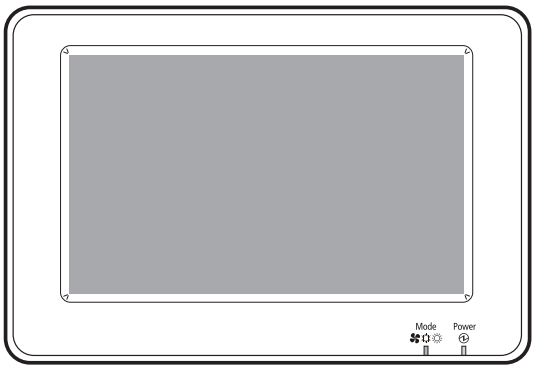
Operation Manual

- CCL01 -



IMPORTANT:

READ AND UNDERSTAND THIS MANUAL BEFORE USING THIS LARGE CENTRAL CONTROLLER.
KEEP THIS MANUAL FOR FUTURE REFERENCE.

LIT-12012046 P5415501

Important Notice

- Johnson Controls-Hitachi Air Conditioning pursues a policy of continuing improvement in design and performance in its products. As such, Johnson Controls-Hitachi Air Conditioning reserves the right to make changes at any time without prior notice.
- Johnson Controls-Hitachi Air Conditioning cannot anticipate every possible circumstance that might involve a potential hazard.
- This heat pump air conditioning unit is designed for standard air conditioning applications only. Do not use this unit for anything other than the purposes for which it was intended for.
- The installer and system specialist shall safeguard against leakage in accordance with local pipefitter and electrical codes. The following standards may be applicable, if local regulations are not available. International Organization for Standardization: (ISO 5149 or European Standard, EN 378). No part of this manual may be reproduced in any way without the expressed written consent of Johnson Controls-Hitachi Air Conditioning.
- If you have questions, please contact your distributor or dealer.
- This manual provides common descriptions, basic and advanced information to maintain and service this heat pump air conditioning unit which you operate as well for other models.
- This manual should be considered as a permanent part of the air conditioning equipment and should remain with the air conditioning equipment.

Product Inspection upon Arrival

1. Upon receiving this product, inspect it for any damages incurred in transit. Claims for damage, either apparent or concealed, should be filed immediately with the shipping company.
2. Check the model number, electrical characteristics (power supply, voltage, and frequency rating), and any accessories to determine if they agree with the purchase order.
3. The standard utilization for this unit is explained in these instructions. Use of this equipment for purposes other than what it designed for is not recommended.
4. Please contact your local agent or contractor as any issues involving installation, performance, or maintenance arise. Liability does not cover defects originating from unauthorized modifications performed by a customer without the written consent of Johnson Controls-Hitachi Air Conditioning. Performing any mechanical alterations on this product without the consent of the manufacturer will render your warranty null and void.

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1. Safety Summary

Signal Words

⚠ WARNING	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates information considered important, but not hazard-related (for example, messages relating to property damage).

General Precautions

⚠ WARNING	To reduce the risk of serious injury or death, read these instructions thoroughly and follow all warnings or cautions included in all manuals that accompanied the product and are attached to the unit. *Refer back to these safety instructions as needed.*

- This system, including this controller, should be installed by personnel certified by Johnson Controls-Hitachi Air Conditioning Personnel must be qualified according to local, state and national building and safety codes and regulations. Incorrect installation could cause leaks, electric shock, fire or an explosion.
  In areas where Seismic Performance requirements are specified, the appropriate measures should be taken during installation to guard against possible damage or injury that might occur in an earthquake.
  If the unit is not installed appropriately correctly, injuries may occur because of a falling unit.
- Use appropriate Personal Protective Equipment (PPE), such as gloves, protective goggles and electrical protection equipment and tools suited for electrical operation purposes.
- When transporting, be careful when picking up, moving and mounting these units.
  Although the controller may be packed using plastic straps, do not use them for transporting from one location to another. Do not stand on or put any material on the controller.
- When installing the controller cabling to the units, do not touch or adjust any safety devices inside the indoor or outdoor units. All safety features, disengagement, and interlocks must be in place and functioning correctly before the equipment is put into operation. If these devices are improperly adjusted or tampered with in any way, a serious accident can occur. Never bypass, wire around, or jump-out any safety device or switch.
- Use only Johnson Controls-Hitachi Air Conditioning recommended, provided as standardized, or replacement parts.
- Johnson Controls-Hitachi Air Conditioning will not assume any liability for injuries or damage caused by not following steps outlined or described in this manual. Unauthorized modifications to Johnson Controls-Hitachi Air Conditioning products are prohibited as they…
  - May create hazards which could result in death, serious injury or equipment damage;
  - Will void product warranties;
  - May invalidate product regulatory certifications;
  - May violate OSHA standards;

NOTICE	Take the following precautions to reduce the risk of property damage.

- Do not touch the main circuit board or electronic components in the controller or remote devices. Make sure that dust and/or steam does not accumulate on the circuit board.
- When installing the unit in a hospital or other facility where electromagnetic waves are generated from nearby medical and/or electronic devices, be prepared for noise and electronic interference Electromagnetic Interference (EMI). Do not install where the waves can directly radiate into the electrical box, controller cable, or controller. Inverters, appliances, high-frequency medical equipment, and radio communications equipment may cause the unit to malfunction. The operation of the unit may also adversely affect these same devices. Install the unit at least 10 ft. (approximately 3m) away from such devices.
- Locate the wireless controller at a distance of at least three feet (approximately 1m) between the indoor unit and electric lighting. Otherwise, the receiver part of the unit may have difficulty receiving operation commands.

- If the wired controller is installed in a location where electromagnetic radiation is generated, make sure that the wired controller is shielded and cables are sleeved inside conduit tubing.
- If there is a source of electrical interference near the power source, install noise suppression equipment (filter).
- During the test run, check the unit's operation temperature. If the unit is used in an environment where the temperature exceeds the operation boundary, it may cause severe damage.
  Check the operation temperature boundary in the manual. If there is no specified temperature, use the unit within the operation temperature boundary of 35° to 104°F (0 to 40°C).
- Read installation and appropriate user manuals for connection with PC or peripheral devices.
  If a warning window appears on the PC, the product stops, does not work properly or works intermittently, immediately stop using the equipment.

Installation Precautions

⚠ WARNING	Take the following precautions to reduce the risk of electric shock, fire or explosion resulting in serious injury or death:

- If the remote sensors are not used with this controller, then do not install this controller…
  - In a room where there is no thermostat.
  - Where the unit is exposed to direct sunshine or direct light.
  - Where the unit will be in close proximity to a heat source.
  - Where hot/cold air from the outdoors, or a draft from elsewhere (such as air vents, diffusers or grilles) can affect air circulation.
  - In areas with poor air circulation and ventilation.
- Perform a test run using the controller to ensure normal operation. Safety guards, shields, barriers, covers, and protective devices must be in place while the compressor/unit is operating.
  During the test run, keep fingers and clothing away from any moving parts.

After installation work for the system has been completed, explain the "Safety Precautions," use, and maintenance of the unit to the customer according to the information in all manuals that accompanied the system. All manuals and warranty information must be given to the user or left near the Indoor Unit.

Electrical Precautions

⚠ WARNING	Take the following precautions to reduce the risk of electric shock, fire or explosion resulting in serious injury or death:

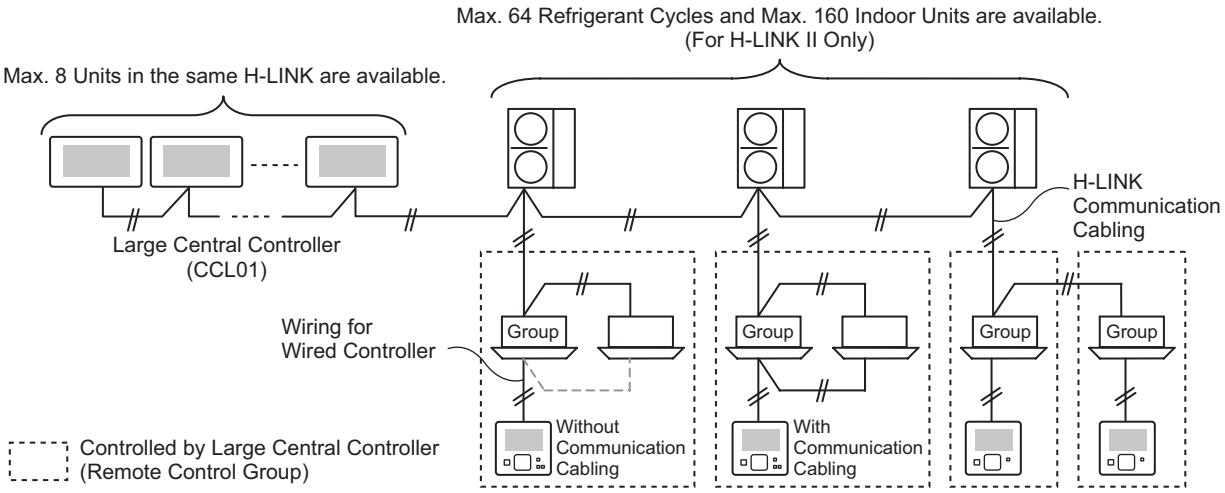
- Only use electrical protection equipment and tools suited for this installation.
- Insulate the wired controller against moisture and temperature extremes.
- Use specified cables between units and the controller.
- Communication cabling shall be a minimum of 18-Gauge, 2-Conductor, Stranded Copper. Shielded cable must be considered for applications and routing in areas of high EMI and other sources of potentially excessive electrical noise to reduce the potential for communication errors. When shielded cabling is applied, proper bonding and termination of the cable shield is required as per Johnson Controls-Hitachi Air Conditioning guidelines. Plenum and riser ratings for communication cables must be considered per application and local code requirements.
- The polarity of the input terminals is important, so be sure to match the polarity when using contacts that have polarity.
- Highly dangerous electrical voltages may be used in this system. Carefully refer to the wiring diagram and these instructions when wiring. Improper connections and inadequate grounding can cause serious injury or death.
- Before installing the controller or remote devices, ensure that the indoor and outdoor unit operation has been stopped. Further, be sure to wait at least five minutes before turning off the main power switch to the indoor or outdoor units. Otherwise, water leakage or electrical breakdown may result.
- Do not open the service cover or access panel to the indoor or outdoor units without turning OFF the main power supply. Before connecting or servicing the controller or cables to indoor or outdoor units, open and tag all disconnect switches. Never assume electrical power is disconnected. Check with a meter and equipment.

- Use an exclusive power supply at the controller's rated voltage.
- Be sure to install circuit breakers (ground fault interrupter, isolating switch, molded case circuit breaker, and so forth) with the specified capacity. Ensure that the wiring terminals are tightened securely to recommended torque specifications.
- Clamp electrical wires securely with a cord clamp after all wiring is connected to the terminal block. In addition, run wires securely through the wiring access channel.
- When installing the power lines, do not apply tension to the cables. Secure the suspended cables at regular intervals, but not too tightly.
- Make sure that the terminals do not come into contact with the surface of the electrical box. If the terminals are too close to the surface, it may lead to failures at the terminal connection.
- Do not clean with, or pour water into, the controller as it could cause electric shock and/or damage the unit. Do not use strong detergent such as a solvent. Clean with a soft cloth.
- Check that the ground wire is securely connected. Do not connect ground wiring to gas piping, water piping, lighting conductor, or telephone ground wiring.

2. System Configuration

This large central controller (CCL01) is connected to H-LINK and used for the central control and monitoring of the air conditioners.

< Example >

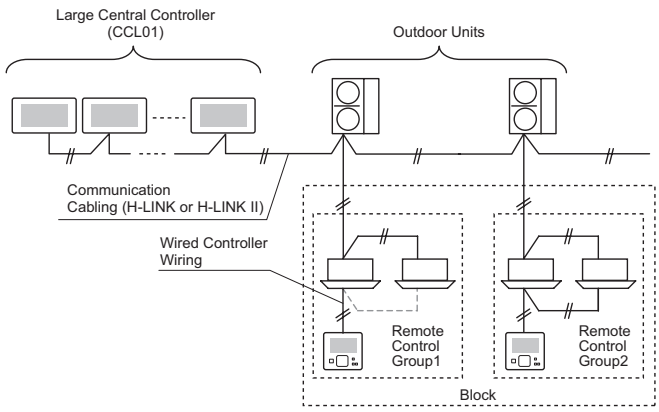


NOTE: When an indoor unit without a wired controller is connected, the large central controller cannot be used.

3. Features

The following functions are available for all indoor units connected to the large central controller.

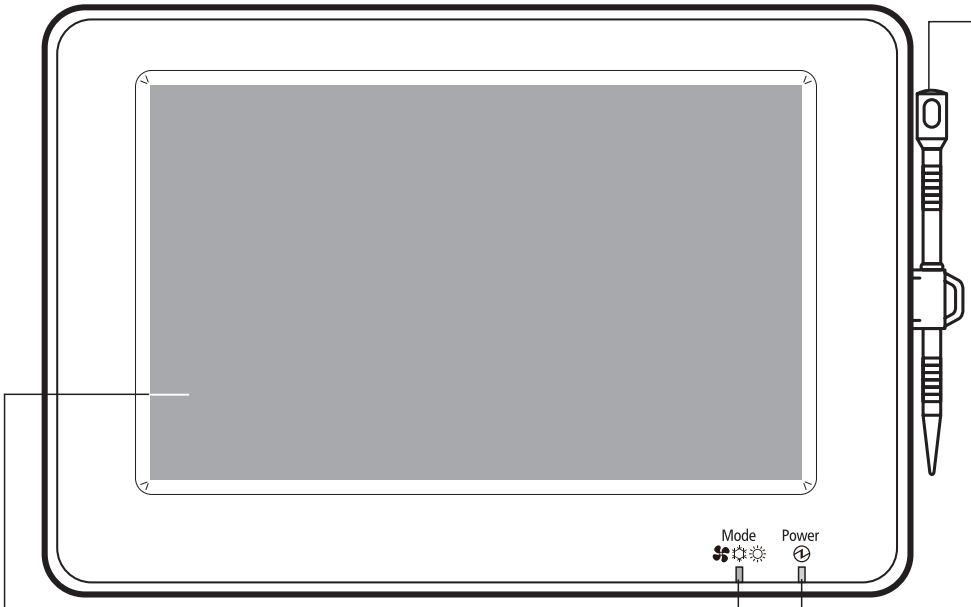
1. Setting, and Permitting/Prohibiting Operation by Wired Controller
2. Monitoring of Operating Conditions for Block/Groups
3. Schedule Operation (Run/Stop and Temperature Setting) for Block/Groups
4. Run/Stop, Emergency Stop and Demand Function by External Input
5. Run and Alarm Output by External Output
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. Display for Accumulated Operation Time of Air Conditioning Unit of Each Group or Save it in Memory Card
10. Indication of Alarm History Record
11. Registering Names of Blocks and Groups
12. Registration and Indication of Service Contact Information
13. Operation modes can be selected as follows.
    - Normal Operation
    - Run/Stop Only
14. Press the Icon Guide Button to Indicate Descriptions of Icons



NOTE:
Group: Remote Control Group
Block: Collection of Remote Control Groups

4. Component Names and Functions

4.1 Component Names



Touch Pen

Operates the touchscreen for the large central controller.

Color LCD Display with Touchscreen

To operate and monitor units by the touchscreen display.
It is operated by using touch pen (accessory).
The touchscreen display will lapse into sleep mode if there has been no interaction within over a certain period of time. Just touch anywhere onscreen to reawaken.

Power Indicator

Indicates the power condition for the large central controller.
OFF (lamp): Power is turned OFF
ON (lamp): Power is turned ON

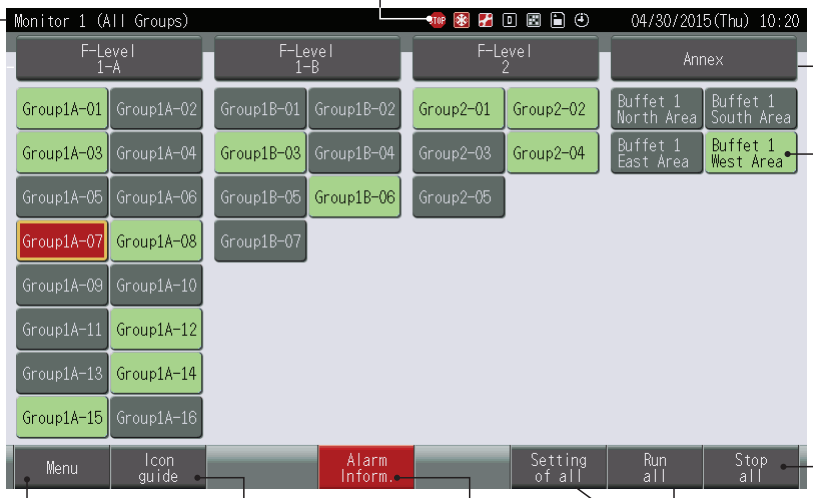
Operation Indicator

Indicates the Run/Stop condition of the units.
OFF: All the units are stopped.
ON (Green): One or more units are in operation.
Flashing (Red): In abnormal condition

NOTE:
Remove the protective laminate sheet on LCD (liquid crystal display) before using this product.

4.2 Screen Display

"Monitor 1 (All Groups)"



Present Status
Displays the present status (all groups)

Unit Condition
Indicates the unit condition such as filter sign, demand, and so on.

Block Button
Changes the screen display to "Block" <Monitor 2 (Block)> indication by touching on this button.

Group Button
Indicates the operating condition for each group as follows.
Green: Run
Gray: Stop
Red: Abnormal
If the target group button is touched, "Settings" for the target group screen will be displayed.
***(Refer to Section 7.5.)**

"Stop all" Button
Stops all the units simultaneously that are controlled by the large central controller.

"Run all" Button
Runs all the units simultaneously that are controlled by the large central controller.

"Setting of all" Button
Changes the settings for those units simultaneously that are controlled by the large central controller.

"Menu" Button
Displays menu items such as "Filter Sign Reset", "Schedule Setting", and so forth.

"Icon guide" Button
Displays explanations of icons.
Touch the button for details.

"Alarm Inform" Button
Displays any abnormality.
Touch the button for details.

"Monitor 2 (Block)"

Present Indication
Displays the present status; (groups in block)

Unit Condition
Indicates the unit condition such as filter sign, demand, and so forth.

Block Tab
Changes the monitor display to "Block" or "All Groups".

Group Button
Indicates the operating condition
Green: Run
Gray: Stop
Red: Abnormal
If the target group button is touched, "Settings" of the target group screen will be displayed.
****(Refer to Section 7.5.)**

"Stop by Block" Button
Stops the all groups operation in the target block simultaneously.

"Run by Block" Button
Runs the all groups operation in the target block simultaneously.

"Setting by Block" Button
Simultaneously changes the setting for all groups within the target block.

"Menu" Button
Indicates the menu items such as "Filter Sign Reset","Schedule Setting", and so forth.

"Alarm Inform." Button
Identifies and displays any irregularities.
Touch the button for details.

*Only for the "Normal Mode" operation. In "Run/Stop Only" mode, the operation is switched back and forth between Run ⟷ Stop.
**Only for the "Normal Mode" operation. In "Run/Stop Only" mode, the operation is switched back and forth between Run ⟷ Stop.

5. Quick Reference

5.1 Screen Structure

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

Screen Display			Function	Page
Monitor 1 (All Groups)			To display the name of all groups and operating conditions	10
Monitor 2 (Block)			To display the name of groups in the block and operating conditions	11
Menu			To display the list of menu items	23
	Filter Sign Reset		To reset the filter sign	24
	Schedule Setting	Schedule Timer Setting	To set or change the weekly schedule	25
			To copy the scheduled setting	27
			To delete the schedule timer setting	29
		Holiday Setting	To specify days of suspended schedule setting	32
		Schedule Timer ON/OFF Setting	To set scheduled operation ON/OFF	33
	Remote Control Setting Temperature Range		To adjust the temperature setpoint range of the local wired controller	34
	Adjusting Date/Time		To adjust the date and time	35
	Touchscreen Cleaning		To lock the touchscreen for cleaning	35
	Touchscreen Calibration		To calibrate the touch position on the touchscreen	36
	Group Name Register		To register the name of blocks and groups	37
			To copy the name of blocks and groups	38
	Screen Display Setting	Brightness	To adjust the backlight brightness of the display screen	39
		Language Setting	To set the displayed language	40
		Temperature Unit	To set the temperature unit	41
	Accumulated Operation Time		To display the accumulated operation time of the unit or to save in the memory card	42
	Contact Information		To display the service contact address (if registered)	45
	Daylight Saving Time Setting		To set the daylight saving time operation.	46
	Service Menu		This switch is for the serviceman only. If this switch is used and the service menu is displayed on the screen, touch “Previous Screen”. The screen will return to the menu.	-

5.2 Functions

The table below shows the main functions.

< Operation Procedure >

Display of All Groups (all the indoor units which are connected to the large central controller.)	10
Display of Specified Block (all the remote control groups in the block which are connected to the large central controller.)	11
Simultaneous Run/Stop for All Groups	12
Simultaneous Run/Stop for Block	13
Run/Stop for Each Group	14
Operation Mode Change	16
Fan Speed Setting	17
Louver Swing Direction	18
Setting Temperature	19
Permitting/Prohibiting Operation from Wired Controller	20

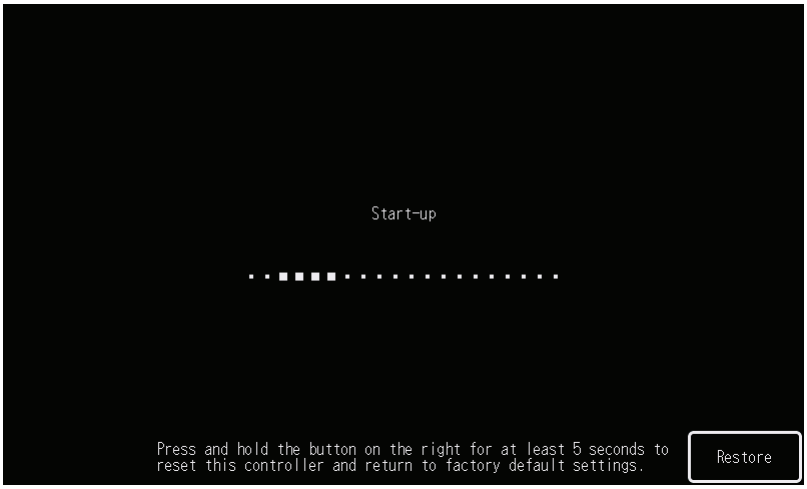
< Menu Function >

Menu (Menu Functions and Details)	21
Menu	22
Filter Sign Reset	23
Schedule Operation	24
Remote Control Setting Temperature Range	34
Adjusting Date/Time	35
Touchscreen Cleaning	35
Touchscreen Calibration	36
Registering Groups/Blocks Name	37
Screen Display Setting	39
Accumulated Operation Time of Unit	42
Contact Information	45
Daylight Saving Time Operation	46

6. Initial Power Activation Setting

Turn on the power supply to the air conditioners.
Apply power to the outdoor unit(s) at least 12 hours prior to operation of the system for pre-heating of the compressor oil. Do not turn off the power supply during the air conditioning season.

Turn ON the power supply to the large central controller.
“Start-up” will be displayed and the screen will change to “Monitor 1 (All Groups)”.

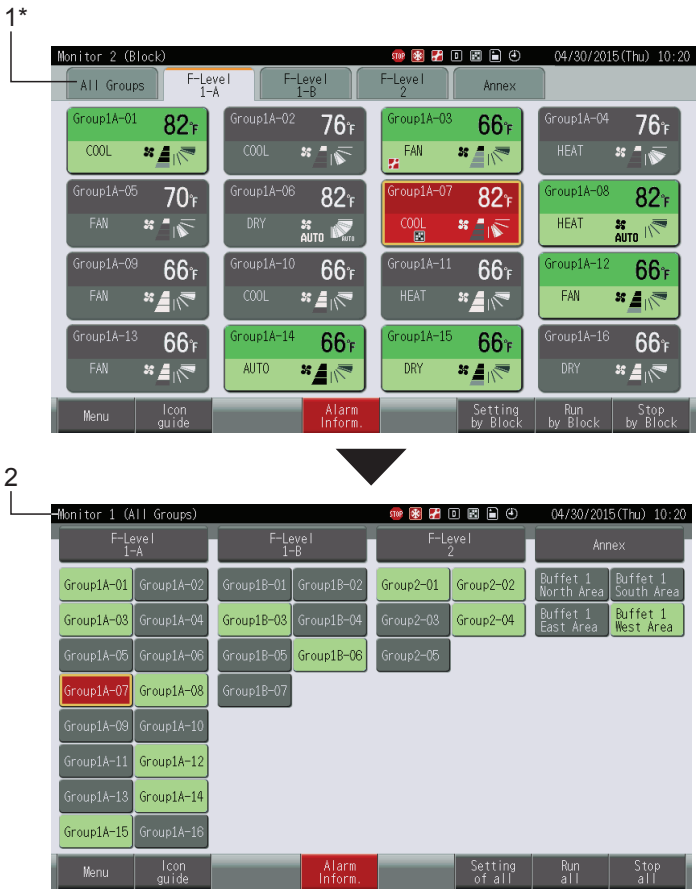


NOTE:
Setting the date and time may be required after a long-term power outage.
In that instance, “Set Date/Time” will be displayed on the screen. If “Set” is touched, “Adjusting Date/Time” will be displayed.

Refer to Section 8.5 for setting the date and time.

7. Operation Procedure

7.1 Display of All Groups



1. Touch “All Groups” on the touchscreen display.

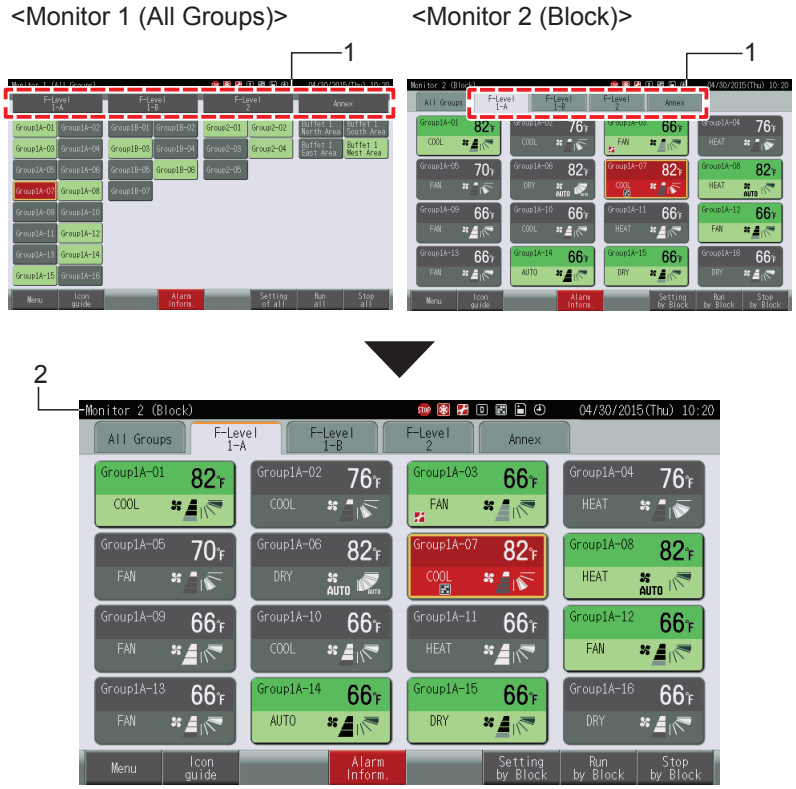
   * The tab (top row) called out by “1”, “All Groups”, will not be displayed if only one block has been registered.

2. All groups are displayed on the touchscreen.
   (All indoor units connected to the large central controller will be displayed.)
   Each operation status is represented by the color of the Group button as follows:

   Green: Run
   Gray: Stop
   Red: Abnormal

NOTE:
The touchscreen display will automatically lapse into sleep mode when no interaction takes place over a specified length of time. (To awaken, touch anywhere on the screen.)

7.2 Display of Specified Block



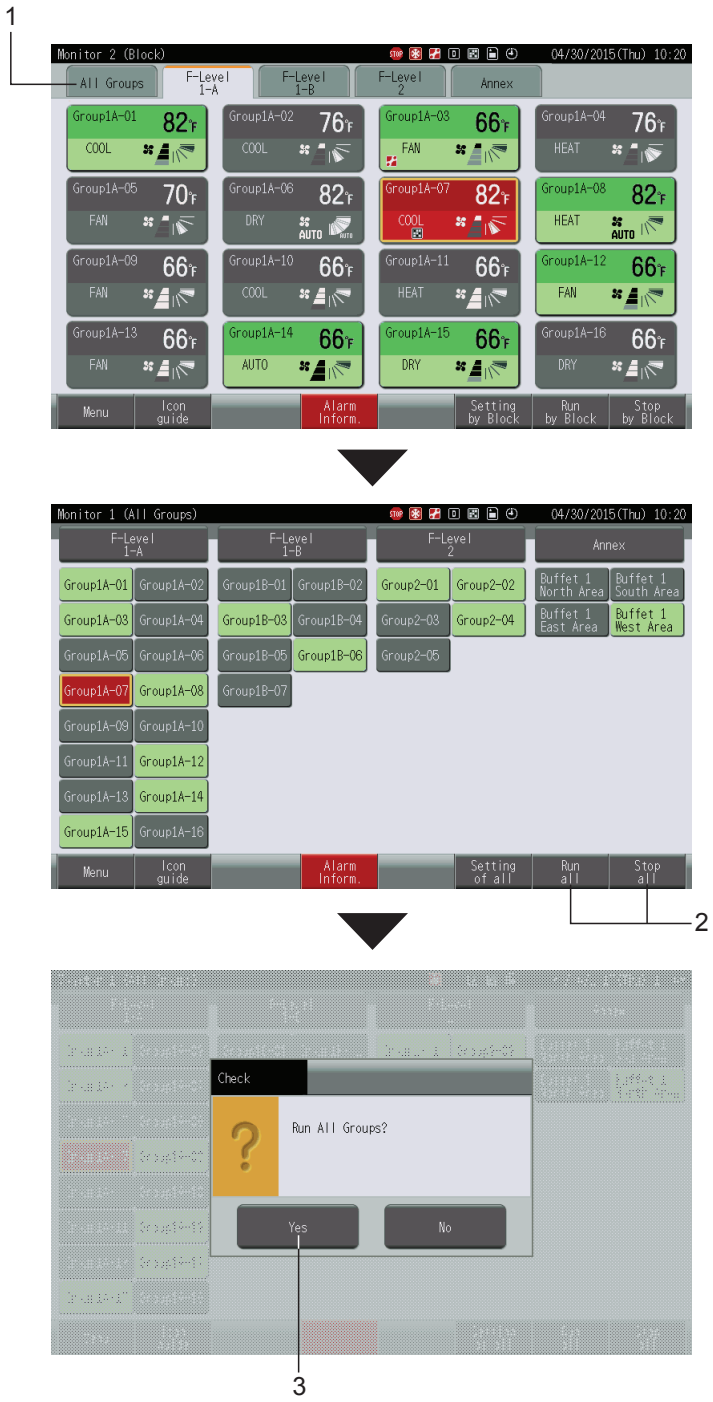
1. Select the target block from the “Monitor 1 screen, (All Groups)” or “Monitor 2 (Block)”.

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

   Green: Run
   Gray: Stop
   Red: Abnormal

NOTE:
The touchscreen display will automatically lapse into sleep mode when no interaction takes place over a specified length of time. (To awaken, touch anywhere on the screen.)

7.3 Simultaneous Run/Stop for All Groups



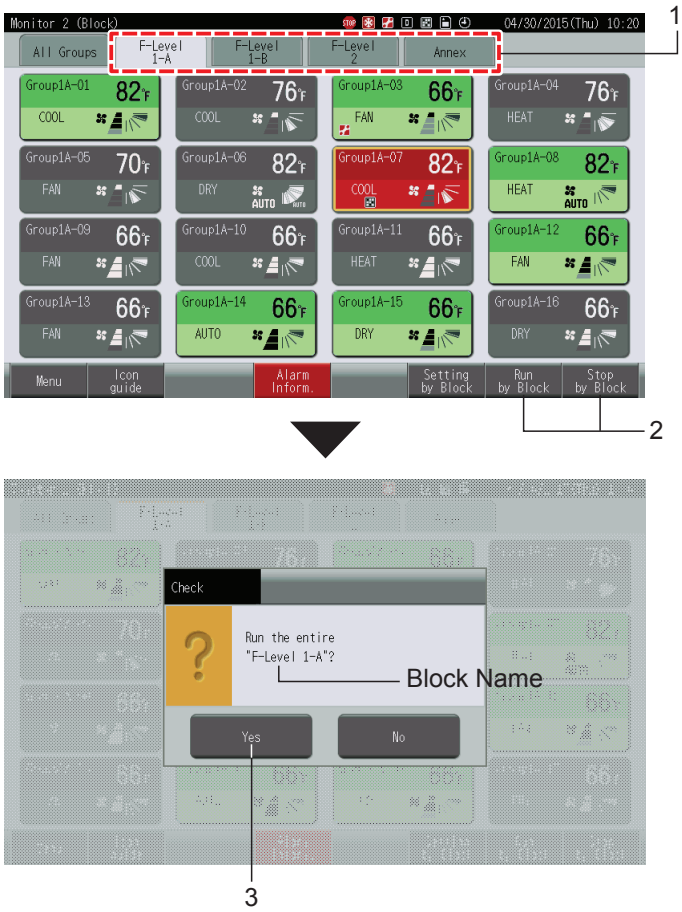
1. Touch “All Groups” on the touchscreen display.

2. Touch “Run All” or “Stop All”.

3. The confirmation screen will be displayed.
   Touch “Yes”.
   (All indoor units connected to the large central controller will be simultaneously operated.)
   Touch “No” to cancel this command.

NOTE:
The “Run/Stop All” command does not affect those groups specified in “Exception Setting of Run/Stop Operation”.

7.4 Simultaneous Run/Stop for Block



1. Select the target block from the touchscreen display to set a simultaneous Run/Stop operation.
2. Touch “Run by Block” or “Stop by Block”.
3. The confirmation screen will be displayed. Touch “Yes”.
   All groups (all indoor units) in the selected block connected to the large central controller will be operated simultaneously.
   Touch “No” to cancel this command.

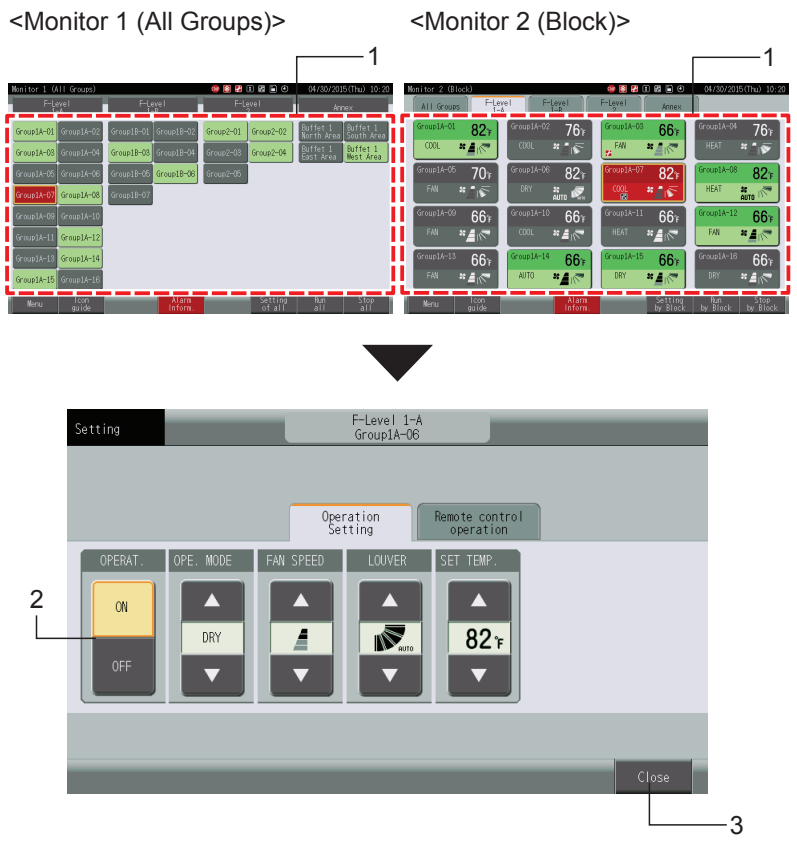
NOTE:
The “Run/Stop by Block” command will not affect those blocks specified in “Exception Setting of Run/Stop Operation”.

7.5 Run/Stop for Each Group

Check the control mode before setting.

<Control Mode>
Normal setting: Refer to Section 7.5.1.
“Run/Stop Only” mode setting: Refer to Section 7.5.2.
Refer to the Installation Manual for the details of “Run/Stop Only” mode.

7.5.1 Run/Stop Operation for Each Group (Control Mode: Normal)

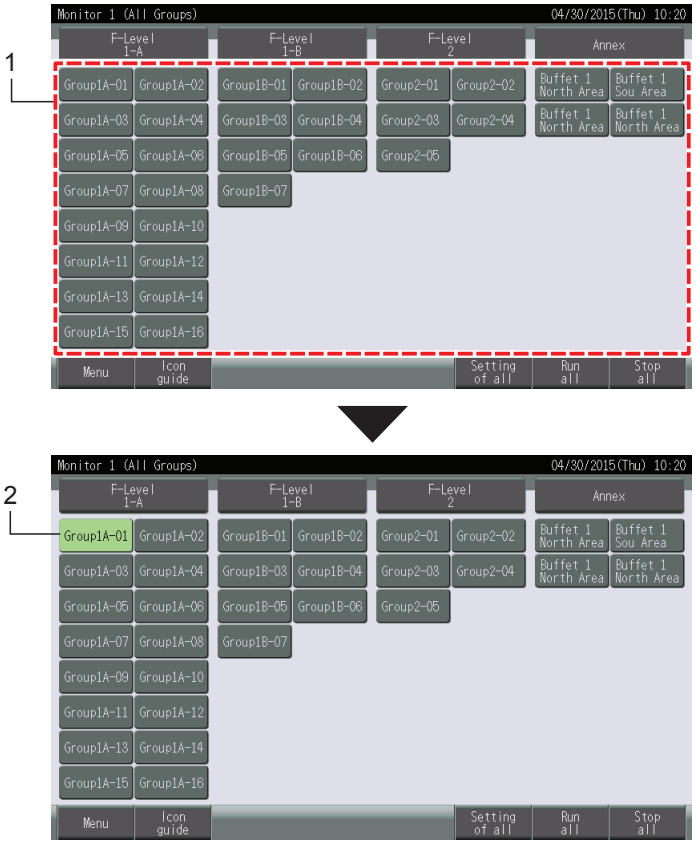


1. Select the “Monitor 1 (All Groups)” or “Monitor 2 (Block)” screen. Select the group to set by touching on the group button.
2. The selected group setting will be displayed on the touchscreen display. Touch “ON” or “OFF”.
3. Touch “Close” to return to “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

NOTE:
Value and contents on setting menu may change due to status change caused by RC and other operations.

7.5.2 Run/Stop Operation for Each Group (Control Mode: “Run/Stop Only”)

<Monitor 1 (All Groups)>



1. Select the target group at “Monitor 1 (All Groups)” in the “Run/Stop Only” mode.

2. The selected group operation is alternately changed by touch as follows:

   “Stop” ⟷ “Run”

   In this mode, simultaneous “Run/Stop” operations for all groups is an option using the “Run all” and “Stop all” buttons.
   Refer to Section 7.3 for details.

<Monitor 2 (Block)>

1. Select the target group at the “Monitor 2 (Block)” in “Run/Stop Only” mode.

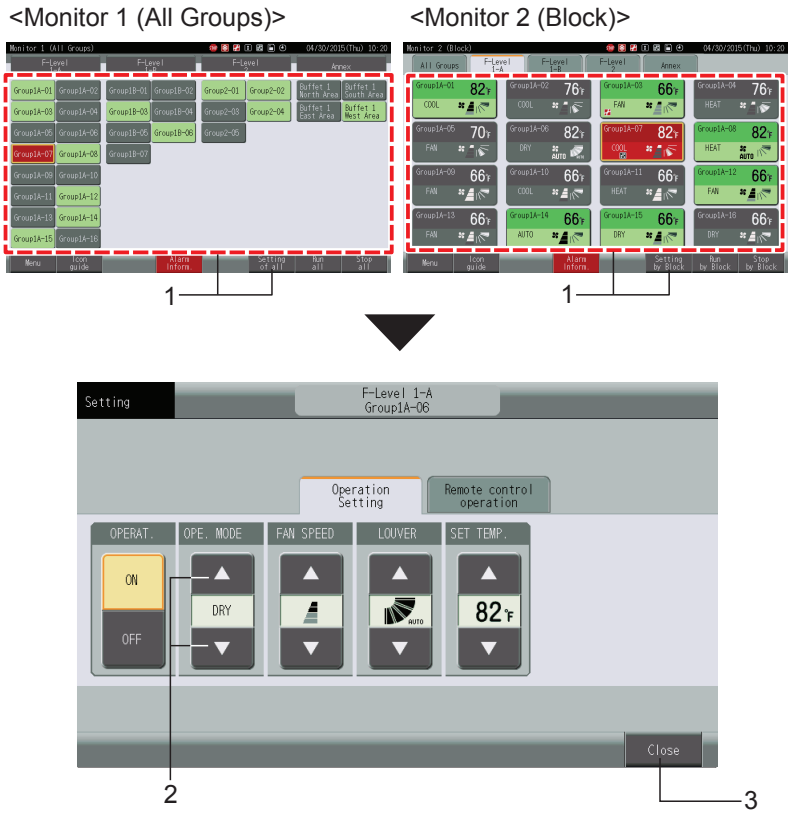
2. The selected group operation is alternately changed by touch, back and forth as follows:

   “Stop” ⟷ “Run”

   In this mode, simultaneous Run/Stop operations for a block is an option by “Run by Block” and “Stop by Block” buttons.
   Refer to Section 7.4 for details.

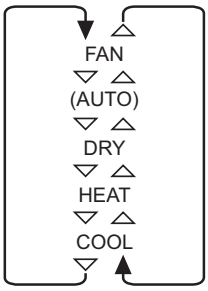
NOTE: Details for the setting of this function are found in Section 10.4 “Optional Function Setting” in the installation and maintenance manual.

7.6 Operation Mode Change



1. Select the target group at “Monitor 1 (All Groups)” or “Monitor 2 (Block)” to change the operation mode setting.
   A “Settings” pop-up for the selected group is displayed on the touchscreen.

2. By touching “△” or “▽” of the “OPE. MODE”, the operation mode will be changed alternately as follows.



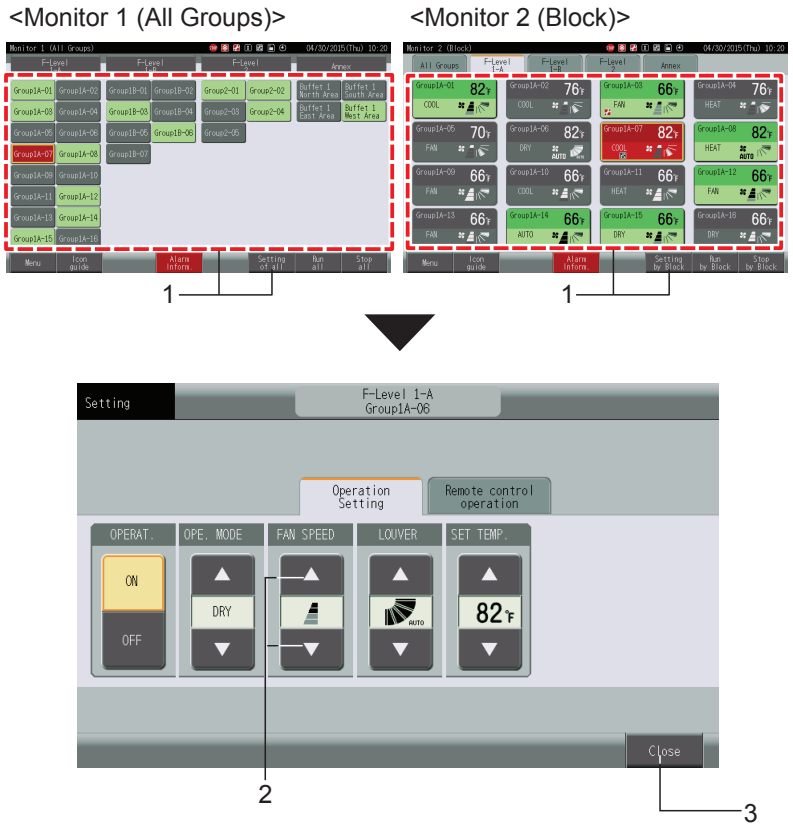
   The “AUTO” (Heating/Cooling Automatic Operation) will be included as an option if applicable.

3. Touch “Close” to return to “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

NOTES:

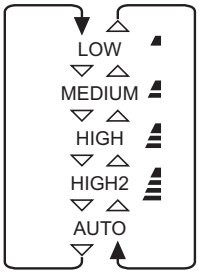
- When in the “Run/Stop Only” mode, a change of settings can only be made by way of the “Setting of All” or “Setting by Block” button. (A change of settings for each group is NOT available.)
- Some operational modes cannot be set depending on the unit model. Contact your distributor for detailed information.
- Value and contents on setting menu may change due to status change caused by RC and other operations.

7.7 Fan Speed Setting



1. Select the target group at “Monitor 1 (All Groups)” or “Monitor 2 (Block)” to change the fan speed setting. A “Settings” pop-up for the selected group is displayed on the touchscreen.

2. By touching “△” or “▽” of the “FAN SPEED”, the fan speed setting will be changed alternately as follows.

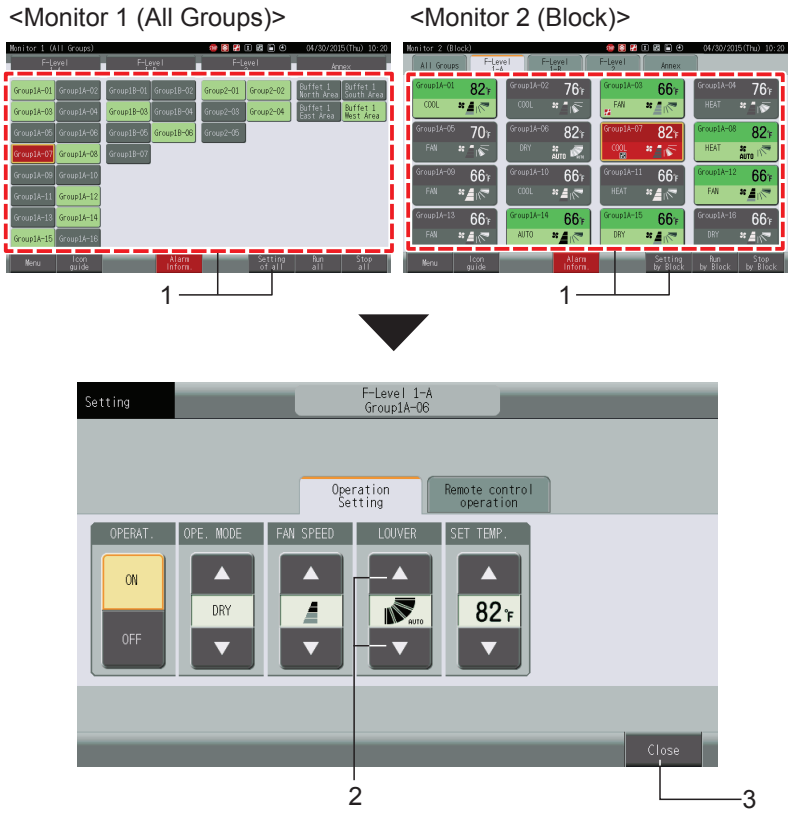


3. Touch “Close” to return to “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

NOTES:

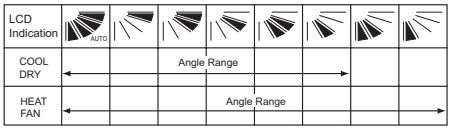
- When in the “Run/Stop Only” mode, a change of settings can only be made by way of the “Setting of All” or “Setting by Block” button. (A settings change for each group is NOT available.)
- Actual fan speed during dry operation will be “LOW” regardless of the fan speed setting.
- The figure above shows an example of a standard unit. The fan speed may not be displayed for certain indoor unit models.
- Value and contents on setting menu may change due to status change caused by RC and other operations.

7.8 Louver Swing Direction



1. Select the target group at “Monitor 1 (All Groups)” or “Monitor 2 (Block)” to change the louver swing direction.
   A “Settings” pop-up for the selected group is displayed on the touchscreen.

2. By touching “△” or “▽” of the “LOUVER”, the louver swing direction will be changed alternately as follows:



: The auto swing operation begins.

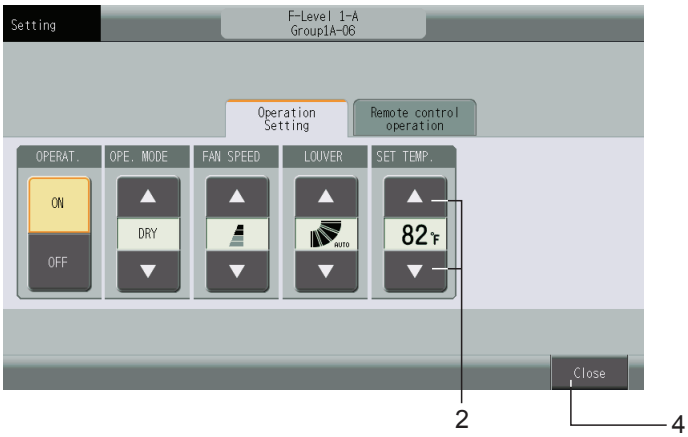
3. (Touch “Close” to return to “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

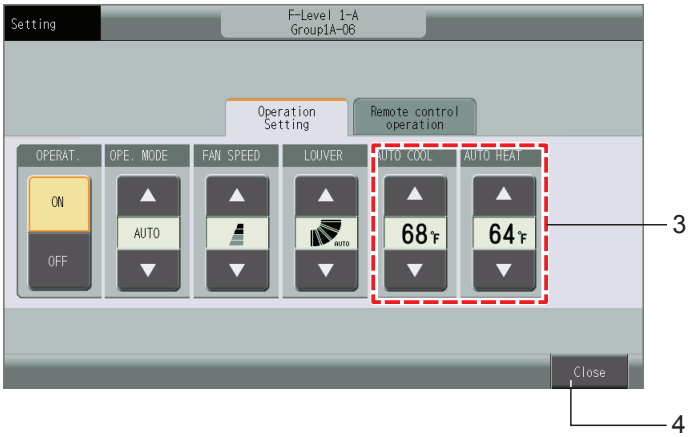
NOTES:

- When in the “Run/Stop Only” mode, a settings change can only be made by the “Setting of All” or “Setting by Block” button. (A setting change for each group is NOT available.)
- This function (louver swing direction) may not be set for all unit models.
- When louver operation is set to Auto-Swing, the louvers of the different indoor units will not be moving in synchronization or in the same direction. Some could be moving upwards when other could be moving downwards at any particular time. The position of the louver shown on the touchscreen graphic and the actual position of louvers are not always the same.
- The louver may not stop immediately after the switch is pressed.
- Value and contents on setting menu may change due to status change caused by RC and other operations.

7.9 Setting Temperature

<Monitor 1 (All Groups)> <Monitor 2 (Block)>

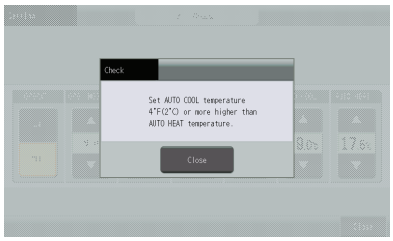




1. Select the target group at “Monitor 1 (All Groups)” or “Monitor 2 (Block)” to change the temperature setpoint. A “Settings” pop-up for the selected group is displayed on the touchscreen.

2. Touch “△”, and the temperature is increased by 1°F/°C to a maximum of 86°F (30°C).
   Touch “▽”, and the temperature is decreased by 1°F/°C.
   - During Cooling; Dry and Fan operation: Minimum of 67°F (19°C)
   - During Heating operation: Minimum of 63°F (17°C).

3. In case dual setpoint is selected in automatic heating/cooling operation, during auto mode both cooling setpoint and heating setpoint can be selected.
   - Set AUTO COOL temperature 4°F (2°C) or higher than AUTO HEAT temperature.



4. Touch “Close” to return to “Monitor 1 screen (All Groups)” or “Monitor 2 (Block)”.

NOTES:

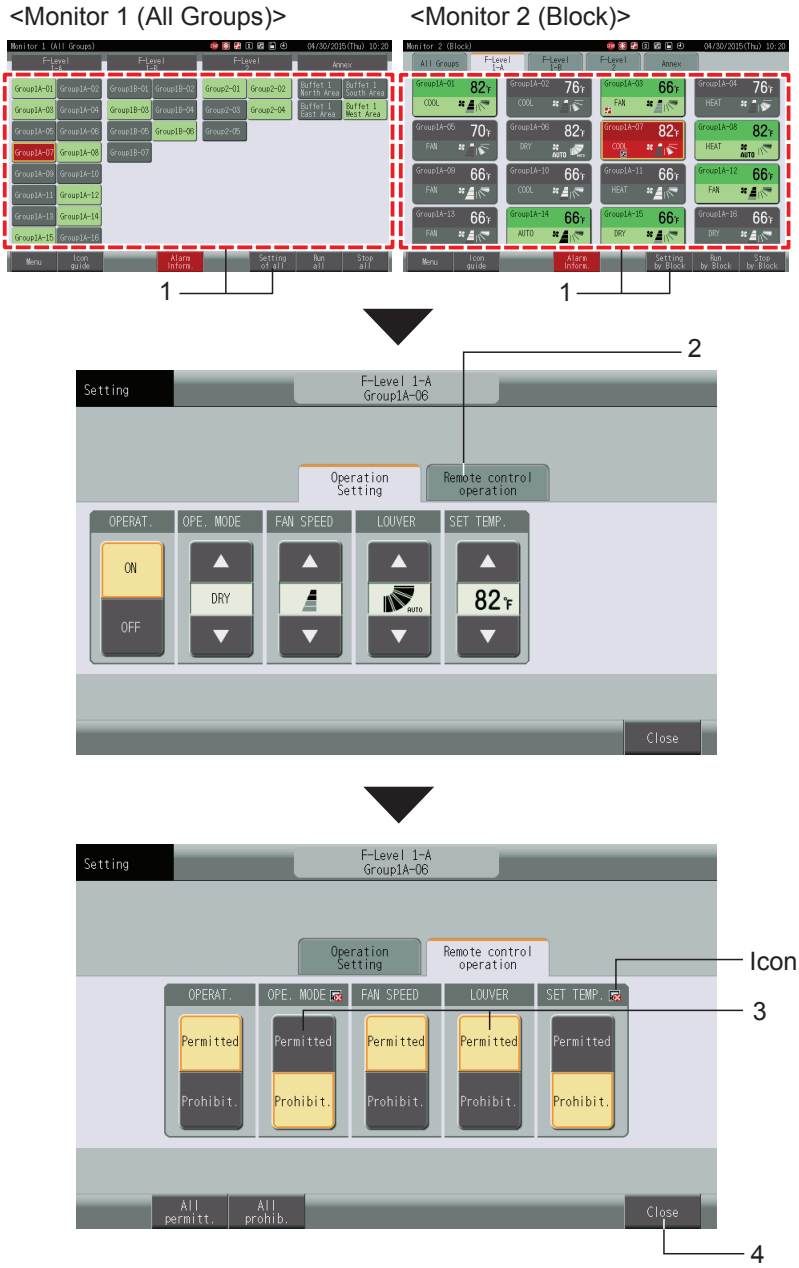
- When in the “Run/Stop Only” mode, a setting change can only be made by the “Setting of All” or “Setting by Block” button. (A setting change for each group is NOT available.)
- The figure above shows an example of the temperature setpoint for a standard unit. The temperature setting range may be different depending on those connected indoor units.
- Value and contents on setting menu may change due to status change caused by RC and other operations.

7.10 Permitting/Prohibiting Operation from Wired Controller

This function is used for prohibiting operation with the wired controller.
While operation is prohibited, “Central Control” is indicated on the LCD of the wired controller and operation by the wired controller is not an option. When the wired controller is set as prohibited (by Item/All Items), the control of the selected item will not be an option. The functions that can be selected are: Run/Stop, Operation Mode, Fan Speed, Louver Swing and Temperature.

NOTES:
Pay attention to the following when the group function is prohibited.

- When setting of the remote control is prohibited, do not use the function control lock of the wired controller.
- When using the remote control to prohibit an operation and the control lock function at the same time, the control lock function cannot be set.
- When changing a setting from **remote control prohibited** to **remote control permitted**, all the settings for the control lock will be cancelled.



1. Select the target group at “Monitor 1 (All Groups)” or “Monitor 2 (Block)” to set the function of “Remote control operation”.
   A “Settings” pop-up for the selected group is displayed on the touchscreen.
2. Touch to select “Remote control operation”.
3. Select “Permitted” or “Prohibit.” for each function. The icon “ ” will display when selecting “Prohibit.”.
   If all the functions are “Permitted” or “Prohibit.”, “All Permit.” or “All Prohib.” can be selected.
   NOTE:
   Depending on the air conditioner or the remote control used, only “All permit.” or “All prohib.” will be available.
4. Touch “Close” to return to “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

NOTES:

- When in the “Run/Stop Only” mode, a setting change can only be made by the “Setting of All” or “Setting by Block” button.
- Even if the wired controller is set as “Prohibited”, it is possible to stop the operation from running with the wired controller. It is also possible to restart operation using the wired controller. However, the Stop operation will only be used in an emergency. It should not be used in normal operation.
- If “Power Supply ON/OFF” (d1, d3) is set, don’t set the wired controller as “Prohibited”. If the wired controller is restricted when using “Power Supply ON/OFF”, use the function “Control Lock”.
- If a communication error occurs, the wired controller “STOP” (by function) may be canceled. If this happens, perform the setting again.
- Value and contents on setting menu may change due to status change caused by RC and other operations.

8. Menu

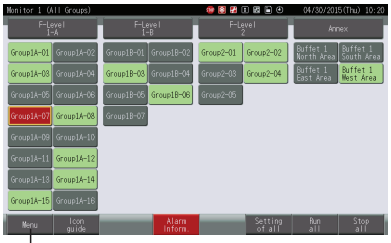
The table below shows menu features and its function.

Feature		Function	Page
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 a “Filter Sign”.	24
Schedule Setting		This function is used for scheduled timer operations which can be set for each block or group.	25
	Schedule Timer Setting	This function is used for setting the time (by the minute), “Run/Stop”, and temperature 66~86°F(19~30°C). For weekly schedule settings, up to 10 schedule items can be set per day. It is also possible to copy the settings information.	25
	Holiday Setting	This function is used for suspending a scheduled operation temporarily. The scheduled operation will not be possible when this function is set. This function is used for setting irregular holidays such as national holidays.	32
	Schedule Timer ON/OFF Setting	“Schedule Timer OFF Setting” is used for suspending the scheduled operation for the target group. The scheduled operation is not possible when the Schedule Timer is OFF. This function is used for long holiday, sudden shutdowns, national holidays, and so forth.	33
Remote Control Setting Temperature Range		This function is used for restricting the temperature setpoint. It is possible to set a cooling minimum temperature or heating maximum temperature.	34
Adjusting Date/Time		This function is used for adjusting date and time.	35
Touchscreen Cleaning		This function is used for cleaning the liquid crystal display (LCD) of the large central controller. If the screen is not touched for 10 seconds, it will return to the menu screen.	35
Touchscreen Calibration		This function is used for calibrating the tap position for the touchscreen. This function is used if an operation is not carried out smoothly when the button on the touchscreen is tapped.	36
Group Name Register		This function is used for registering names of blocks and groups. The registrable number of letters are a maximum of 20 letters for the name of each block or group. It is also possible to copy the name. If the group/block is registered without a name, it will be registered as “Group 1” or “Block 1” automatically.	37
Screen Display Setting		This function is used for setting the screen display.	39
	Brightness	This function is used for adjusting the brightness of the touchscreen display.	39
	Language Setting	This function is used for changing the displayed language.	40
	Temperature Unit	This function is used for changing the temperature of the unit.	41
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 saved for 15 months. It is possible to specify the thermo-ON time by setting the controller option and saving the accumulated operation time in the memory card.	42
Contact Information		This function is used for specifying the service contact address and the latest alarm code.	45
Daylight Saving Time Setting		This function is used for setting daylight saving time.	46

8.1 Menu

The setting functions for the indoor unit and large central controller are laid out in the menu.

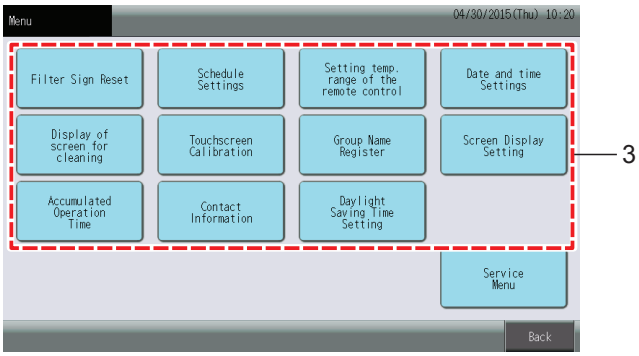
<Monitor 1 (All Groups)>



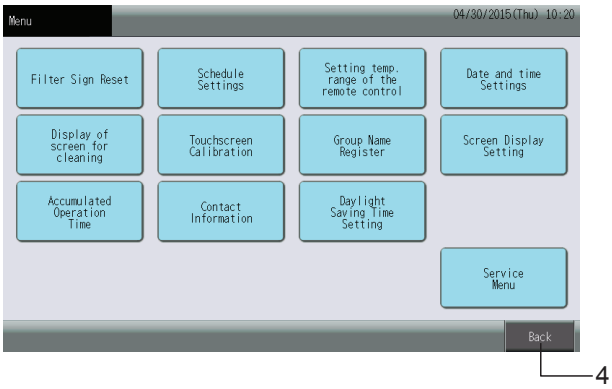
<Monitor 2 (Block)>

1. Touch “Menu” at “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

2

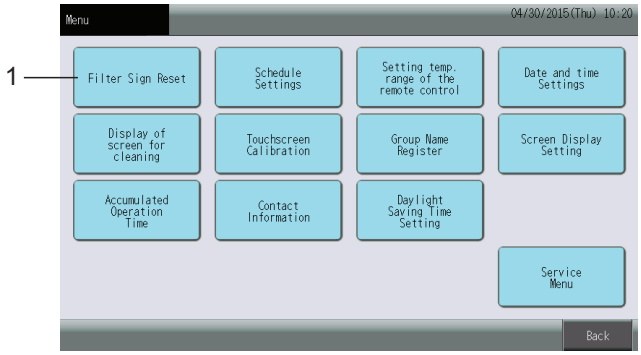


2. The “Menu” screen will be displayed.
3. Select the function from the “Menu” screen.



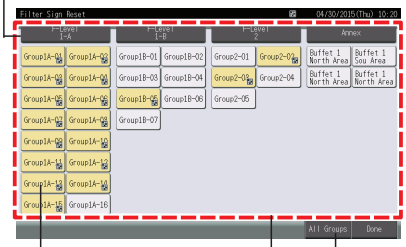
4. Touch “Back” to return to “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

8.2 Filter Sign Reset



2 (Block)

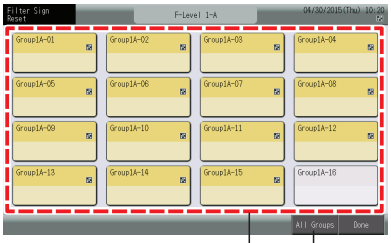
<Block (Qty.): Two or more>



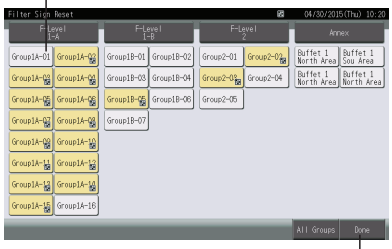
2 (All Groups)

2 (Group)

<Block (Qty.): One>



2



3

4

3

4

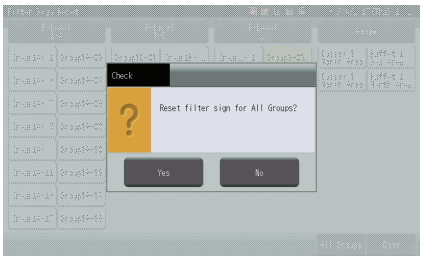
1. Select “Filter Sign Reset” from the “Menu” screen.
   (This is possible only when the filter sign is indicated.)

2. Select the target (All Groups, Block, or Group) to reset the Filter Sign. The yellow button indicates the group or groups have unit with active Filter Sign.

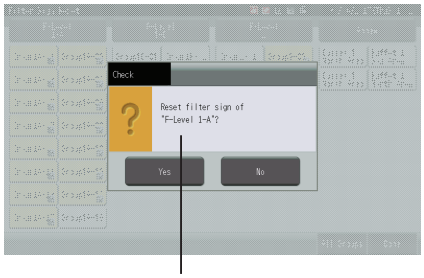
   If there is a case of simultaneous reset of the Filter Sign:

   Select “All Groups” or “Block”. The following confirmation screen will be displayed. The Filter Sign can be reset by selecting “Yes”.

When “All Groups” is touched



When “Block” is touched



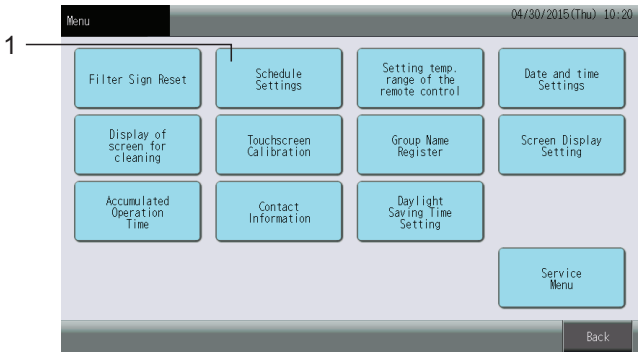
Block name is displayed.

3. When the Filter Sign is reset, the Group button color changes to white.
4. Touch “Done” to return to “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

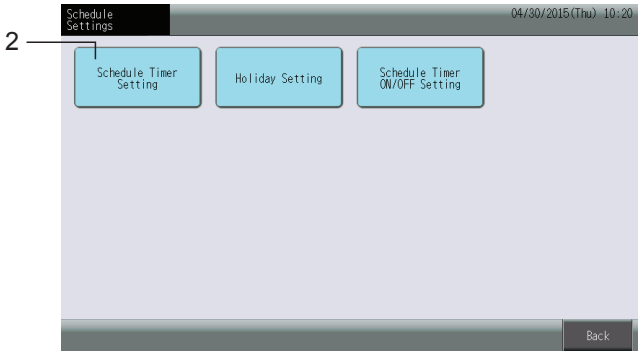
8.3 Schedule Operation

8.3.1 Schedule Setting

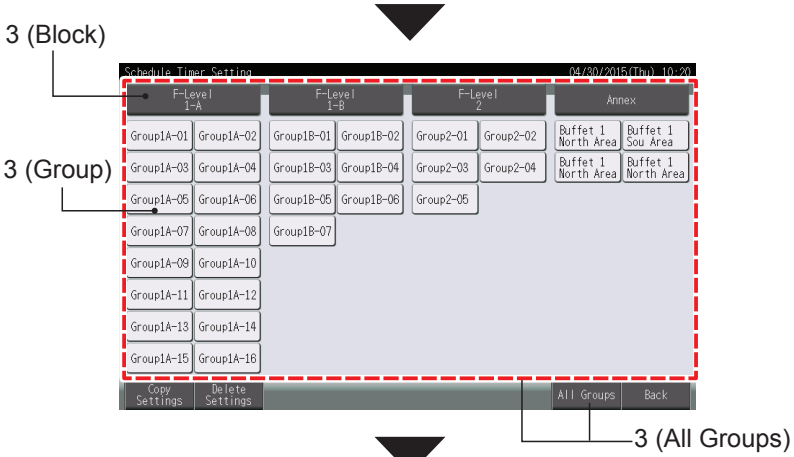
< Timer Setting for Weekly Schedule >



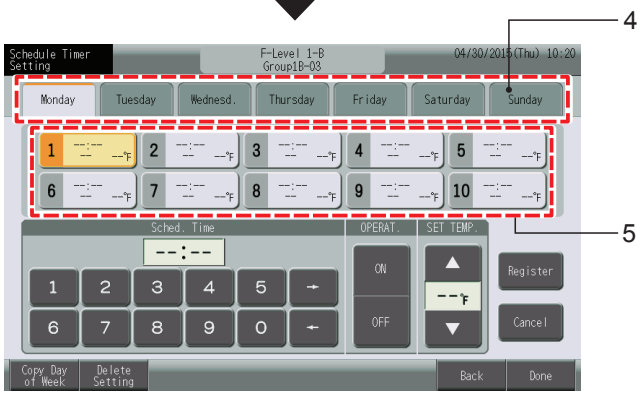
1. Select “Schedule Settings” from “Menu” screen.



2. Select “Schedule Timer Setting” from the “Schedule Settings” screen.

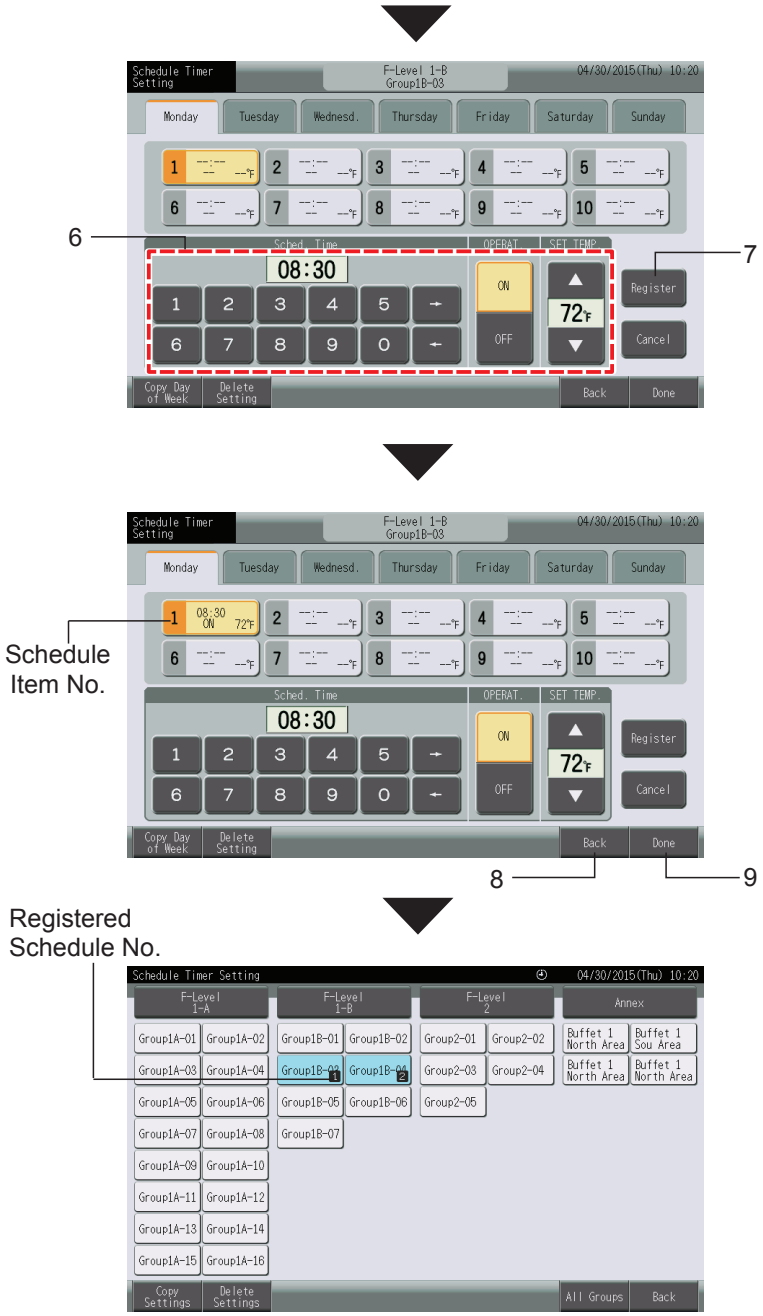


3. Select the target (All Groups, Block, or Group).
   - The blue button indicates the group with a setup schedule.
   - The white button indicates the group without a setup schedule.



4. Select the target day of the week (from Monday through Sunday).
5. Select the scheduled number (from 1 to 10).

Continue to Next Page



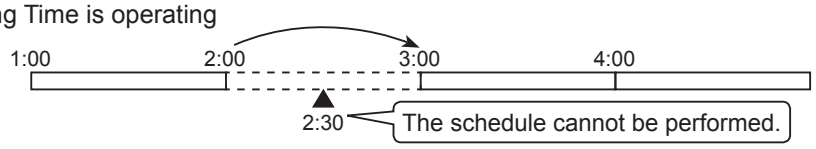
6. Set the scheduled time, ON/OFF operation, and temperature.
   - Select the scheduled item number (1~10) and set the time.
   - Select “ON” or “OFF”.
   - Touch “△” or “▽” to set the temperature.
   - The “- -” symbol displays when the time and temperature are not set.
7. Touch “Register” to register the scheduled functions. Touch “Cancel” and a scheduled operation will be canceled.
   - To set the same day of the week, refer to step (5) above.
   - To set other days of the week, refer to step (4) above.
8. Touch “Back” to set the timer for other groups. The screen will return to “Schedule Timer Setting”, Refer to step (2) above.
   - After the schedule is set, the registered schedule number (1-64) will be displayed in the Group button. (The scheduled Group button turns blue.)
   - If settings are the same, the same registered schedule number will be displayed.
9. Touch “Done” to return the “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.
   - If “Done” is touched without a registration action, those scheduled items are cancelled. And the screen will be changed to “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

NOTE:
Make sure that the time and ON/OFF are set for the timer setting.
(It is not necessary to set the temperature.)

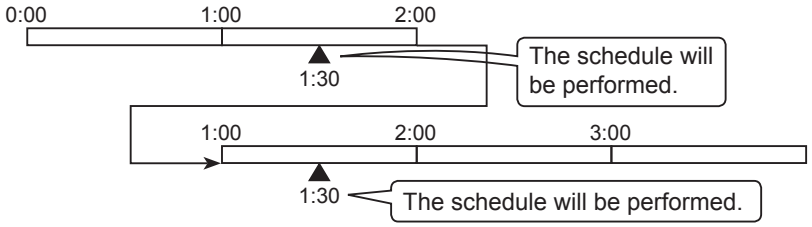
Daylight Saving Time (DST)

■ Schedule process when Daylight Saving Time is operating

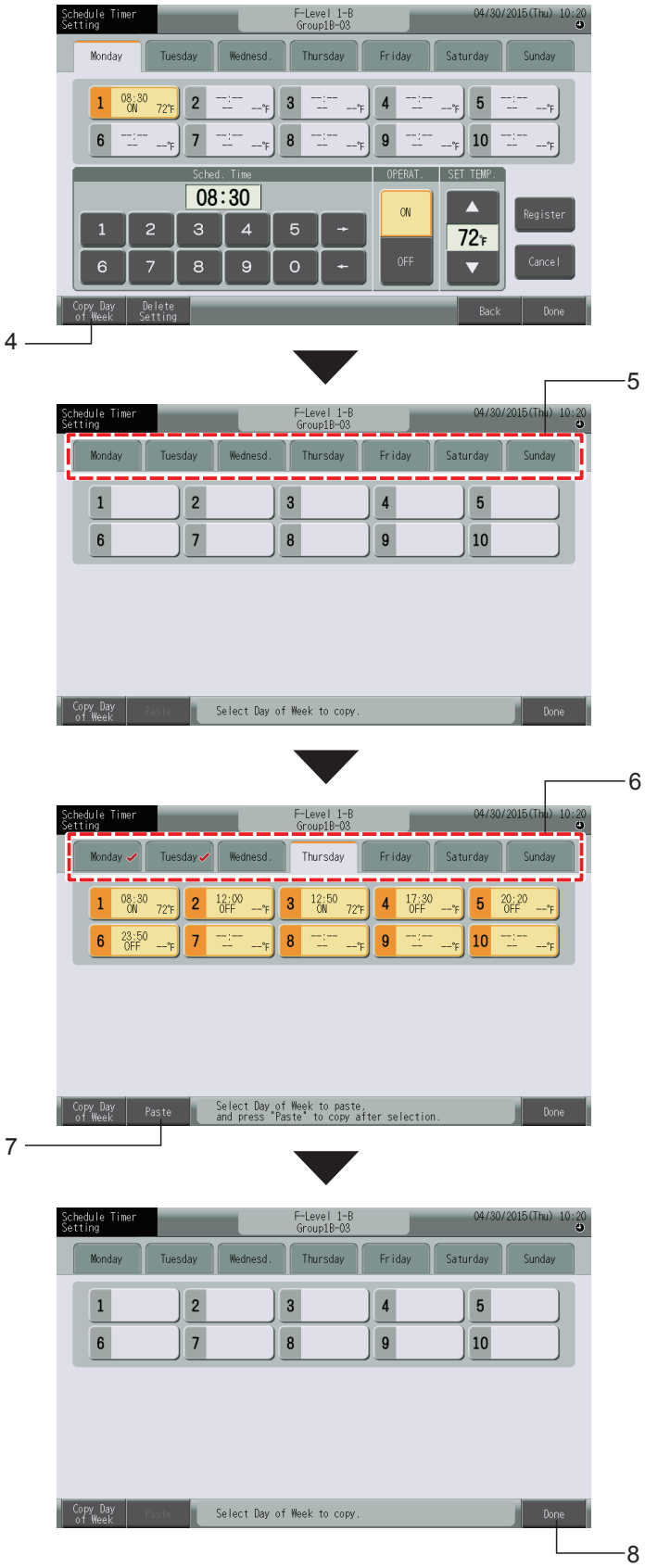
<Starting Time>
When starting at 2:00 with 1 hour shifting time, the schedule set at 2:30 cannot be performed.



<Ending Time>
When ending at 2:00 with 1 hour shifting time, the schedule set at 1:30 will be performed twice.



< Copying Schedule Setting by Days of Week >



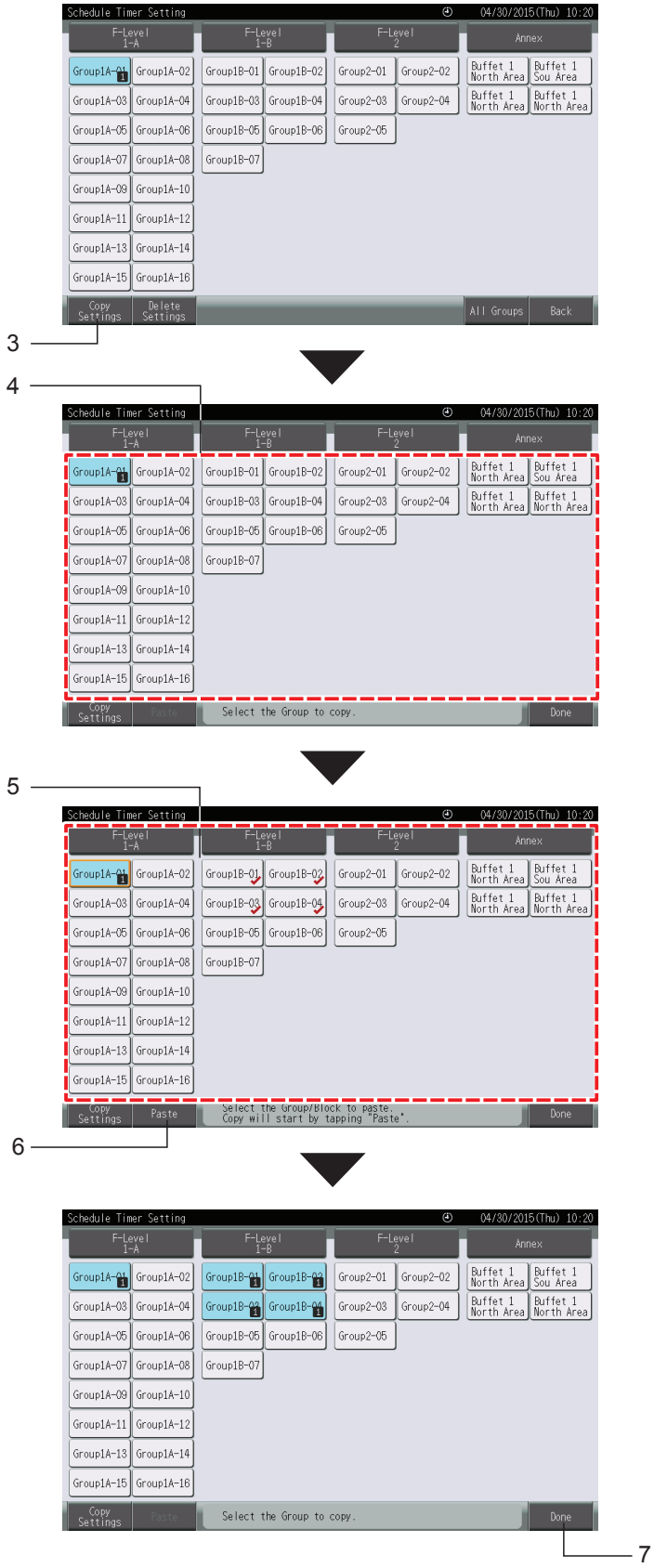
1. Select “Schedule Settings” from the “Menu” screen.
2. Select “Schedule Timer Setting” from the “Schedule settings” screen.
3. Select the target (All Groups, Block or Group).
4. Touch “Copy Day of Week”.

5. Select the day of the week tab to copy.
   - All the schedules (Scheduled numbers 1 to 10) for the selected day are displayed in yellow.

6. Select the day of the week tabs to paste. In this case, it is Monday and Tuesday.
   - After the day of the week is selected, a red “✔” symbol will be displayed in the day of the week tab. (This shows that Monday and Tuesday were copied.)
   - It is possible to copy multiple day selections.
   - Touch the day of the week for reselecting the day of the week tabs.
7. Touch “Paste”.
   The scheduled setting is copied and pasted.
   - Refer to step (5) above to copy the schedule for other days of the week.
   - To finish, refer to step (8) below.

8. Touch “Done” to return the screen to “Schedule Timer Setting”.
   - If “Done” is touched without first touching “Paste”, the information to be copied isn't copied and the operation is canceled.

< Copying Schedule Setting by Each Group >



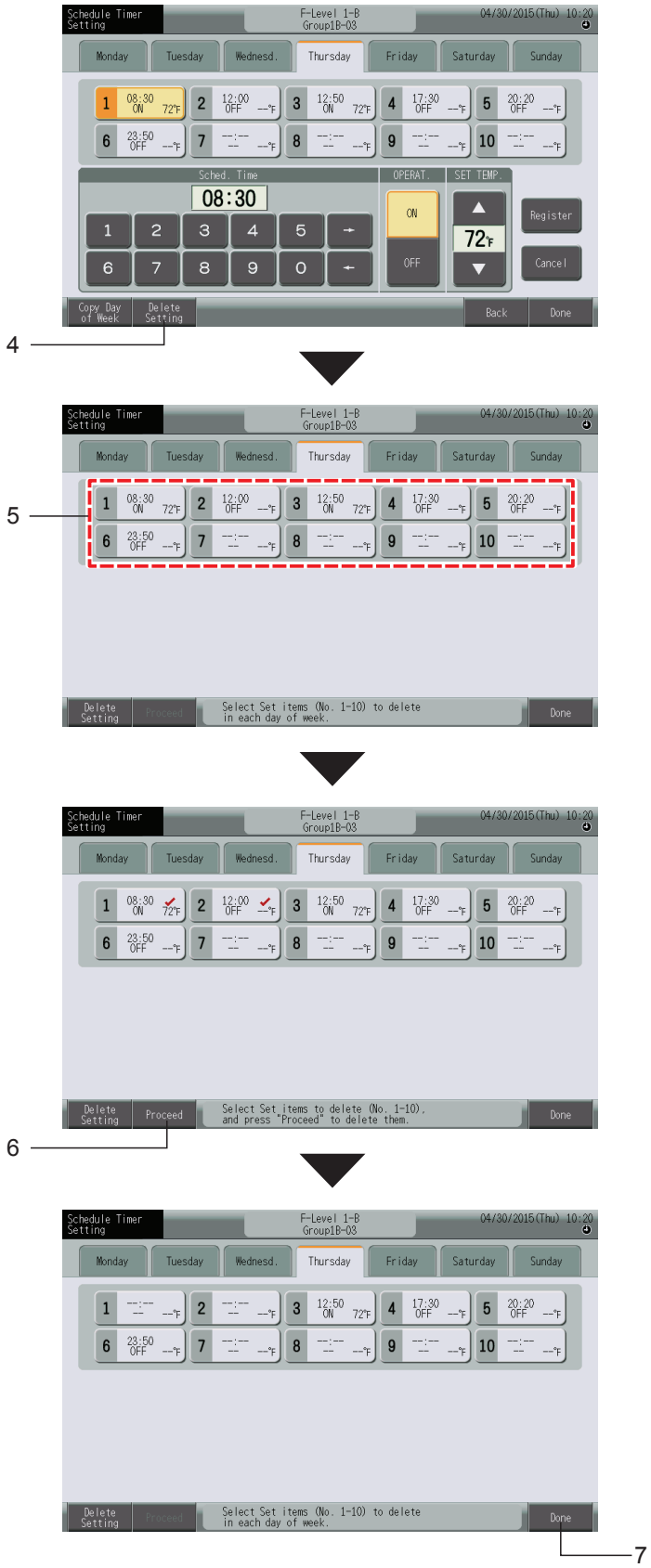
1. Select “Schedule Settings” from the “Menu” screen.
2. Select “Copy Settings” from the “Schedule Settings” screen.
3. Touch “Copy Settings”.

4. Select the group to copy.
(Block cannot be selected to copy.)
   - The selected Group button is trimmed with an orange outline.
   - Touch on the selected Group again to cancel the selection. The orange outline goes away.

5. Select the Group (Block) to paste.
   - A“✔” symbol will be displayed on the button.
   - It is possible to paste multiple selections of a Group (including Block).
   - To cancel the selection, press the selected Group again. The “✔” symbol will turn off.
6. Touch “Paste”.
The schedule setting is copied.
   - To copy the schedule for other groups, refer to step (4) above.
   - To finish, refer to step (7) below.

7. If “Done” is touched, the screen will return to “Schedule Timer Setting”.
   - If “Done” is touched without first touching on “Paste”, the copying operation is canceled.

< Deleting Schedule Setting by Operation No. >



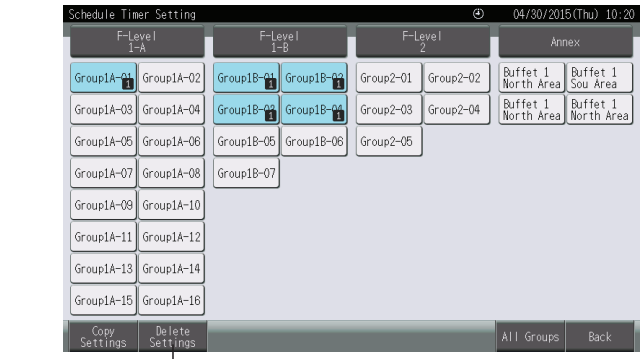
1. Select “Schedule Settings” from the “Menu” screen.
2. Select “Schedule Timer Setting” from the “Schedule Settings” screen.
3. Select the target (All Groups, Block or Group).
4. Touch “Delete Setting”.

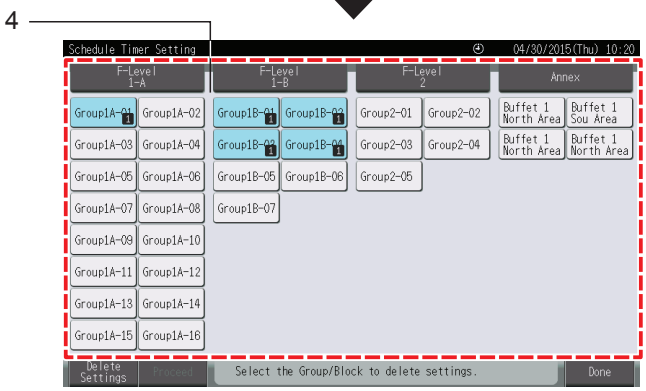
5. Select the scheduled tab number for deleting a schedule.
   - If choices on other days of the week are selected, (touched), scheduled item numbers for those days can be selected.
   - If a scheduled number is selected, a red “✔” symbol is displayed. Multiple selections of scheduled item numbers are possible.

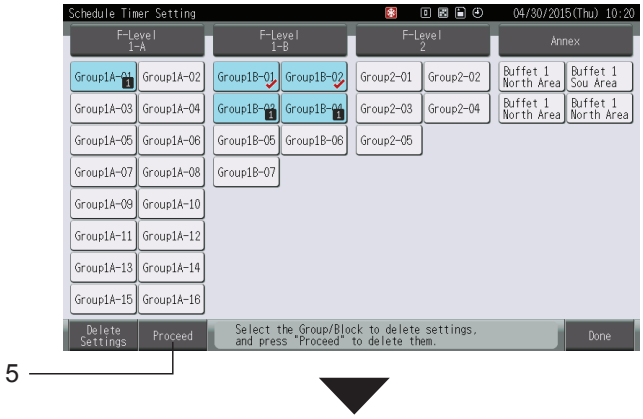
6. Touch “Proceed”.
   The selected scheduled number will be deleted.
   - To delete other scheduled numbers, refer to step (5) above.
   - To finish, refer to step (7) below.

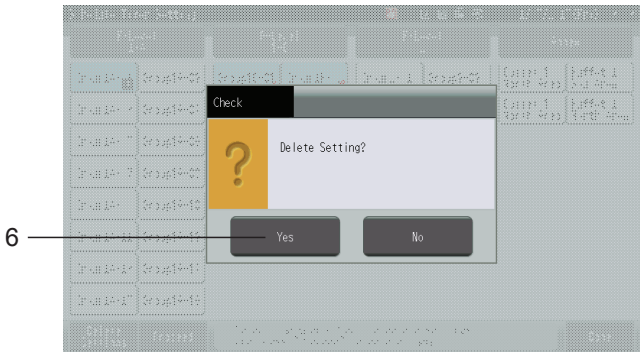
7. Touch “Done” and the screen will return to “Schedule Timer Setting”.
   - If “Done” is touched without first touching on “Proceed”, numbers selected to be deleted are left in place and the operation to delete is cancelled.

< Deleting Schedule Setting by Each Group >









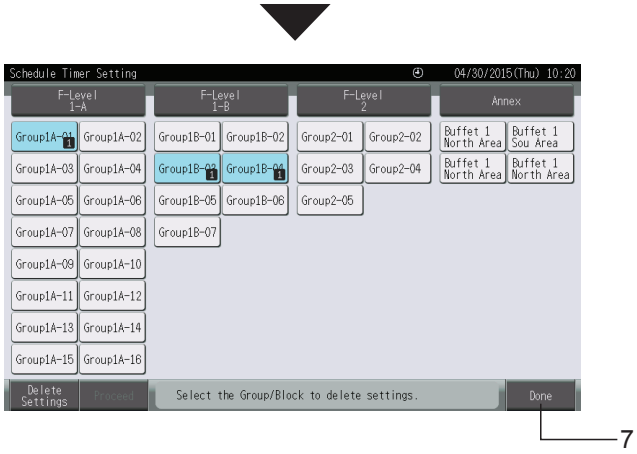
Continue to Next Page

1. Select “Schedule Settings” from the “Menu” screen.
2. Select “Schedule Timer Setting” from the “Schedule Settings” screen.
3. Touch “Delete Settings”.

4. Select those Groups or Blocks to delete the setting.
   - When Groups or Blocks are selected, a red “✔” is displayed.
   - Multiple selections of Groups and Blocks can be deleted.
   - To cancel a selection, press on the selected Group again. The red “✔” goes away.

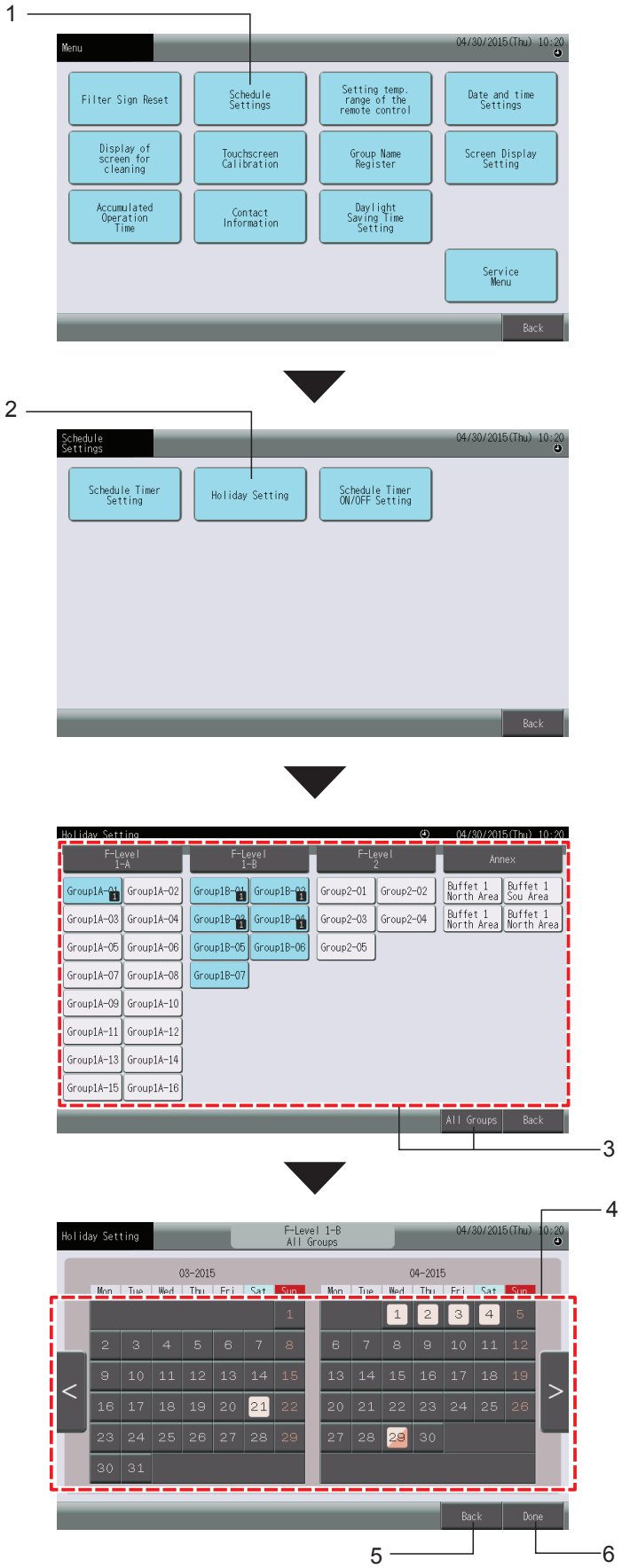
5. Touch “Proceed” and the confirmation screen will be displayed.

6. Touch “Yes”, and the scheduled settings will be deleted.
   - To delete the schedule for other Groups, refer to step (4) above.
   - To finish, refer to step (7) on the following page.



7. Touch “Done”, and the screen will return to “Schedule Timer Setting”.
   - If “Done” is touched without first touching on “Proceed”, Groups selected for deletion are left in place and the operation to delete is cancelled.

8.3.2 Holiday Setting for Operation Suspended



1. Select “Schedule Settings” from the “Menu” screen.

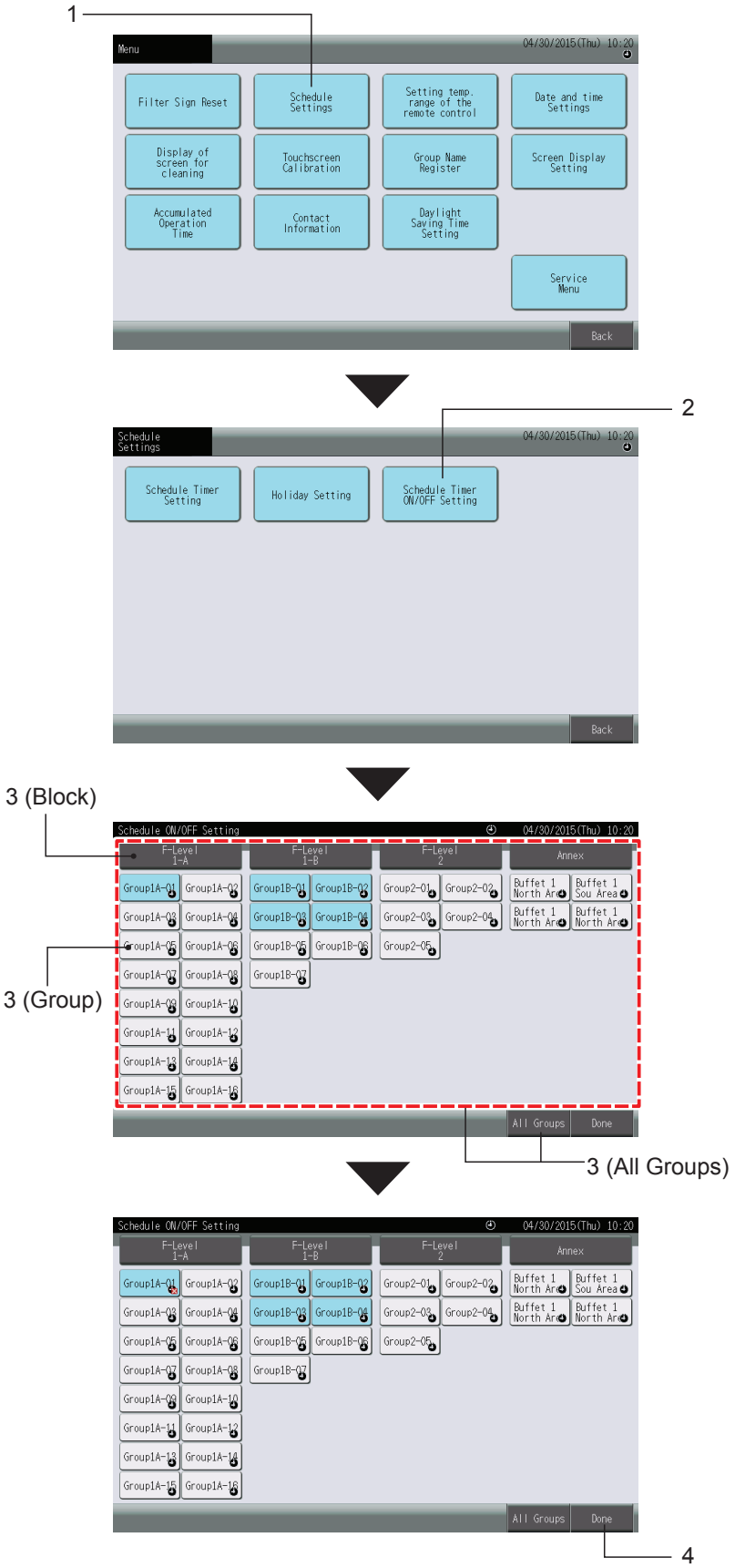
2. Select “Holiday Setting” from the “Schedule Settings” screen.

3. Select the target (All Groups, Block or Group).
   A calendar appears.
   - Blue buttons represent Groups with holiday settings.
   - White buttons represent Groups without holiday settings.

   NOTE:
   “Holiday” means “Operation Suspended Day”.

4. Set the date to suspend a scheduled operation.
   - Scroll the calender backward and forward touching “<” or “>”.
   - By touching the date on the calendar, the “Holiday” is set and is represented with a “▢”. “Holiday Setting” is canceled by touching the same date again.
   - This “▢” will represent the day with a holiday set.
   - With “All Groups” or “Block” selected, a “◪” will represent a day when Groups with holiday setup and Groups without holiday setup are intermixed.
5. Touch “Back” to set the schedule for other groups. The screen will return to “Holiday Setting”.
6. Touch “Done” to return to “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

8.3.3 Schedule Timer ON/OFF Setting



1. Select “Schedule Settings” from the “Menu” screen.

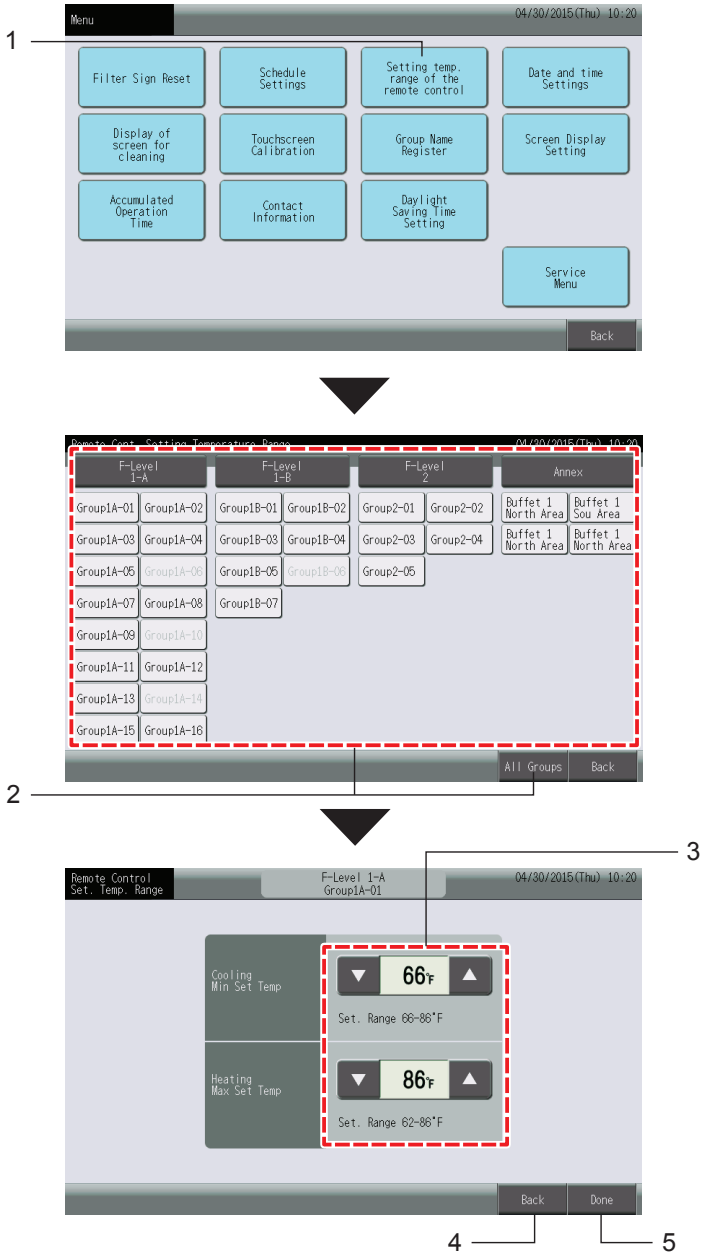
2. Select “Schedule Timer ON/OFF Setting” from the Schedule Settings screen.

   The screen will change to the “Schedule Timer ON/OFF Setting”. At first, the setting is “ON” as symbolized with a “ ”.

3. Select the target (All Groups, Blocks or Groups).
   By touching on the button for All Groups, Blocks, or Groups, the display is changed to the “OFF” setting as represented by a “ ” symbol.
   By touching on All Groups, Blocks, or Groups, the display is changed alternately in order of “ ” and a “ ” symbol.
   - Blue buttons represent Groups with set schedules.
   - White buttons represent Groups with schedules not set.
   - Schedule is turned ON:
     Schedule is turned OFF:

4. Touch “Done” to return to “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

8.4 Adjust Setting Temperature Range of Local Wired Controller



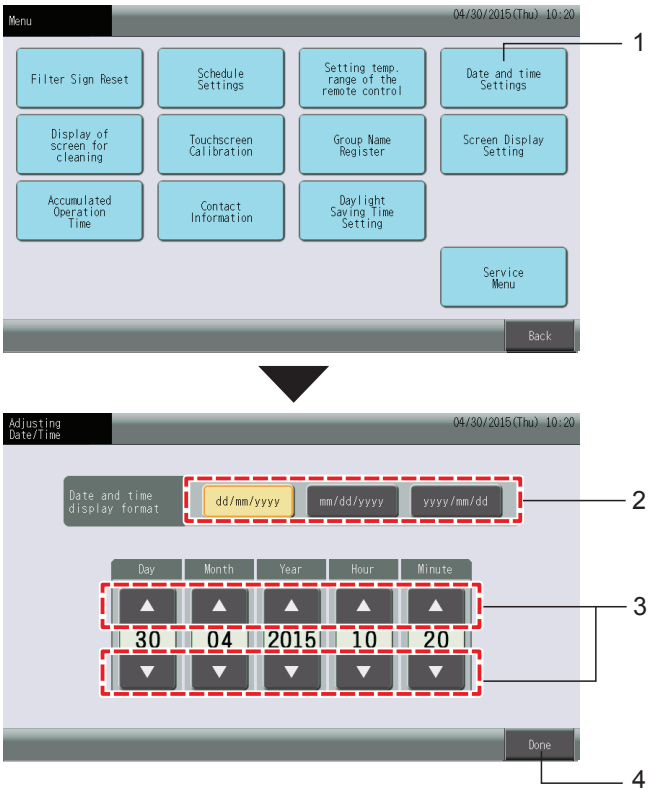
1. Select “Setting temp. range of the remote control” from the “Menu” screen.

2. Select a target to set a temperature range (All Groups/Block/Group).
   - Blue buttons represent Groups with temperature range settings.
   - White buttons represent groups where temperature range settings are not available.
   - Wireless receiver kits with model numbers: C4IRK01, C2IRK01, C1IEK01, and CWDIRK01 should <u>not</u> be used to set up Groups in the Central Controller. A temperature setpoint outside the range can be set from a wireless controller.

   <u>NOTE:</u>
   The following Group cannot be selected:
   - Without a wired controller
   - The representative wired controller Group is not the standard unit supporting H-LINK II (temperature setpoint range is from 66 to 86°F for COOL, and from 62 to 86°F for HEAT).

3. Touch “∆” or “∇” to set a minimum cooling temperature or maximum heating temperature.
4. Touch “Back” when setting other group temperature ranges, to return to the selection screen.
3. Touch “Done” to return to “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

8.5 Adjusting Date/Time

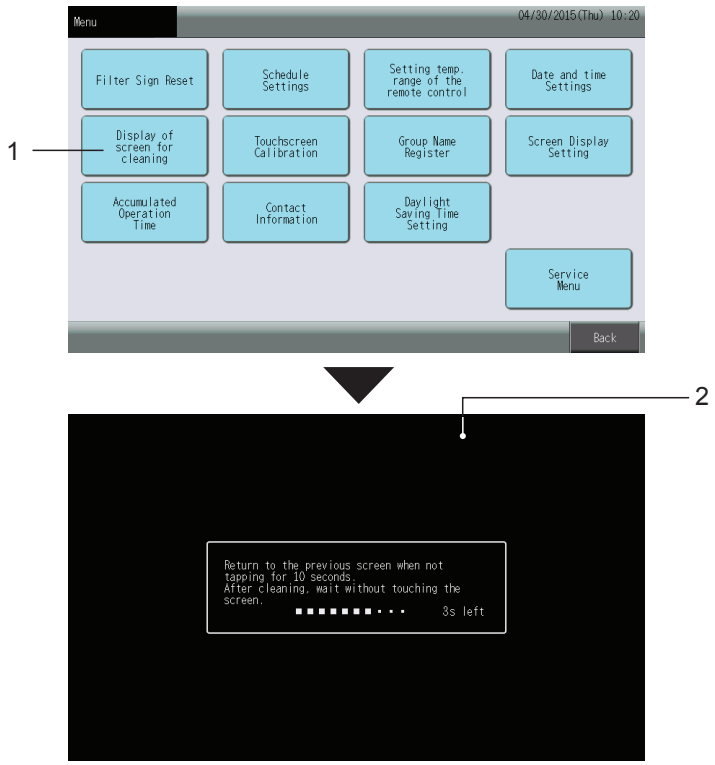


1. Select “Date and time Settings” from the “Menu” screen.
2. Set in the following order: Year, Month, and Day.
3. Touch or press-and-hold “△” or “▽” to adjust the date and time.
4. Touch “Done” to return to “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

NOTES:

- According to the backup function for the large central controller, the clock will continue to run for approximately 10 days after an electrical power outage. Set the date and time again after a long-term electrical power outage.
- Periodic clock adjustment is recommended. (Clock accuracy: difference ±70 sec. per month)

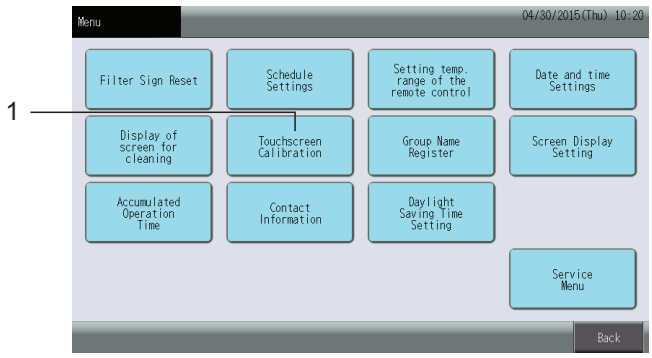
8.6 Touchscreen Cleaning



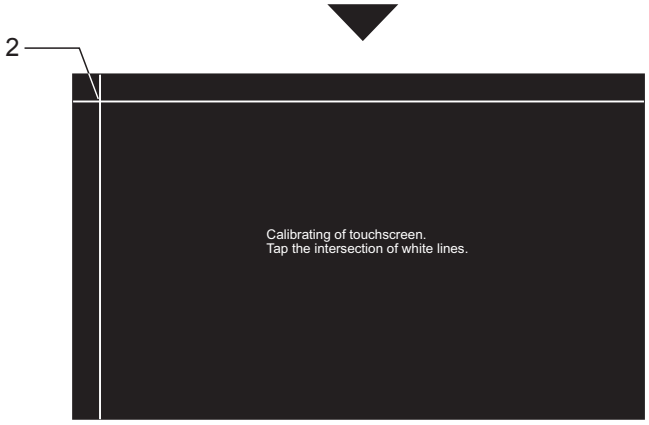
1. Select “Display for Cleaning” from the “Menu” screen.
2. The screen will be changed as shown in figure (2).
   - The screen will be locked during the cleaning. The screen will return to the menu screen if not touched for 10 seconds.

- Clean and wipe the display with a dry, soft cloth.
- Use a diluted neutral detergent to remove oily fingerprint marks on the touchscreen.
  Before cleaning, wring the water out of the cloth. After that, again wipe the display with a dry, soft cloth.
- Do not use benzine-based thinners, or any active surface agent in order to protect the touchscreen and case from damage or deterioration.

8.7 Touchscreen Calibration



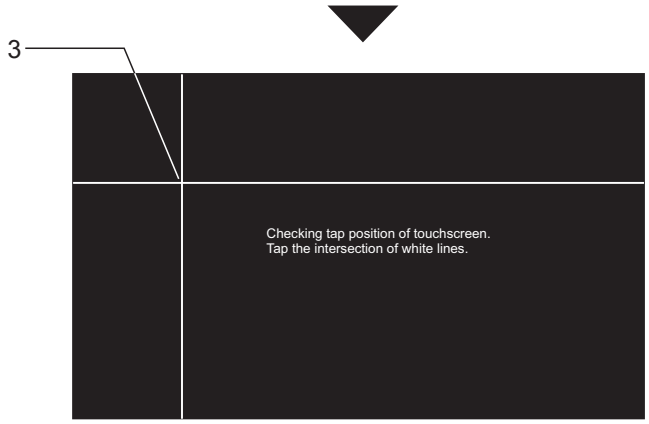
1. Select “Touchscreen Calibration” from the “Menu” screen.



2. <Calibrating Touchscreen>

   Touch at the intersecting white lines in sequence as shown on the screen.

   After that, the screen will be changed. See figure (3) at left.
   If the intersecting white lines are not touched in sequence, a message reading “Calibration is canceled” will be displayed.
   The screen will automatically return to the “Monitor 1 (All Groups)” or “Monitor 2 (Block)” without calibrating.



3. <Checking Position of Touchscreen>

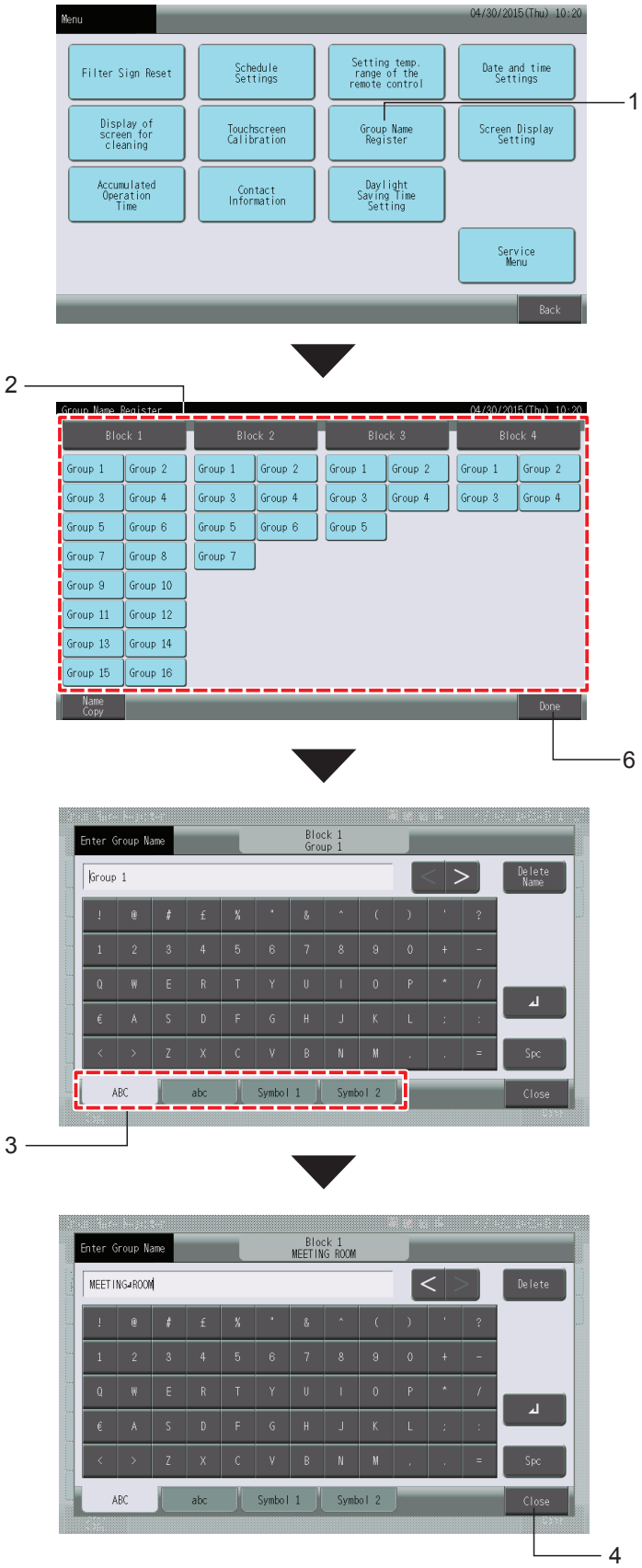
   Touch on the intersecting white lines in sequence as shown on screen.

   - White dots are displayed to signify contact outside of the designated intersecting white lines.

   When all intersecting white lines have been touched in the proper order, the screen will automatically return to “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

8.8 Registering Groups/Blocks Name

8.8.1 Registering Name of Group (Block)



1. Select “Group Name Register” from the “Menu” screen.

2. Select the target (Block or Group) to register a name.

3. Select the letter type from “Upper Case”, “Lower Case , “Symbol 1”, or “Symbol 2”.
   - If “Delete Name” is pressed, the registered name for the selected Group (Block) will be deleted. If “Close” is touched without entering, the screen will revert to “Group Name Register” and display the Group (Block) name as Group 1 (Block 1).

   NOTE:
   The “Delete Name” button will change to “Delete” by touching on any keys (except the letter tabs).

4. Enter the Group (Block) name and touch “Close”.
   The screen will return to “Group Name Register” and the entered name is stored.
5. Perform steps (3) and (4) to enter the Group (Block) name.
6. Touch “Done” on the screen (Figure 2 above) to return to the “Monitor 1 (All Groups)” or “Monitor 2 (Block)”.

   NOTE:
   The keyboard is changed by touching on a tab.

NOTES:
- The name of Group (Block), input is permissible with a maximum up to 20 characters.
  With a display of 10 characters per line, the 11th character will have to start on the second line.
- If the “↵” symbol is pressed, the name appears in two lines (10 letters/line) on the touchscreen display.

8.8.2 Copying Name of Group (Block)

1. Select “Group Name Register” from the “Menu” screen.
2. Touch “Name Copy”.

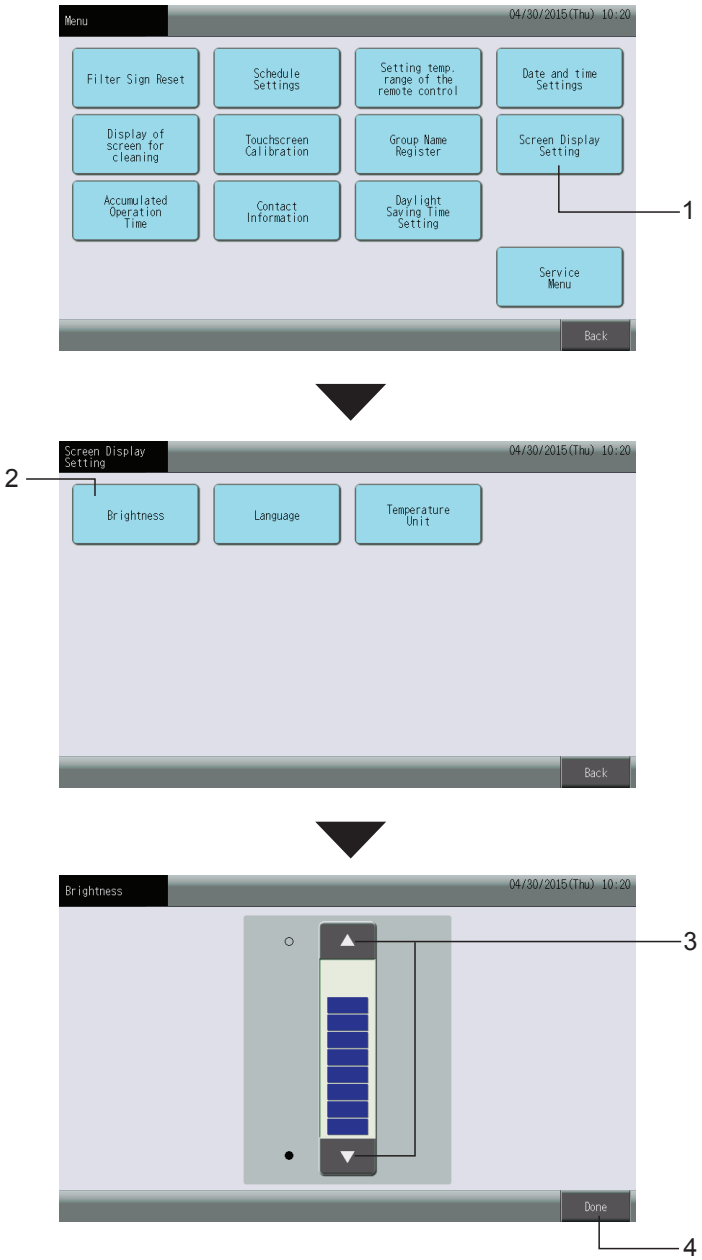
3. Select the source Group (Block) to copy.
   - Selected Group (Block) button is trimmed in an orange outline.
   - Press the selected Group (Block) again to cancel the selection. The orange outline disappears.

4. Select the destination Group (Block) to paste.
   - A “✔” will appear on the button.
   - Multiple selections of a Group (Block) can be pasted.
   - To cancel a selection, press the selected Group (Block) again. The “✔” will disappear.
5. Touch “Paste”.
   The name of the Group (Block) is copied.
   - To copy the name of another Group, refer to step (3) above.
   - To finish, refer to step (6) below.

6. Touch “Done” and the screen will return to “Group Name Register”.
   - If you touch “Done” without first touching on “Paste”, the operation to copy those selected Groups or (Blocks) is canceled.

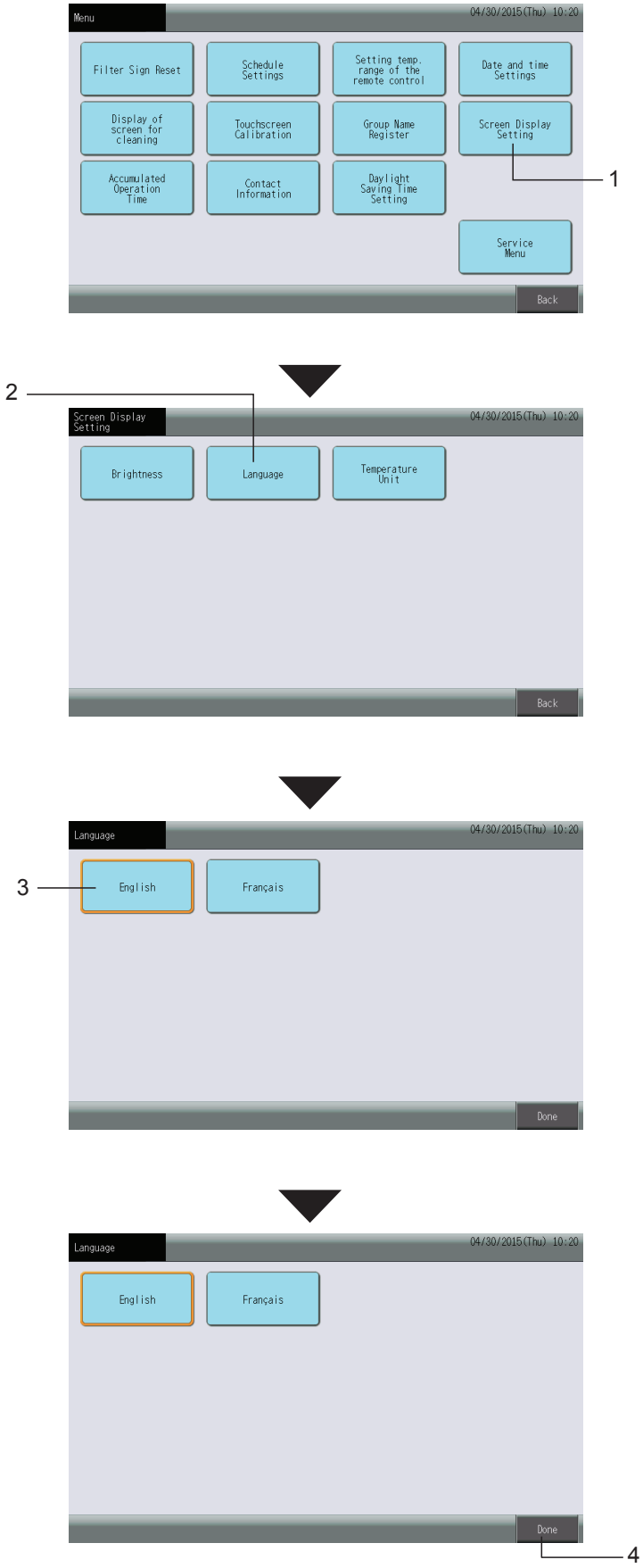
8.9 Screen Display Setting

8.9.1 Adjusting Backlight Brightness of Touchscreen Display



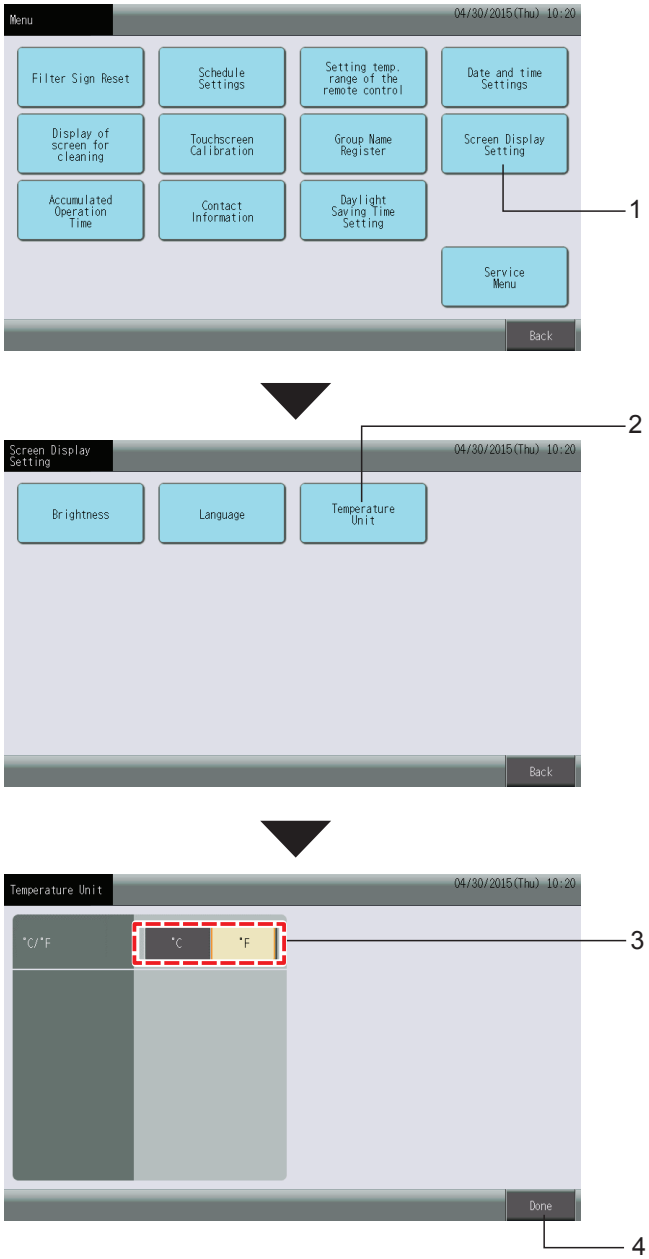
1. Select “Screen Display Setting” from the “Menu” screen.
2. Select “Brightness” from the “Screen Display Setting” screen.
3. Touch “△” or “▽” to adjust the brightness of the backlight.
4. Touch “Done” to return to the “Screen Display Setting” screen.

8.9.2 Language Setting



1. Select “Screen Display Setting” from the “Menu” screen.
2. Select “Language” from the “Screen Display Setting” screen.
3. The Language Confirmation screen displays different language selections. Press to select a language.
4. Touch “Done” to return to the “Screen Display Setting” screen.

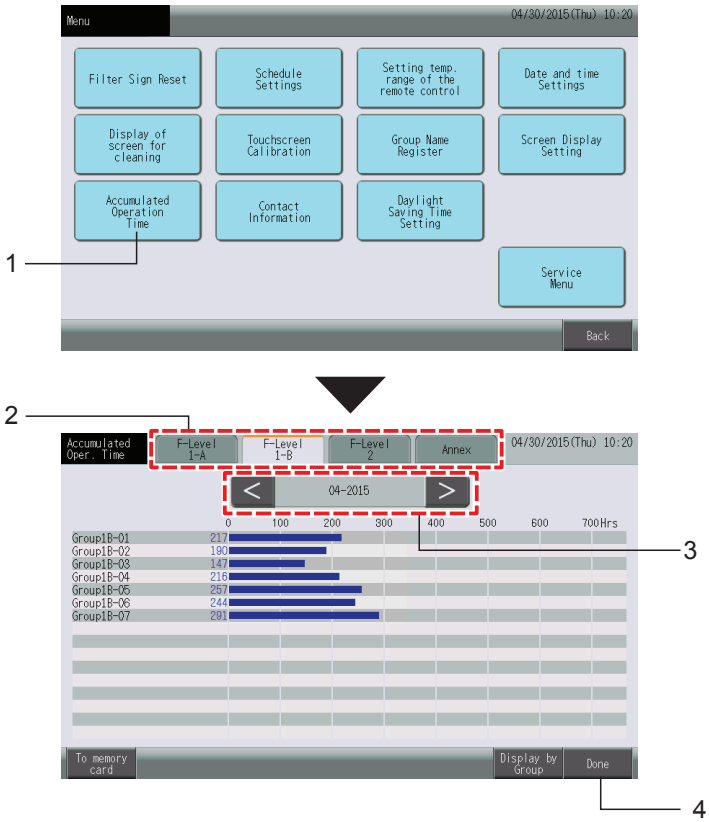
8.9.3 Temperature Unit Setting



1. Select “Screen Display Setting” from the “Menu” screen.
2. Select “Temperature Unit” from the “Screen Display Setting” screen.
3. Press to select “Degrees C” or “Degrees F” unit for temperature display. The selected button color will change.
4. Touch “Done” to return to the “Screen Display Setting” screen.

8.10 Accumulated Operation Time of Unit

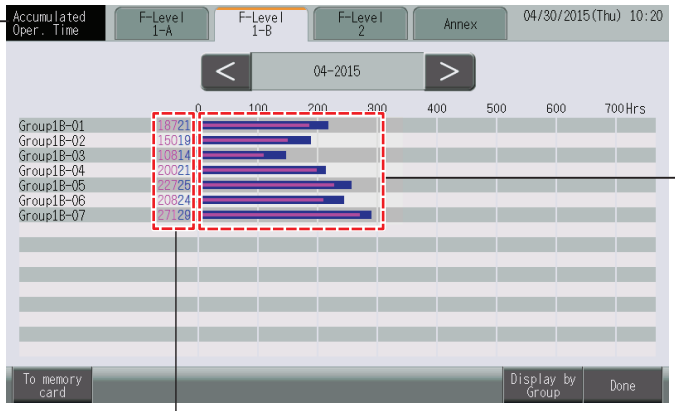
8.10.1 Display by Month



1. Select “Accumulated Operation Time” from the “Menu” screen.
2. Select the target block.
3. Touch “<” or “>” and select the target month.
4. Touch “Done” to return to the “Monitor 1 (All Groups)” or “Monitor 2 (Block)” screen.
5. Bottom Screen: The button at upper left; (Accumulated Oper. Time); displays total operation time for these Groups within the selected Block are shown for the selected month.

NOTE:

The thermo-ON time can be displayed on screen by the optional function selection setting .
Contact your installation contractor for detailed information.

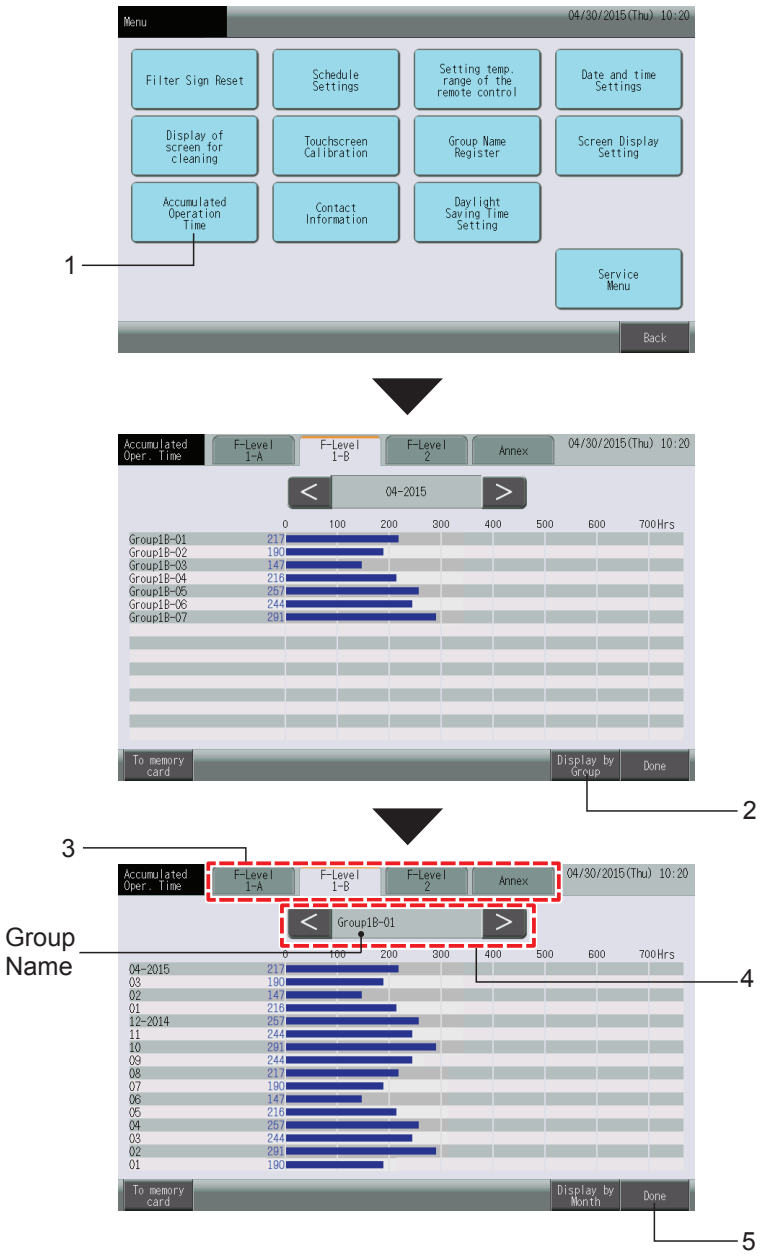


Pink: Thermo-ON Time
Blue: Accumulated Operation Time

5
Accumulated Oper. Time
(Total time on unit or system
as depicted in the blue bar graph).

Left: Thermo-ON Time
Right: Accumulated Operation Time

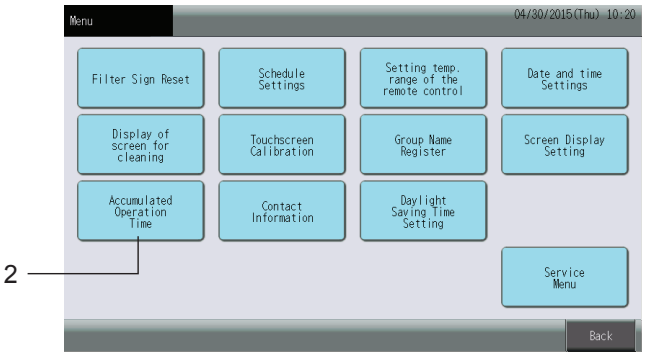
8.10.2 Display by Group



1. Select “Accumulated Operation Time” from the “Menu” screen.
2. Touch “Display by Group”.
3. Select the target Block tab (at top).
4. Touch “<” or “>” and select the target Group.
   The operation time for the Group in the selected Block appears.
5. Touch “Done” to return to the “Monitor 1 (All Groups)” or “Monitor 2 (Block)” screen.
   - If “Display by Month” is touched, the screen will change to “Display by Group”.

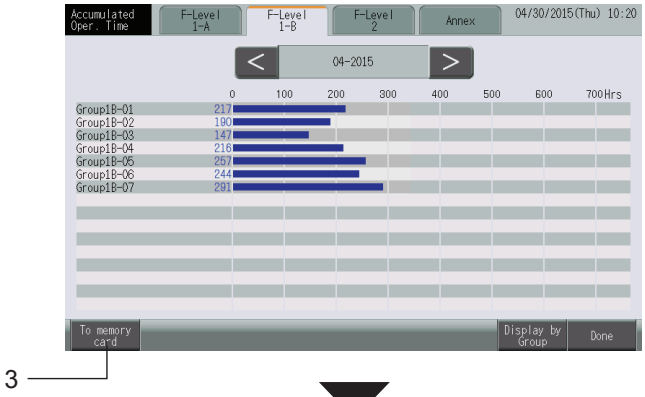
NOTE:
Depicted accumulated operation time for this large central controller is for reference only.
The view above is only a simulation of an actual condition and is only meant as an instructional example.

8.10.3 Save Operation Time of Air Conditioner in Memory Card

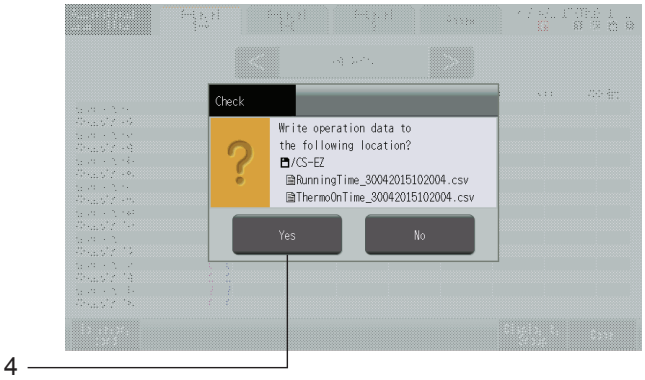


1. Insert the memory card into the controller. Refer to Section 10, "Notes for Using Memory Card".

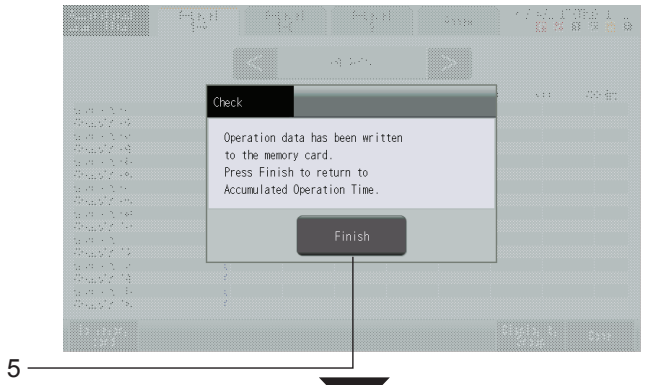
2. Press the “Accumulated Operation Time” button from the “Menu” screen.



3. Touch “To memory card”.



4. Confirm the file name and touch “Yes” to start saving operation time data to the memory card.



5. Touch “Finish” to return to the Accumulated Operation Time display screen.

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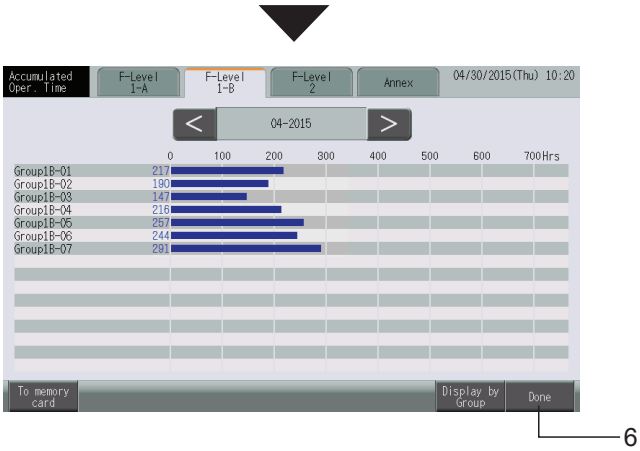
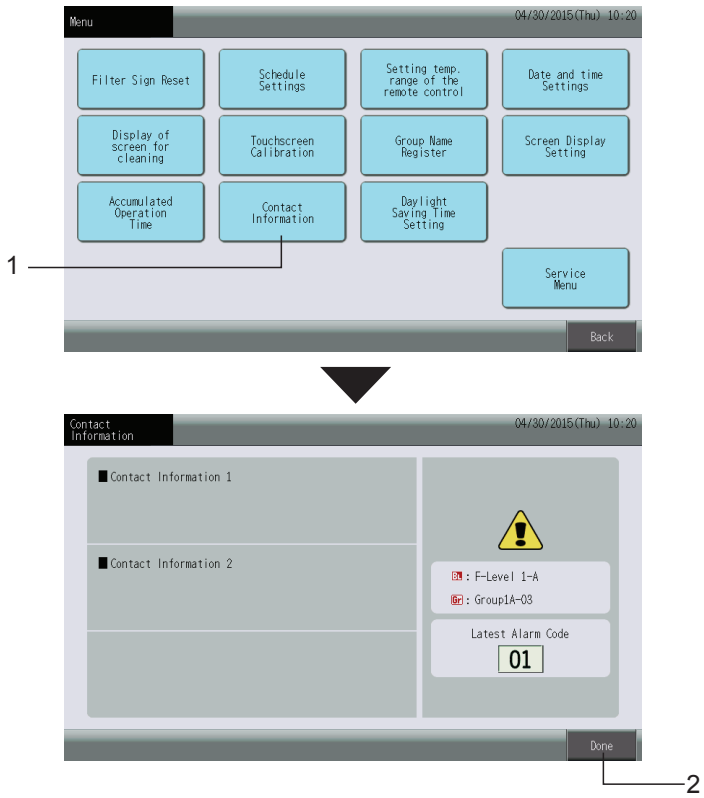


6. Touch “Done” to return to the “Monitor 1 (All Groups)” or “Monitor 2 (Block)” screen.
7. Remove the memory card from the controller. Refer to Section 10, “Notes for Using Memory Card”.

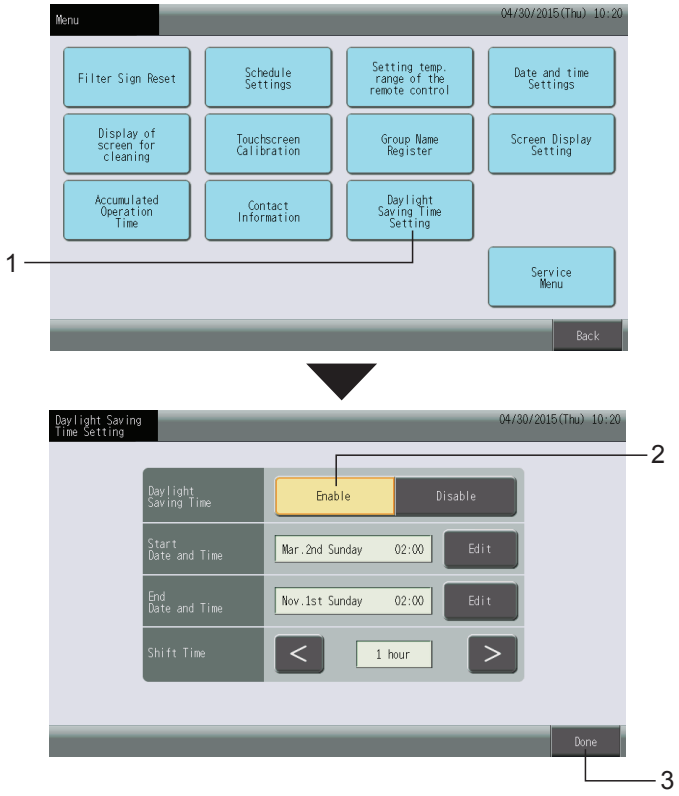
8.11 Contact Information



1. Select “Contact Information” from the “Menu” screen.
   The following information will be displayed.
   - Contact address
   - Block/Group name of the latest alarm
   - Latest alarm code
2. Touch “Done” to return to the “Monitor 1 (All Groups)” or “Monitor 2 (Block)” screen.

NOTES:
- This function does not provide information if there is no contact address registered.
- If there was no alarm incident, the name of the target Block/Group and code will not be displayed.

8.12 Daylight Saving Time Setting



1. Select “Daylight Saving Time Setting” from the “Menu” screen.

2. Select the button concerning each function.
   The color of the selected function will change.

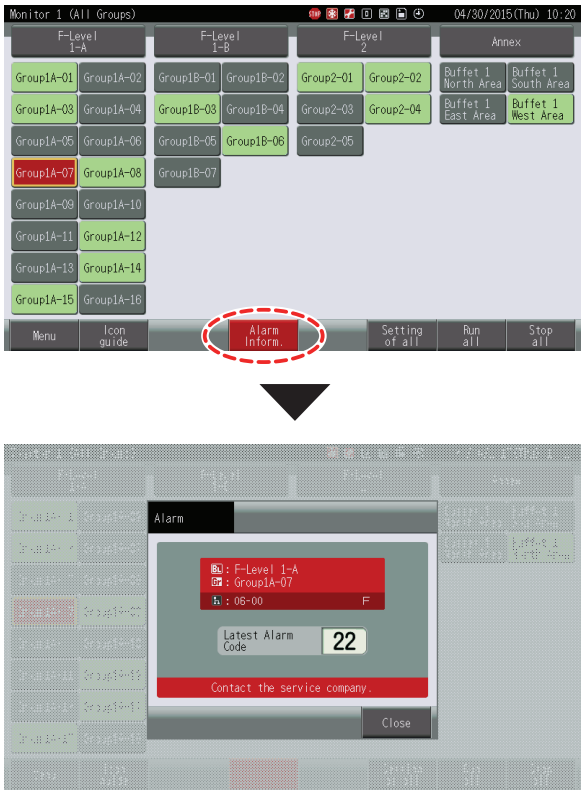
3. Touch “Done” to save the content and return to the “Menu” screen.

9. Other Indications on LCD

9.1 In Normal Condition

	Schedule	• The symbol “” displays Group or Groups with a schedule setting
	Memory Card	• The symbol “”displays when the memory card is inserted into the large central controller. If the symbol does not appear after inserting the card, insert it again. • This symbol “” turns orange when it is activated. Do NOT remove the memory card while “” an orange.
	Remote Control Operation Prohibited	• The symbol “” indicates for the group with remote control operation prohibited. The remote control operation does not work when remote control is prohibited (except for an emergency stop operation).
	Emergency Stop	• The STOP symbol “” displays when emergency stop signal is set by an optional external input function. During the emergency stop phase, the indoor unit is stopped and the other remote control is unable to operate the unit. Contact your distributor for detailed information.
	Demand	• The symbol “” displays when a demand signal is set by an optional external input function. The symbol “” will flash during the demand control phase. Contact your distributor for detailed information.
	Demand Schedule	• The symbol “” displays when the optional outdoor unit capacity control schedule is enabled and “” flashes during the control. (In addition to the schedule, when the demand input by the external input function is set, this symbol “” flashes during the demand control also. Contact your distributor for detailed information.
	Filter Sign	• The symbol “” displays when the air filter of the indoor unit is clogged. After cleaning the air filter, press “Filter Sign Reset” on the Menu screen and turn OFF this indicator.
	Setback	• Indicates the air conditioner is in setback mode.
	Heat Storage Operation	•The symbol “” indicates when the heat storage is operating. During this time, the air conditioner cannot be operated.

9.2 In Abnormal Condition

Abnormalities  	● The operation indicator display will flash Red when an abnormal condition arises with the air conditioner unit. ● The red button illuminates on screen when there is a Group with an abnormal condition. ● “Alarm Inform.” displays on the bottom of the screen. Touching “Alarm Inform.” displays the following information. a. Name of the Block/Group with the abnormal condition b. System number, address and model code* of the indoor unit with the abnormal condition. c. Alarm code (* There may not be a model code shown depending on the unit model.) ● If multiple indoor units are found in an abnormal state, the details of this irregularity are displayed in a sequence as noted above. If an abnormal condition is detected in a Group, that Group can be selected by touching “<” or “>” on the “Alarm” information screen. After checking over the alarm details, contact your distributor for more information.
Power Failure	● The display is OFF. ● Once a unit is stopped by a power outage, it will not start again until proper starting procedures are performed again. If there is an abrupt power outage lasting only two seconds, the unit will automatically restart.
Electronic Noise	● There could be an instance where the display is OFF and the unit has stopped. This is caused when the micro computer activates to protect the unit from Electromagnetic Interference (EMI). When the unit has shut down, repeat starting procedures again.
Continues to Display “Start-up”	● There is a possibility that a communication error occurred. Contact your distributor for detailed information.

10. Notes for Using Memory Card

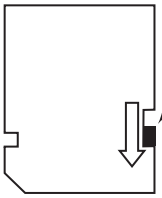
Prepare the memory card for the controller to automatically store the setting and operation data.

■ Compatible memory card:
The Secure Digital (SD) and Secure Digital High Capacity (SDHC) memory cards based on the SD Standard are acceptable However, some cards may not work properly.

● These memory cards are considered acceptable by Johnson Controls-Hitachi Air Conditioning:
- SanDisk Ultra® SD™/SDHC™ Card
- SanDisk® SD™/SDHC™ Card (standard type)

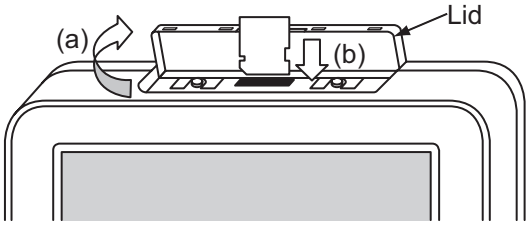
■ Insert the memory card.

1. Unlock the write protection lock of the memory card.



Write Protection Lock Switch
When this switch is locked, data cannot be written onto the memory card.
Slide the switch in the direction of the arrow.

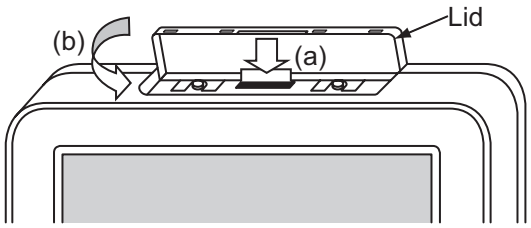
2.Open cover/lid (a). Then insert memory card(b).



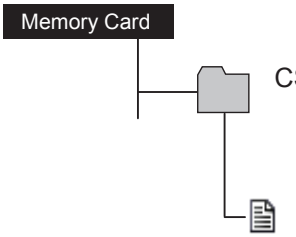
■ Remove the memory card.

1. Push the memory card (a) down until you hear the “click” . The card is released and can be removed.

2. Close the lid (b).



■ Folder and File



CS-EZ…… This folder is required for using the controller.
If this folder does not exist or is not found, a new folder will be created automatically.

Operation Time Data File……File name when operation write is done.
RunningTime_20120401080040.csv (Accumulated Operation Time)
ThermoOnTime_20120401080040.csv (Thermo-ON Time)

■ Notes for using the memory card

- The recommendation is to use the SD formatter when using the memory card for the first time. (See items 1 and 2 below.) Note that all data in the memory card will be erased by formatting the card.
  NOTICE:
  *1: Download the SD formatter software from the SD association site. (http://www.sdcard.org/home)
  *2: When formatting the memory card improperly, it may fail to read/write data or take a long time for reading.
- When formatting the memory card, it may not completely erase the data on the memory card.
  If disposing of, or transferring information, it is recommended that the data-erasing program on your PC be used to completely erase the data.
- Do NOT remove the memory card or turn OFF the power while the memory card is reading or writing information. It will most likely damage the memory card surfaces, cause loss of data, or become unable to function under the following conditions:,
  NOTICE:
  1. While the memory card icon is flickering.
  2. While the message “Recognizing Memory Card” is displayed.
  3. Immediately following “Read”, “Write”, or “Yes” messages after reading or writing data;
     (Immediately after the “Read” “Write” operation and the “Yes” buttons under the item 8.10.3.)
- When carrying or storing the memory card, do NOT leave the it where static or electronic noise can be directly radiated to memory card. If affected, it may ruin the data on the memory card.
- It is recommended that you back up important data to other storage media regularly. Hitachi or York cannot be held responsible for loss of data due to a damaged memory card.

⚠ CAUTION	**DO NOT** insert into the slot any memory card other than the specified memory card. Doing so may lead to failure of the unit, electric shock, or fire.

Messages Shown on Screen

Message	Condition
Cannot access memory card.	Remove the memory card and insert it again.
This memory card is write-protected. Cannot add data.	Unlock the memory card.
Not enough space left on memory card. Cannot add data.	Free up some space on the memory card and try again.
Failed to write data to memory card.	• The memory card may not be supported by this controller. Check the compatibility shown in “Section 10, Notes for Using Memory Card”. • Memory card may be damaged. Please try with different card. • Memory card is not formatted correctly. Please format the card.
Failed to read data from memory card.	
Unknown Error	• An SDXC type memory card may have been inserted. Check the compatibility shown in “Section 10, Notes for Using Memory Card”. • There should be a "CS-EZ" folder but there may be a file name with "CS-EZ" on the memory card. Move the file to another location on the memory card.

11. Troubleshooting

Check the following table before contacting a distributor for maintenance.

Condition	Cause
Details on the touchscreen are not displayed.	• Check that wiring for the power supply is connected to the plug. • Check that the power supply is turned ON.
The touchscreen display is in “sleep”mode.	• The touchscreen will automatically lapse into sleep mode when there has been no interaction with it over a length of time. Touch anywhere on the screen to awaken it.
A part of the touchscreen is not turned ON or is constantly turned ON.	• There may be dead pixels on the LCD. This is not faulty.
The operation is not carried out smoothly when the switch is tapped.	• When the large central controller is used for a long time, the touchscreen may not match the position of display indication. Refer to the item 8.7 for the Touchscreen Calibration.
The symbol “- -” is indicated for the temperature setpoint. The temperature cannot be set.	• No temperature setpoint is set. Press and hold “△” or “▽” for 3 seconds on the setting touchscreen. Refer to Section 7.9.
The setting of louver direction returns to a previous setting.	• When the operation mode is “AUTO”, the direction of the louver is automatically corrected depending on the indoor unit model.
The timer operation in the schedule setting does not run.	• Check to see if the holiday setting is turned ON. If so, cancel the holiday setting according to Section 8.3.2. • Check to see if the setting of schedule operation is turned OFF. If so, the schedule operation should be turned ON according to Section 8.3.3.
The symbol “- -” displays in place of date and time.	• The symbol “- -” is displayed when electrical power is shut down over a lengthy period of time. Set the date and time again according to the item 8.5.
The setting is not changed.	• When the large central controller is operated immediately after turning ON the air conditioners, the large central controller may not be possible to control because the air conditioners were started first. Wait for a few minutes and try again.
Operation on large central controller is not effective.	• Large central controller or other unit/controller may be falling to control successfully. Wait for a while to retry.

12. Maintenance

- Clean and wipe the display with a clean and dry, soft cloth.
- For oily fingerprint marks on the touchscreen, use diluted neutral detergent mixed with water to clean. Before cleaning, wring out the cloth. After that, again wipe the display with a clean and dry soft cloth.
- Do not use a benzine-type thinners or any active surface agent in order to protect the display from damage.

13. Reference

Model	CCL01
Outer Dimension <WxHxD+(Built-in Part)>	9-27/32 × 6-11/16 × 31/32 + (2-5/32) inch (250 × 170 × 25 + (55) mm)
Net Weight	3.3 LBS (1.5 kg) (Approx.)
Installation Location	Indoor
Installation Method	Wall Built-in with Steel Box (Option)
Connected Indoor Unit (Qty.)	160 (Max.)
Clock Accuracy	± 70 Seconds/Month (at Normal Temperature)
Ambient Temperature	41 ~ 95°F (5 ~ 35°C)
Ambient Humidly	35 ~ 90% (No Dew Condensation)
Display	8.5” TFT Color Liquid Crystal Display (800 x 480 dots)
Rated Power Supply	24VAC, 60Hz
Electrical Power Consumption	30W (Max.)

Block/Group Registration Table for Large Central Controller

Block	Group	Remarks (Name of Block/Group)	Block	Group	Remarks (Name of Block/Group)

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