unregistering "Group Register" (3)

Exit of unregistering "Group Register" (5)



- 5 Tap "Done" to return to screen of "Group Register".
- 6 Tap "Back" on "Group Register" to return to screen of "Service Menu".





### 5.5.4 How to check group register

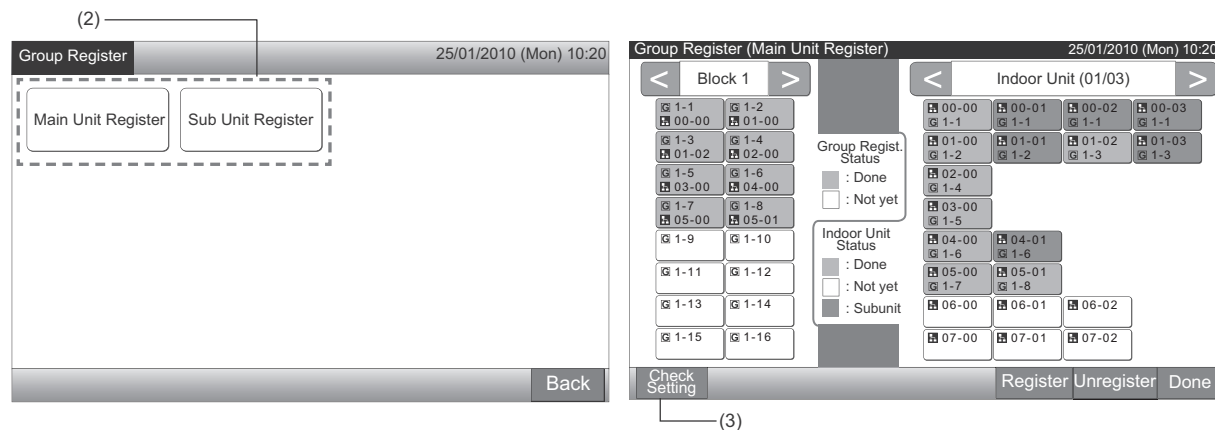
- 1 Select "Group Register" on the screen of "Service Menu". Refer to item How to register group (Main unit).



#### NOTE

*This function cannot be selected when the external input signal is input to the external input terminal 1 or 2.*

- 2 Select "Main Unit Register (or Sub Unit Register)" on the screen of "Group Register".
- 3 Tap "Check Setting" on the lower left of the touchscreen.



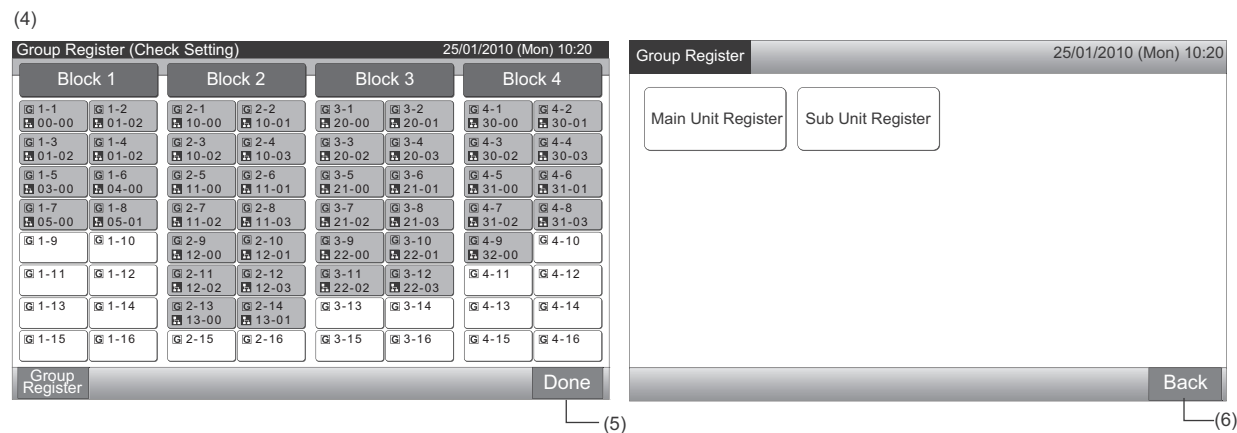
- 4 The screen is changed to the check screen of group register.



#### NOTE

*If tap "Register" on the lower right of the touchscreen the screen of "Group Register" will be indicated.*

- 5 Tap "Done" to return to the screen of "Group Register".
- 6 Tap "Back" to return to the screen of "Service Menu".



## 5.6 SCHEDULE OPERATION

This function is used for the timer operation.

Set by Monitor 1 or 2 → Menu → Schedule Setting.

The schedule setting is possible to set for the block and each group.

Refer to the chapter Schedule Operation for details.

Holiday setting that does not activate the schedule is also available.

## 5.7 OPTIONAL FUNCTION SETTING

This function is used for setting and changing the function selection of air conditioner and central station listed in the following table.

Function	Description
Fixing Operation Mode	Tap "Enable" of "Fixing Operation Mode" to fix the present operation mode. The operation mode is fixed as present setting which cannot be changed from the remote control switch and the central station.
Fixing Temperature Setting	Tap "Enable" of "Fixing Temperature Setting" to fix the present set temperature. The setting temperature is fixed as present setting which cannot be changed from the remote control switch and the central station.
Cooling Only	Tap "Enable" of "Cooling Only" to fix the operation mode as cooling. This function is used for heat pump models which can be operated such as the cooling only models. The operation mode "HEAT" and "AUTO" cannot be selected from the remote control switch and the central station.
Auto	Tap "Enable" of "Auto" to use the cooling/heating automatic operation. It is possible to set this mode from the remote control switch and the central station. However, in the following cases, "AUTO" cannot be selected. <ul style="list-style-type: none"> <li>Connected to the model of Cooling Only.</li> <li>The function "Cooling Only" is enabled.</li> </ul>
Fixing Fan Speed	Tap "Enable" of "Fixing Fan Speed" to fix the fan speed. The fan speed is fixed as present setting which cannot be changed by the remote control switch and the central station.
Control Mode	This function is used for changing the control mode of the central station. When this function is set, tap "All Groups" to be target groups, and select the control mode "Normal" or "Run/Stop Only". <ul style="list-style-type: none"> <li>Normal: "Setting" is displayed when tapping the group button. This mode is the normal factory setting which is available for each group.</li> <li>Run/Stop Only: The control mode at "Monitor 1 or 2" is changed to only "Run and Stop" by each group.</li> </ul>
RCS operation is prohibited to set OFF time	Tap "Enable" to set the command of "Prohibited Remote Control Operation" for the timer operation scheduled group. When "Stop" operation is performed by the timer operation, "Prohibited Remote Control Operation" command is set simultaneously with this function. "Prohibited Remote Control Operation" command will be canceled at the "ON" time of timer operation. However, the "Run" command will not be carried out.
Display of Accumulated Operation Time	Tap "Disable" to hide the numerical value of the accumulated operation time. Before setting, tap "All Groups" at "Optional Function" screen.



### NOTE

- "Optional Function Setting" contents are set to the group by the central station, check the setting from the remote control switch in the same group. If setting is not reflected, set same contents by the remote control switch. In the same way, "Optional Function Setting" contents such as "Fixing Operation Mode", "Fixing Temperature Setting", "Cooling Only", "Fixing Fan Speed" or "Auto" are set to the group by the remote control switch, check the setting from the central station. If setting is not reflected, set same contents by the central station.**
- Number 3 of "Demand Function Setting" is set to the group, the setting temperature is reset to 20oC (in heating operation) or 28oC (in cooling operation) when the demand signal is OFF. In the case, both of "Fixing Temperature Setting" and Number 3 of "Demand Function Setting" are set to group, the fixed temperature is not changed even if the demand signal is OFF.**
- Do not set "Power Supply ON/OFF 1 and 2" by remote control switch when the function "RCS Operation Prohibited" is used. If use "Power Supply ON/OFF 1 and 2" mode, the function "RCS Operation Permitted" setting is required.**

- 1 Select "Optional Function Setting" on the screen of "Service Menu".

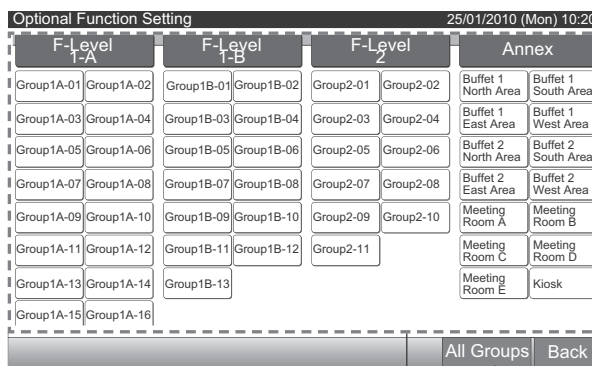
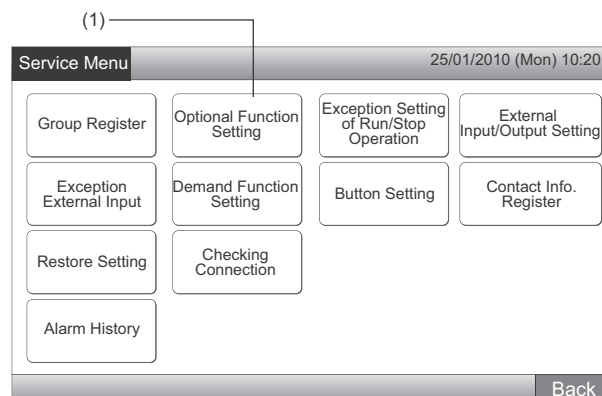
**NOTE**

*This function cannot be selected when the air conditioner(s) is operated.*

- 2 Select the target groups or block for "Optional Function Setting" by tapping "All Groups", "Block" or "Group".

Select "All Groups" for the optional function setting when the following item settings are changed.

- Operation mode
- Display of Accumulated Operation Time



- 3 Select "Enable" or "Disable" for the each function.

The button color of selected function is changed to yellow with orange rim.

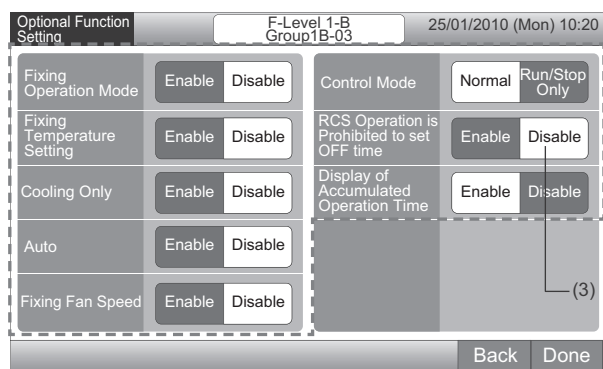
Proceed to select the optional function setting depending on the setting afterwards.

Set the optional function of other group. (4)

Exit the optional function setting. (5)

- 4 Tap "Back" to return to the screen of "Optional Function Setting". Repeat (2) and (3) to set "Optional Function Setting".

- 5 Tap "Done" to finish this setting. The screen is returned to "Service Menu".



(4) (5)

## 5.8 EXCEPTION SETTING OF RUN/STOP OPERATION

This function is used in cases of exception to the command of "All Groups Run/Stop" operation and "Run/Stop by Block" operation to the selected groups or blocks.

Selecting of "Exception Setting of Run/Stop Operation" (All Groups/Block) is available as follows.

- Run and Stop
- Run
- Stop

**NOTE**

- "All Run/Stop" and "Run/Stop by Block" command will not be affected when they are set to the groups/blocks. However, these commands are affected as follows even this function is set.

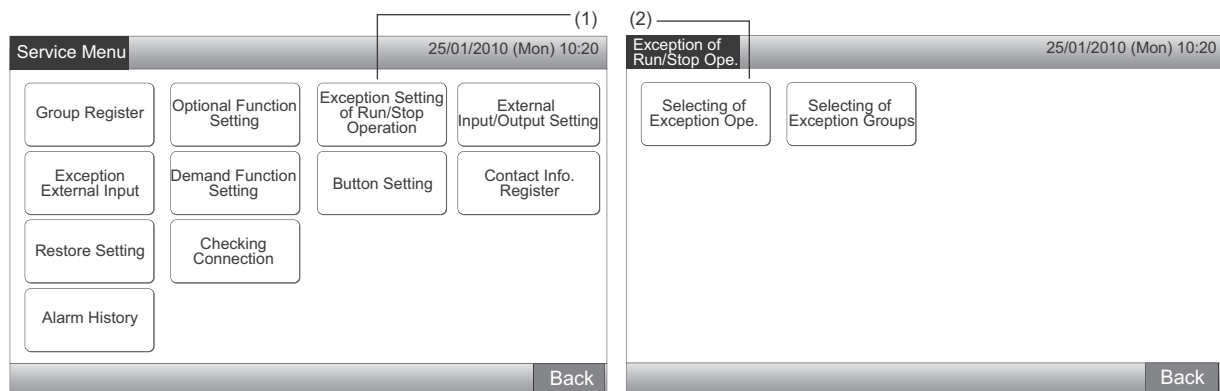
- Scheduled Timer Operation.

- "All Run/Stop" and "Run/Stop by Block" by External Input command.

- "Run/Stop" operation is available when the group is selected individually.

### 5.8.1 Selecting of exception operation

- 1 Select "Exception Setting of Run/Stop Operation" on the screen of "Service Menu".
- 2 Select "Selecting of Exception Ope." on the screen of "Exception of Run/Stop Ope."



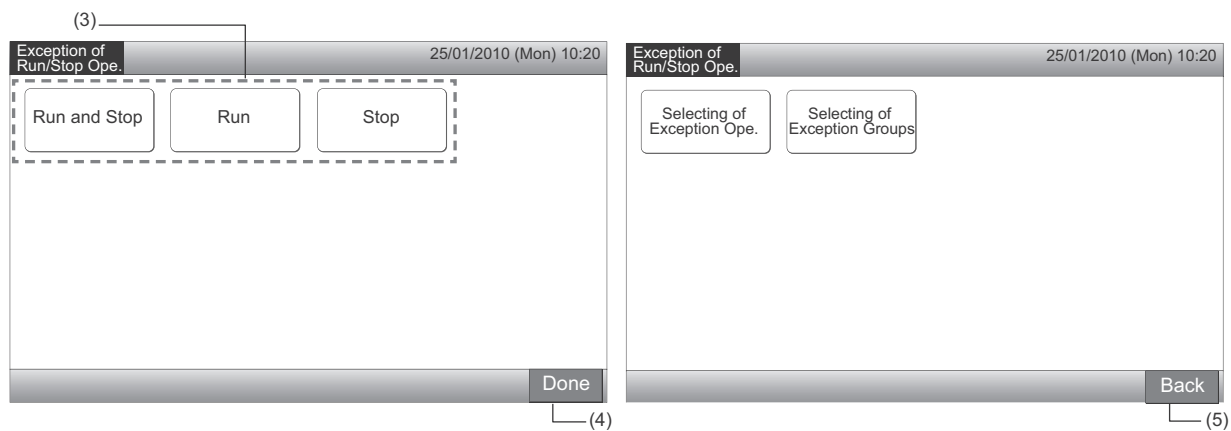
- 3 Select the operation button for exception.  
The selected button is rimmed with orange line.
- 4 Tap "Done" to return to the screen of "Exception of Run/Stop Ope."



#### NOTE

**If the target groups for the exception setting of Run/Stop operation are not selected, tap "Selecting of Exception Groups" and select the target groups.**

- 5 Tap "Back" to return to the screen of "Service Menu".



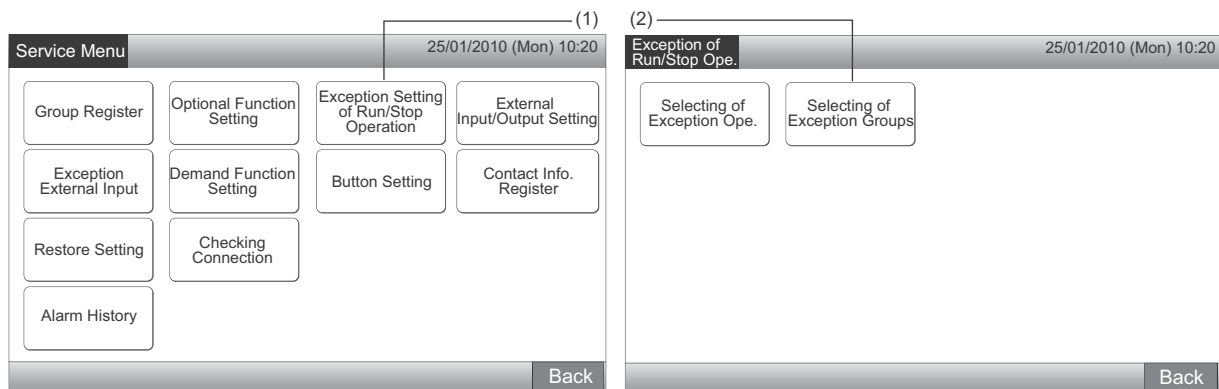
### 5.8.2 Selecting of exception groups

- 1 Select "Exception Setting of Run/Stop Operation" on the screen of "Service Menu".
- 2 Select "Selecting of Exception Groups" on the screen of "Exception of Run/Stop Ope."

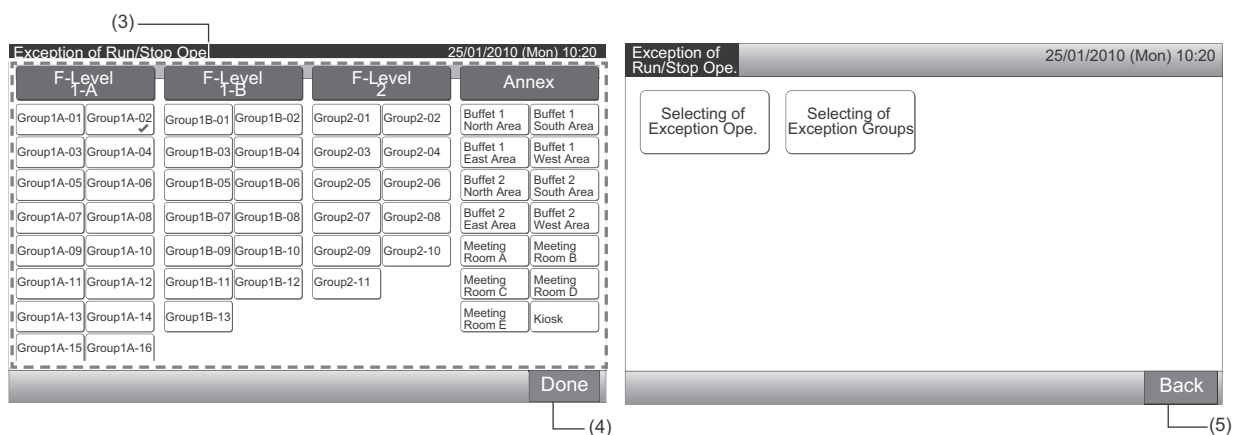


#### NOTE

The button of "Selecting of Exception Groups" cannot select when "Selecting of Exception Ope." is not set. Set "Selecting of Exception Ope." content firstly.



- 3 Select the target Blocks/Groups for exception operation.
  - Tap the each group or block button to select the target. If tap again the same group or block button, the selection will be canceled.
  - The mark of "✓" is indicated in the selected group button.
- 4 Tap "Done" to return to the screen of "Exception of Run/Stop Ope."
- 5 Tap "Back" to finish this setting. The screen is returned to "Service Menu".



## 5.9 EXTERNAL INPUT/OUTPUT SETTING

The external input/output each of two terminals are available. The assigned functions are shown in below.

Input and Output	Connection	Function	
Input 1	TB3 1-2 Pin	All Run/Stop (Level)	Emergency Stop (Level)
Input 2	TB3 2-3 Pin	All Run (Pulse)	Demand Function (Input 1 only)
		All Stop (Pulse)	No Setting (Factory Setting)
Output 1	TB3 4-5 Pin	All Run	
Output 2	TB3 5-6 Pin	All Alarm	
		No Setting (Factory Setting)	

### ◆ External Input Function

#### 1 All Run/Stop (Level)

All groups simultaneously Run/Stop operation by the external input signal

#### 2 All Run (Pulse)

All groups simultaneously Run operation by the external pulse input signal

#### 3 All Stop (Pulse)

All groups simultaneously Stop operation by the external pulse signal input

#### 4 Emergency Stop (Level)

All groups simultaneously Stop operating on receiving an the external emergency stop signal. While an "Emergency Stop" is performed, the LCD of the remote control switch displays "Central Control" and the operation cannot be changed from the remote control switch.

In the case using with other central stations, "Run/Stop" operation is available from other central stations even if during the emergency stop.

#### 5 Demand Control Function

A peak demand electrical consumption is cut by the external demand control signal. Only the input terminal 1 is available for the external demand signal. The operation mode of selected group will be changed by the demand signal as follows.

	Demand Signal ON (*1)	Demand Signal OFF (*2)
Demand Function 1	Indoor Unit Operation Stop with RCS Operation Prohibited Mode	The operating condition returns to previous status.
Demand Function 2 (*3)	Cooling or Dry Operation ↓ Fan Operation with RCS Operation Prohibited Mode	
Demand Function 3 (*4)	Heat Operation ↓ Operation Stop with RCS Operation Prohibited Mode	The setting temperature is set as follows. Cooling and Dry Operation.....28°C, Heating Operation.....20°C
Demand Function 4 (*5)	Indoor Unit Operation Stop with RCS Operation Prohibited Mode	
		The operating condition returns to previous status except for setting temperature.

(\*1): The target groups of "Demand Function" are controlled from large numbered group at intervals of 15 seconds. The numbered group arrangement is shown below.

(\*2): The target groups of "Demand Function" are controlled from a small numbered group at intervals of 15 seconds. The numbered group arrangement is shown below.

(\*3): When "AUTO" operation is performed, or "Fixing Operation Mode" is enabled at "Optional Function Setting".

(\*4): When "AUTO" operation is performed, or "Fixing Operation Mode" or "Fixing Temperature Setting" is enabled at "Optional Function Setting".

(\*5): When "Fixing Temperature Setting" is enabled at "Optional Function Setting".

## 6 Demand Function Rotation

When the demand control signal is ON, the operation starting target group for "Demand Function" is selected randomly. After that, "Demand Function" operation is started from selected group to the small numbered group at every intervals for 15 seconds as shown below.

Example.

In the case of 6 groups

Group 5 → Group 4 → Group 3 → Group 2 → Group 1 → Group 6

↑ Selected Group

The numbered group arrangement is shown below.

Monitor 1 (Group)								Monitor 2 (Block)				
Block 1		Block 2		Block 3		Block 4		All Groups	Block 1	Block 2	Block 3	Block 4
Group 1	Group 2	Group 1	Group 2	Group 1	Group 2	Group 1	Group 2	Group 1	Group 2	Group 3	Group 4	
Group 3	Group 4	Group 3	Group 4	Group 3	Group 4	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8	
Group 5	Group 6	Group 5	Group 6	Group 5	Group 6	Group 5	Group 6	Group 9	Group 10	Group 11	Group 12	
Group 7	Group 8	Group 7	Group 8	Group 7	Group 8	Group 7	Group 8	Group 13	Group 14	Group 15	Group 16	
Group 9	Group 10	Group 9	Group 10	Group 9	Group 10	Group 9	Group 10					
Group 11	Group 12	Group 11	Group 12	Group 11	Group 12	Group 11	Group 12					
Group 13	Group 14	Group 13	Group 14	Group 13	Group 14	Group 13	Group 14					
Group 15	Group 16	Group 15	Group 16	Group 15	Group 16	Group 15	Group 16					

Numbered Group Arrangement

### ◆ External Output Function

#### 1 All Run Output

External output for indoor unit operation signal in the target group. The operation signal outputs even if one indoor unit in the target group is operated.

#### 2 External Output Alarm

External output alarm signal for indoor unit in the target group. The alarm signal outputs even if one indoor unit abnormality occurs in the target group.

### ◆ External Input/Output Terminals Specification

Input Terminal:

Non-voltage contact (normal open) for demand signal Input DC12V, 10mA.

The switching of the contact is available.

Pulse width is 300mm or more for pulse signal input.

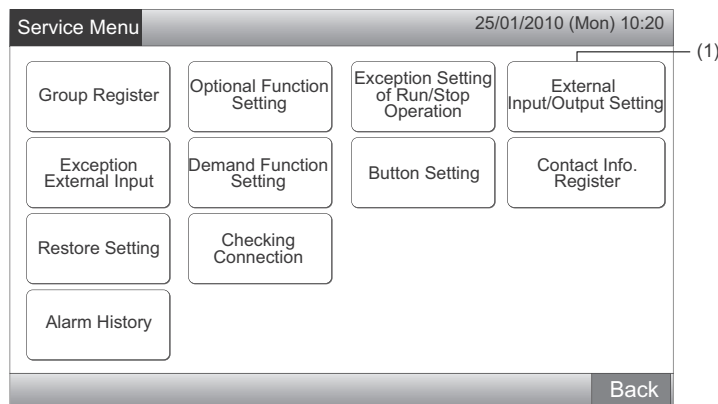
Output Terminal:

Contact (voltage is applied) for signal Output DC12V

Recommended Relay: MY Relay manufactured by Omron Corporation

(Do not use a diode built-in type.)

- 1 Select "External Input/Output Setting" on the screen of "Service Menu".


**NOTE**

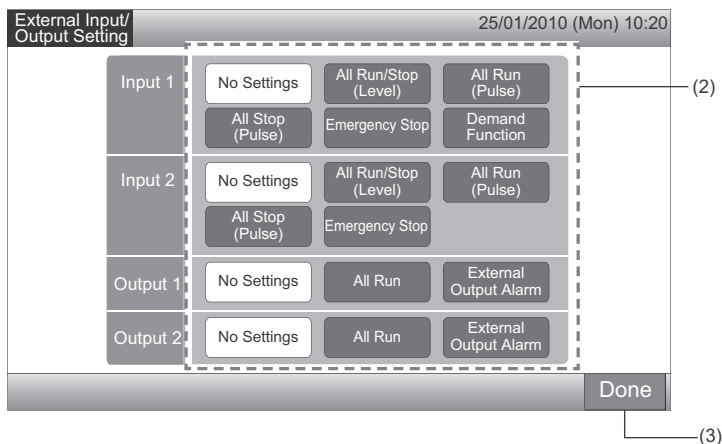
*This function cannot be selected when the air conditioner(s) is operated or the external input signal is input to the external input terminal 1 or 2.*

- 2 Select the function by tapping the button for each external input/output terminal as follows:

"Input 1", "Input 2", "Output 1" and "Output 2"

The selected function button color is changed.

- 3 Tap "Done" to finish this setting. The screen is returned to "Service Menu".



## 5.10 EXCEPTION EXTERNAL INPUT

The external input signals such as "All Run/Stop", etc. are not accepted when this function has been set for the group.

The external input signal exception is available for the input terminal 1 and 2.


**NOTE**

*If this function is set, the emergency stop command from the external input will be disabled.*

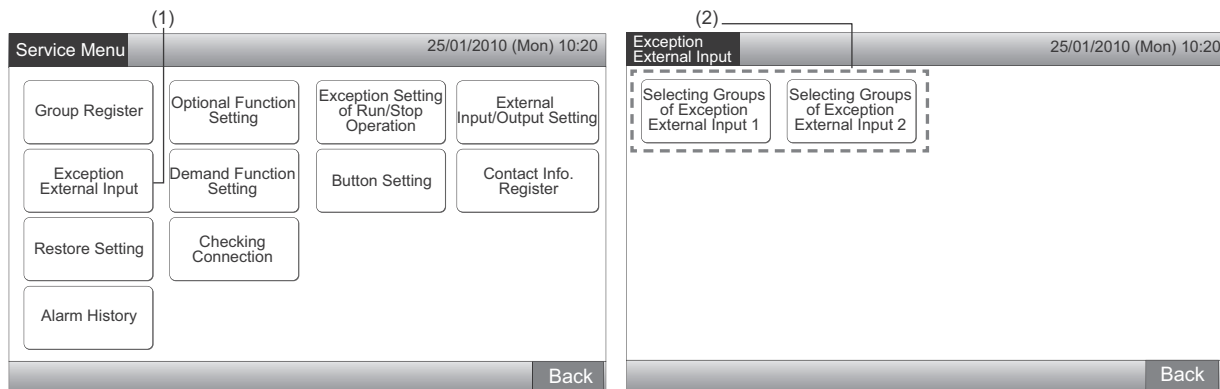


- 1 Select "Exception External Input" on the screen of "Service Menu".

**NOTE**

*This function cannot be selected when the air conditioner(s) is operated or the external input signal is input to the external input terminal 1 or 2.*

- 2 Select "Selecting Groups of Exception External Input 1" or "Selecting Groups of Exception External Input 2" according to the exception external input command.



- 3 Select Blocks/Groups for exception operation.

Tap each group or block button for the exception operation target, the marked of "✓" is indicated in the selected group button.

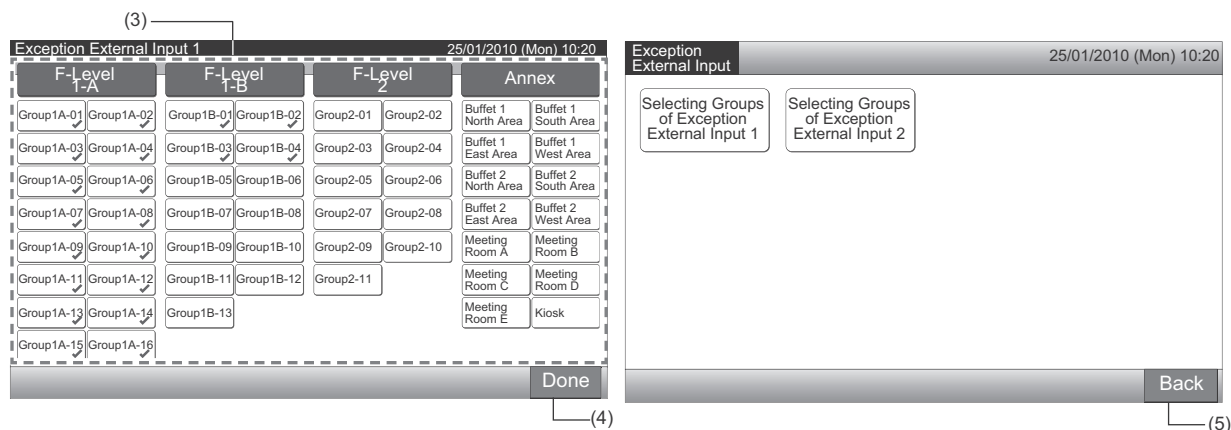
If tap the same group or block button again, the selection of the group will be cancelled.

- 4 Tap "Done" to return to the screen of "Exception External Input".

Proceed to select the group depending on the setting afterwards.

- Select exception group of other external input (1 or 2). (2)
- Exit "Exception External Input". (5)

- 5 Tap "Back" to finish this setting. The screen is returned to "Service Menu".



## 5.11 DEMAND FUNCTION SETTING

The operating condition of the indoor unit is changed to "Stop" or "Thermo-OFF" when "Demand Function" is selected to the terminal of external input 1.

Set by Monitor 1 or 2 → Menu → Service Menu → Demand Function Setting.

### 5.11.1 Demand function setting

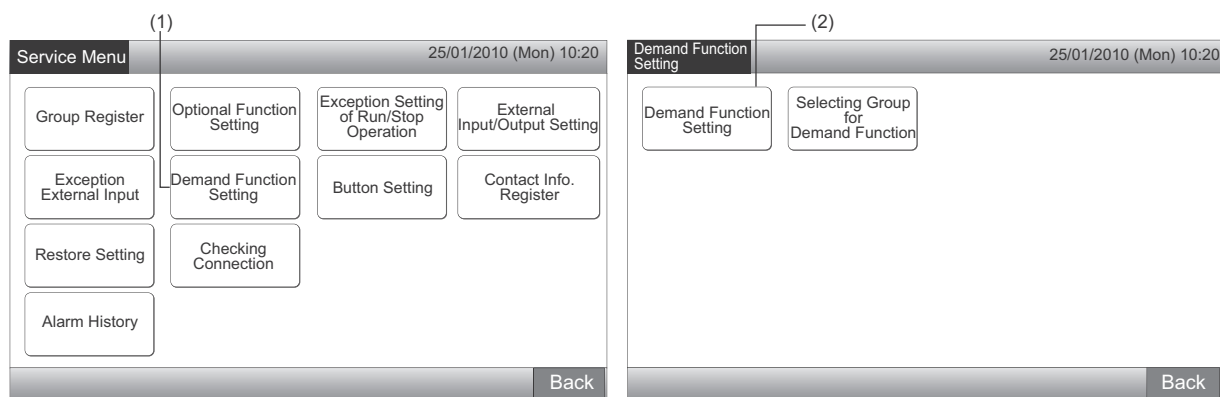
- 1 Select "Demand Function Setting" on the screen of "Service Menu".



#### NOTE

*This function cannot be selected when the external input signal is input to the external input terminal 1 or 2.*

- 2 Select "Demand Function Setting" on the "Demand Function Setting" screen.



- 3 Select the function by tapping the button for each demand function setting.

- 4 Tap "Done" to return to the screen of "Demand Function Setting".

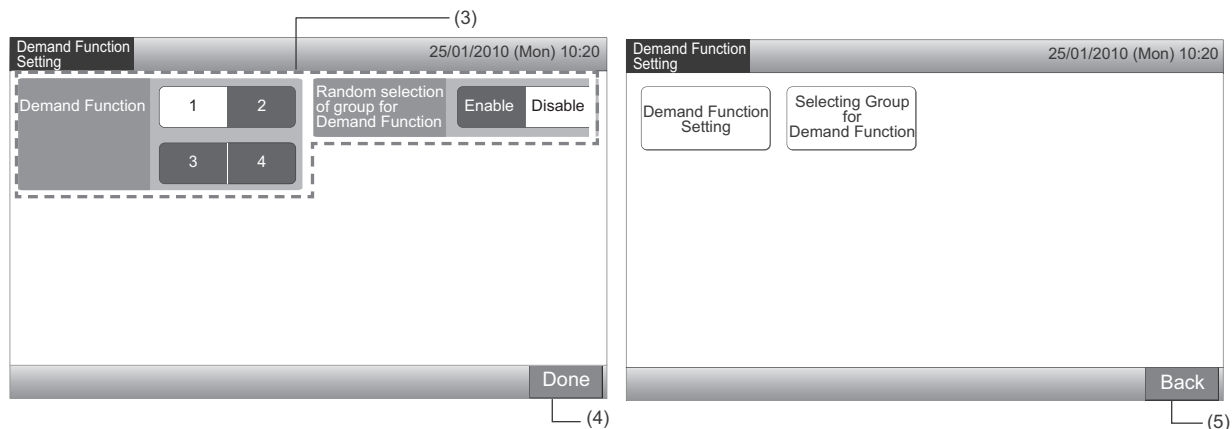


#### NOTE

*If the target groups for the demand function are not selected, tap "Selecting Group for Demand Function" and select the target groups.*

- 5 Tap "Back" to finish this setting.

The screen is returned to "Service Menu".



### 5.11.2 Selecting group for demand function

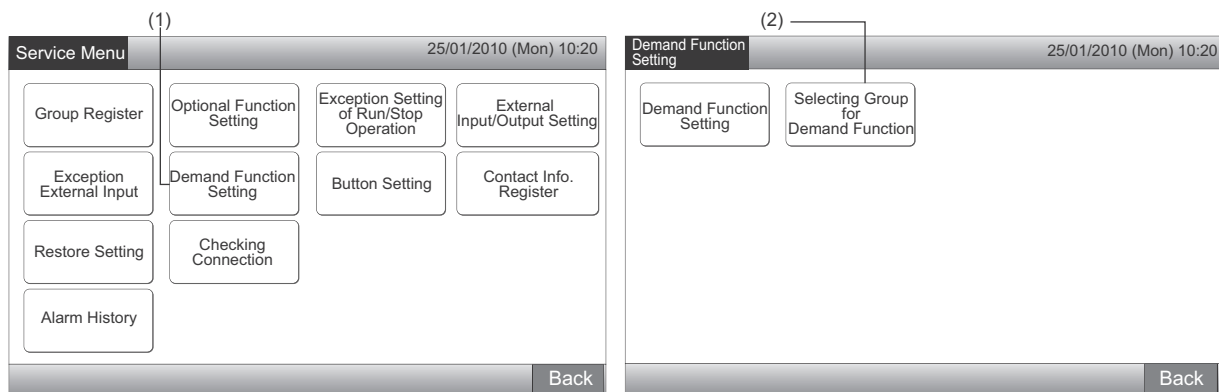
- 1 Select "Demand Function Setting" on the screen of "Service Menu".



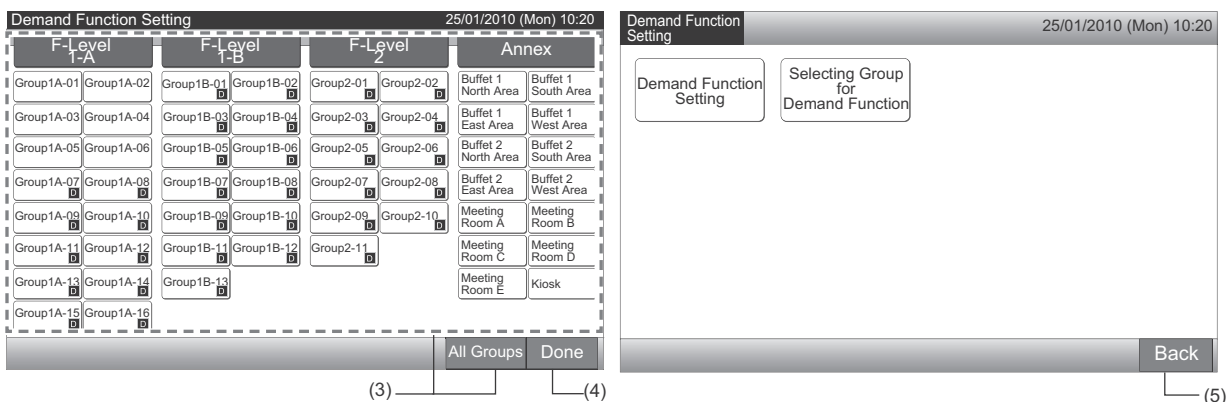
#### NOTE

*This function cannot be selected when the external input signal is input to the external input terminal 1 or 2.*

- 2 Select "Selecting Group for Demand Function" on the screen of "Demand Function Setting".



- 3 Tap the group, block or "All Groups" button(s) to select the target groups for the demand function control.
  - The selected group button color is changed to blue and the mark of "D" is indicated.
  - If the selected group buttons, block buttons or "All Groups" are tapped again, the selection will be cancelled.
- 4 Tap "Done" to return to the screen of "Demand Function Setting".
- 5 Tap "Back" to finish this setting. The screen is returned to "Service Menu".

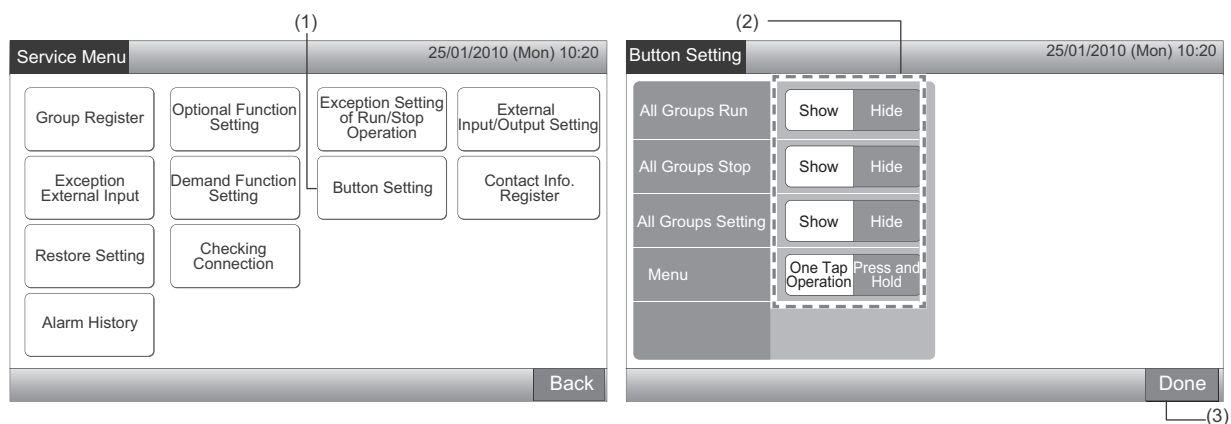


## 5.12 BUTTON SETTING

The operating button indication can be selected to show or hide for restricting operation.

Set by Monitor 1 or 2 → Menu → Service Menu → Button Setting.

- 1 Select "Button Setting" on the screen of "Service Menu".
- 2 Select "Show" or "Hide" for the operating button indication of the each function. The selected button color is changed.
- 3 Tap "Done" to finish this setting. The screen is returned to "Service Menu".

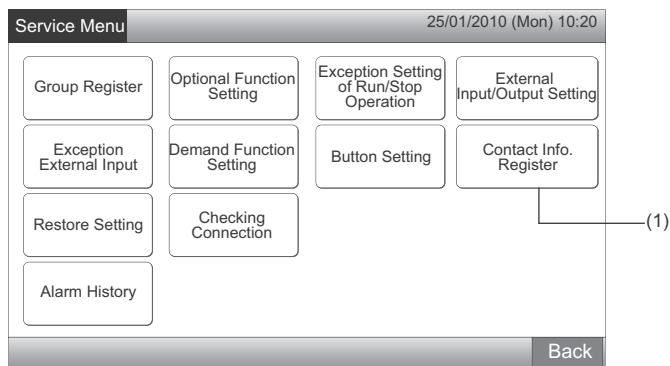


## 5.13 CONTACT INFORMATION REGISTER

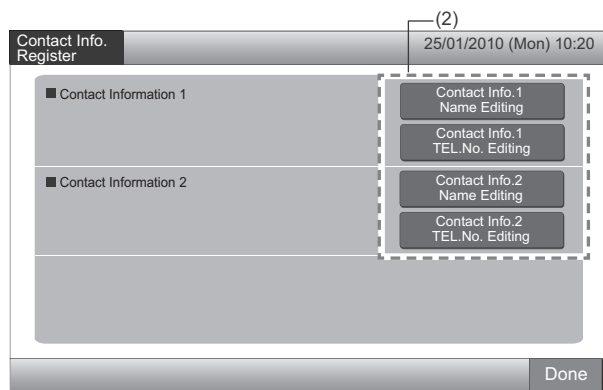
The contact information editing or registering for "Contact Info. Register" indication function.

Set by Monitor 1 or 2 → Menu → Service Menu → Contact Info. Register.

- 1 Select "Contact Info. Register" on the screen of "Service Menu".



- 2 Select "Contact Info. 1 Name Editing" or "Contact Info. 1 TEL. No. Editing" (2) to register the information.
- 3 Select the characters to input from the keyboard.



### NOTE

**Only the keyboard of numeric characters and symbols can be selected when "Contact Info. 1 TEL. No. Editing" (2) is selected**

- 4 Input the information. Max. 50 characters are available to input.
- 5 Tap "Close" to finish. The screen is returned to "Contact Info. Register".
- 6 Proceed to register the contact information depending on the setting afterwards.
  - Continue to register or edit the contact information. (2)
  - Finish this setting. (7)
- 7 Tap "Done" to finish this setting. The screen is returned to "Service Menu".

(5)

(7)

## 5.14 ALARM HISTORY

The alarm history record of the air conditioner and the central station.

The time of alarm occurrence, abnormal unit and alarm code are recorded, and the alarm history record deleting is performed by this function.

Set by Monitor 1 or 2 → Menu → Service Menu → Alarm History.

- 1 Select "Alarm History" on the screen of "Service Menu".
- 2 "Alarm History" screen is indicated. If the alarm records are more than 11, tap "△" or "▽" to change of the page.
  - Maximum 100 records can be stored in the memory.
- 3 When deleting alarm history record, tap "Delete History". When tapping "OK" at the confirmation screen, all alarm history records are deleted.
  - If tap "Cancel", the screen will be returned to "Alarm History".
- 4 Tap "Done" to finish this setting. The screen is returned to "Service Menu".

(1)

Date	Time	Block Name	Group Name	I.U. Address	Alarm Code
2010/01/23	18:30	1F -A	Group1A-08	05-02	00
2010/01/08	09:15	Annex	Meeting Room	22-03	99

(2)

(3)

(4)

## 5.15 RESTORE SETTING

- 1 Select "Restore Setting" on the screen of "Service Menu".



### NOTE

*This function cannot be selected when "RCS Operation Prohibited" is set. Set "RCS Operation Permitted".*

- 2 Tap "OK" at the confirmation screen.



### NOTE

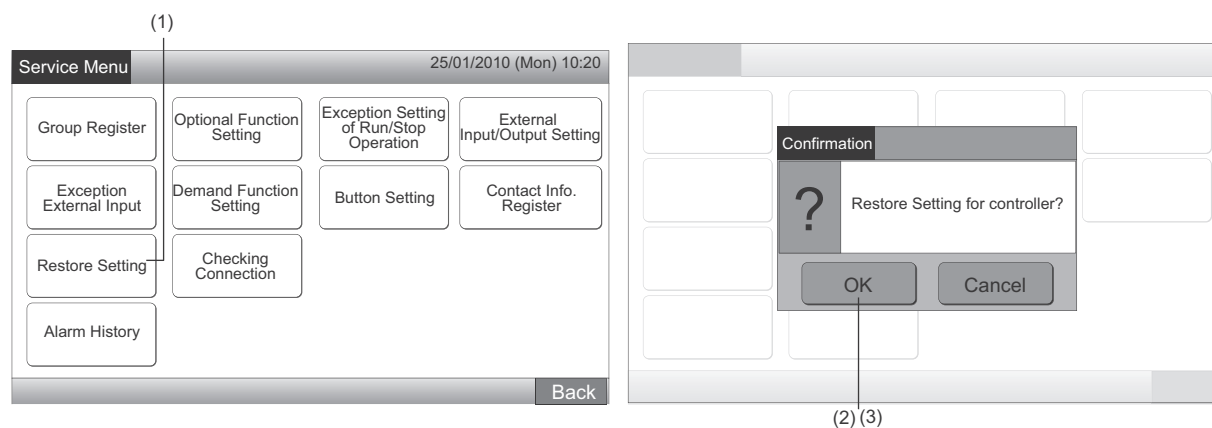
*If "Cancel" is tapped, the screen will be returned to "Service Menu".*

- 3 The confirmation screen is displayed again, tap "OK" to restore. After several seconds, the screen is changed and the connection check of the system is started.



### NOTE

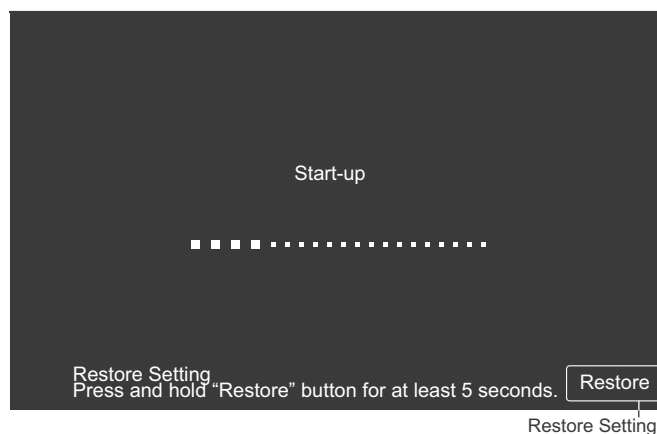
*If "Cancel" is tapped, the screen will be returned to "Service Menu".*



### ◆ Information

Restore setting can be set by the screen of "Start-up" displayed.

- 1 Tap "Restore Setting" for more than 5 seconds in the lower right on the screen of "Start-up".
- 2 After a while, connection check process is started.
- 3 When the process for connection check is finished, "Adjusting Date/Time" screen is indicated. (Refer to Adjusting Date/Time)



## 5.16 CHECKING CONNECTION

- 1 Select "Checking Connection" on the screen of "Service Menu".



### NOTE

*This function cannot be selected when the air conditioner(s) is operated or the external input signal is input to the external input terminal 1 or 2.*

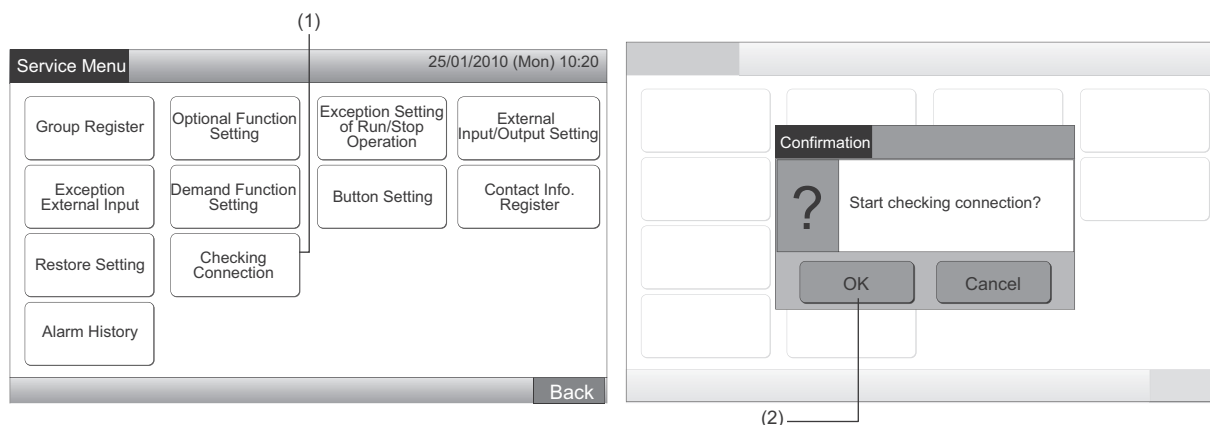
- 2 Tap "OK" at the confirmation screen.



### NOTE

*If tap "Cancel", the screen will be returned to "Service Menu". Proceed to update the connection information depending on the setting afterwards.*

- Update connection information with keeping Group register and settings such as schedule setting, etc. (3)
- Perform reconnection checking by initializing each setting. (It is same as the restore setting). (7)

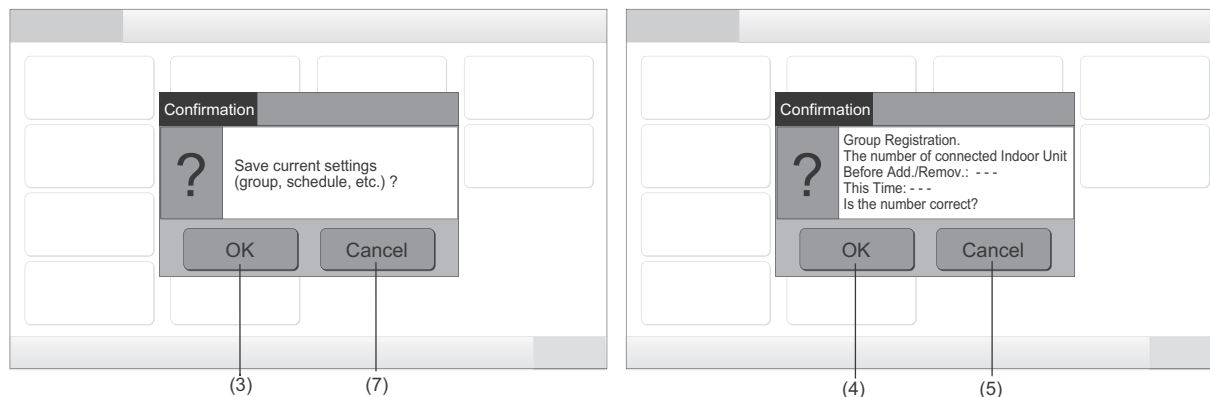


Keeping the setting

- 3 Tap "OK" at the confirmation screen for keeping the setting.
  - 4 When the process of checking connection is finished, the number of connected units is indicated on the confirmation screen.
- If the number of connected units is indicated correctly, tap "OK".

The screen of "Main Unit Register" will be displayed. Refer to item How to register group (Main unit).

- 5 If the number of connected units indicates different from actual number, tap "Cancel".



- 6 The confirmation screen is displayed again. Check the items in the confirmation screen to the air conditioners. The process of checking connection will start again.


**NOTE**

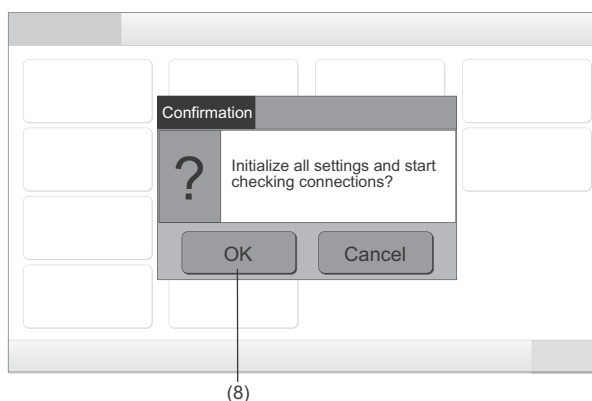
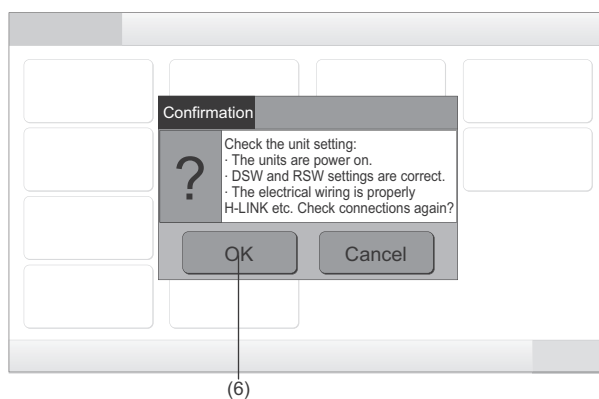
If tap "Cancel", the screen is returned to "Service Menu".

Not keeping the setting

- 7 Tap "Cancel" at the confirmation screen.  
 8 Display the confirmation screen of initialization, tap "OK". Initialize all settings and start checking connection.  
 9 "OK" cannot be selected when the "RCS Operation Prohibited" is set, change to "RCS Operation Permitted".


**NOTE**

If tap "Cancel", the screen is returned to "Service Menu".

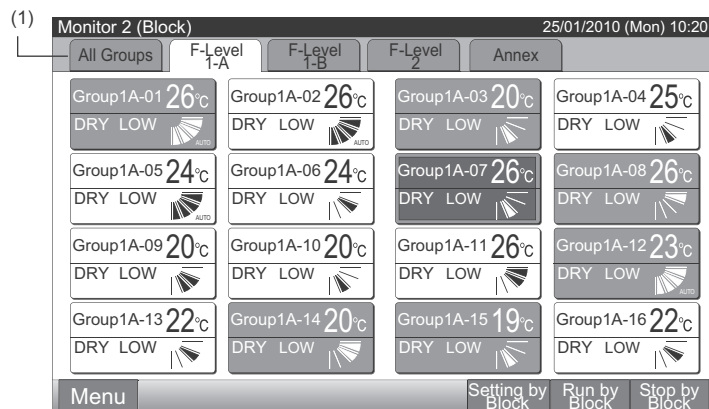


## 6 OPERATION PROCEDURE

### 6.1 DISPLAY OF ALL GROUPS

- 1 Tap "All Groups" on the touchscreen display.

The tab of marked with (1), "All Groups" will not be displayed if only 1 (one) block has been registered.





- 2 All groups are displayed on the touchscreen. (All indoor units connected to the central station will be indicated). Each operation status is indicated by color of the group button as follows:

(2)

Monitor 1 (All Groups)																25/01/2010 (Mon) 10:20	
F-Level 1-A				F-Level 1-B				F-Level 2				Annex					
Group1A-01	Group1A-02	Group1B-01	Group1B-02	Group2-01	Group2-02	Buffet 1 North Area	Buffet 1 South Area										
Group1A-03	Group1A-04	Group1B-03	Group1B-04	Group2-03	Group2-04	Buffet 1 East Area	Buffet 1 West Area										
Group1A-05	Group1A-06	Group1B-05	Group1B-06	Group2-05	Group2-06	Buffet 2 North Area	Buffet 2 South Area										
Group1A-07	Group1A-08	Group1B-07	Group1B-08	Group2-07	Group2-08	Buffet 2 East Area	Buffet 2 West Area										
Group1A-09	Group1A-10	Group1B-09	Group1B-10	Group2-09	Group2-10	Meeting Room A	Meeting Room B										
Group1A-11	Group1A-12	Group1B-11	Group1B-12	Group2-11		Meeting Room C	Meeting Room D										
Group1A-13	Group1A-14	Group1B-13				Meeting Room E	Kiosk										
Group1A-15	Group1A-16																
Menu				All Groups Setting				All Groups Run				All Groups Stop					

Green: Run  
Gray: Stop  
Red: Abnormal

**NOTE**

The touchscreen display will automatically sleep when the touchscreen is not operated for the given length of time. (To wake up, tap the screen).

## 6.2 DISPLAY OF SPECIFIED BLOCK

- 1 Select the target block from the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".

Monitor 1 (All Groups)

Monitor 2 (Block)

(1)

Monitor 1 (All Groups)																25/01/2010 (Mon) 10:20	
F-Level 1-A				F-Level 1-B				F-Level 2				Annex					
Group1A-01	Group1A-02	Group1B-01	Group1B-02	Group2-01	Group2-02	Buffet 1 North Area	Buffet 1 South Area										
Group1A-03	Group1A-04	Group1B-03	Group1B-04	Group2-03	Group2-04	Buffet 1 East Area	Buffet 1 West Area										
Group1A-05	Group1A-06	Group1B-05	Group1B-06	Group2-05	Group2-06	Buffet 2 North Area	Buffet 2 South Area										
Group1A-07	Group1A-08	Group1B-07	Group1B-08	Group2-07	Group2-08	Buffet 2 East Area	Buffet 2 West Area										
Group1A-09	Group1A-10	Group1B-09	Group1B-10	Group2-09	Group2-10	Meeting Room A	Meeting Room B										
Group1A-11	Group1A-12	Group1B-11	Group1B-12	Group2-11		Meeting Room C	Meeting Room D										
Group1A-13	Group1A-14	Group1B-13				Meeting Room E	Kiosk										
Group1A-15	Group1A-16																
Menu				All Groups Setting				All Groups Run				All Groups Stop					

(1)

Monitor 2 (Block)																25/01/2010 (Mon) 10:20	
All Groups				F-Level 1-A				F-Level 1-B				F-Level 2					
Group1A-01	26°C	Group1A-02	26°C	Group1A-03	20°C	Group1A-04	25°C										
Group1A-05	24°C	Group1A-06	24°C	Group1A-07	26°C	Group1A-08	26°C										
Group1A-09	20°C	Group1A-10	20°C	Group1A-11	26°C	Group1A-12	23°C										
Group1A-13	22°C	Group1A-14	20°C	Group1A-15	19°C	Group1A-16	22°C										
Menu				Setting by Block				Run by Block				Stop by Block					

- 2 The groups in the selected block will be displayed on the touchscreen. Each operation status is indicated by color of the group button as follows:

(2)

(2)

Monitor 2 (Block)																25/01/2010 (Mon) 10:20	
All Groups				F-Level 1-A				F-Level 1-B				F-Level 2					
Group1A-01	26°C	Group1A-02	26°C	Group1A-03	20°C	Group1A-04	25°C										
Group1A-05	24°C	Group1A-06	24°C	Group1A-07	26°C	Group1A-08	26°C										
Group1A-09	20°C	Group1A-10	20°C	Group1A-11	26°C	Group1A-12	23°C										
Group1A-13	22°C	Group1A-14	20°C	Group1A-15	19°C	Group1A-16	22°C										
Menu				Setting by Block				Run by Block				Stop by Block					

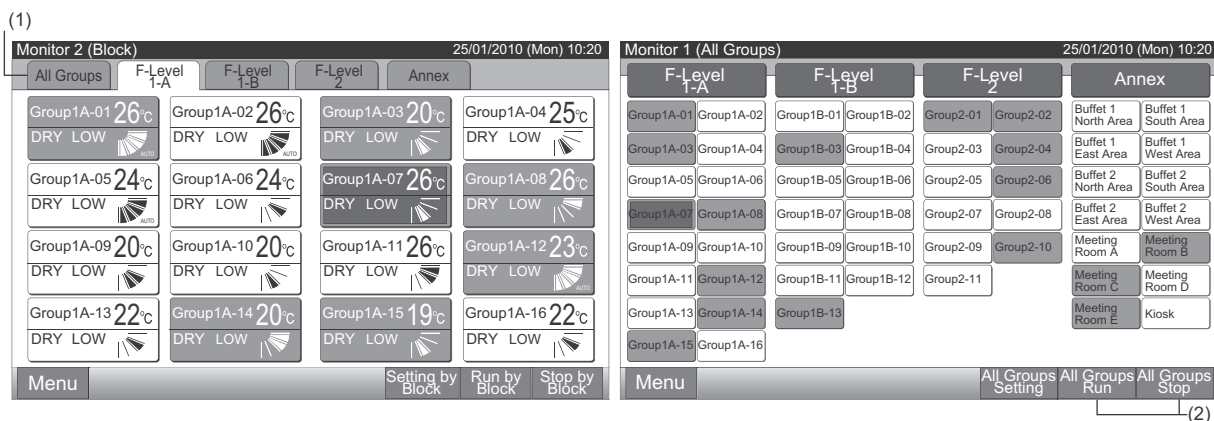
Green: Run  
Gray: Stop  
Red: Abnormal

**NOTE**

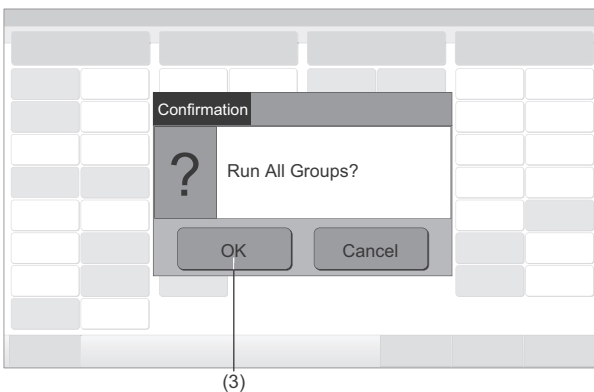
The touchscreen display will automatically sleep when the touchscreen is not operated for the given length of time. (To wake up, tap the screen).

### 6.3 SIMULTANEOUS RUN/STOP FOR ALL GROUPS

- 1 Tap "All Groups" on the touchscreen display.
- 2 Tap "All Groups Run" or "All Groups Stop".



- 3 The confirmation screen will be displayed. Tap "OK". (All indoor units connected to the central station will be simultaneously operated). Tap "Cancel" to cancel this command.

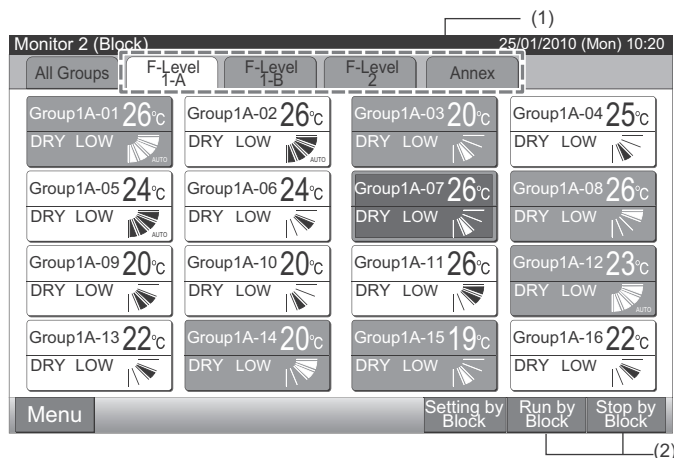


#### NOTE

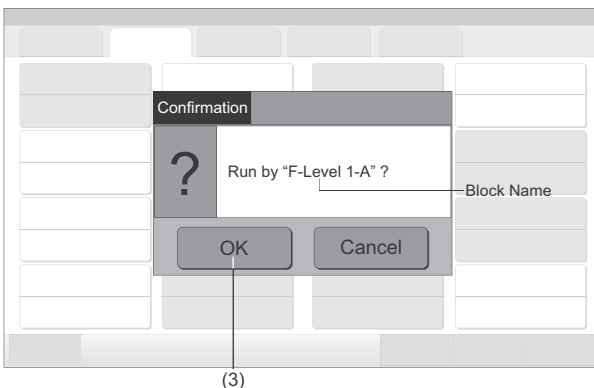
**"All Groups Run/Stop" command will not be effected to the groups specified in "Exception Setting of Run/Stop Operation".**

### 6.4 SIMULTANEOUS RUN/STOP FOR BLOCK

- 1 Select the target block from the touchscreen display to set simultaneous Run/Stop operation.
- 2 Tap "Run by Block" or "Stop by Block".



- 3 The confirmation screen will be indicated. Tap "OK". All groups (all indoor units) in the selected block connected to the central station will be simultaneously operated. Tap "Cancel" to cancel this command.


**NOTE**

**"Run/Stop by Block" command will not be effected to the blocks specified in "Exception Setting of Run/Stop Operation".**

## 6.5 RUN/STOP FOR EACH GROUP

Check the control mode before setting.

### ◆ Control Mode

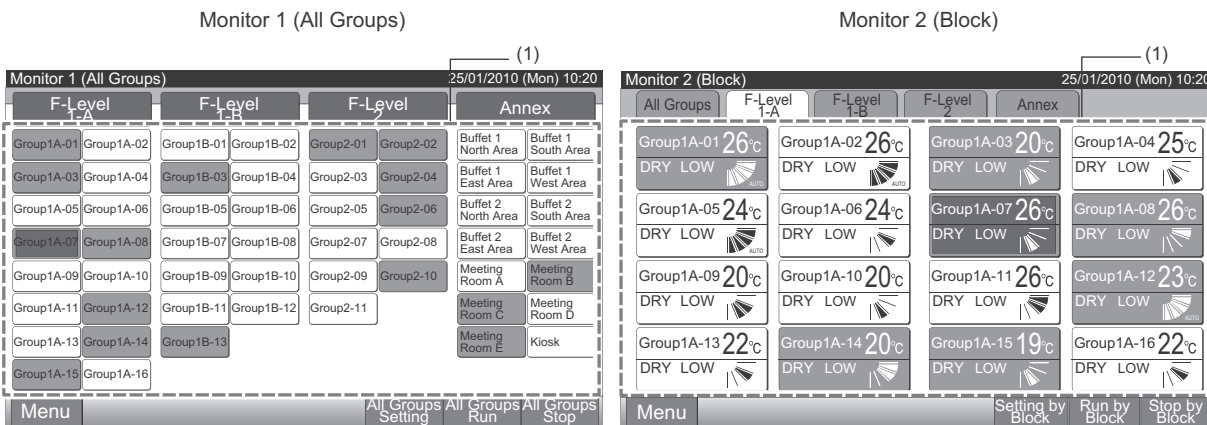
Normal setting: Refer to Run/Stop Operation for Each Group (Control Mode: Normal) section

"Run/Stop Only" mode setting: Refer to Run/Stop Operation for Each Group (Control Mode: "Run/Stop Only") section.

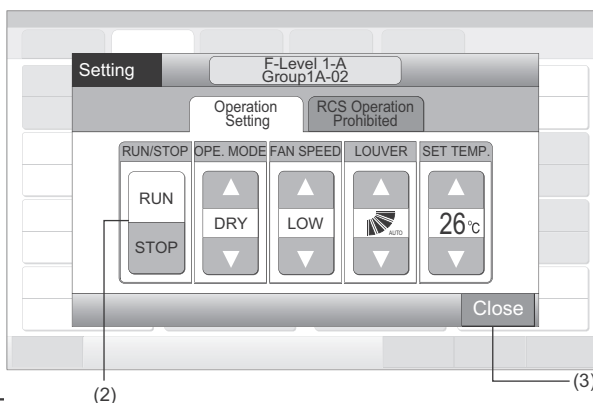
Refer to the Installation Manual for the details of "Run/Stop Only" mode.

### 6.5.1 Run/Stop operation for each group (Control mode: Normal)

- 1 Select the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)". Select the group to set by tapping the group button.



- 2 Selected group setting will be indicated on the touchscreen display. Tap "RUN" or "STOP".
- 3 Tap "Close" to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".



### 6.5.2 Run/Stop operation for each group (Control mode: “Run/Stop only”)

Monitor 1 (All Groups)

- 1 Select the target group at screen of “Monitor 1 (All Groups)” in “Run/Stop Only” mode.
- 2 The selected group operation is alternately changed by tapping as follows.

“Stop” ↔ “Run”

In this mode, simultaneous Run/Stop operations for all groups is available by “All Groups Run” and “All Groups Stop” buttons.

Refer to Simultaneous Run/Stop for All Groups section for details.

(1) Monitor 1 (All Groups) 25/01/2010 (Mon) 10:20															
F-Level 1-A				F-Level 1-B				F-Level 2				Annex			
Group1A-01	Group1A-02	Group1B-01	Group1B-02	Group2-01	Group2-02	Buffet 1 North Area	Buffet 1 South Area	Group1A-03	Group1A-04	Group1B-03	Group1B-04	Group2-03	Group2-04	Buffet 1 East Area	Buffet 1 West Area
Group1A-05	Group1A-06	Group1B-05	Group1B-06	Group2-05	Group2-06	Buffet 2 North Area	Buffet 2 South Area	Group1A-07	Group1A-08	Group1B-07	Group1B-08	Group2-07	Group2-08	Buffet 2 East Area	Buffet 2 West Area
Group1A-09	Group1A-10	Group1B-09	Group1B-10	Group2-09	Group2-10	Meeting Room A	Meeting Room B	Group1A-11	Group1A-12	Group1B-11	Group1B-12	Group2-11		Meeting Room C	Meeting Room D
Group1A-13	Group1A-14	Group1B-13				Meeting Room E	Kiosk	Group1A-15	Group1A-16					Meeting Room E	Kiosk
Menu				All Groups Setting				All Groups Run				All Groups Stop			

(2) Monitor 1 (All Groups) 25/01/2010 (Mon) 10:20															
F-Level 1-A				F-Level 1-B				F-Level 2				Annex			
Group1A-01	Group1A-02	Group1B-01	Group1B-02	Group2-01	Group2-02	Buffet 1 North Area	Buffet 1 South Area	Group1A-03	Group1A-04	Group1B-03	Group1B-04	Group2-03	Group2-04	Buffet 1 East Area	Buffet 1 West Area
Group1A-05	Group1A-06	Group1B-05	Group1B-06	Group2-05	Group2-06	Buffet 2 North Area	Buffet 2 South Area	Group1A-07	Group1A-08	Group1B-07	Group1B-08	Group2-07	Group2-08	Buffet 2 East Area	Buffet 2 West Area
Group1A-09	Group1A-10	Group1B-09	Group1B-10	Group2-09	Group2-10	Meeting Room A	Meeting Room B	Group1A-11	Group1A-12	Group1B-11	Group1B-12	Group2-11		Meeting Room C	Meeting Room D
Group1A-13	Group1A-14	Group1B-13				Meeting Room E	Kiosk	Group1A-15	Group1A-16					Meeting Room E	Kiosk
Menu				All Groups Setting				All Groups Run				All Groups Stop			

Monitor 2 (Block)

- 1 Select the target group at screen of “Monitor 2 (Block)” in “Run/Stop Only” mode.
- 2 The selected group operation is alternately changed by tapping as follows.

“Stop” ↔ “Run”

In this mode, simultaneous Run/Stop operations for block is available by “Run by Block” and “Stop by Block” buttons.

Refer to the item Simultaneous Run/Stop for Block section for details.

(1) Monitor 2 (Block) 25/01/2010 (Mon) 10:20															
All Groups				F-Level 1-A				F-Level 1-B				F-Level 2			
Group1A-01	26°C	Group1A-02	26°C	Group1A-03	20°C	Group1A-04	25°C	Group1A-05	24°C	Group1A-06	24°C	Group1A-07	26°C	Group1A-08	26°C
Group1A-09	20°C	Group1A-10	20°C	Group1A-11	26°C	Group1A-12	23°C	Group1A-13	22°C	Group1A-14	20°C	Group1A-15	19°C	Group1A-16	22°C
Menu				Setting by Block				Run by Block				Stop by Block			

(2) Monitor 2 (Block) 25/01/2010 (Mon) 10:20															
All Groups				F-Level 1-A				F-Level 1-B				F-Level 2			
Group1A-01	26°C	Group1A-02	26°C	Group1A-03	20°C	Group1A-04	25°C	Group1A-05	24°C	Group1A-06	24°C	Group1A-07	26°C	Group1A-08	26°C
Group1A-09	20°C	Group1A-10	20°C	Group1A-11	26°C	Group1A-12	23°C	Group1A-13	22°C	Group1A-14	20°C	Group1A-15	19°C	Group1A-16	22°C
Menu				Setting by Block				Run by Block				Stop by Block			

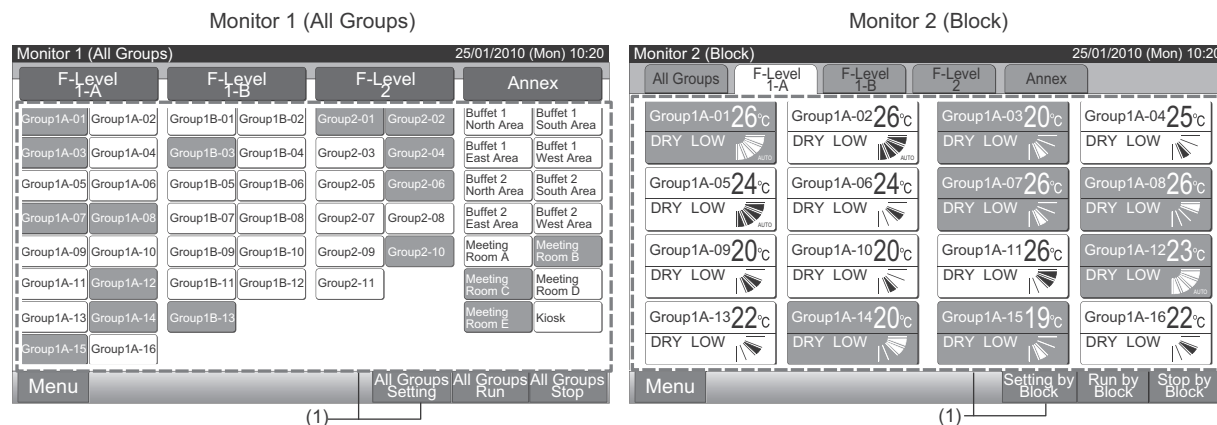


#### NOTE

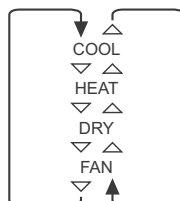
The details of setting method for this function are according to the item *Optional function setting of Installation & Maintenance Manual*.

## 6.6 OPERATION MODE CHANGE

- 1 Select the target group at screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)" to change the operation mode setting. The pop-up of "Setting" for the selected group is displayed on the touchscreen.

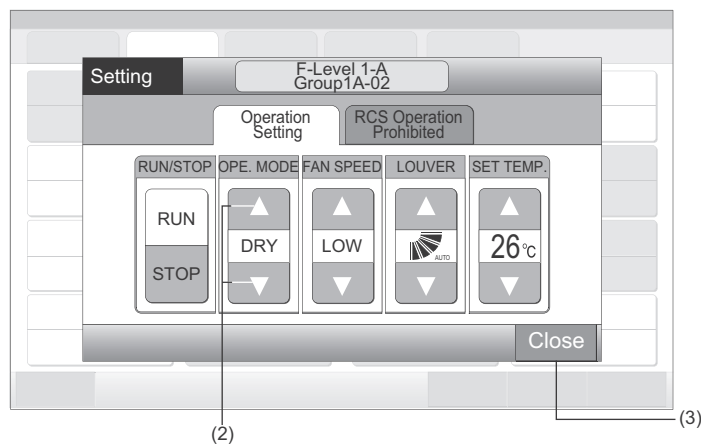


- 2 By tapping "△" or "▽" of the "OPE. MODE", the operation mode will be changed alternately as follows.



The "AUTO" (Heating/Cooling Automatic Operation) will be included as option if applicable.

- 3 Tap "Close" to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".

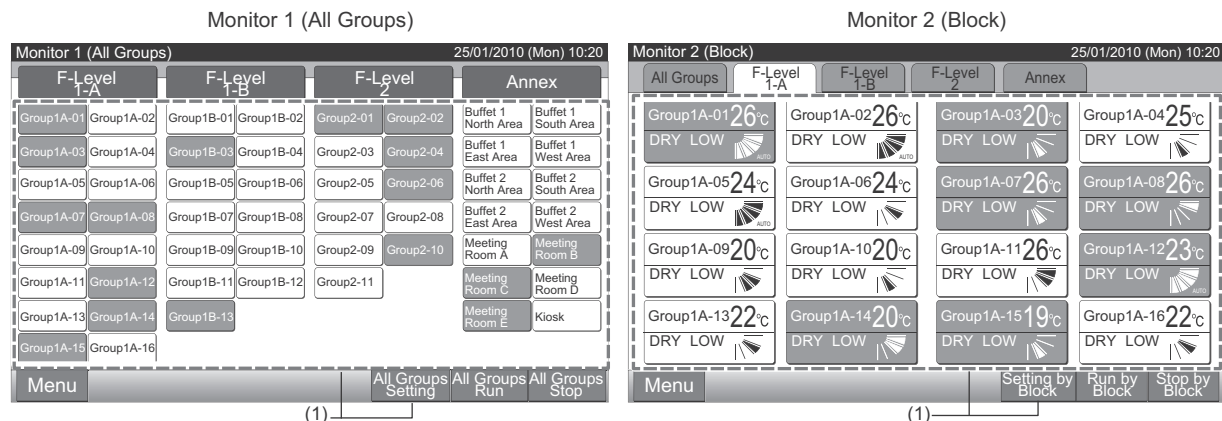


### NOTE

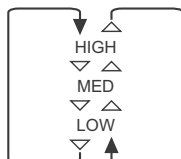
- In the case of "Run/Stop Only" mode, setting change is available by only "All Groups Setting" or "Setting by Block" button. (Setting change for each group is NOT available).
- Some operation modes cannot be set depending on the unit model. Contact your dealer for detailed information.

## 6.7 FAN SPEED SETTING

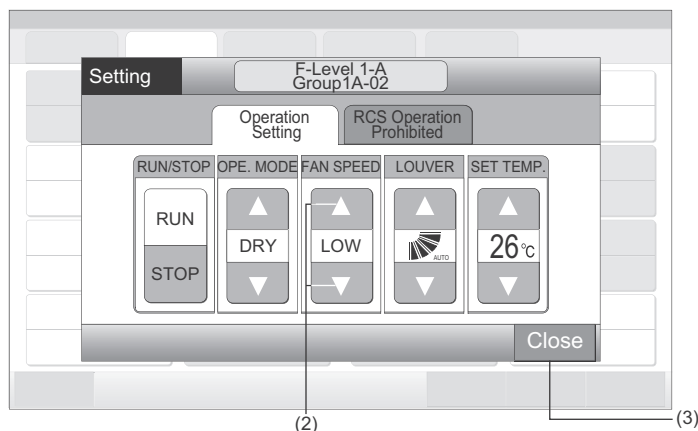
- 1 Select the target group at screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)" to change the fan speed setting. The pop-up of "Setting" for the selected group is displayed on the touchscreen.



- 2 By tapping "▲" or "▼" of the "FAN SPEED", the fan speed setting will be changed alternately as follows.



- 3 Tap "Close" to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".

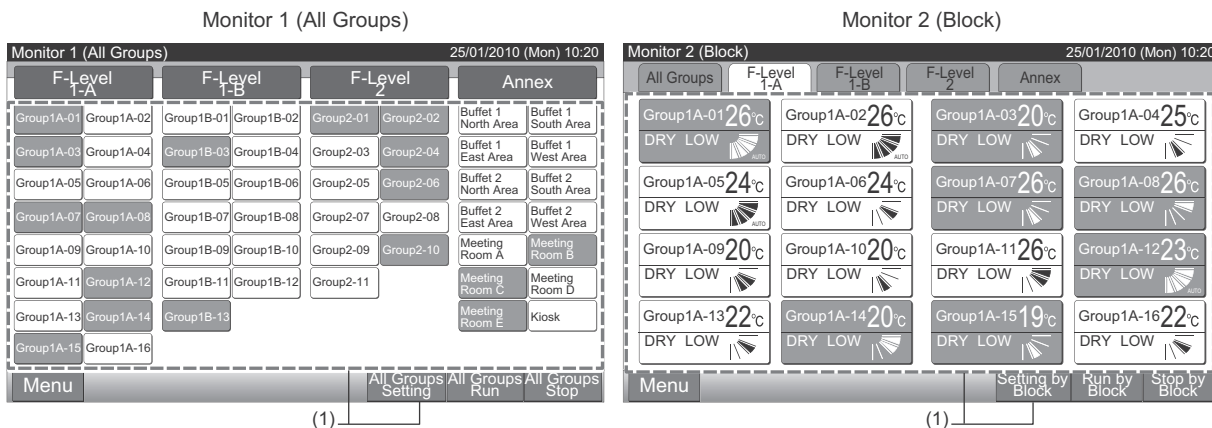


### NOTE

- In the case of "Run/Stop Only" mode, setting change is available by only "All Groups Setting" or "Setting by Block" button. (Setting change for each group is NOT available.)
- Actual fan speed during the dry operation will be "LOW" regardless of the fan speed setting.
- The figure above shows an example of standard unit. The fan speed may not be indicated for certain indoor unit model.

## 6.8 SWING LOUVER DIRECTION

- 1 Select the target group at screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)" to change the swing louver direction. The pop-up of "Setting" for the selected group is displayed on the touchscreen.

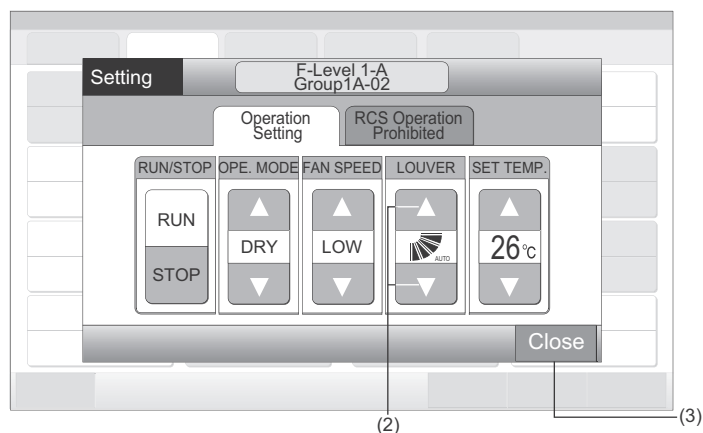


- 2 By tapping "△" or "▽" of the "LOUVER", the swing louver direction will be changed alternately as follows.

LCD indication								
COOL DRY	←							→
HEAT FAN	←							→

: Auto swing operation will be started.

- 3 Tap "Close" to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".

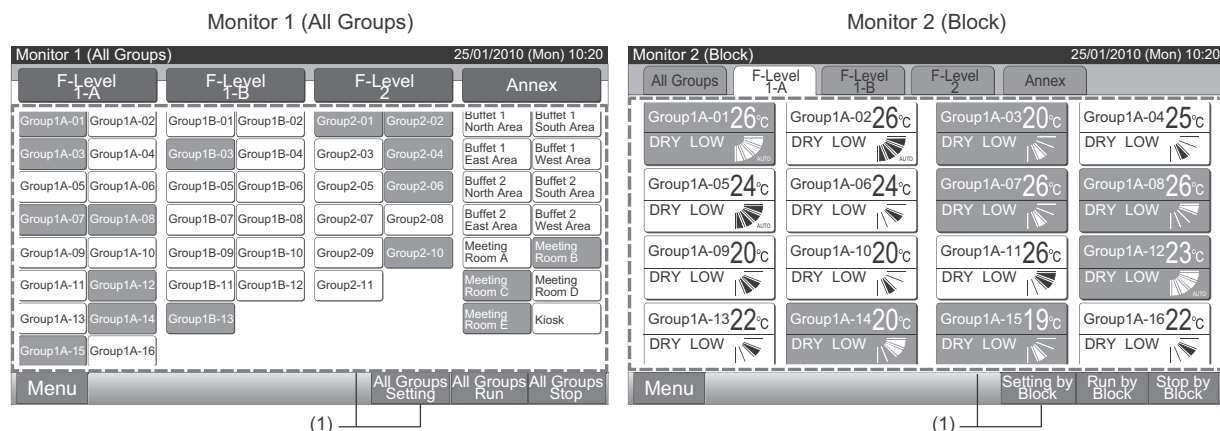


### NOTE

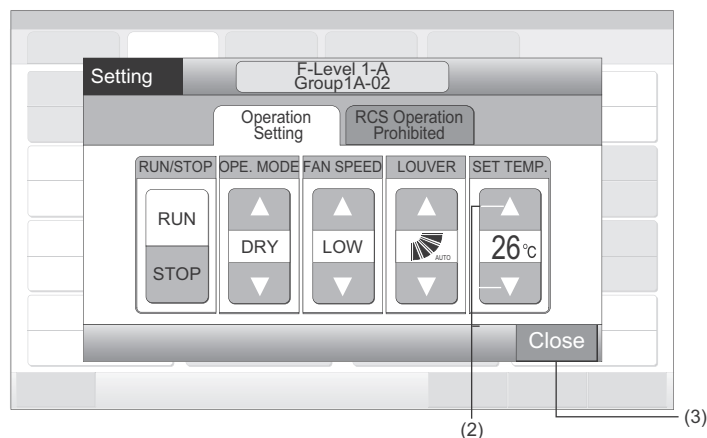
- In the case of "Run/Stop Only" mode, setting change is available by only "All Groups Setting" or "Setting by Block" button. (Setting change for each group is NOT available).
- This function (swing louver direction) may not be set depending on the unit model.
- Louver position on LCD and the actual louver position do not always match during the auto swing operation.
- The louver may not stop immediately after the switch is pressed.

## 6.9 SETTING TEMPERATURE

- 1 Select the target group at screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)" to change the setting temperature. The pop-up of "Setting" for the selected group is displayed on the touchscreen.



- 2 By tapping " $\Delta$ ", the temperature is increased by 1°C. (Max. 30°C). By tapping " $\nabla$ ", the temperature is decreased by 1°C.
  - At Cooling, Dry and Fan operation: Min. 19°C
  - At Heating operation: Min. 17°C
- 3 Tap "Close" to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".



### NOTE

- In the case of "Run/Stop Only" mode, setting change is available by only "All Groups Setting" or "Setting by Block" button. (Setting change for each group is NOT available).
- The figure above shows an example of the setting temperature for the standard unit. The temperature setting range may be different depending on the connected indoor units.

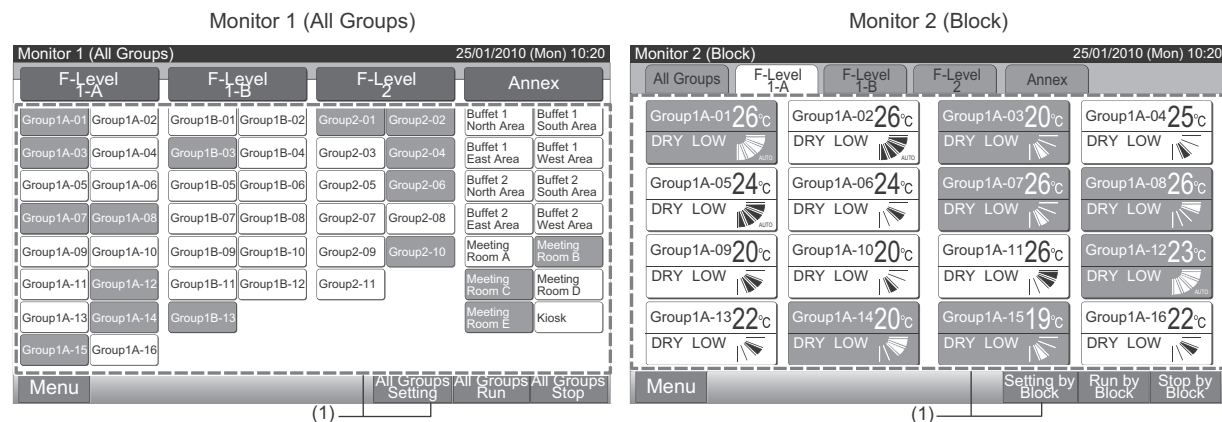


## 6.10 PERMITTING/PROHIBITING OPERATION FROM REMOTE CONTROL SWITCH

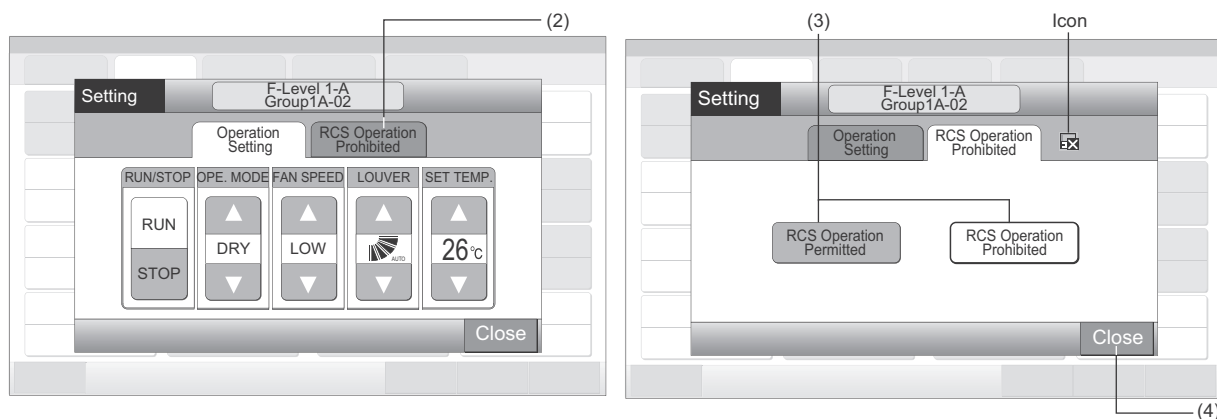
This function is used for prohibiting the operation from the remote control switch.

While operation is prohibited, "Central Control" is indicated on LCD of remote control switch and operating by the remote control switch is not available.

- 1 Select the target group at the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)" to set the function of "RCS Operation Prohibited" setting. The pop-up of "Setting" for the selected group is displayed on the touchscreen.



- 2 Select "RCS Operation Prohibited" by tapping.
- 3 Select "RCS Operation Prohibited" or "RCS Operation Permitted". If "RCS Operation Prohibited" is selected, the icon "❌" will be indicated in "Setting" pop-up.
- 4 Tap "Close" to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".



### NOTE

- In the case of "Run/Stop Only" mode, setting change is available by only "All Groups Setting" or "Setting by Block" button.
- If the unit is started from the central station (by tapping "Run" on the central station), it can be stopped from the remote control switch (by pressing "Stop" on the remote control switch) even while the operation from the remote control switch is prohibited. In this case, press "Run" on the remote control switch to start the operation again. However, this method is for an emergency stop therefore do not use this for the normal operation.
- For the unit without the remote control switch, the prohibiting operation should be set.
- Do not set the prohibiting operation if multiple centralized controllers are used in the same H-LINK. Additionally, do not set this by other centralized controller or it may cause malfunction.

## 7 MENU

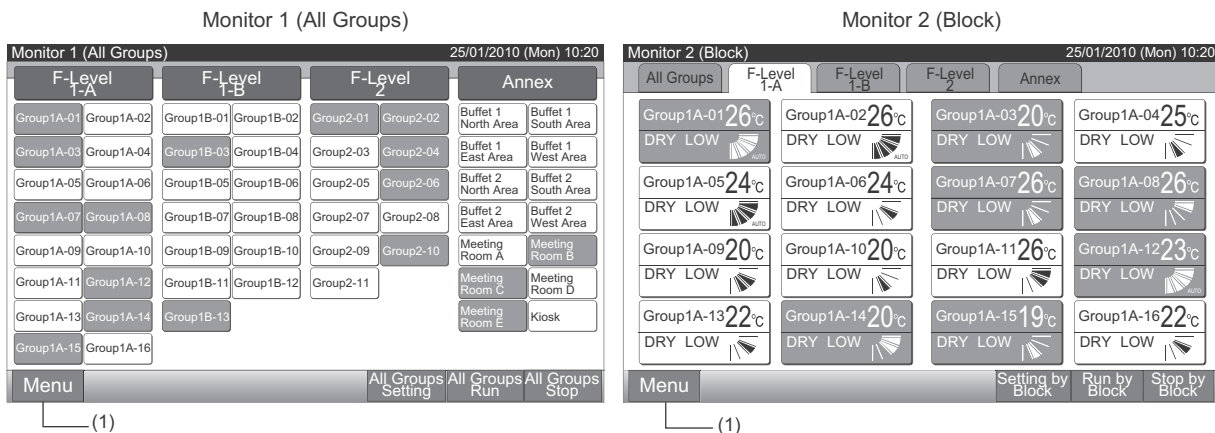
The table below shows menu item and its function.

Item	Function
Filter Sign Reset	This function is used for turning off the filter sign of the connected indoor units. This function can be used only for the indoor unit with "Filter Sign".
Schedule Setting	This function is used for scheduled timer operation which is possible to set by each block or group.
Schedule Timer Setting	This function is used for setting the time (by the minute), "Run/Stop" and temperature (19~30°C). For weekly schedule setting, up to 10 schedule items can be set per day. It is also available to copy the setting contents.
Holiday Setting	This function is used for suspending the schedule operation temporarily. The schedule operation will not be available when this function is set. This function is used for setting irregular holidays such as national holidays.
Schedule Timer ON/OFF Setting	"Schedule Timer OFF Setting" is used for suspending the schedule operation for the target group. The schedule operation will not be available when Schedule Timer is OFF. This function is used for a long holiday, sudden holidays, national holidays, etc.
Adjusting Date/Time	This function is used for adjusting date and time.
Touchscreen Cleaning	This function is used for cleaning LCD (liquid crystal display) of central station.
Touchscreen Calibration	This function is used for calibrating the tap position for touchscreen. This function is used if the operation is not carried out smoothly when the button on the touchscreen is tapped.
Group Name Register	This function is used for registering name of the block and group. The registrable number of letters are maximum 20 letters for the name of each block or group. It is also available to copy the name. If the group/block is registered without name, it will be registered as "Group 1" or "Block 1" automatically.
Screen Display Setting	This function is used for setting the screen display.
Brightness	This function is used for adjusting the brightness of the touchscreen display.
Language Setting	This function is used for changing the displayed language.
Temperature Unit	This function is used for changing the temperature unit.
Accumulated Operation Time	This function is used for indicating the accumulated operation time of the air conditioner. The accumulated operation time will be indicated by month. The operation time is memorized for 15 months.
Contact Information	This function is used for indicating the service contact address and the latest alarm code.

## 7.1 MENU

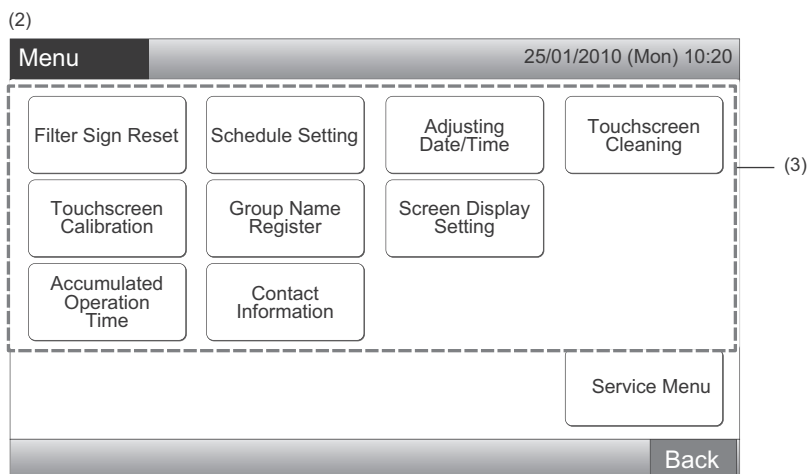
The setting items for the indoor unit and central station are laid out in the menu.

- 1 Tap "Menu" at screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".

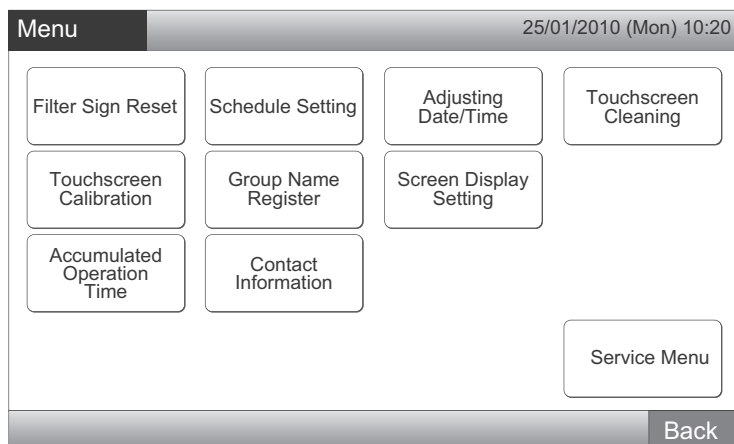


- 2 The screen of "Menu" will be displayed.

- 3 Select the item from the screen of "Menu".

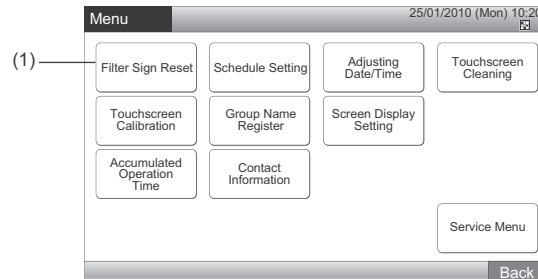


- 4 Tap "Back" to return the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".



## 7.2 FILTER SIGN RESET

- 1 Select "Filter Sign Reset" from the screen of "Menu". (This is available only when the filter sign is indicated).

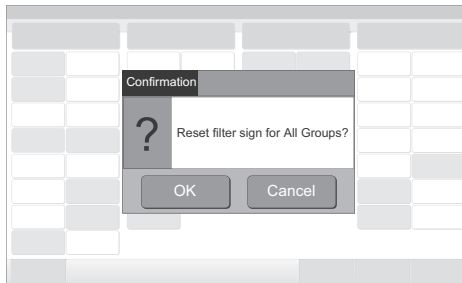


- 2 Select the target (all groups, block or group) to reset the filter sign. The yellow button is indicated for the group with filter sign.

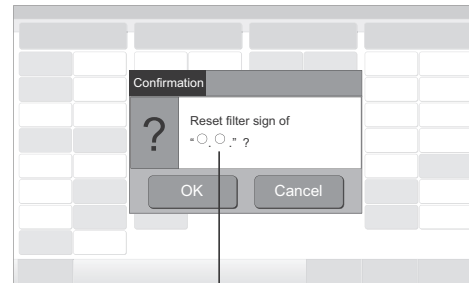
In the case of simultaneous reset of filter sign

Select "All Groups" or "Block". The following confirmation screen will be indicated. The filter sign can be reset simultaneously by selecting "OK".

When "All Groups" is Tapped



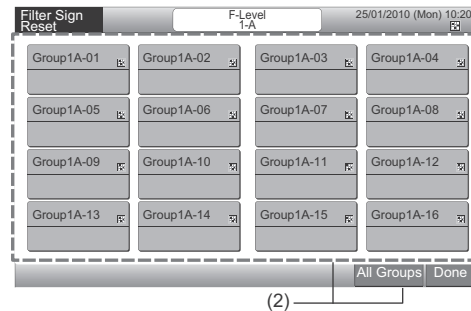
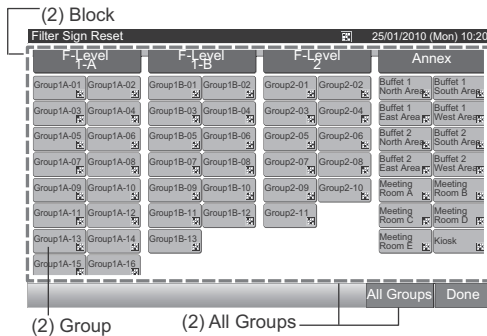
When "Block" is Tapped



Block name is indicated.

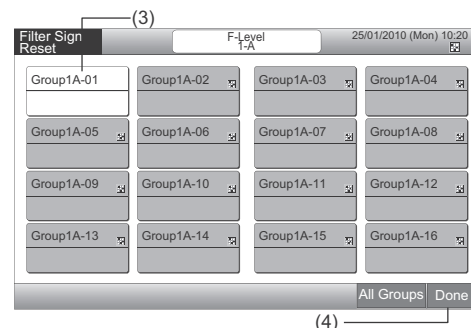
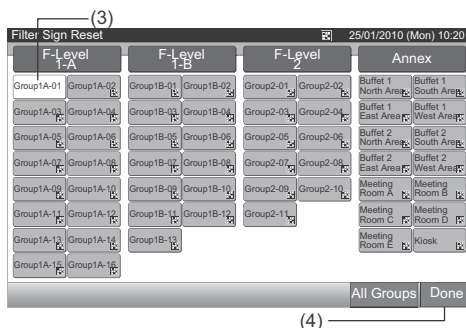
Block (Q'ty): 1

Block (Q'ty): 2 and more



- 3 When the filter sign is reset, the group button color changes into white.

- 4 Tap "Done" to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".

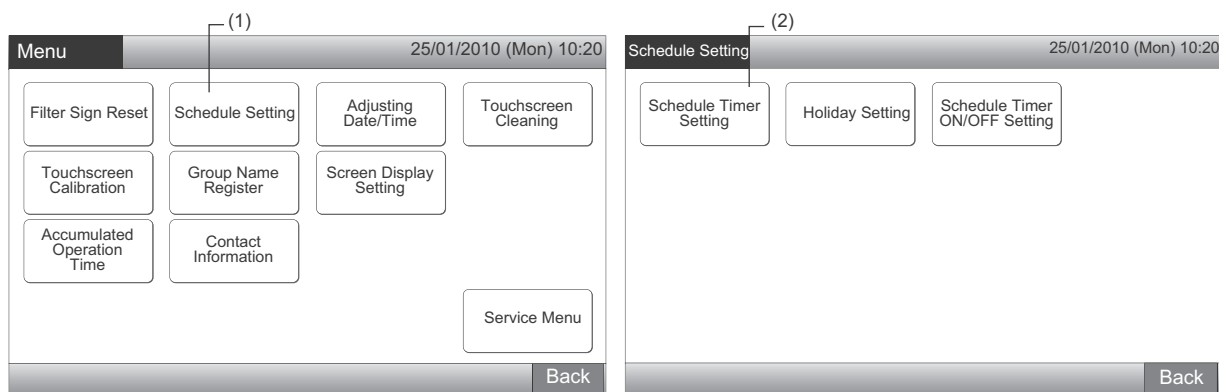


## 7.3 SCHEDULE OPERATION

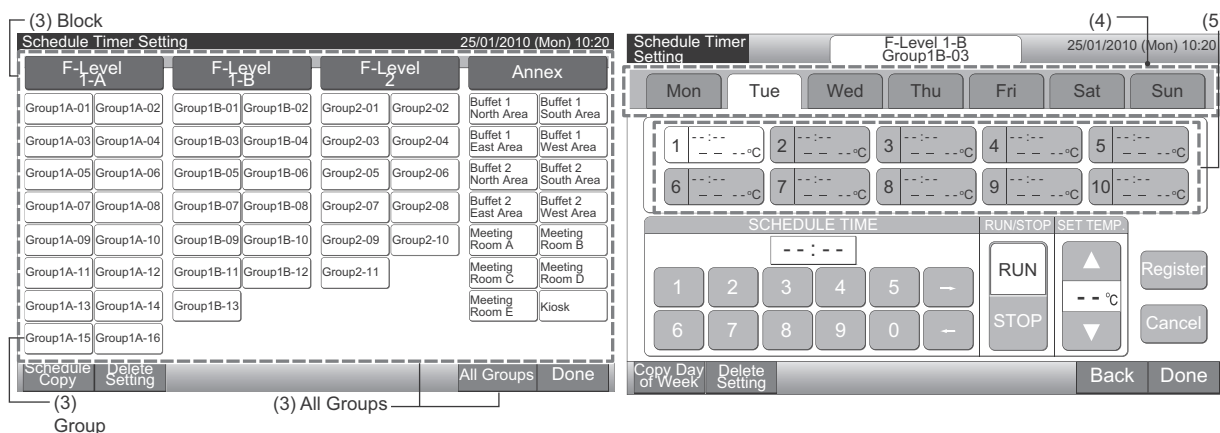
### 7.3.1 Schedule setting

#### ◆ Timer Setting for Weekly Schedule

- 1 Select "Schedule Setting" from the screen of "Menu".
- 2 Select "Schedule Timer Setting" from the screen of "Schedule Setting".



- 3 Select the target (all groups, block or group).
  - The blue button is indicated for the group with setup schedule.
  - The white button is indicated for the group without setup schedule.
- 4 Select the target day of the week. (from Mon. to Sun.).
- 5 Select the schedule item number (from 1 to 10).



- 6 Set the schedule time, run/stop operation and temperature.
 

Select the schedule item No. (1~10) and set the time.

Select "RUN" or "STOP".

Set the temperature by tapping "Δ" or "▽".

"- -" will be indicated when the time and temperature are not set.

7 Tap "Register" to register the scheduled items. If "Cancel" is tapped, the scheduled items will be canceled.

To set the same day of the week, refer to the (5).

To set other days of the week, refer to the (4).

8 Tap "Back" to set the timer for other groups. The screen will return to "Schedule Timer Setting" (3).

After the schedule is set, the registered schedule number (1~64) will be indicated in the group button. (The scheduled group button color changes to blue).

In case that the setting is the same, the same registered schedule No. will be indicated.

9 Tap "Done" to return the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".

If "Done" is tapped without registration, the scheduled items are canceled. And the screen will be changed to "Monitor 1 (All Groups)" or "Monitor 2 (Block)".



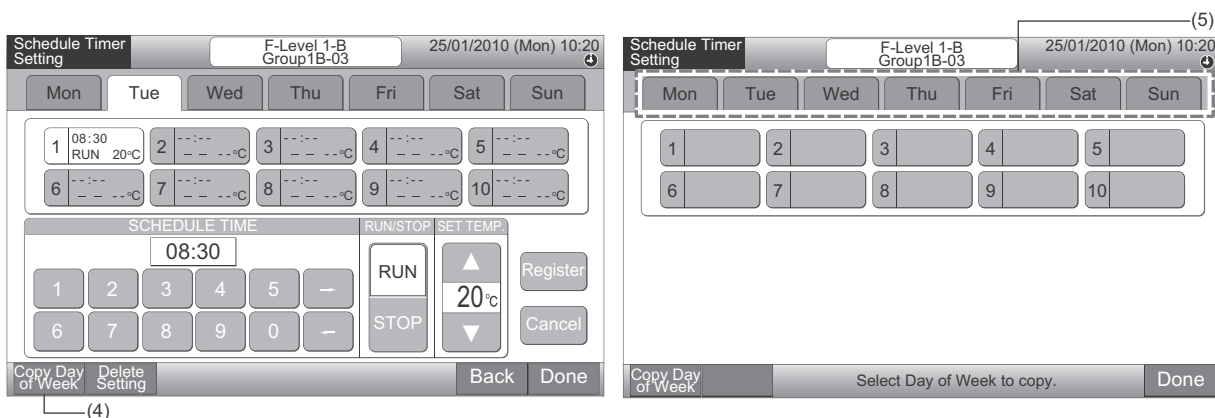
#### NOTE

Make sure that the time and run/stop are set for the timer setting. (It is not necessary to set the temperature).

#### ◆ Copying Schedule Setting by Days of Week

- 1 Select "Schedule Setting" from the screen of "Menu".
- 2 Select "Schedule Timer Setting" from the "Schedule Setting".
- 3 Select the target (all groups, block or group).
- 4 Tap "Copy Day of Week".
- 5 Select the day of the week tab to copy.

All the schedules (Schedule Item No. 1 to 10) for the selected day are indicated with yellow.



- 6 Select the day of the week tabs to paste.

After the day of the week is selected, the mark of "✓" will be indicated in the day of the week tab.

Multiple selection of the days of the week is available to copy.

Tap the day of week for reselecting the day of the week tabs.

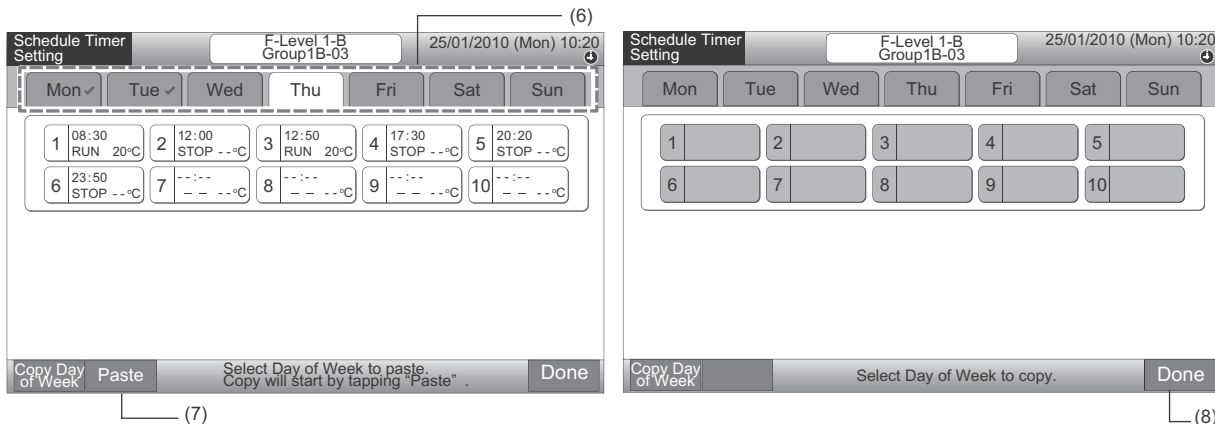
- 7 Tap "Paste". The schedule setting is copied.

To copy the schedule for other days of the week, refer to the (5).

To finish, refer to the (8).

- 8 If "Done" is tapped, the screen will return to "Schedule Timer Setting".

If "Done" is tapped without tapping of "Paste", the selected items for copy are canceled.

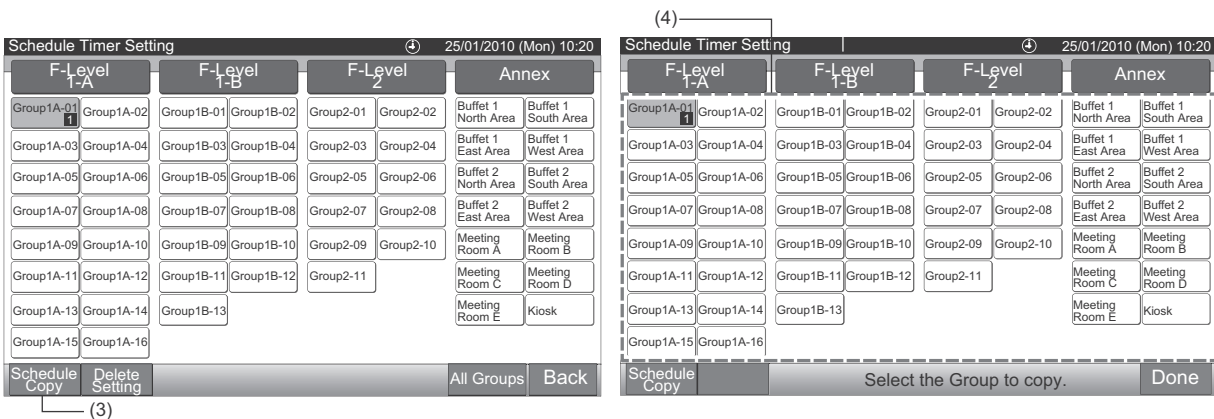


### ◆ Copying Schedule Setting by Each Group

- 1 Select "Schedule Setting" from the screen of "Menu".
- 2 Select "Schedule Timer Setting" from the screen of "Schedule Setting".
- 3 Tap "Schedule Copy".
- 4 Select the group to copy. (Block cannot be selected to copy).

Selected group button is rimmed with orange line.

Tap the selected group again to cancel the selection. The orange line will turn off.



- 5 Select the group (block) to paste.

The mark of "✓" will be indicated in the button.

Multiple selection of the group (including block) is available to paste.

To cancel the selection, press the selected group again, the mark of "✓" will turn off.

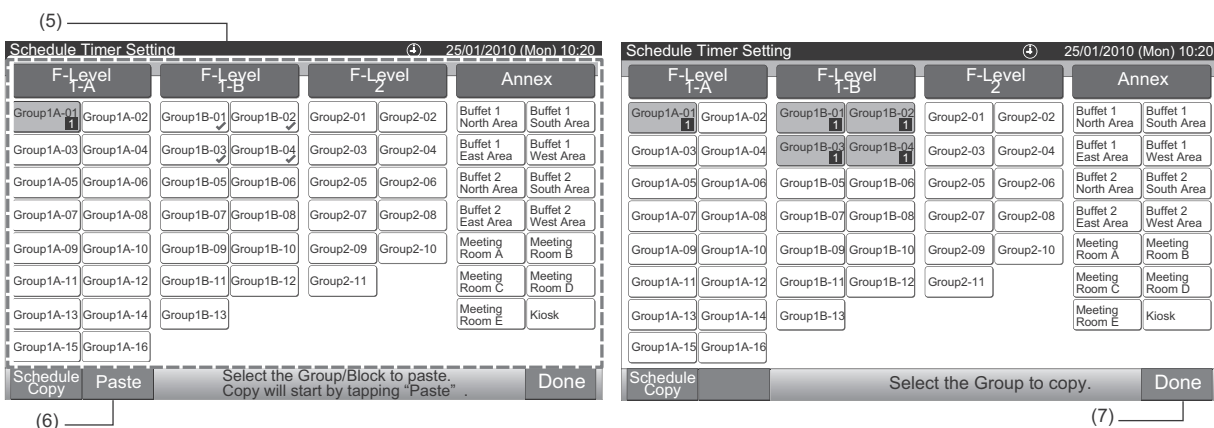
- 6 Tap "Paste". The schedule setting is copied.

To copy the schedule for other groups, refer to (4).

To finish, refer to (7).

- 7 If "Done" is tapped, the screen will return to "Schedule Timer Setting".

If "Done" is tapped without tapping "Paste", the selected items for copy are canceled.



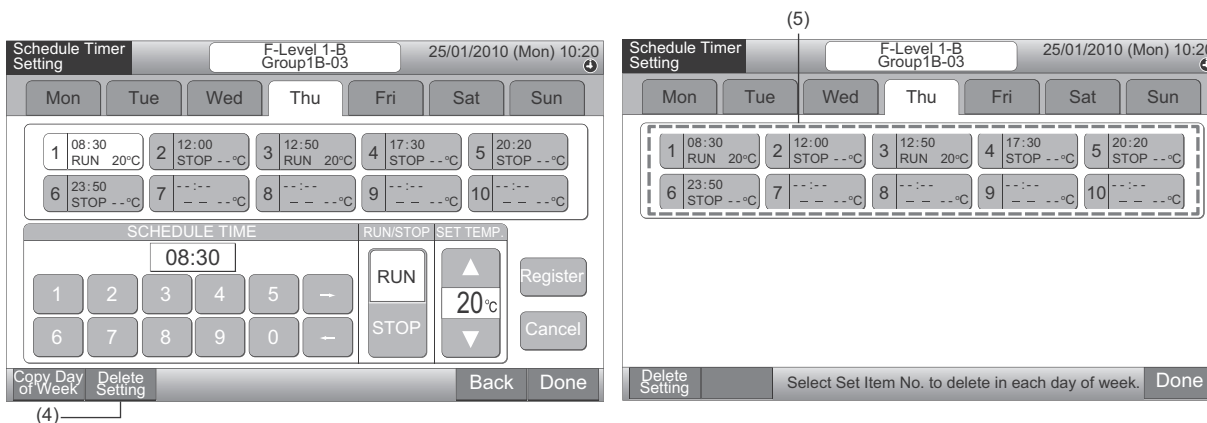


#### ◆ Deleting Schedule Setting by Operation No.

- 1 Select "Schedule Setting" from the screen of "Menu".
- 2 Select "Schedule Timer Setting" from the screen of "Schedule Setting".
- 3 Select the target (all groups, block or group).
- 4 Tap "Delete Setting".
- 5 Select the schedule item No. for deleting schedule.

If other days of the week tabs are tapped, the schedule item number for other days of the week can be selected.

If the schedule item number is selected, the mark of "✓" is indicated. Multiple selection of schedule item number is available.



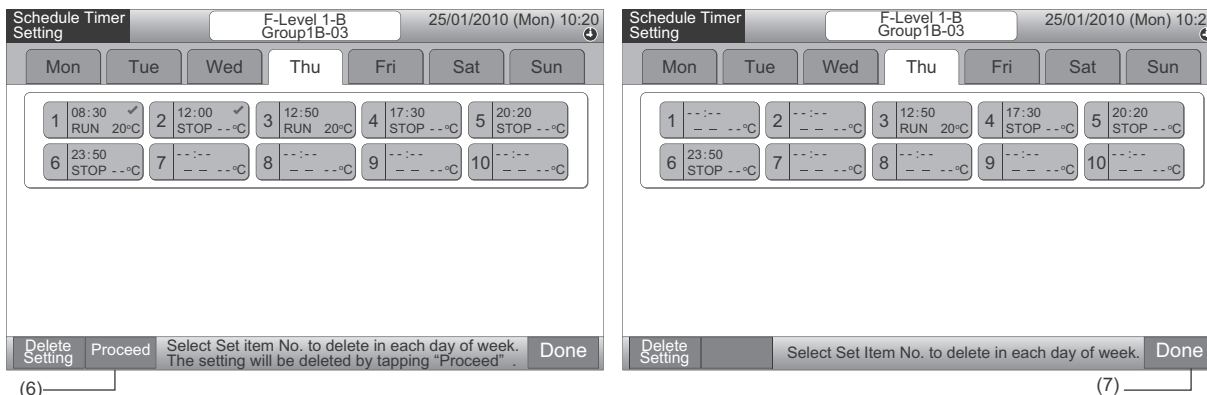
- 6 Tap "Proceed". The selected schedule item number will be deleted.

To delete other schedule number, refer to (5).

To finish, refer to (7).

- 7 If "Done" is tapped, the screen will return to "Schedule Timer Setting".

If "Done" is tapped without tapping "Proceed", the selected items for deleting are canceled.



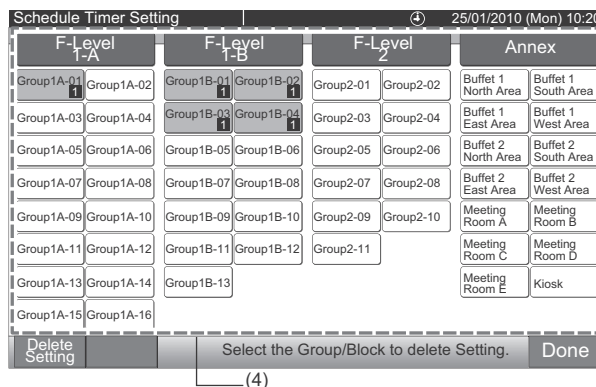
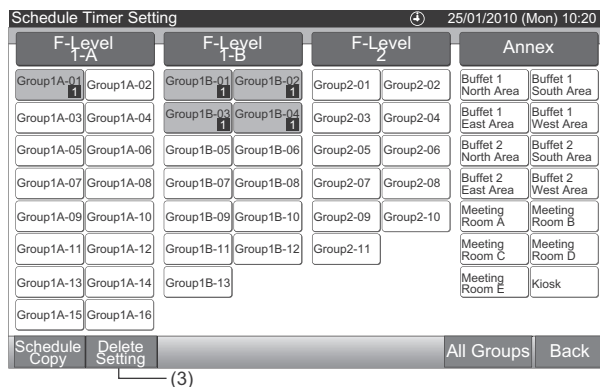
### ◆ Deleting Schedule Setting by Each Group

- 1 Select "Schedule Setting" from the screen of "Menu".
- 2 Select "Schedule Timer Setting" from the screen of "Schedule Setting".
- 3 Tap "Delete Setting".
- 4 Select the groups or blocks to delete the setting.

If the groups or blocks are selected, the mark of "✓" is indicated.

Multiple selection of group and block are available for deleting.

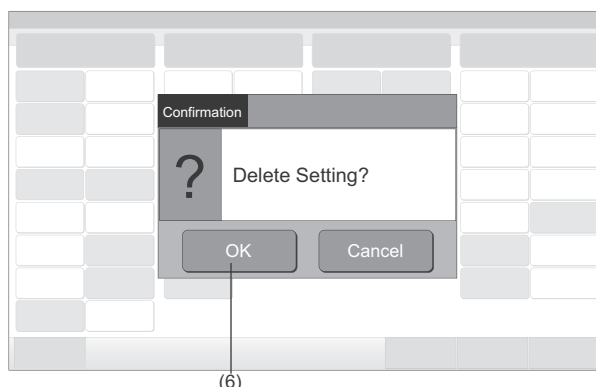
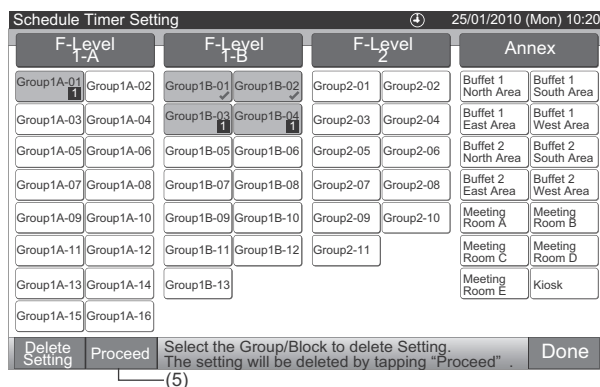
To cancel the selection, press the selected group again, the mark of "✓" will turn off.



- 5 Tap "Proceed" and the confirmation screen will be displayed.
- 6 If "OK" is tapped, the schedule setting will be deleted.

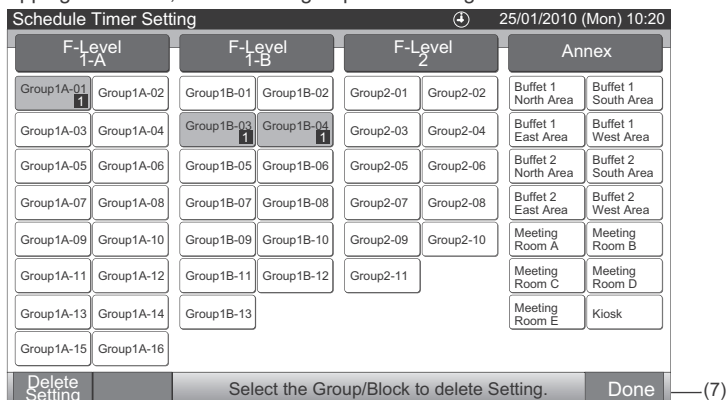
To delete the schedule for other groups, refer to (4).

To finish, refer to (7).



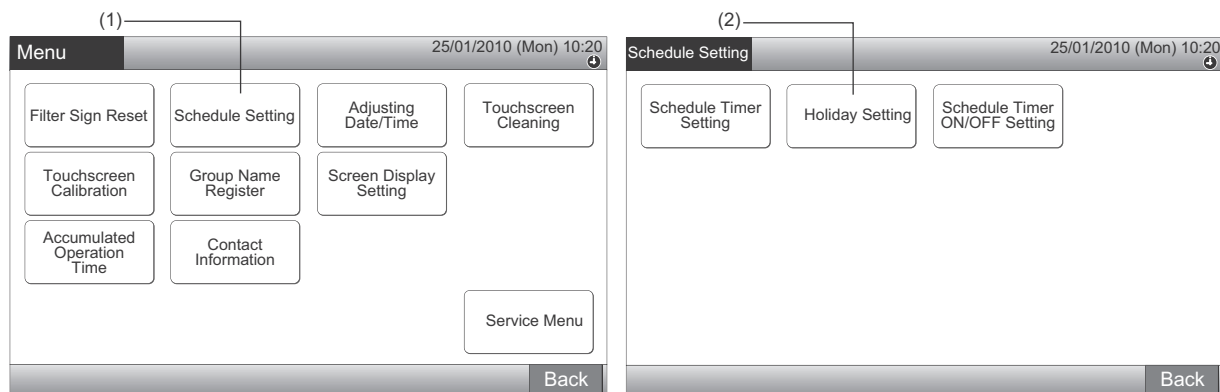
- 7 If "Done" is tapped, the screen will return to "Schedule Timer Setting".

If "Done" is tapped without tapping "Proceed", the selected groups for deleting are canceled.



### 7.3.2 Holiday setting for operation suspended

- 1 Select "Schedule Setting" from the screen of "Menu".
- 2 Select "Holiday Setting" from the screen of "Schedule Setting".



- 3 Select the target (all groups, block or group). The calendar will be indicated.

Blue button is indicated for the group with holiday set.

White button is indicated for the group without setup holiday.



#### NOTE

**"Holiday" means Operation Suspended Day.**

- 4 Set the date to suspend the scheduled operation.

The calendar will be forwarded/backwarded by tapping "<" or ">".

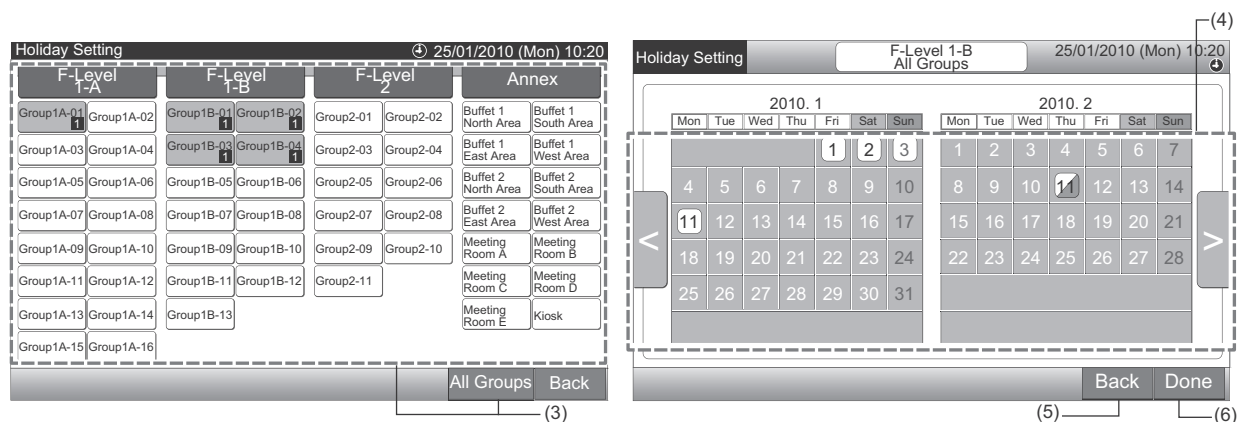
By tapping the date on the calendar, the "Holiday" is set with mark of "□". "Holiday Setting" is canceled by tapping the same date again.

Holiday setting is not available for the days before the present day.

The mark of "□" will be indicated for the day with holiday set.

With "All Groups" or "Block" selected, the mark of "◐" will be indicated for the day when the groups with setup holiday and the groups without setup holiday are mixed.

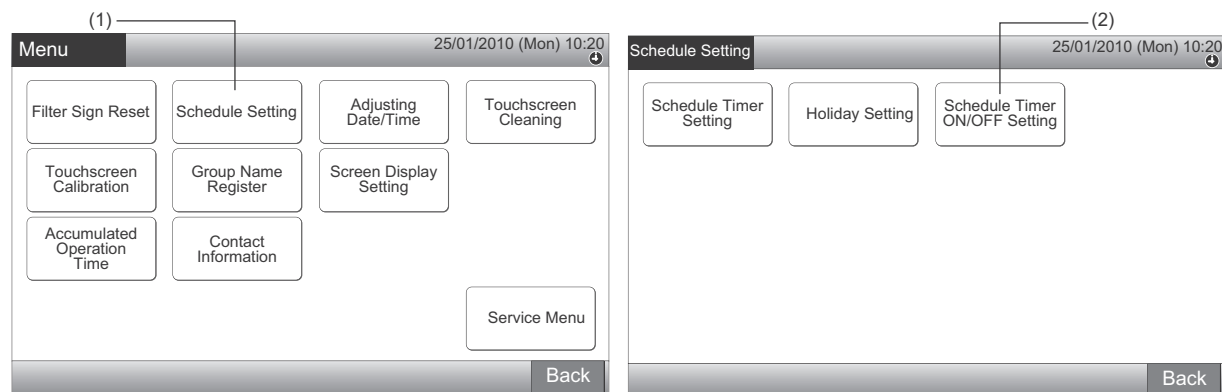
- 5 Tap "Back" to set the schedule for other groups. The screen will return to "Holiday Setting".
- 6 Tap "Done" to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".



### 7.3.3 Schedule timer ON/OFF setting

- 1 Select "Schedule Setting" from the screen of "Menu".
- 2 Select "Schedule Timer ON/OFF Setting" from the "Schedule Setting".

The screen will be changed to the "Schedule Timer ON/OFF Setting". At first, the setting is "ON" with the mark of "ON".



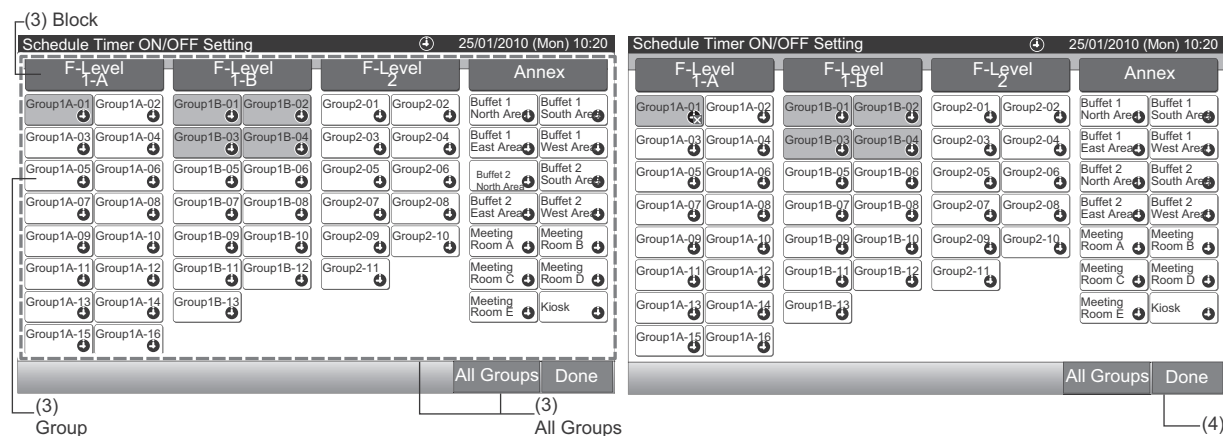
- 3 Select the target (all groups, blocks or groups).

By tapping the button of all groups, blocks or groups, the indication is changed to the "OFF" setting with the mark of "X".

By tapping the all groups, blocks or groups, the indication is changed alternately in order of "ON" and "X".

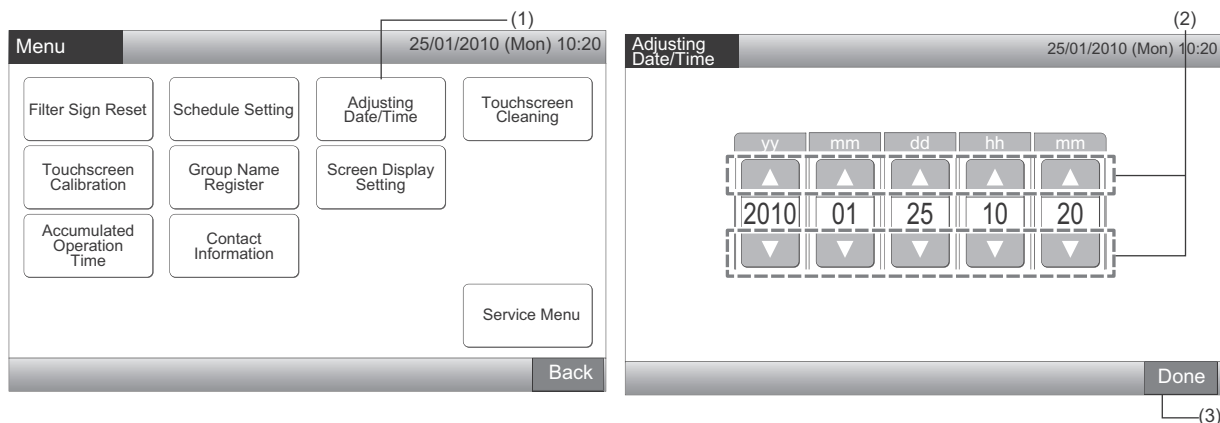
- Blue button is indicated for the group with schedule set.
- White button is indicated for the group with schedule unset.
- Schedule is turned ON: ON
- Schedule is turned OFF: X

- 4 Tap "Done" to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".



## 7.4 ADJUSTING DATE/TIME

- 1 Select "Adjusting Date/Time" from the screen of "Menu".
- 2 Tap or press-and-hold "△" or "▽" to adjust the date and time.
- 3 Tap "Done" to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".



### NOTE

- According to the backup function of the central station, the clock works for 10 days (approx.) after the electric power failure. Set the date and time again after long-term electric power failure.
- Periodical clock adjustment is recommended. (Clock accuracy: difference +70 sec. per month)

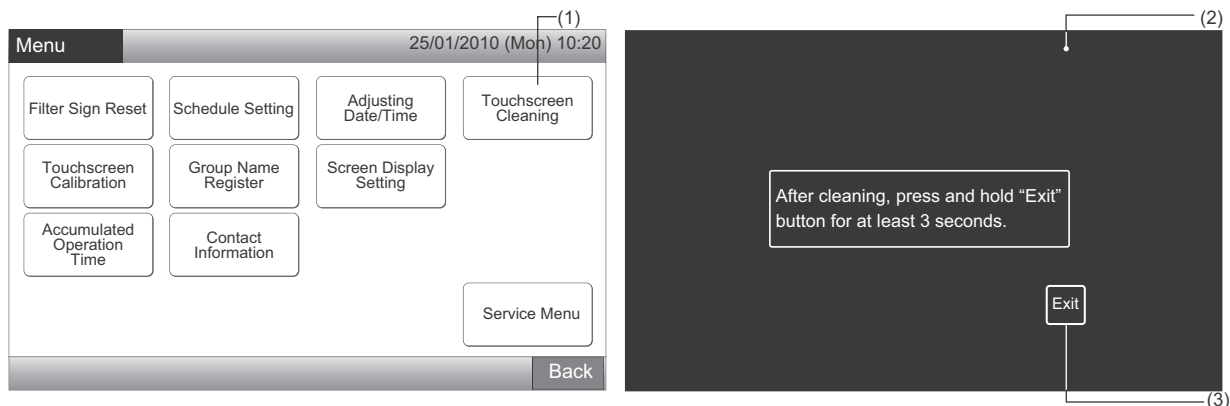
## 7.5 TOUCHSCREEN CLEANING

- 1 Select "Touchscreen Cleaning" from the screen of "Menu".
- 2 The screen will be changed as shown in the figure (2).

The screen will be locked until "Exit" is pressed and held for at least 3 seconds.

Clean the touchscreen display while the screen is locked.

- 3 Press and hold "Exit" for at least 3 seconds to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".

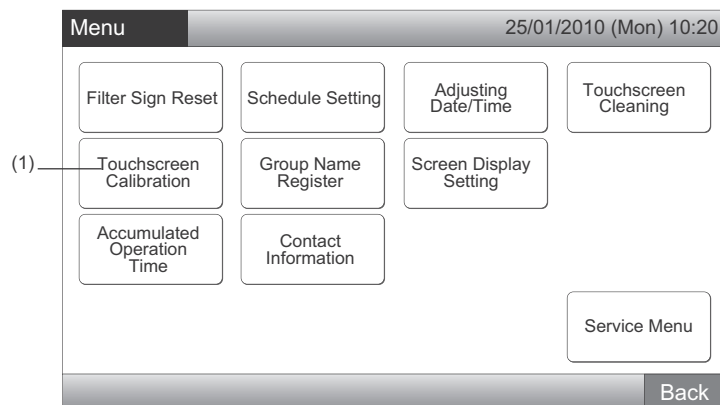


### NOTE

- Clean and wipe the display with dry and soft cloth.
- For oil and fat on the touchscreen such as finger print marks, use diluted neutral detergent. Before cleaning, wring water out to dry. After that, again wipe the display with dry and soft cloth.
- Do not use benzine, thinner or surface active agent in order to protect the touchscreen and body from deformation or deterioration.

## 7.6 TOUCHSCREEN CALIBRATION

- 1 Select "Touchscreen Calibration" from the screen of "Menu".

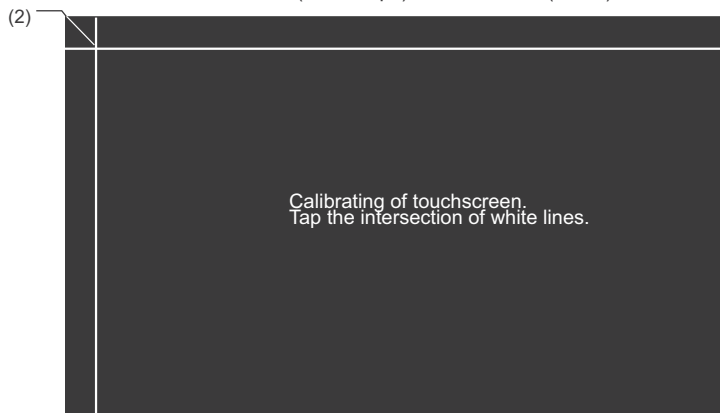


- 2 Calibrating touchscreen

Tap every intersections of white lines sequentially indicated on the screen.

After that, the screen will be changed to (3).

If the intersections of white lines are not recognized normally, "Calibration is cancelled" will be displayed on the screen. And then, the screen will automatically return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)" without calibrating.

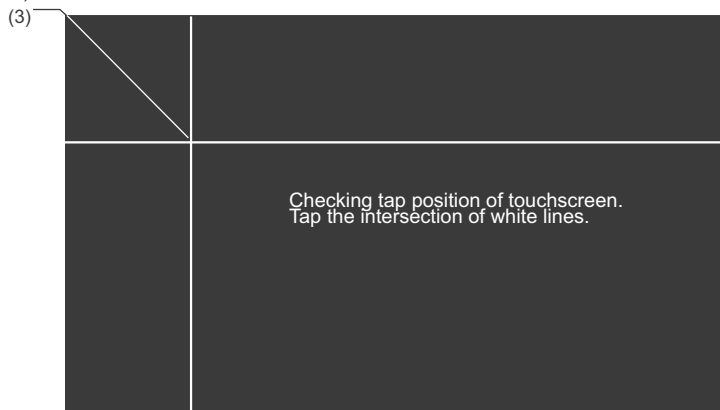


- 3 "Checking tap position of touchscreen"

Touch the intersection of white lines sequentially according to the screen indication.

The white dots will be indicated when tapping other than the intersection of white lines.

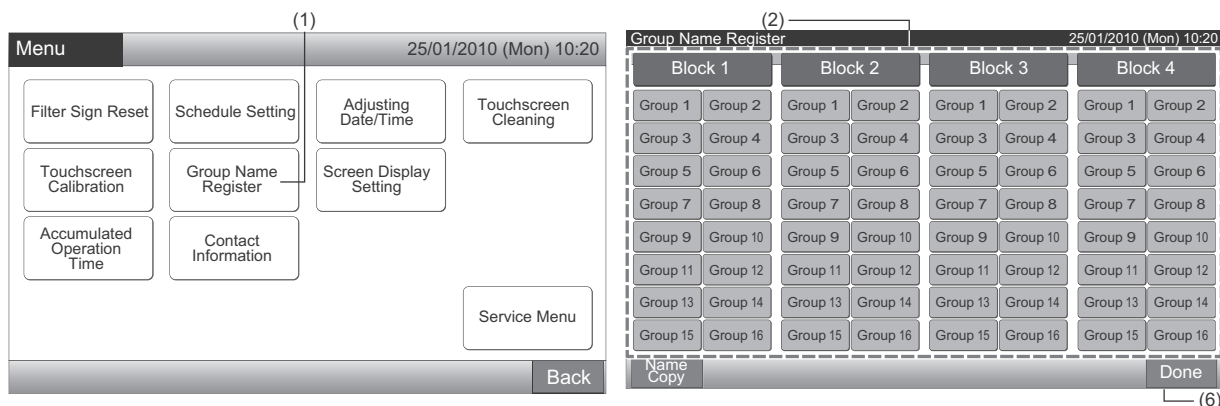
When every intersections of white lines are normally recognized, the screen will automatically return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".



## 7.7 REGISTERING GROUPS/BLOCKS NAME

### 7.7.1 Registering name of group (Block)

- 1 Select "Group Name Register" from the screen of "Menu".
- 2 Select the target (block or group) to register the name.



- 3 Select the letter type from "Capital Letter", "Small Letter", "Symbol 1" or "Symbol 2".

If "Delete Name" is pressed, the registered name for the selected group (block) will be deleted. If "Close" is tapped without inputting the group (block) name, the screen will return to "Group Name Register" and indicate the group (block) name as Group 1 (Block 1).



#### NOTE

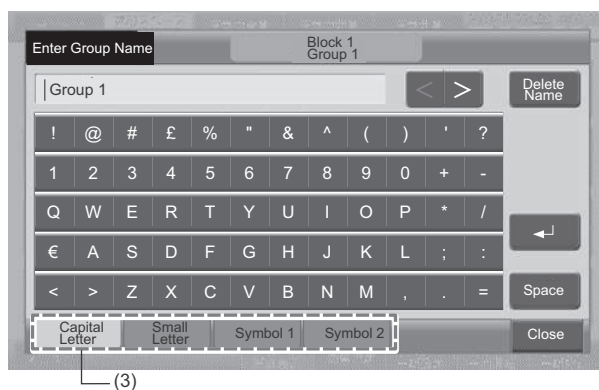
The "Delete Name" will be switched to "Delete" by tapping any keys (except the letter tabs).

- 4 Enter the group (block) name and tap "Close".

The screen will return to "Group Name Register" and entered name is stored.

- 5 Perform 3 and 4 to enter the name for other groups (block).

- 6 Tap "Done" on the screen of (2) to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".



#### NOTE

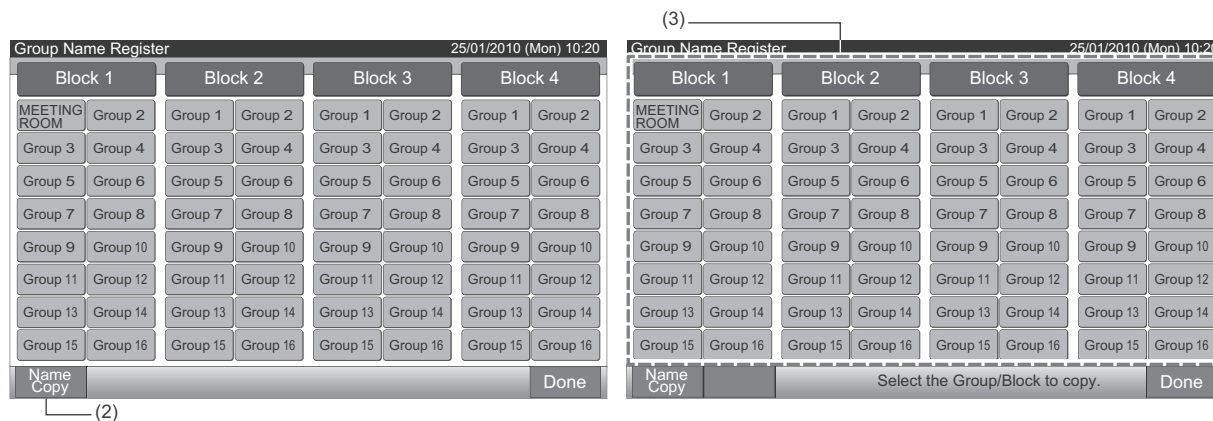
The registrable number of letters are maximum 20 for the name of the group (block). If "←" is pressed, the name is indicated in 2 lines (10 letters/line) on the touchscreen display.

### 7.7.2 Copying name of group (Block)

- 1 Select "Group Name Register" from the screen of "Menu".
- 2 Tap "Name Copy".
- 3 Select the source group (block) to copy.

Selected group (block) button is rimmed with orange line.

Press the selected group (block) again to cancel the selection. The orange line will turn off.



- 4 Select the destination group (block) to paste.

The mark of "✓" will be indicated in the button.

Multiple selection of group (block) is available to paste.

To cancel the selection, press the selected group (block) again, the mark of "✓" will turn off.

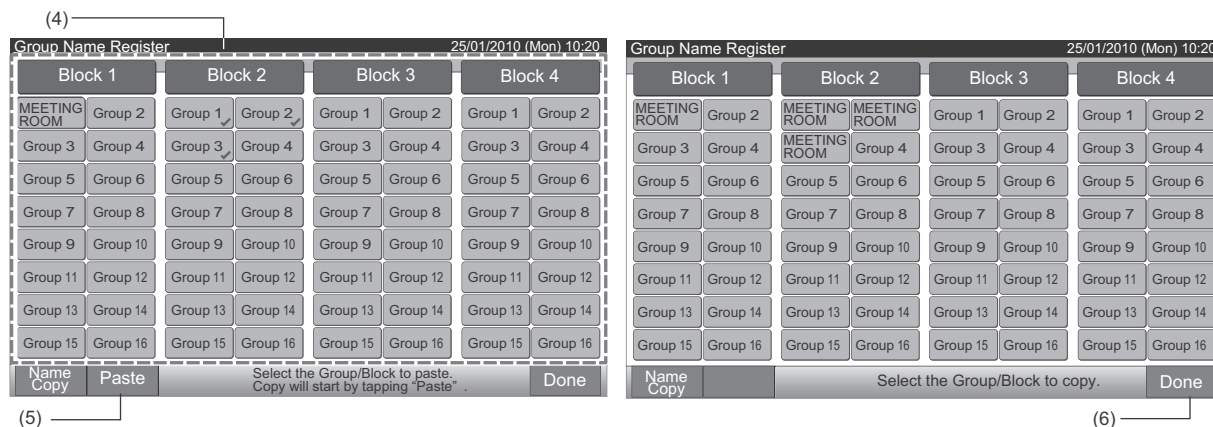
- 5 Tap "Paste". The name of the group (block) is copied.

To copy the name of other groups, refer to (3).

To finish, refer to (6).

- 6 If "Done" is tapped, the screen will return to "Group Name Register".

If "Done" is tapped without tapping "Paste", the selected items for copying are canceled.

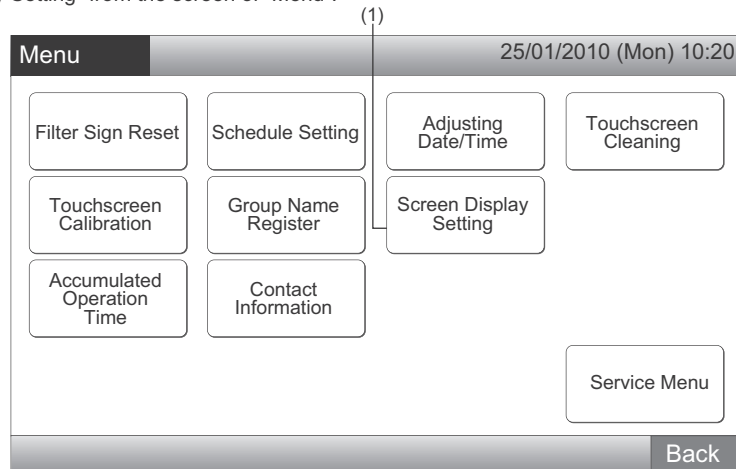




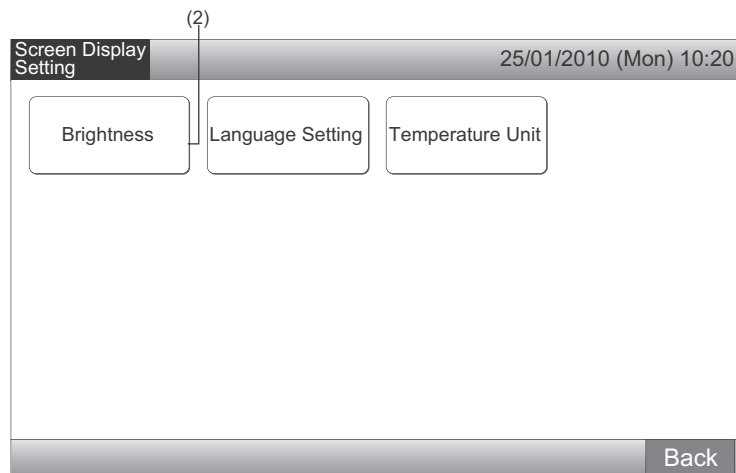
## 7.8 SCREEN DISPLAY SETTING

### 7.8.1 Adjusting backlight brightness of touchscreen display

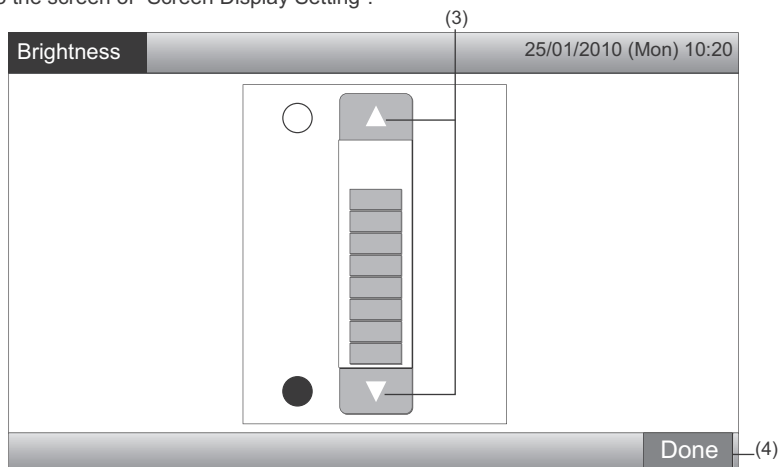
- 1 Select "Screen Display Setting" from the screen of "Menu".



- 2 Select "Brightness" from the screen of "Screen Display Setting".

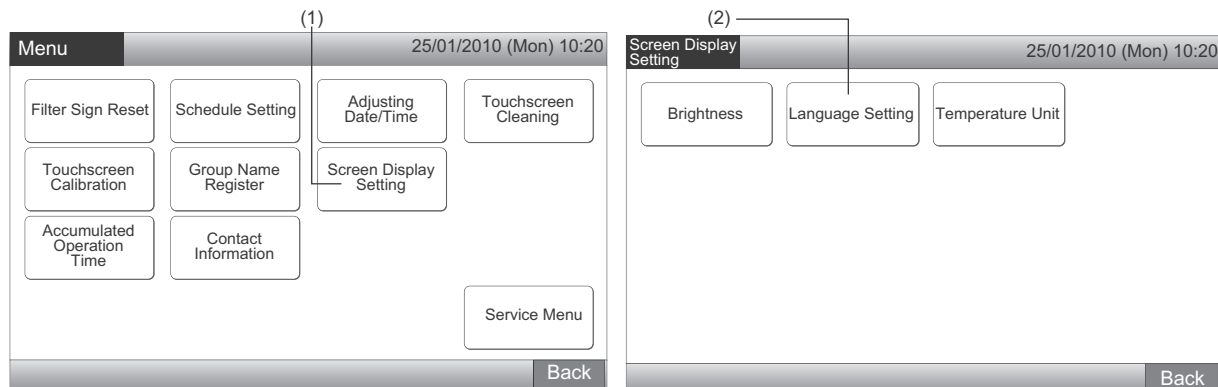


- 3 Tap "Δ" or "∇" and adjust the brightness of the backlight.
- 4 Tap "Done" to return to the screen of "Screen Display Setting".



## 7.8.2 Language setting

- 1 Select "Screen Display Setting" from the screen of "Menu".
- 2 Select "Language Setting" from the screen of "Screen Display Setting".



- 3 The confirmation screen is displayed when selecting the language button.
- 4 Tap "OK" at the confirmation screen.



### NOTE

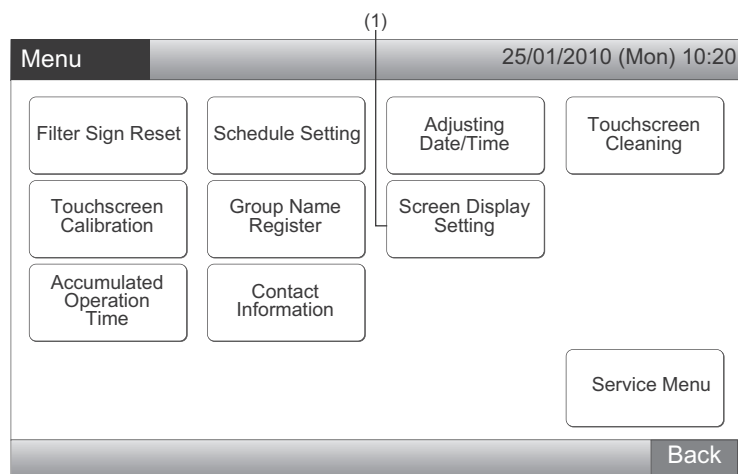
***If language is changed, the registered block/group name and contact information will be initialized.***

- 5 Tap "Done" to return to the screen of "Screen Display Setting".

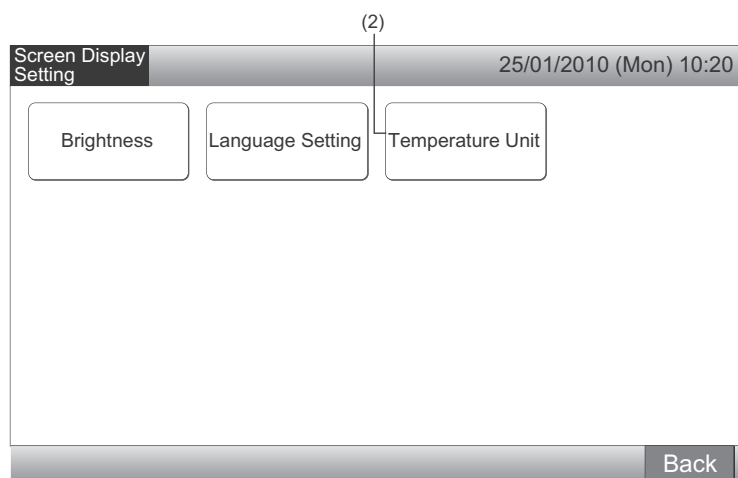


### 7.8.3 Temperature unit setting

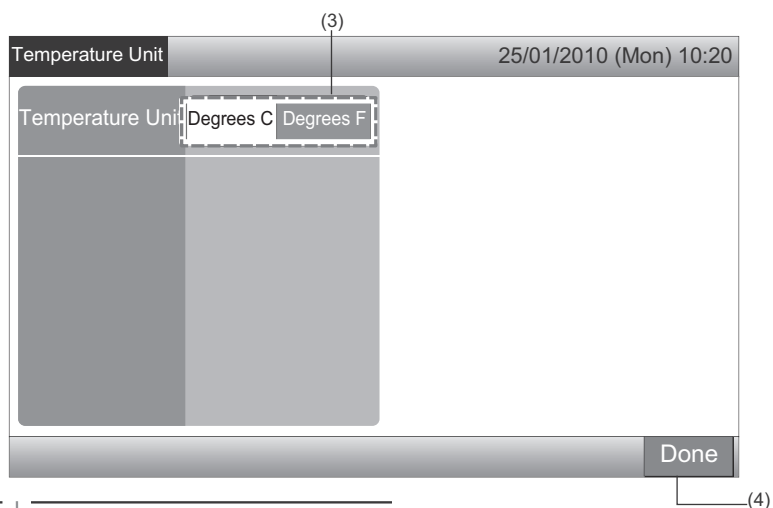
- 1 Select "Screen Display Setting" from the screen of "Menu".



- 2 Select "Temperature Unit" from the screen of "Screen Display Setting".



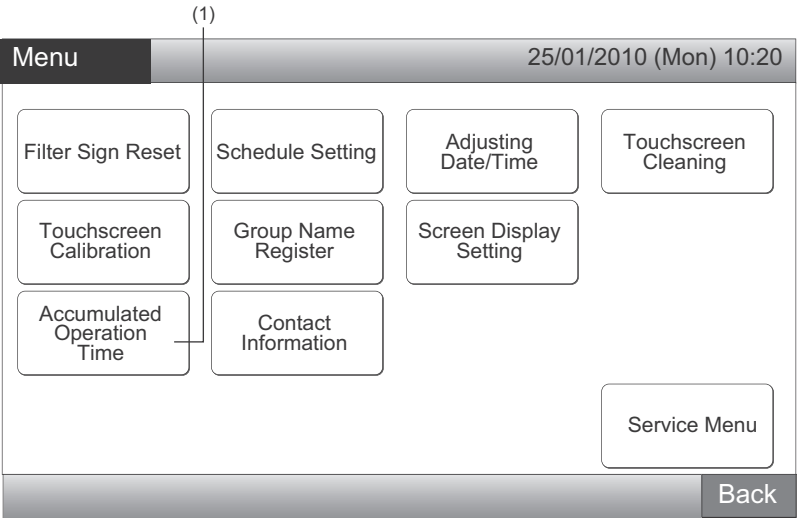
- 3 Select "Degrees C" or "Degrees F" for the operating button indication. The selected button color is changed.
- 4 Tap "Done" to return to the screen of "Screen Display Setting".



**7.9 ACCUMULATED OPERATION TIME OF UNIT**

**7.9.1 Display by month**

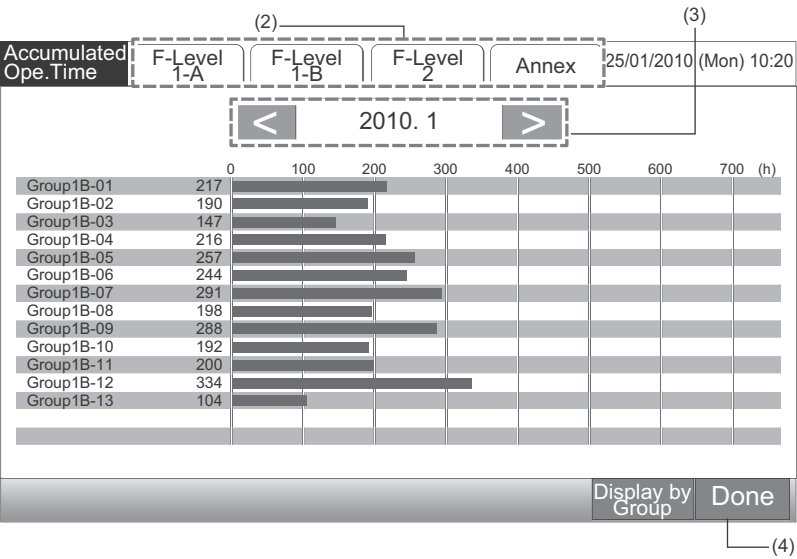
1 Select “Accumulated Operation Time” from the screen of “Menu”.



2 Select the target block.

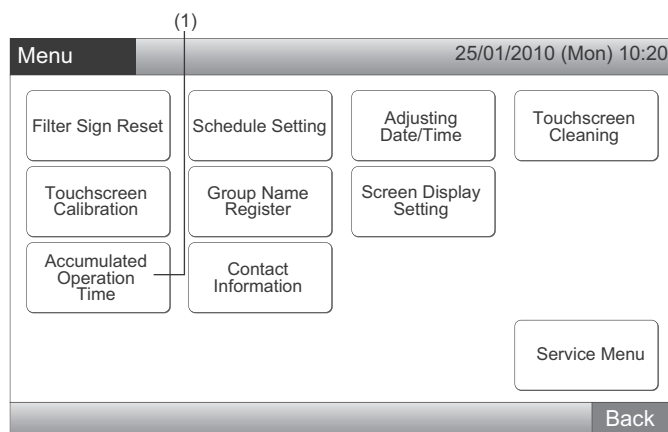
3 Tap “<” or “>” and select the target month. The operation time for the groups in the selected block are indicated according to the selected month.

4 Tap “Done” to return to the screen of “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

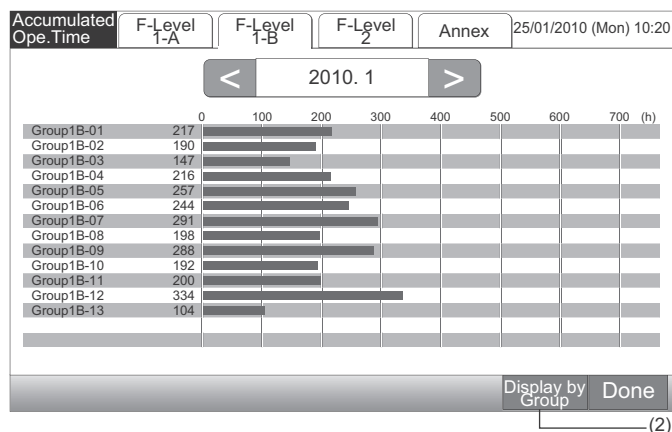


## 7.9.2 Display by group

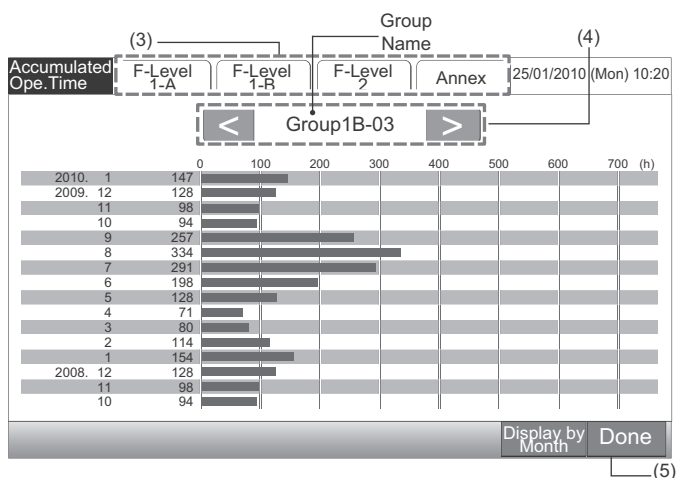
- 1 Select "Accumulated Operation Time" from the screen of "Menu".



- 2 Tap "Display by Group".



- 3 Select the target block tab.
  - 4 Tap "<" or ">" and select the target group. The operation time for the group in the selected block is indicated.
  - 5 Tap "Done" to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".
- If "Display by Month" is pressed, the screen will be changed to (2).



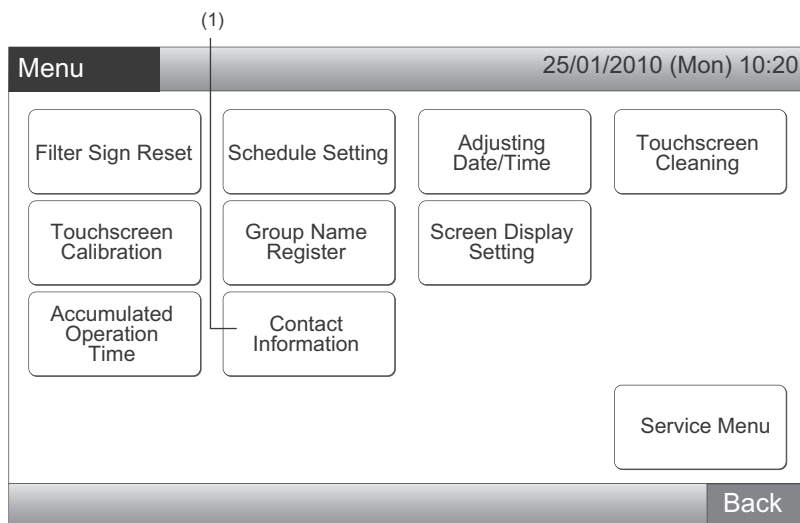
## NOTE

**Accumulated operation time of this central station is for only reference. Hitachi does not warrant about above reference accumulated operation time.**

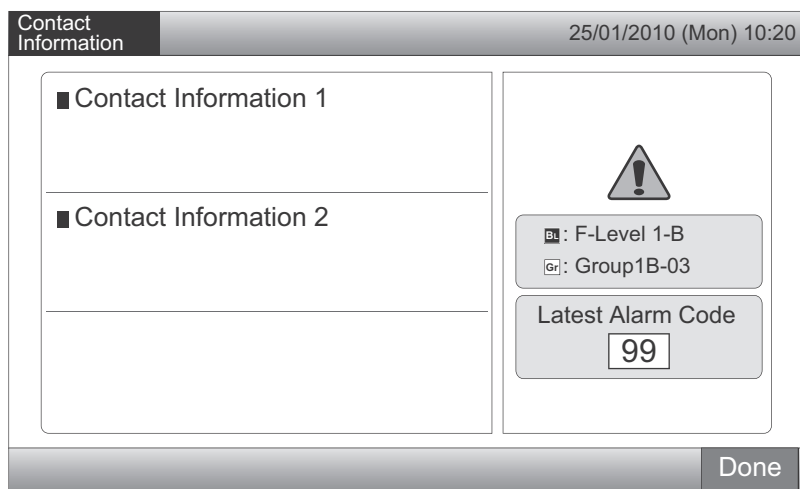
## 7.10 CONTACT INFORMATION

1 Select "Contact Information" from the screen of "Menu". The following information will be displayed:

- Contact address
- Block/group name of the latest alarm
- Latest alarm code



2 Tap "Done" to return to the screen of "Monitor 1 (All Groups)" or "Monitor 2 (Block)".















### NOTE

- *This function is not available if there is no contact address registered.*
- *Without alarm occurrence, the name of the target block/group and the alarm code will not be indicated.*

## 8 OTHER INDICATIONS ON LCD

### 8.1 IN NORMAL CONDITION

	Schedule	"  " is indicated for the group with the schedule setting
	RCS Operation Prohibited	"  " is indicated for the group when operation by remote control switch is prohibited. Operation by remote control switch is not available while operation by remote control switch is prohibited (except for the emergency stop operation).
	Emergency Stop	"  " is indicated when emergency stop signal is set by optional external input function. During the emergency stop, the indoor unit is stopped and operation by remote control switch is not available. Contact your dealer for detailed information.
	Demand	"  " is indicated when demand signal is set by optional external input function. "  " is indicated for the group with demand setting and "  " is flashed when the demand signal is set. Contact your dealer for detailed information.
	Filter Sign	"  " is indicated when the air filter of the indoor unit is clogged. After cleaning, press menu and reset the filter sign. The indication will turn off.

### 8.2 IN ABNORMAL CONDITION

#### Abnormality

- The operation indicator (Red) will be flashing when an abnormal condition of the air conditioner occurs.
- The red button is indicated on the screen when there is a group in abnormal condition.
- "Alarm Info." is indicated on the lower screen.

If "Alarm Info." is tapped, the following items are indicated.

- Name of the block/group in abnormal condition
- Refrigerant cycle number, address and model code\* of indoor unit in abnormal condition
- Alarm code

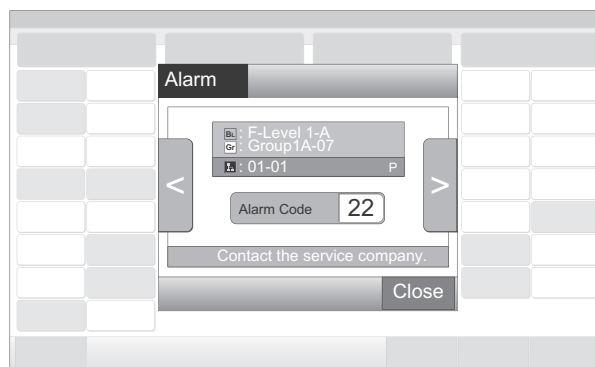


#### NOTE

(\*) The model code may not be indicated depending on the unit model.

- In case that multiple indoor units are in abnormal condition, the details information of abnormality are indicated in turn as above. In that case, the group in abnormal condition can be also selected by tapping "<" or ">" on "Alarm" information screen. Check the contents of LCD indication and contact your dealer for details.

Monitor 1 (All Groups)												25/01/2010 (Mon) 10:20			
F-Level 1-A				F-Level 1-B				F-Level 2				Annex			
Group1A-01	Group1A-02	Group1B-01	Group1B-02	Group2-01	Group2-02	Buffet 1 North Area	Buffet 1 South Area								
Group1A-03	Group1A-04	Group1B-03	Group1B-04	Group2-03	Group2-04	Buffet 1 East Area	Buffet 1 West Area								
Group1A-05	Group1A-06	Group1B-05	Group1B-06	Group2-05	Group2-06	Buffet 2 North Area	Buffet 2 South Area								
Group1A-07	Group1A-08	Group1B-07	Group1B-08	Group2-07	Group2-08	Buffet 2 East Area	Buffet 2 West Area								
Group1A-09	Group1A-10	Group1B-09	Group1B-10	Group2-09	Group2-10	Meeting Room A	Meeting Room B								
Group1A-11	Group1A-12	Group1B-11	Group1B-12	Group2-11		Meeting Room C	Meeting Room D								
Group1A-13	Group1A-14	Group1B-13				Meeting Room E	Kiosk								
Group1A-15	Group1A-16														
Menu				Alarm Info.				All Groups Setting				All Groups Run			



#### Power Failure

- The display is OFF.
- Once the unit is stopped by the power failure, the unit will not start again after the power recovery. Perform the starting procedures again.
- In case of instantaneous power failure within 2 seconds, the unit will automatically start again.

#### Noise

- There could be a case that the display is OFF and the unit is stopped. This is caused by the activation of the micro computer for the unit protection from the electric noise. When the unit is stopped, perform the starting procedures again.

## 9 TROUBLESHOOTING

Check the following table before contacting a dealer for maintenance.

Condition	Cause
Indications on the touchscreen are not displayed.	Check that the wiring for the power supply is connected to the plug. Check that the power supply is turned ON.
The touchscreen display is slept.	The touchscreen will automatically sleep when the touchscreen is not operated for the given length of time. Tap the screen to wake up.
A part of the touchscreen is not turned on or is constantly turned on.	There may be dead pixel on the LCD. This is not faulty.
The operation is not carried out smoothly when the switch is tapped.	When the central station is used for a long time, the touchscreen may not match the position of display indication. Refer to Touchscreen Calibration section for the Touchscreen Calibration.
"- -" is indicated for the setting temperature. The temperature cannot be set.	No setting temperature is set. Press and hold "Δ" or "∇" for 3 seconds on the setting touchscreen. Refer to Setting Temperature section.
The setting of louver direction returns to previous setting.	When the operation mode is "AUTO", the direction of louver is automatically corrected depending on the indoor unit model.
The timer operation by the schedule setting does not run.	Check if the holiday setting is turned ON. If so, cancel the holiday setting according to Holiday Setting for Operation Suspended section. Check if the setting of schedule operation is turned OFF. If so, the schedule operation should be turned ON according to Schedule Timer ON/OFF Setting section.
"- -" is indicated for the date and time.	"- -" is indicated when electrical power is shut down for a long time. Set the date and time again according to Adjusting Date /Time section.
The setting is not changed.	When the central station is operated immediately after turning ON the air conditioners, the central station may not be possible to control because the starting up of the air conditioners are prior. Wait for a certain time before operation.

## 10 MAINTENANCE

- Clean and wipe the display with dry and soft cloth.
- For oil and fat on the touchscreen such as finger print marks, use diluted neutral detergent mixed with water to clean. Before cleaning, wring water out to dry. After that, again wipe the display with dry and soft cloth.
- Do not use benzine, thinner or surface active agent in order to protect the display from deformation or tarnish.



#### NOTE

*The Central Station Block/Group Register tables are available at the end of this Operation Manual.*