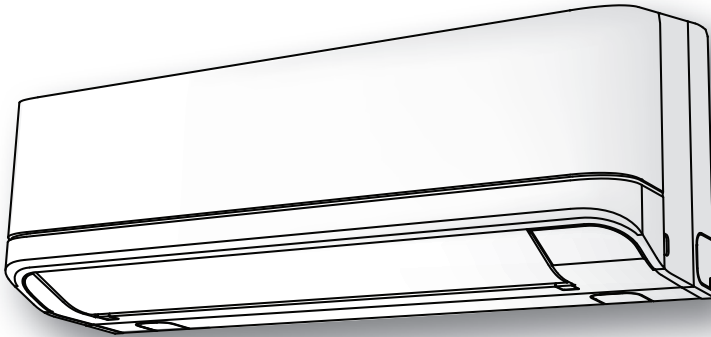# TOSHIBA

INVERTER

OWNER'S MANUAL

AIR CONDITIONER (SPLIT TYPE)

For general public use

Indoor unit
RAS-B10, 13, 16J2KVRG-E

Outdoor unit
RAS-10, 13, 16J2AVRG-E

CONTENTS

PRECAUTIONS FOR SAFETY

	Read the precautions in this manual carefully before operating the unit.		This appliance is filled with R32.

- Keep this manual where the operator can easily find it.
- Read the precautions in this manual carefully before operating the unit.
- This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.
- The precautions described herein are classified as DANGER, WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.

⚠ DANGER

- Do not install, repair, open or remove the cover. It may expose you to dangerous voltages. Ask the dealer or the specialist to do this.
- Turning off the power supply will not prevent potential electric shock.
- The appliance shall be installed in accordance with national wiring regulation.
- Means for disconnection from the supply having a contact separation of at least 3 mm in all poles must be incorporated in the fixed wiring.
- The appliance must be stored in a room without continuously operating ignition sources (for example, open flames, an operating gas appliance or an operating electric heater).
- In order to avoid fire, explosion or injury, do not operate the unit when harmful gases (e.g. flammable or corrosive) are detected near the unit.

⚠ WARNING

- Do not expose your body directly to cool or warm air for a long time.
- Do not insert your finger or any article into the air inlet/outlet.
- When an abnormality (burning smell, etc.) occurs, stop the air conditioner and disconnect the power supply or turn off the breaker.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- This appliance is not intended for use by person (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- The air conditioner must be installed, maintained, repaired and removed by a qualified installer or qualified service person. When any of these jobs is to be done, ask a qualified installer or qualified service person to do them for you.

PRECAUTIONS FOR SAFETY (continued)

- Children should be supervised to ensure that they do not play with the appliance.
- Do not use any refrigerant different from the one specified (R32) for complement or replacement. Otherwise, abnormally high pressure may be generated in the refrigeration cycle, which may result in a failure or explosion of the product or an injury to your body.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Be aware that refrigerants may not contain an odour.
- Do not pierce or burn as the appliance is pressurized. Do not expose the appliance to heat, flames, sparks, or other sources or ignition. Else, it may explode and cause injury or death.

⚠ CAUTION

- Do not wash the unit with water. It may cause an electric shock.
- Do not use this air conditioner for other purposes such as preserving food, breeding animal, etc.
- Do not step or put anything on the indoor/outdoor unit. It may cause an injury or damage the unit.
- Do not touch aluminium fin because it may cause an injury.
- Before cleaning the unit, turn off the main switch or the circuit breaker.
- When the unit won't be used for a long time, turn off the main switch or the circuit breaker.
- It is recommended that maintenance be performed by a specialist when the unit has been operated for a long time.
- The manufacturer shall not assume any liability for the damage caused by not observing the description of this manual.
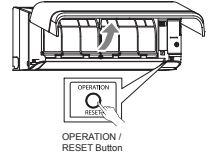
DISPLAY

Indoor unit display
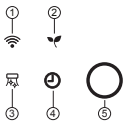
① Wi-Fi access (White) ※
② ECO (White)
③ PURE (White)
④ Timer (White)
⑤ Operation
  - Cool (Blue)
  - Heat (Orange)

● Display brightness can be adjusted, follow procedure on page 30.
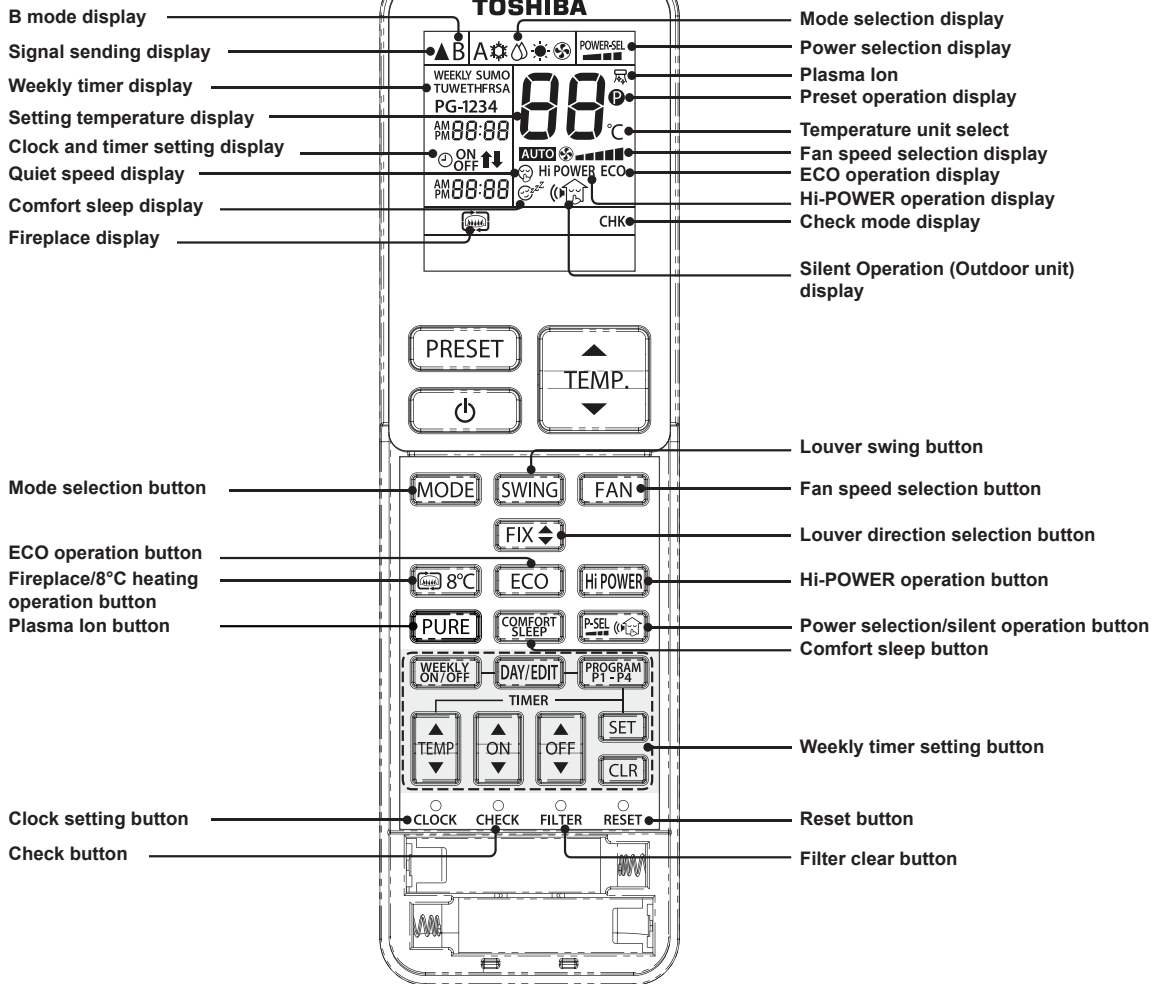※ Require Wireless LAN connecting adapter which available as accessory.

Temporary operation

In case of the misplaced or discharged remote control
● Pressing the RESET button, the unit can start or stop without using the remote control.
● Operation mode is set on AUTOMATIC operation, preset temperature is 24°C and fan operation is automatic speed.

OPERATION / RESET Button

Remote controller on full display

All indicators are shown for explanation.

TOSHIBA

Left side labels:
- B mode display
- Signal sending display
- Weekly timer display
- Setting temperature display
- Clock and timer setting display
- Quiet speed display
- Comfort sleep display
- Fireplace display

Right side labels:
- Mode selection display
- Power selection display
- Plasma Ion
- Preset operation display
- Temperature unit select
- Fan speed selection display
- ECO operation display
- Hi-POWER operation display
- Check mode display
- Silent Operation (Outdoor unit) display

Display text:
WEEKLY SUMO
TUWETHFRSA
PG-1234
AM PM 88:88
ON OFF
AM PM 88:88
AUTO Hi POWER ECO
CHK

Buttons:
PRESET
TEMP.
MODE SWING FAN
FIX
8°C ECO Hi POWER
PURE COMFORT SLEEP P-SEL
WEEKLY ON/OFF DAY/EDIT PROGRAM P1 - P4
TIMER
TEMP ON OFF SET
CLR
CLOCK CHECK FILTER RESET

Left side button labels:
- Mode selection button
- ECO operation button
- Fireplace/8°C heating operation button
- Plasma Ion button
- Clock setting button
- Check button

Right side button labels:
- Louver swing button
- Fan speed selection button
- Louver direction selection button
- Hi-POWER operation button
- Power selection/silent operation button
- Comfort sleep button
- Weekly timer setting button
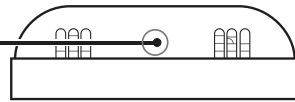- Reset button
- Filter clear button

Notes

● Do not drop and avoid contact with water.
● Do not place where temperature rises or falls (For example exposed to direct sunlight, near a stove, on the TV, hot floor or near a window).
● When other electrical appliances are operated by a remote control, etc., isolate the appliances or consult the distributor.
● If a fluorescent lamp is used near the indoor unit, the remote signal may not reach the infrared signal receiver and, thus, affect the air conditioner ON/OFF operation.
● Do not insert a needle or bar into the opening.

REMOTE CONTROLLER PREPARATION

Remote control

Transmitting part

TOSHIBA

▲B A ☼ ◊ ☀ ⊗   POWER-SEL
WEEKLY SUMO
TUWETHFRSA
PG-1234
AM/PM 88:88   °C
⊘ ON/OFF ⬆⬇   AUTO ⊗ ▬▬▬
          ⊗ Hi POWER ECO
AM/PM 88:88   ⊙ᶻᶻ (⊗)
          CHK

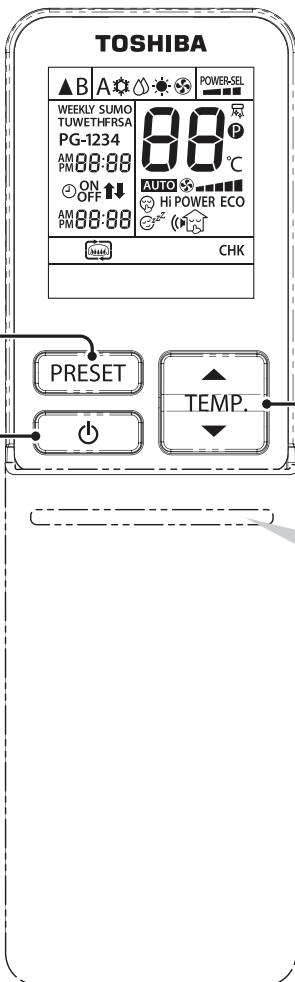**Memory and recall user setting operation**

PRESET

Adjust temperature

TEMP. ▲ ▼

Start and Stop operation ⏻

Kind of receiving tone

When the indoor unit receives a signal from the remote control, the receiving tone sounds.

Pi ....Operation, change

Pi ....Stop

PiPi ....Notice

When the notice PiPi **sounds**, it means the operating setting returns to the datum point.

(Example) When temperature setting.

↔ 22°C ↔ 23°C ↔ 24°C ↔ 25°C ↔ 26°C
   Pi   Pi   Pi   Pi
               PiPi
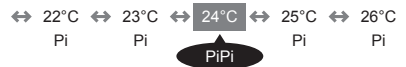
Datum points

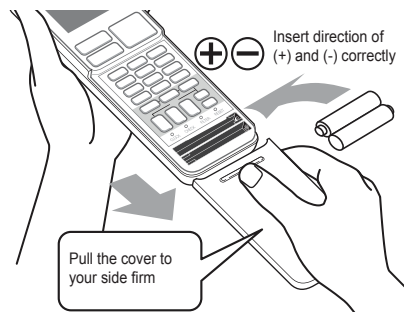| Temperature | 24°C | Vertical wind direction | Lower limit |
| Air volume | Automatic | | |

How to open the remote control cover
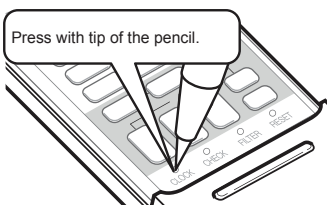Pull it down while slightly depressing the upper part of the cover.

Cover

Remote control

Insert the battery

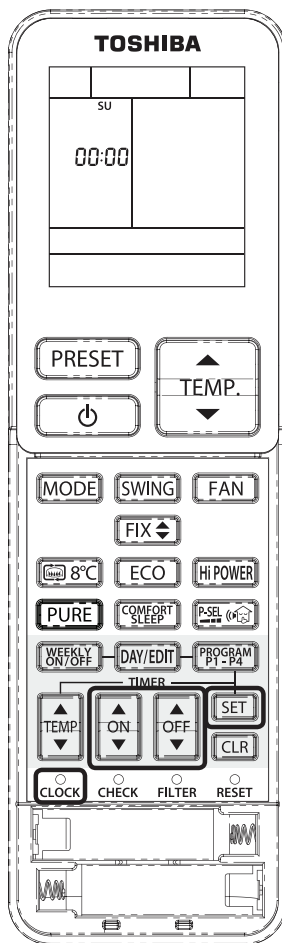**①** **Remove the cover and insert AAA alkaline dry batteries**

Insert direction of (+) and (-) correctly

Pull the cover to your side firm

② **Press the CLOCK button**
- Adjust the clock by using the "setting the clock" button

Press with tip of the pencil.

③ **Attach the cover**

Setting the clock

TOSHIBA

SU

00:00

PRESET
TEMP. ▲ ▼
⏻

MODE SWING FAN
FIX ⬍
8℃ ECO Hi POWER
PURE COMFORT SLEEP P-SEL ((⌂))
WEEKLY ON/OFF DAY/EDIT PROGRAM P1 - P4
TIMER
TEMP. ▼ ON ▼ OFF ▼ SET
CLR
CLOCK CHECK FILTER RESET

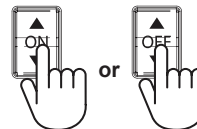**①** **Press the CLOCK button**

Press with tip of the pencil.

② **Adjust the "Day"**

DAY/EDIT
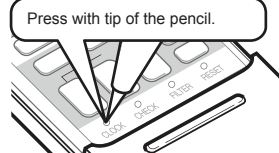
- The day "SU" will appear and change to the next day after pressing the button once.

③ **Adjust the "Time"**

ON ▲   OFF ▲   or

- The time changes by 1 minute when pressed once. The time changes by ten-minute intervals when pressed continuously.

④ **Confirm "Time"**

SET

Notes -

- The life of dry batteries is approx. 1 year in normal use.
- Replace batteries if no sound is received from the indoor unit or there is a failure to select the desired function.
- Replace both batteries at the same time with AAA alkaline batteries.
- If not planning to use for one or more months, remove the batteries to avoid failure.

Indoor unit

Turn on the main power supply
- A waiting period of 3 minutes is required after the power is turned on. During this period, the operation lamp will illuminate. However, the compressor will not start.

Check transmitting and receiving

Point the remote control at the remote control receiving module on the indoor unit.
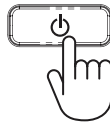
- The correct signal is confirmed by the receiving tone and the operation lamp will illuminate.
- When ⏻ button is pressed, the receiving tone will sound and the operation will stop.
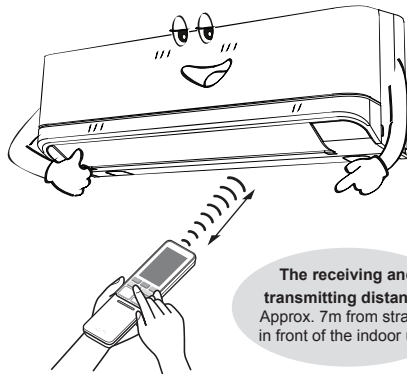
The receiving and transmitting distance.
Approx. 7m from straight in front of the indoor unit.

- Check that the signal is transmitted and received at the installed position if the remote control is fixed to the remote control holder.
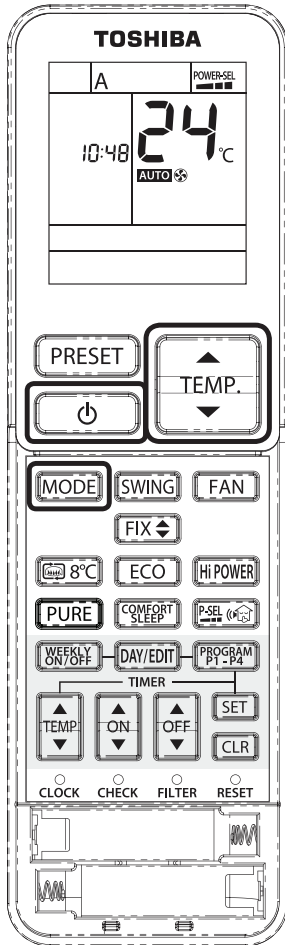
Notes
- Use the remote control where the indoor unit can receive the signal. It does not work if the signal is obstructed by curtains or sliding doors.
- The distance for transmitting and receiving is shorter if a bright light, such as sunlight, affects of the main unit.
- The distance for transmission and receiving is shorter if the remote control is operated at an oblique angle to the main unit.
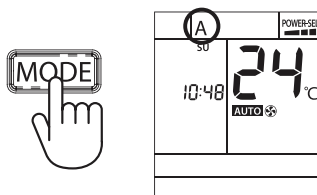
AUTOMATIC OPERATION

The air conditioner selects the cooling or heating operation.

When **Pi** sounds,

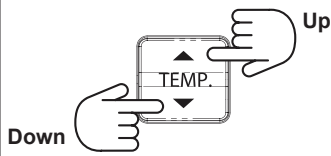it notices that the operation setting returns to the datum point. ← Page 6

TOSHIBA

PRESET

TEMP.

MODE | SWING | FAN

FIX ⬍

8℃ | ECO | Hi POWER

PURE | COMFORT SLEEP | P-SEL

WEEKLY ON/OFF | DAY/EDIT | PROGRAM P1 - P4

TIMER

TEMP. | ON | OFF | SET

CLR

CLOCK | CHECK | FILTER | RESET

When starting automatic operation, select **A**

MODE

● The air volume can be set as you prefer.

When changing the temperature, Press TEMP.

Up

TEMP.

Down

● Changes by 1℃ when pressed once. It changes continuously if pressed continuously.
● The temperature range available is 17℃ - 30℃.
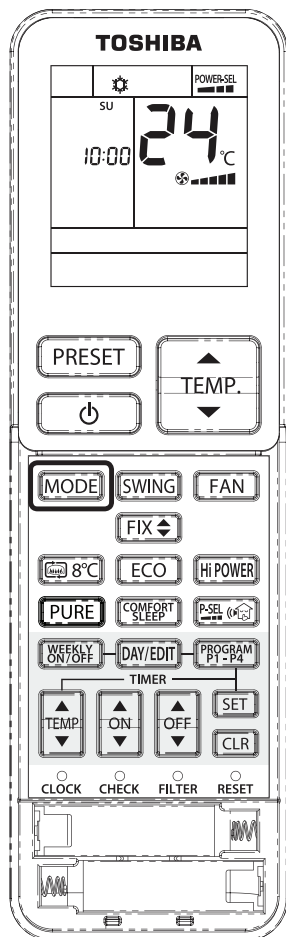
PiPi sounds when reaching 24℃.

COOLING / HEATING / FAN ONLY / DRY OPERATION

Cooling & Heating — Temperature and air volume for the cooling and heating operation can be set as you prefer.

When **Pi** sounds,

it notices the operation setting returns to the datum point.

Cooling operation

Dry operation

Heating operation

Fan only operation

Defrosting operation while heating

This is not unusual

Frost may cover the heat exchanger of the outdoor unit during the heating operation. To prevent performance impairment, defrosting operates automatically. At this time, warm air from the indoor unit may stop, or water or steam may appear from the outdoor unit. However, these features are not unusual. Defrosting function may start immediately after the operation stops.
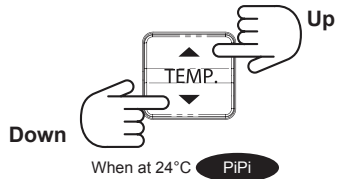
Steam

Water
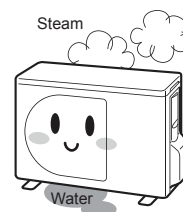
Dry operation — **For dehumidification, a moderate cooling performance is controlled automatically.**

When changing the temperature, Press TEMP.

Up

TEMP.

Down

When at 24°C PiPi

- The temperature changes by 1°C when pressed.
  It changes continuously when pressed continuously.
- The available setting range is 17°C – 30°C.

Notes

- Refrigerant flow may make noise. However, this is not defect.
- When the outside temperature is low, the temperature in the room may become lower than the temperature selected.
- On dry mode the air volume is set to Auto only.

AIR VOLUME

When **Pi** sounds,

it indicates the operation setting returns to the original setting. ← Page 6
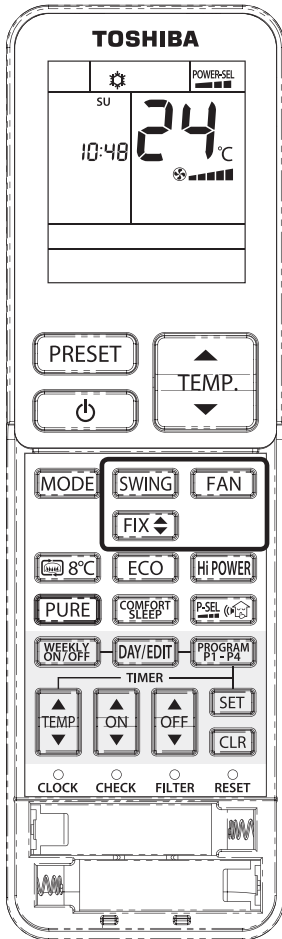
Changing the air volume, press **FAN**

● **Every time...**
When pressed during Auto, Cooling and Fan only.
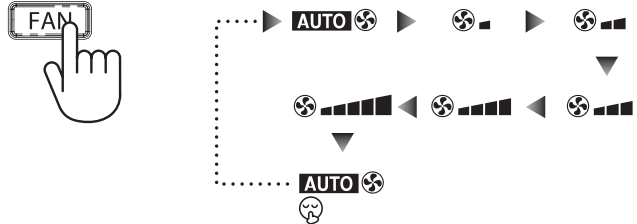
AIR FLOW DIRECTION

1 Press ☞ FIX⬍ : Move the louver in the desired vertical direction.

2 Press ☞ SWING : Swing the air automatically and press again to stop.

3 For horizontal direction, adjust manually.

Notes

● Do not move the louver manually by others.
● The louver may automation positioning by some operation mode.

Hi-POWER OPERATION

To automatically control room temperature and airflow for faster cooling or heating operation (except in DRY and FAN ONLY mode)
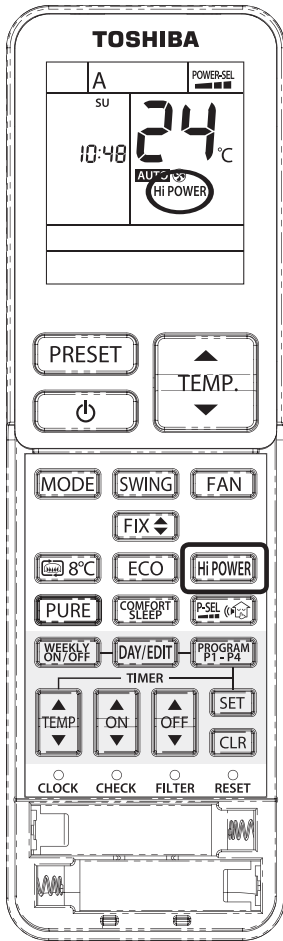
Hi-POWER OPERATION

● **Hi-POWER** appears on the remote control display.

ECO OPERATION

While Automatic, Cooling or Heating operation is activated, this function provides automatic control for the setting of room temperature.
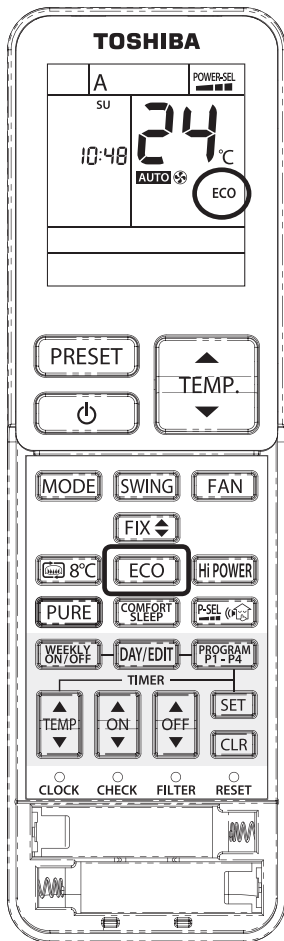
ECO OPERATION

- **ECO** appears on the remote control display.
- The set temperature will be automatically adjusted appropriately. However, the temperature is raised by no more than 2 degree Celsius.

PLASMA ION

Capture efficiency of floating impurities in the air is accelerated by plasma ion contaminates such as bacteria, odor, smoke, dust and virus are caught and deactivated by Plasma Ion.
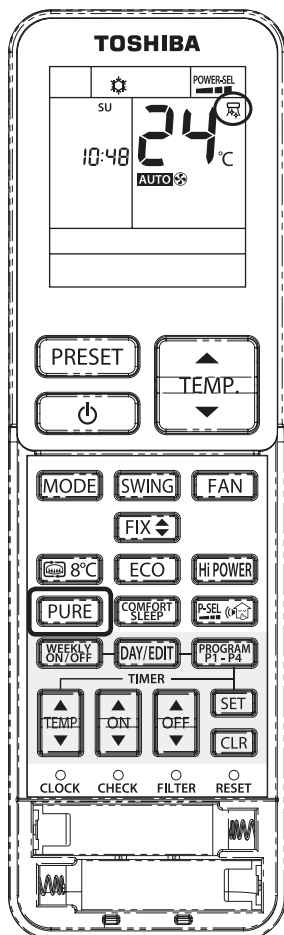
To clean the air,

Plasma Ion

PURE

When stopping operation.

- After stopping, automatic cleaning starts (TIMER lamp turns on).
  ※ When operating time is 10 minutes or less, cleaning function does not operate.

⏻ or PURE
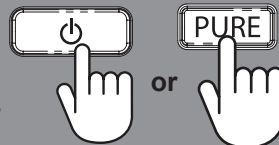
When using together with the air conditioning

Air volume and direction setting of air conditioner have priority.

Operation	Operate Plasma Ion while air conditioning.	Press the PURE button.
	Operate air conditioning during Plasma Ion.	Press MODE button.
Stop	Stop both Plasma Ion and air conditioning.	Press the ⏻ button.
	Stop only Plasma Ion.	Press the PURE button.

Note

- Plasma Ion operation does not remove harmful substances from cigarette smoke (carbon monoxide etc.). Open a window occasionally for ventilation.

COMFORT SLEEP
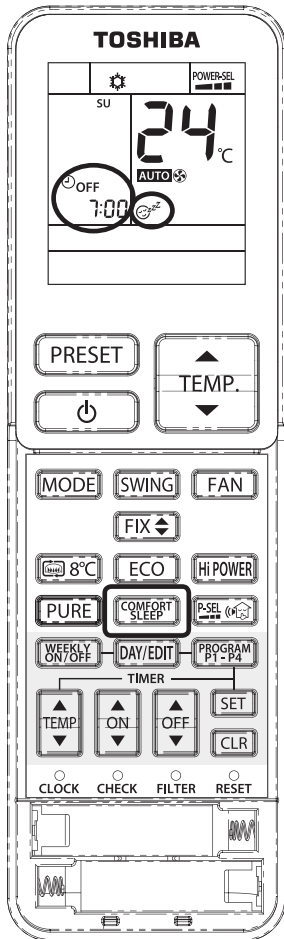
The operation stops automatically at the Pre-set time.
When 1, 3, 5 and 9 hours are selected, the comfort sleep operation begins.
The set temperature will be automatically adjusted appropriately.
However, the temperature is raised or decreased to no more than
2 degrees Celsius.

Timer off during **comfort sleep**

● **Every time when pressed (within 3 seconds)...**

※ Display example is when 10:00 is selected.

COMFORT SLEEP

1h	3h	5h	9h
11:00	13:00	15:00	19:00

Cancel comfort sleep
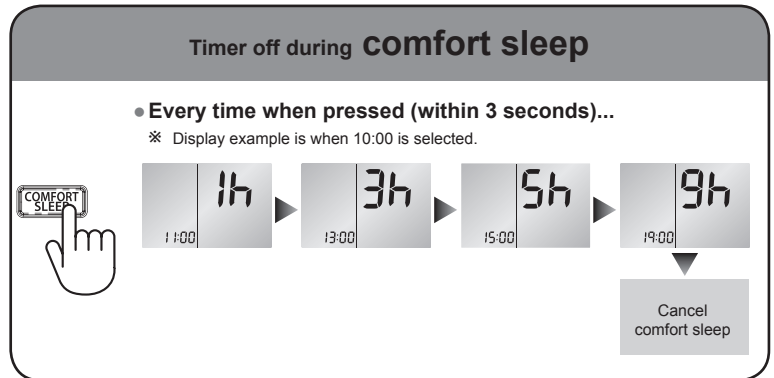
● The time for stopping the operation is displayed on the remote control.
● After the operation stops, drying of the inside is not performed.

To cancel

※ The timer setting is released but operation continues.

CLR **or** COMFORT SLEEP
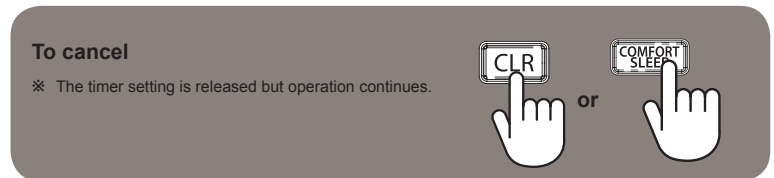
Timer on, Timer off

Start and stop of operation is selected with the time. Operate after setting the current time on the remote control

① **For timer on** [▲ ON]   **For timer off** [▲ OFF]
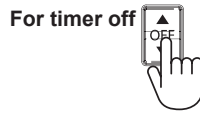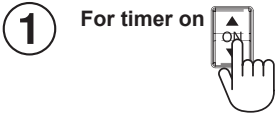
- ● Changes by 10 minutes when pressed once and by 1 hour when pressed continuously.
- ● The selected time is displayed
  Go to ② if the same time as a previous setting can be used.

② **Select** [SET]
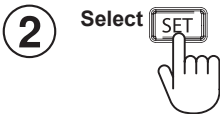
- ● During time off, drying inside is not performed.
- ● Timer off can be selected with the previous operation setting even while stopped.
  The operation starts when selected.

- ● To change the selected time, press [▲ ON ▼] or [▲ OFF ▼] to change the setting.

To cancel

[CLR]

※ The timer setting is released, but the operation will continue.

**Example of setting
(Selection of timer On/Off)**

To start at 6:00 AM and stop at 10:00 AM.
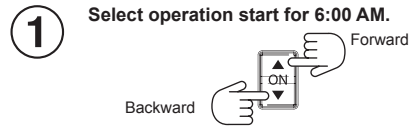
① **Select operation start for 6:00 AM.**

Forward
[▲ ON ▼]
Backward

Selected time and current operating mode blink alternately in the pictographic character display portion.

② **Set the stop time to 10:00 AM.**

Forward
[▲ OFF ▼]
Backward

Selected time and current operating mode blink alternately in the pictographic character display portion.

③ [SET]
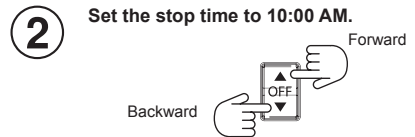
WEEKLY TIMER OPERATION

4 programs for each day in the week can be set in WEEKLY TIMER.

The following items can be set in WEEKLY TIMER operation.

a. Operation time (ON timer for Start and OFF timer for Stop operation)

b. Operation mode (COOL, DRY, FAN, HEAT, FAN ONLY)

c. Temperature setting.

d. Fan speed setting.

e. Special operation (ECO, Hi-POWER, 8°C, SILENT)

Examples of WEEKLY TIMER uses

(1) Living room

MON-FRI
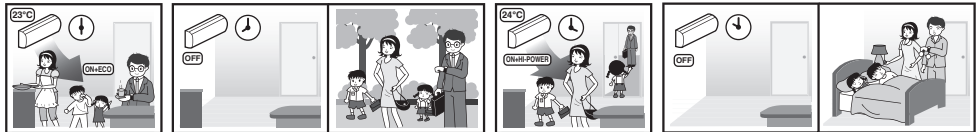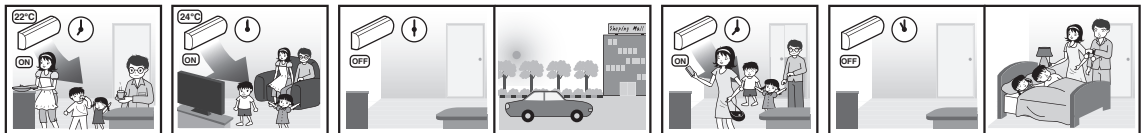
SUN and SAT

(2) Living room with heavy cool (Non-stop air conditioning)

MON-FRI
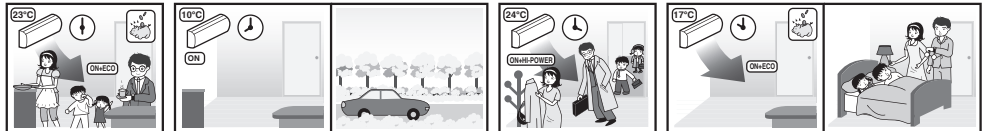
SUN and SAT

(3) Bedroom
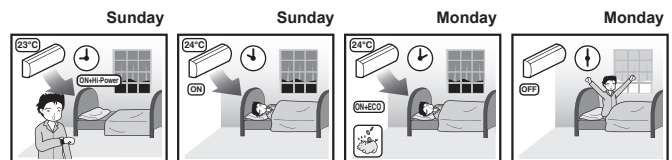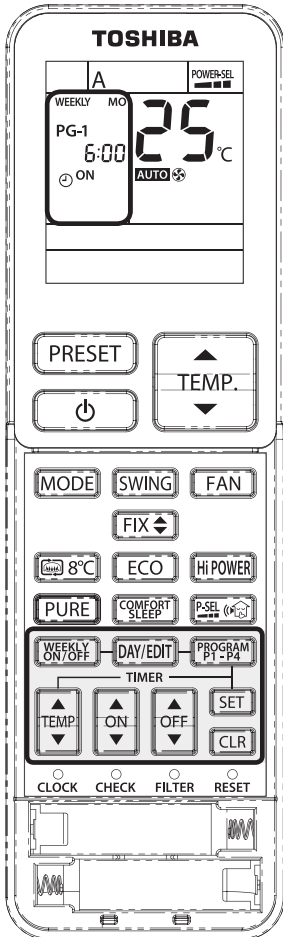
How to set WEEKLY TIMER

1 Press `DAY/EDIT` to enter WEEKLY TIMER setting.

Blink

2 Press `DAY/EDIT` to select desired day in sequence.

The sequence of day symbol appears on the LCD

`DAY/EDIT`

SU → MO → TU → WE → TH → FR → SA

WEEKLY SUMO
TUWETHFRSA
(All day)
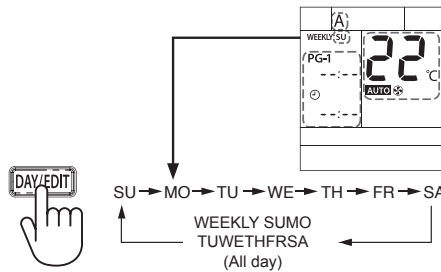
3 Press `PROGRAM P1 - P4` to select the program number.

● The program 1 is ready for setting while `DAY/EDIT` is pressed PG-1 appears on the LCD.
● Press `PROGRAM P1 - P4` to change the program number in the sequence program 1 to program 4.

PG-1
PG- 2
PG- 3
PG- 4

`PROGRAM P1 - P4`
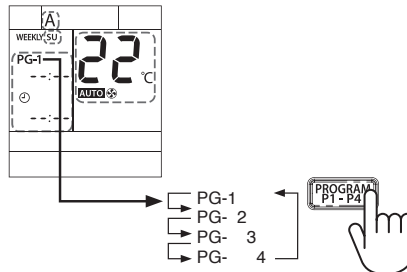
4 Press `ON▲▼` or `OFF▲▼` to select the desired time.

● The time can be set between 0:00 and 23:50 in 10 minute intervals.
● Press and hold the button to change setting time for 1 hr.
● Only one of ON or OFF timer can be set on each program.

ON timer display   OFF timer display*
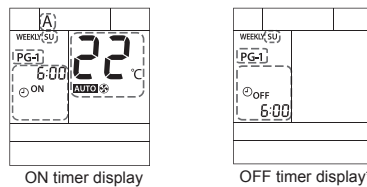
* OFF timer is used to stop the air conditioner only. The display does not show Operation mode, Temperature, Fan speed and others.

5 Press MODE to select desired operation.

A → ☼ → ◊ → ☀ → ❀

6 Press TEMP ▲▼ or TEMP. ▲▼ to select desired temperature.

● The temperature can be set between 17°C and 30°C.

7 Press FAN to select the desired fan speed.
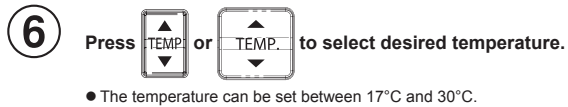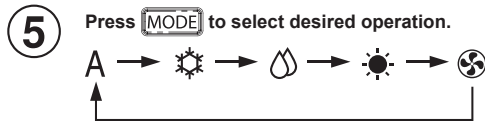
8 Add operations, if required.

● Press 8℃ to use 8°C operation. (Notes: Fireplace cannot select and memorize in weekly function)

● Press ECO to use ECO operation

● Press Hi POWER to use Hi-POWER operation.

● Press P-SEL to use Power selection/Silent operation.

9 Adding or editing the program.

The program can be set to perform on all the required days until SET is pressed to confirm the setting ⑩.

If adding or editing a program is required, please repeat steps ② - ⑧ before setting confirmation.

10 After adding or editing, press SET to confirm the setting*.

Operating Mode

Weekly timer running ——— WEEKLY SU

Next program ——— PG-1

Timer ON or OFF ——— ⏱ ON

Next operation time

Operating Temperature and Fan speed

Display after pressing SET button

POWER-SEL

A
22℃
6:00
AUTO ❀
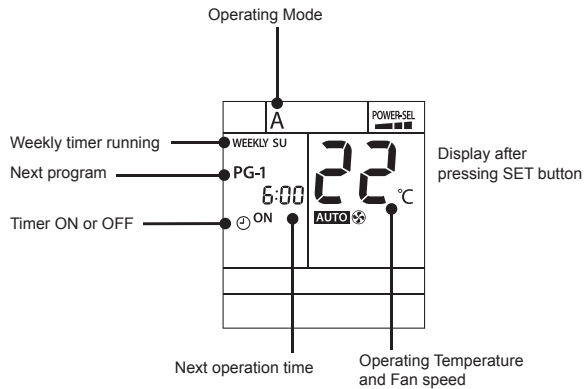
*Point remote control at air conditioner receiving module then, press SET button until you hear the "PiPi" sound. This means the setting operation has been completed.
As the air conditioner is receiving the signal, you will hear separate "Pi" sounds corresponding to the number of days in the selected setting.
An incomplete setting is indicated if the TIMER lamp is blinking. Press WEEKLY ON/OFF twice.

Notes

1. Place the remote control where the indoor unit can receive the signal. This will increase the accuracy of the timing between the remote control and the air conditioning unit.
2. The ON/OFF timer can be set during the WEEKLY TIMER operation. In this situation, the air conditioner will first follow the normal timer until it is complete; then, it will return to the WEEKLY TIMER function.
3. During WEEKLY TIMER operation, all of operation such as MODE, TEMP, FAN, Hi-POWER, ECO and etc., can be adjusted but when the clock reaches the program setting, the operation will return to the set items in the program.
4. When the remote control is sending a signal to the air conditioner, avoid interference from objects that can block the signal.
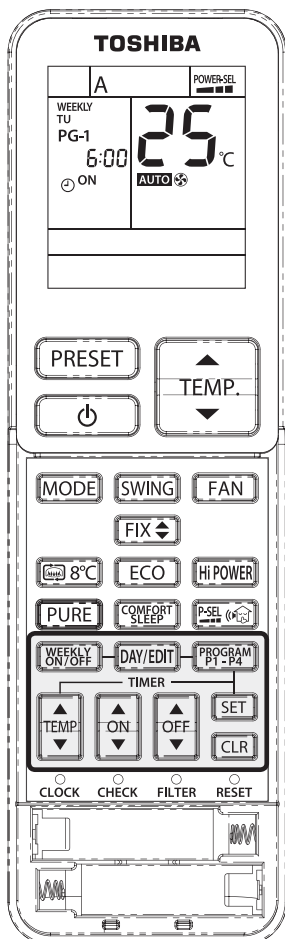
Edit Weekly timer program

To edit the program after confirming the weekly timer setting on , follow steps ① - ③ below.

① Press DAY/EDIT .

● The day of the week and the program number of the current day will be displayed.

. . . .

② Press DAY/EDIT to select the day of the week and press PROGRAM P1 - P4 to select program number to be confirmed.

● Resetting the operation.

. . . .

③ Press SET to exit confirming mode.

Deactivating WEEKLY TIMER operation

Press WEEKLY ON/OFF while "WEEKLY" is displayed on the LCD.

● The "WEEKLY" indicator will disappear from the LCD. However, the program will remain in the remote control.
● The TIMER lamp goes off.
● To reactivate the WEEKLY TIMER operation again, press WEEKLY ON/OFF again, LCD shows the next program. The program, after reactivation, is related to the clock time.
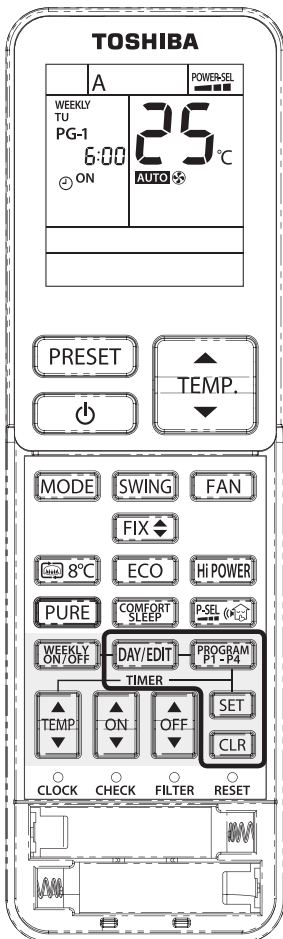
To delete programs

The individual program

① **Press** DAY/EDIT.
- The day of the week and the program number is displayed.
- Select the day to delete the program.

② **Press** PROGRAM P1-P4 **to select the program number to be deleted.**

③ **Press** CLR.
- ON or OFF timer will be cleared and the LCD will blink.

④ **Press** SET **to delete the program.**
- Press SET while the LCD is blinking. The program has now been deleted.

All programs

① **Press** DAY/EDIT.
- The day of the week and the program number will be displayed.

② **Press** CLR **and hold for 3 seconds.**
- All programs will be deleted and LCD displays current operation.

Notes

Make sure the remote control receiving module on the air conditioner receives the signal from the remote control.

WEEKLY TIMER USAGE EXAMPLE

Living room (Example#1)

Wake up

6:00, ON, Mode : Auto, 26°C, FAN : Low, ECO

Return home

16:00, ON, Mode : Cool, 25°C, FAN : Auto, Hi-POWER

MO-FR | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24

8:00, OFF

Go out

22:00, OFF

Go to bed

No program set, control by user.

SA | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24

Wake up

7:00, ON, Mode : Auto, 26°C, FAN : Low

Activity in house

12:00, ON, Mode : Cool, 25°C, FAN : Low, Hi-POWER

The air conditioner is controlled during this period by the remote control.

SU | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24

18:00, OFF

Go out

23:00, OFF

Go to bed

Table for living room operation.

	Setting	SU	MO	TU	WE	TH	FR	SA
PG-1	Timer	ON	ON	ON	ON	ON	ON	-
	Clock	7:00	6:00	6:00	6:00	6:00	6:00	-
	Mode	Auto	Auto	Auto	Auto	Auto	Auto	-
	Temperature	23°C	23°C	23°C	23°C	23°C	23°C	-
	Fan	Low	Low	Low	Low	Low	Low	-
	Add on operation	-	ECO	ECO	ECO	ECO	ECO	-
PG-2	Timer	ON	OFF	OFF	OFF	OFF	OFF	-
	Clock	12:00	8:00	8:00	8:00	8:00	8:00	-
	Mode	Cool	-	-	-	-	-	-
	Temperature	24°C	-	-	-	-	-	-
	Fan	LOW	-	-	-	-	-	-
	Add on operation	Hi-POWER	-	-	-	-	-	-
PG-3	Timer	OFF	ON	ON	ON	ON	ON	-
	Clock	18:00	16:00	16:00	16:00	16:00	16:00	-
	Mode	-	Heat	Heat	Heat	Heat	Heat	-
	Temperature	-	24°C	24°C	24°C	24°C	24°C	-
	Fan	-	Auto	Auto	Auto	Auto	Auto	-
	Add on operation	-	Hi-POWER	Hi-POWER	Hi-POWER	Hi-POWER	Hi-POWER	-
PG-4	Timer	OFF	OFF	OFF	OFF	OFF	OFF	-
	Clock	23:00	22:00	22:00	22:00	22:00	22:00	-
	Mode	-	-	-	-	-	-	-
	Temperature	-	-	-	-	-	-	-
	Fan	-	-	-	-	-	-	-
	Add on operation	-	-	-	-	-	-	-

WEEKLY TIMER USAGE EXAMPLE (continued)

Living room

MON-FRI
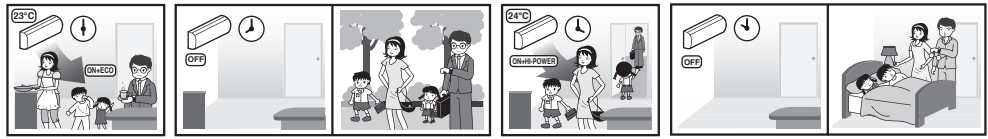
SUN and SAT
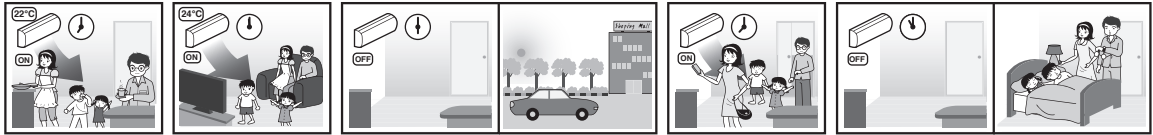
Living room with heavy cool (Example#2)

(Non-stop air conditioning)

Wake up

6:00, ON, Mode : Heat, 23°C, FAN : Low, ECO

Return home, speed up to favorite temperature with Hi-POWER function.

16:00, ON, Mode : Heat, 24°C, FAN : Low, Hi-POWER

Go to bed, keep suitable temperature and power save with ECO function.

22:00, ON, Mode : Heat, 17°C, FAN : Low, ECO

MO-FR | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

8:00, ON, Mode : Heat, 10°C, FAN : Low, 8°C

Go out, prevent home from freezing with 8°C heating operation.

No program set, control by user.

SA | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

Wake up

7:00, ON, Mode : Heat, 23°C, FAN : Low

Activity at home

12:00, ON, Mode : Heat, 24°C, FAN : Auto

Go to bed, keep suitable temperature and power save with ECO function.

23:00, ON, Mode : Heat, 17°C, FAN : Auto, ECO

SU | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

18:00, ON, Mode : Heat, 10°C, FAN : Low, 8°C

Go out, prevent home from freezing with 8°C heating operation.

WEEKLY TIMER USAGE EXAMPLE (continued)

Table for living room operation.

	Setting	SU	MO	TU	WE	TH	FR	SA
PG-1	Timer	ON	ON	ON	ON	ON	ON	-
	Clock	7:00	6:00	6:00	6:00	6:00	6:00	-
	Mode	Heat	Heat	Heat	Heat	Heat	Heat	-
	Temperature	23°C	23°C	23°C	23°C	23°C	23°C	-
	Fan	Low	Low	Low	Low	Low	Low	-
	Add on operation	-	ECO	ECO	ECO	ECO	ECO	-
PG-2	Timer	ON	ON	ON	ON	ON	ON	-
	Clock	12:00	8:00	8:00	8:00	8:00	8:00	-
	Mode	Heat	Heat	Heat	Heat	Heat	Heat	-
	Temperature	24°C	10°C	10°C	10°C	10°C	10°C	-
	Fan	Auto	Auto	Auto	Auto	Auto	Auto	-
	Add on operation	-	8°C	8°C	8°C	8°C	8°C	-
PG-3	Timer	ON	ON	ON	ON	ON	ON	-
	Clock	18:00	16:00	16:00	16:00	16:00	16:00	-
	Mode	Heat	Heat	Heat	Heat	Heat	Heat	-
	Temperature	10°C	24°C	24°C	24°C	24°C	24°C	-
	Fan	Auto	Auto	Auto	Auto	Auto	Auto	-
	Add on operation	8°C	Hi-POWER	Hi-POWER	Hi-POWER	Hi-POWER	Hi-POWER	-
PG-4	Timer	ON	ON	ON	ON	ON	ON	-
	Clock	22:00	22:00	22:00	22:00	22:00	22:00	-
	Mode	Heat	Heat	Heat	Heat	Heat	Heat	-
	Temperature	17°C	17°C	17°C	17°C	17°C	17°C	-
	Fan	Auto	Auto	Auto	Auto	Auto	Auto	-
	Add on operation	ECO	ECO	ECO	ECO	ECO	ECO	-

* Remark: If no program is set for SATURDAY, the program will refer to the latest operation (FRIDAY, PG-4 = Heat mode, 17°C, Fan = Auto, ECO). On that day, the user can select the air conditioner mode via remote control.

**Living room with heavy cool
(Non-stop air conditioning)**

MON-FRI
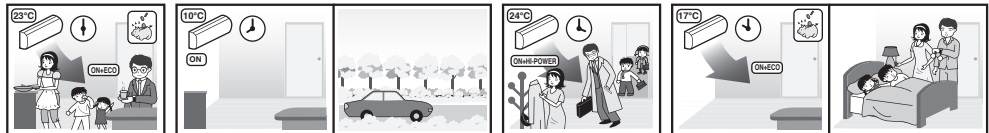
SUN and SAT

WEEKLY TIMER USAGE EXAMPLE (continued)
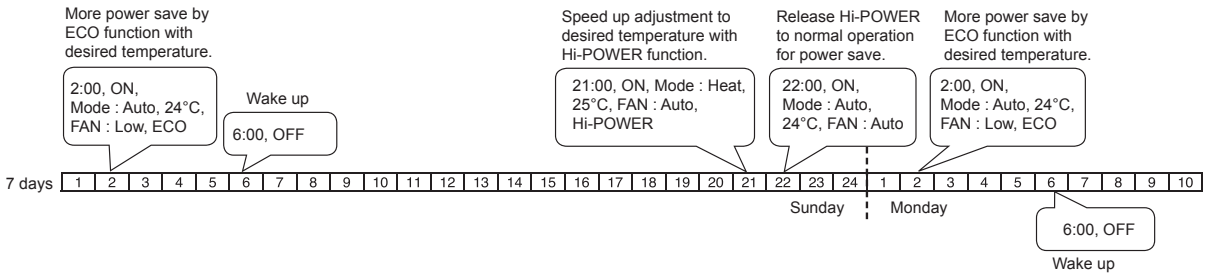
Bedroom (Example#3)

More power save by ECO function with desired temperature.

2:00, ON, Mode : Auto, 24°C, FAN : Low, ECO

Wake up

6:00, OFF

Speed up adjustment to desired temperature with Hi-POWER function.

21:00, ON, Mode : Heat, 25°C, FAN : Auto, Hi-POWER

Release Hi-POWER to normal operation for power save.

22:00, ON, Mode : Auto, 24°C, FAN : Auto

More power save by ECO function with desired temperature.

2:00, ON, Mode : Auto, 24°C, FAN : Low, ECO

7 days | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

Sunday Monday

6:00, OFF

Wake up

Table for living room operation.

|	Setting	SU	MO	TU	WE	TH	FR	SA
PG-1	Timer	ON	ON	ON	ON	ON	ON	ON
	Clock	2:00	2:00	2:00	2:00	2:00	2:00	2:00
	Mode	Auto	Auto	Auto	Auto	Auto	Auto	Auto
	Temperature	24°C	24°C	24°C	24°C	24°C	24°C	24°C
	Fan	Low	Low	Low	Low	Low	Low	Low
	Add on operation	ECO	ECO	ECO	ECO	ECO	ECO	ECO
PG-2	Timer	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	Clock	6:00	6:00	6:00	6:00	6:00	6:00	6:00
	Mode	-	-	-	-	-	-	-
	Temperature	-	-	-	-	-	-	-
	Fan	-	-	-	-	-	-	-
	Add on operation	-	-	-	-	-	-	-
PG-3	Timer	ON	ON	ON	ON	ON	ON	ON
	Clock	21:00	21:00	21:00	21:00	21:00	21:00	21:00
	Mode	Heat	Heat	Heat	Heat	Heat	Heat	Heat
	Temperature	25°C	25°C	25°C	25°C	25°C	25°C	25°C
	Fan	Auto	Auto	Auto	Auto	Auto	Auto	Auto
	Add on operation	Hi-POWER	Hi-POWER	Hi-POWER	Hi-POWER	Hi-POWER	Hi-POWER	Hi-POWER
PG-4	Timer	ON	ON	ON	ON	ON	ON	ON
	Clock	22:00	22:00	22:00	22:00	22:00	22:00	22:00
	Mode	Auto	Auto	Auto	Auto	Auto	Auto	Auto
	Temperature	24°C	24°C	24°C	24°C	24°C	24°C	24°C
	Fan	Auto	Auto	Auto	Auto	Auto	Auto	Auto
	Add on operation	-	-	-	-	-	-	-

Bedroom

Sunday   Sunday   Monday   Monday
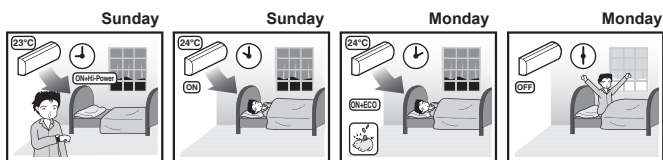
PRESET OPERATION

Set your preferred operation for future use.
**The setting will be stored in the memory and can be used for future requirements.**
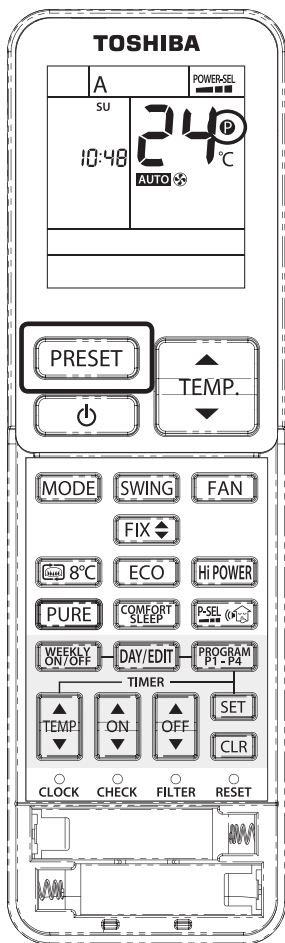
PRESET OPERATION

① Select your preferred operation.

② Press and hold [PRESET] for 3 seconds to store the setting.

The 🅟 mark displays.

③ Press [PRESET] to operate the preset operation.

The following functions cannot be set:

※ Fireplace/8°C heating operation

※ Weekly timer

※ Louver swing

POWER-SELECTION AND SILENT OPERATION (OUTDOOR UNIT)
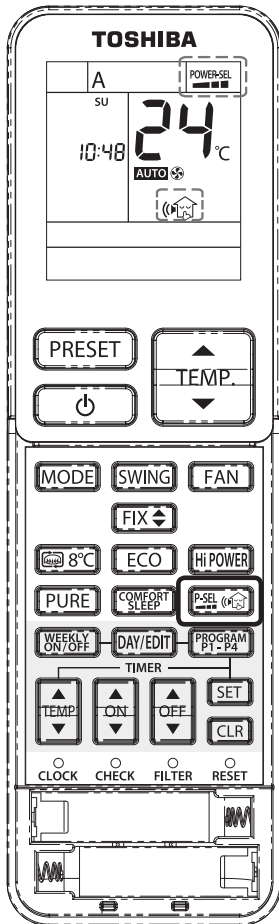
Power-Selection (P-SEL)

This function is used when the circuit breaker is shared with other electrical appliances. It limits the maximum current and power consumption to 100%, 75%, or 50% and can be implemented by POWER-SELECTION. The lower percentage, the higher saving and also longer compressor lifetime.

> **Notes**
> - When the level is selected, POWER-SEL level flashes on remote LCD display for 3 seconds.
>   In case of 75% and 50% level, number "75" or "50" also flashes for 2 seconds.
> - Due to the reason that POWER-SELECTION function limits the maximum current, inadequate cooling or heating capacity may occur.

Silent Operation ((( )))

Keep outdoor unit operating silently to ensure either yourself or neighborhood will have a tight sleep in nighttime.
By this feature, the heating capacity will be optimized to deliver such silent experience.
The silent operation can be selected from one of two purposes (Silent 1 and Silent 2).
There are three setting parameters: Standard level > Silent 1 > Silent 2

Silent 1:

Though operating silently, the Heating (or Cooling) capacity is still prioritized to ensure having sufficient comfort inside the room.
This setting is a perfect balance between the Heating (or Cooling) capacity and the Sound level of outdoor unit.

Silent 2:

Compromising the Heating (or Cooling) capacity to the Sound level in any circumstance where the outdoor unit's sound level is highly prioritized.
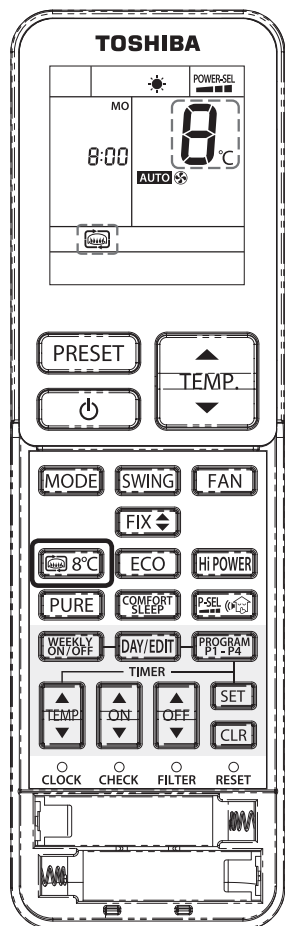This setting has a purpose to reduce the maximum sound level of outdoor unit by 4 dB(A).

> **Notes**
> - While activating of Silent operation, inadequate heating (or cooling) capacity may occur.

Power-Selection and Silent Operation (Outdoor Unit)
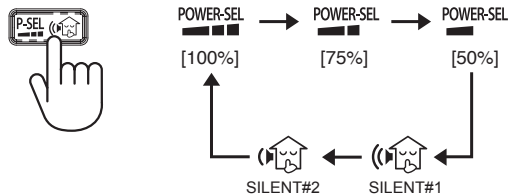
FIREPLACE AND 8°C HEATING OPERATION

Fireplace Operation (▭)

Keep indoor unit's fan blowing continuously during thermo off, to circulate heat from other sources over the room.
There are three setting parameters: Default setting > Fireplace 1 > Fireplace 2

Fireplace 1:

During thermo off period, the indoor unit's fan will continue to run by the same speed, previously selected by end-user.
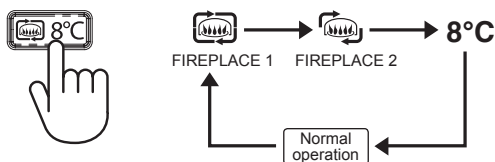
Fireplace 2:

During thermo off period, the indoor unit's fan will continue to run at super-low speed, programmed from factory.

8°C Heating Operation (8°C)

Heat mode operation for keep room temperature (5-13°C) with less of energy usage.
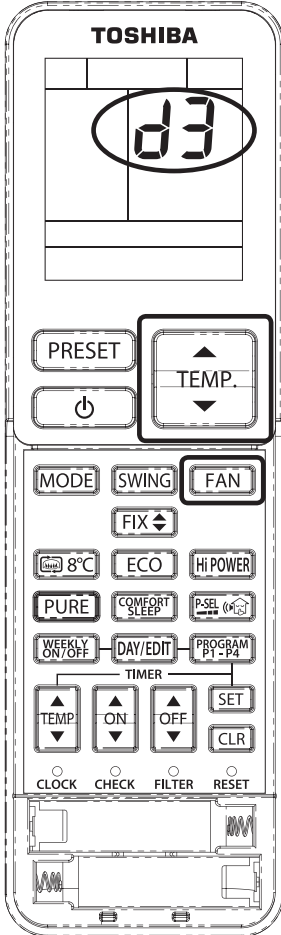
Fireplace and 8°C Heating Operation

FIREPLACE 1   FIREPLACE 2

Normal operation

Notes

- With Fireplace operation on heating mode, indoor unit fan always runs and cold air breezing might be occurred.

DISPLAY LAMP BRIGHTNESS ADJUSTMENT

This function is used when it is necessary to decrease the display lamp brightness or turn it off.

LAMP BRIGHTNESS ADJUSTMENT

While operating (Auto, Cool, Heat or Dry), press and hold [FAN] 5 seconds.

Press [TEMP. ▲▼] **Rise** or **Decrease** [TEMP. ▲▼] to adjust brightness which can be set at 4 levels or to turn it off.

| Rremote control LCD	Operation display	Brightness
d3	Lamp illuminates an operation with full brightness.	100%
d2	Lamp illuminates an operation with 50% brightness.	50%
d1	Lamp illuminates an operation with 50% brightness and the operation mode lamp is turned off.	50%
d0	All lamps are turned off.	All turned off

● In the examples of *d1* and *d0*, the lamp illuminates for 5 seconds before going off.

SELF CLEANING OPERATION (COOL AND DRY OPERATION ONLY)

Self cleaning operation is started after operations of 10 minutes or longer.

To stop the unit immediately press [⏻] 2 more times within 30 seconds.

※ After stopping the Self cleaning operation by remote control and starting the air conditioner, the next operation may be delayed.
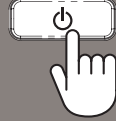
| Self Cleaning operation | Approx 30 minutes |

To prevent the growth of mold, air cleaning is performed.

※ Self cleaning operation will not be activated if previous operation is Heating, Fan only.

About Self Cleaning operation

● Self cleaning operation does not clean the room or remove mold growth or dust concealed inside the air conditioner.
● If used in rooms where frying of food occurs, where heavy smokers congregate or in a humid room, the internal parts of the air conditioner (the heat exchanger or the exhaust fan) may become covered with dirt or mold which can't be removed.
● Self cleaning operation is not performed in On/Off timer, Weekly timer and Comfort sleep if remote control is not in position to send signal to air conditioner.

WHEN INDOOR UNIT LAMP BLINKS

Turn off the power supply. Wait 30 seconds. Turn on the power supply and check the operation of the unit.

If the lamp blinks again, inspection and repair is required

To repair quickly, check the status of the air conditioner according to the following procedure and inform (1) – (3) the supplying retail dealership.

① **Problems with the air conditioner.**
② **Check code found by the remote control (See process below).**
③ **Blink status of the lamp in the display portion of the indoor unit**
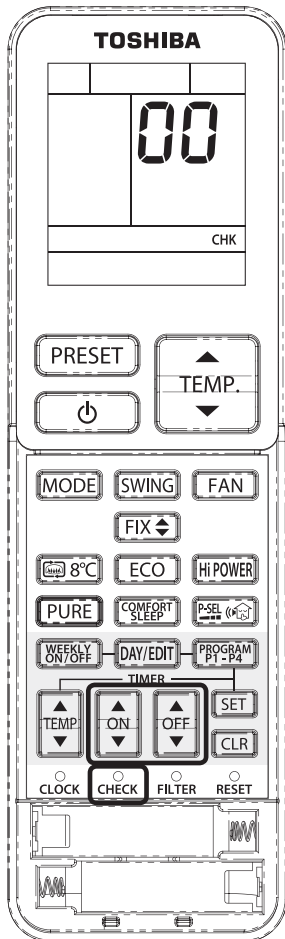
① Press the CHECK button with the tip of a pencil to set the remote control to the service mode.

● Temperature display setting switches to 00.

● CHK is displayed.
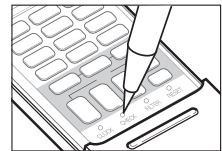
② Press [ON ▲▼] or [OFF ▲▼].

● ▲ is displayed in the remote control display.

● Press [ON ▲▼] or [OFF ▲▼] button.

If there is no fault with a code, the indoor unit will sound "Pi" once and the display of the remote control will change as follows :

$$00 \rightarrow 01 \rightarrow 02 \cdots Id \rightarrow IE \rightarrow 33$$

• The TIMER indicator of the indoor unit will flash continuously. (5 times per 1 sec.)
• Check the unit with all 52 check codes (*00* to *33*) as shown in below table.
• Press [ON ▲▼] or [OFF ▲▼] button to move the check codes backward.

If there is a fault, the indoor unit will "Pi" for 10 seconds (Pi, Pi, Pi ...).
Note the check code on the display of the remote control.
• The display will indicate a 2-digit alphanumeric code.
• All indicators on the indoor unit will flash. (5 times per 1 sec.)

③ Press [⏻] to clear.

● Remote display returns to the display before the service mode. Check other codes by repeat the process ① - ③.

Notes

● Check codes may not be displayed depending on the kind of fault such as an electrical parts fault.
● If the check codes are checked when the lamp is not blinking, the correct error code may not be displayed.
● Do not disassemble or repair yourself. Consult the supplying retail dealership.

Check Codes Table

Check codes not listed in the table may be detected.

Problem with indoor unit (including wiring fault).
00, 01, 04, 0C, 0d, 10, 11, 12

Problem with outdoor unit (including compressor and others).
02, 03, 07, 08, 14, 16, 17, 18, 19, 1A, 1b, 1C, 1d, 1E, 1F

Check codes consist of digits and letters.

5→5   6→6   A→A
b→B   C→C   d→D

AUTO RESTART SETTING

This product is designed so that after a power failure, it can restart automatically in the same operating mode as before the power failure.
The product was shipped with Auto Restart function in the ON position. Turn it OFF if the function is not required.

<div>

How to cancel the Auto Restart

① Press and hold the Temporary switch on the indoor unit for 3 seconds to cancel the operation
(3 "Pi" sounds but OPERATION lamp does not blink).

② Press and hold the Temporary switch on the indoor unit for 3 seconds to set the operation
(3 "Pi" sounds and OPERATION lamp blinks 5 times/sec for 5 seconds).
● In case the ON timer or OFF timer is set, Auto Restart operation does not activate.

OPERATION
RESET

</div>
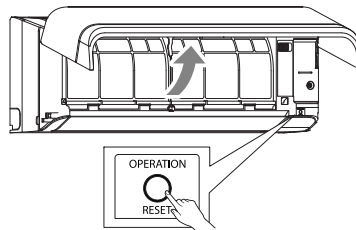
MAINTENANCE

⚠ Firstly, turn off the circuit breaker.

Indoor Unit and Remote Control
● Clean the indoor unit and the remote control with a wet cloth when needed.
● No benzine, thinner, polishing powder or chemically-treated duster.

Air filters
Clean every 2 weeks.
1. Open the air inlet grille.
2. Remove the air filters.
3. Vacuum or wash and then dry them.
4. Reinstall the air filters and close the air inlet grille.

OPERATION AND PERFORMANCE

1. Three-minute protection feature: To prevent the unit from being activated for 3 minutes when suddenly restarted or switched to ON.
2. Preheating operation: Warm up the unit for 5 minutes before the heating operation starts.
3. Warm air control: When the room temperature reaches the set temperature, the fan speed is automatically reduced and the outdoor unit will stop.
4. Automatic defrosting: Fans will stop during defrost operation.
5. Heating capacity: Heat is absorbed from outdoors and released into the room. When the outdoor temperature is too low, use another recommended heating apparatus in combination with the air conditioner.
6. Consideration for accumulated snow: Select the position for outdoor unit where it will not be subjected to snow drifts, accumulation of leaves or other seasonal debris.
7. Some minor cracking sound may occur when unit operating. This is normal because the cracking sound may be caused by expansion/contraction of plastic.
   Note: Item 2 to 6 for Heating model

Air conditioner operating conditions

Temp. Operation	Outdoor Temperature	Room Temperature
Heating	−15°C ~ 24°C	Less than 28°C
Cooling	−15°C ~ 46°C	21°C ~ 32°C
Dry	−15°C ~ 46°C	17°C ~ 32°C

REMOTE CONTROL A-B SELECTION

To separate using of remote control for each indoor unit in case of 2 air conditioners are installed nearly.

Remote Control B Setup.

1. Press RESET button on the indoor unit to turn the air conditioner ON.
2. Point the remote control at the indoor unit.
3. Push and hold CHECK button on the Remote Control by the tip of the pencil. "00" will be shown on the display. (Picture ①)
4. Press MODE during pushing CHECK. "B" will show on the display and "00" will disappear and the air conditioner will turn OFF. The Remote Control B is memorized. (Picture ②)

Note: 1. Repeat above step to reset Remote Control to be A.
2. Remote Control A has not "A" display.
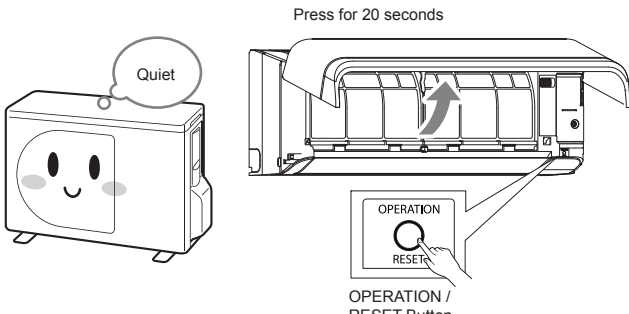3. Default setting of Remote Control from factory is A.

①　②

CONCERN ABOUT THE OPERATING NOISE

Start the operation smoothly and reduce the operating noise.

Press for 20 seconds

Quiet

OPERATION / RESET Button

- Cooling or Heating starts after 10 seconds with a "Pi" sound. However, continue to press it. Setting completes when the "Pi" sounds 5 times and the operation lamp blinks.
- To cancel it, repeat the above operation (in this case, the operation lamp does not blink)

TROUBLESHOOTING (CHECK POINT)

The unit does not operate.	Cooling or Heating is abnormally low.
• The power main switch is turned off. • The circuit breaker is activated to cut off the power supply. • Stoppage of electric current • ON timer is set.	• The filters are blocked with dust. • The temperature has been set improperly. • The windows or doors are opened. • The air inlet or outlet of the outdoor unit is blocked. • The fan speed is too low. • The operation mode is FAN or DRY. • POWER SELECTION function is set 75% or 50% (**This function is depend on remote controller**).

TOSHIBA