

Integrated Remote Commander

Operating Instructions

RM-VL600

For the customers in the U.S.A.

WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Features

The RM-VL600 Remote Commander provides centralized control of all your AV components from a single remote commander and saves the trouble of operating different AV components with different remote control devices. The following are its main features.

Centralized control of Sony AV components with this one remote commander

This Commander is preset at the factory to operate Sony brand components, so you can use it out of the box as a control center for your Sony AV components.

Remote control signals for non-Sony components are also preset

This Commander is preset for most major brands components as well as Sony. You can remote control your non-Sony components by setting the type and code number of each component (page 10).

Learning function for programming various other remote control signals

This Commander has a Learning function, to “learn” the remote control signals needed to operate other non-preset components or functions. (To “teach” such signals to this Commander, use the remote control supplied with the non-preset components.) (page 16)

In addition, the Commander can “learn” remote control signals (infrared signals only) of non-Audio Visual components such as air-conditioners, lights, etc. (Some specific appliances or functions may not be available.) (page 24)

Reassigning new components

You can assign Component Select buttons to freely operate other components. This is useful when you have more than two of the same kind of AV component (only if a Component Select button is free.) (page 33)

You can only assign TVs to the TV Component Select button.

You can only assign an amplifier or DVD/Receiver combo to the AMP Component Select button.

Startup Guide

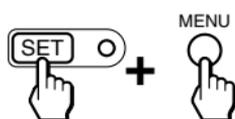
This guide shows you how to set the Remote Commander to operate your components.

First, find the four-digit component code number for your component, referring to the supplied "Component code numbers."

If you have the code number

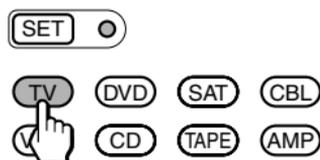
Example: To set up a TV of the code number "8011"

- 1 Set the Remote Commander for code input mode.**

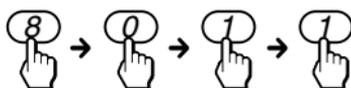


Press SET and MENU.

- 2 Press the desired Component Select button.**



- 3 Enter the code number.**



- 4 Finish setting.**



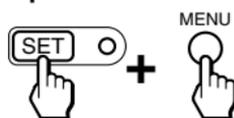
Press ENT.

For more details, see page 10.

If you cannot find the code number

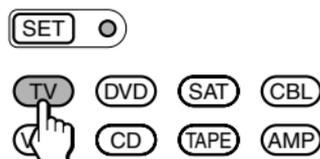
You can search for the component code available for your component.

- 1 Set the Remote Commander for code input mode.**

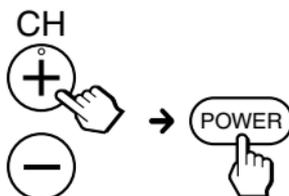


Press SET and MENU.

- 2 Press the desired Component Select button.**



- 3 Transmit code number signals in turn.**



Press CH + or CH -, and then POWER. Repeat until your component reacts.

- 4 Finish setting.**



Press ENT.

For more details, see page 13.

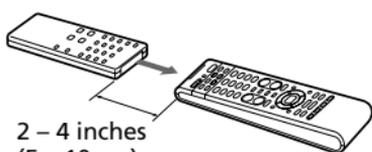
Learning function

If your component does not work as supposed even if the code number is set, make the RM-VL600 "learn" the functions of your component's remote control.

Example: To "teach" the ► (play) signal of your video cassette recorder to the VCR ► button of the RM-VL600

- 1** Place the RM-VL600 head to head with your VCR's remote control.

VCR's remote control

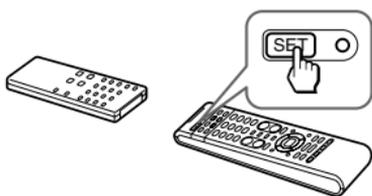


2 - 4 inches
(5 - 10 cm)
away (approx.)

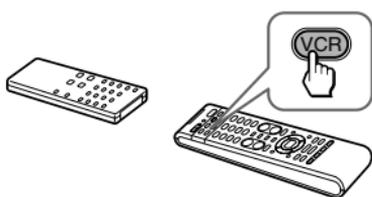
RM-VL600

- 2** Set the RM-VL600 for "learning" mode.

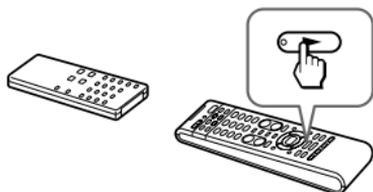
Press and hold SET for at least 3 seconds until the SET indicator flashes.



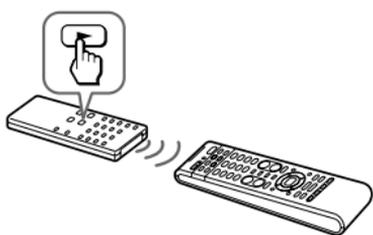
- 3** Press the desired Component Select button.



- 4** Press the button you want to "teach."

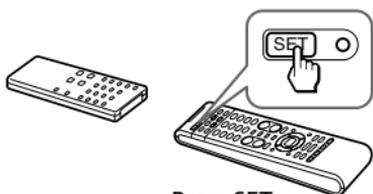


- 5** Press and hold the ► (play) button of your VCR's remote control until the VCR button of the RM-VL600 lights up.



- 6** Repeat Steps 4 and 5 to "teach" other functions.

- 7** Finish setting.



Press SET.

For more details, see page 16.

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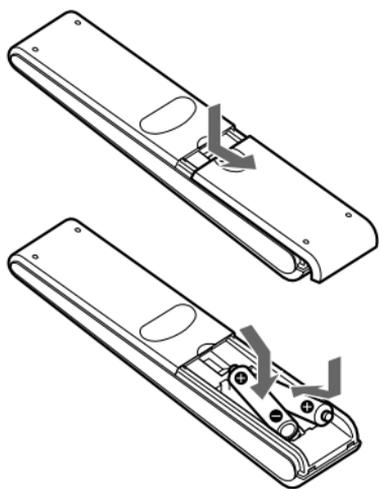
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Installing the Batteries

Slide open the battery compartment lid and insert two size AA (R6) batteries (not supplied). Be sure to match up the + and - indications on the batteries with the + and - indications on the battery compartment.



Insert the batteries (negative end first) through the guide clamp within each compartment as shown above.

When to replace the batteries

Batteries for remote control operation (two size AA (R6) batteries)

Under normal conditions, the batteries will last up to six months. If the Commander does not operate properly, the batteries might be drained. When this happens, replace the batteries with new ones.

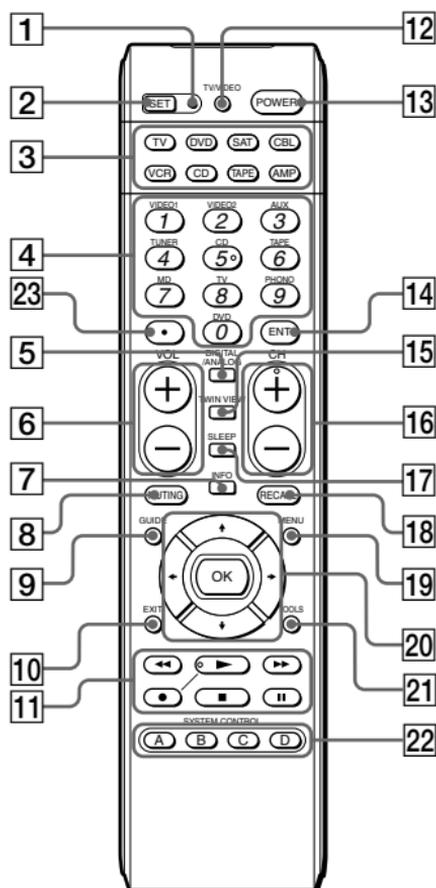
Note

Do not take more than one hour to replace the batteries. Otherwise, your code number settings (page 10) and "learned" remote control signals (page 16) will be erased.

Notes on batteries

- Do not use an old battery with a new one, or mix different types of batteries together.
- If the electrolyte inside the battery should leak, wipe the contaminated area of the battery compartment with a cloth and replace the old batteries with new ones. To prevent electrolyte from leaking, remove the batteries if you plan not to use the Commander for a long period of time.

Location of Controls



- 1 SET indicator
- 2 SET button
- 3 Component Select buttons
Light or flash during operation.
- 4 Number buttons
- 5 DIGITAL/ANALOG button
- 6 VOL +/- buttons*
- 7 INFO button
- 8 MUTING button*
- 9 GUIDE button
- 10 EXIT button
- 11 Player Control buttons
- 12 TV/VIDEO button
- 13 POWER button
- 14 ENT (enter) button
- 15 TWIN VIEW button
- 16 CH (channel) +/- buttons
- 17 SLEEP button
- 18 RECALL button
- 19 MENU button
- 20 Cursor Control buttons
- 21 TOOLS button
- 22 SYSTEM CONTROL buttons
- 23 DOT button

About tactile dots

The number 5 button, the ► button and CH + button each have a tactile dot for ease of use.

* Note on the VOL +/- and MUTING buttons

The Commander controls or mutes the TV's volume when you select a visual component. The Commander controls or mutes the amplifier's volume when you select an audio component. You can change this setting (page 25).

Note

The function of the control buttons varies depending on settings/operating modes. The "Table of Preset Functions" (page 39) shows how the Commander generally operates for each component in the factory preset mode.

Setting the Code for non-Sony Preset Audio and Visual Components

— Setting component codes

The Commander is preset at the factory to operate Sony brand AV components (see the table below). If you are using the Commander with a factory-set Sony components, skip the following procedures.

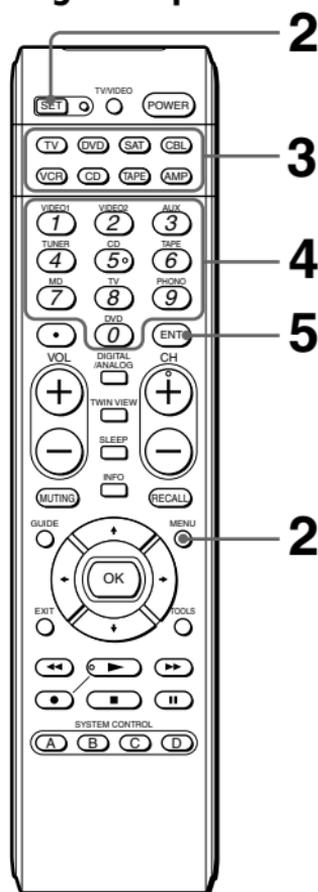
You can use the Commander with other major brand preset AV components also. To use with other AV components, or Sony components which do not function with the Commander, you need to follow the procedures to set the correct codes for each component.

Component Select Button	Preset component(s)	Factory setting
TV	TV TV/VCR Combo	Sony TV
DVD	DVD player	Sony DVD player
SAT	Satellite tuner	Sony satellite tuner
CBL	Cable box	Analog cable box
VCR	VCR	Sony VHS VCR
CD	CD player	Sony CD player
TAPE	Cassette deck	Sony cassette deck
AMP	Amplifier	Sony amplifier

Note

An MD player and a DAV can be set to any of the above Component Select buttons. You can assign Component Select buttons to freely set signals of your desired components. For further information, see "Assigning Other Components to the Component Select Buttons" (page 33). For the functions of buttons as for each component, see "Table of Preset Functions" (page 39).

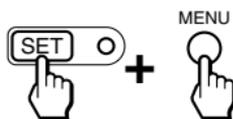
Setting a component code



Example: To set up a Philips' TV

- See the tables in the supplied "Component Code Numbers," and find the four-digit component code number for the desired component. If more than one code number is listed, use the number that is listed first. For example, to set up a Philips' TV, you would use the code number 8011.

- Press and while holding SET, press MENU.



The SET indicator lights up.



-
- 3** Press the Component Select button for the desired component.



The SET indicator and the selected Component Select button lights up.



-
- 4** Press the Number buttons to enter the four-digit component code number.

-
- 5** Press ENT.

The SET indicator and the Component Select button light turns off.



If the Component Select button flashes five times before turning off, it means that the setup is incomplete. Start over from Step 2.

Notes

- If you press a component code number that is not on the table in the supplied “Component Code Numbers,” or if you press a button in the wrong order, the Component Select button flashes five times, and then turns off. Check the component code number, and try setting it again.
- If you don’t input anything into the Commander within 20 seconds between each step, the setup procedure will be canceled. To set the code, start over from Step 2.
- If you press SET while setting the component code, all code numbers will be lost, and the setup procedure will be canceled. Start over from Step 2.

To cancel setup, press SET.

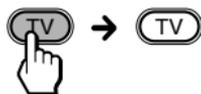
Setting the Code for non-Sony Preset Audio and Visual Components — Setting component codes (continued)

Checking if the code number works

1 Power on the component with its power switch.

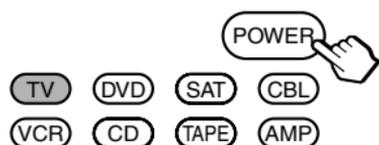
2 Press the corresponding Component Select button for the component you have set up.

The Component Select button lights up when you press it, and turns off when you release it.



3 Aim the Commander at the component and press POWER.

The selected Component Select button lights up when you press a function button, and turns off when you release it.



The component should power off.

4 If you have succeeded, check that the Commander is operating the other functions of your component, such as channel and volume control. See page 14 for details.

If the Commander does not seem to be working

Try repeating the setup procedure using the other codes listed for your component, or try setting the code number using the Search function (page 13).

Note on the VOL+/- and MUTING buttons

When you operate a visual component, the TV button lights up to indicate that the Commander is controlling or muting the TV's volume.



When you operate an audio component, the AMP button lights up to indicate that the Commander is controlling or muting the amplifier's volume.



It is recommended that you first set the TV and AMP codes before setting up any other components.

Note on buttons that have already "learned" remote control signals

If another signal has already been programmed on a button using the Learning function (page 16), that "learned" signal will continue to work even after you set the component code number. To use it as a preset function button, you must first erase its "learned" signal (page 22).

Setting a Component Code by the Search Function

You can find a code number available for a component that doesn't have one in the supplied "Component code numbers."

Before starting the Search function

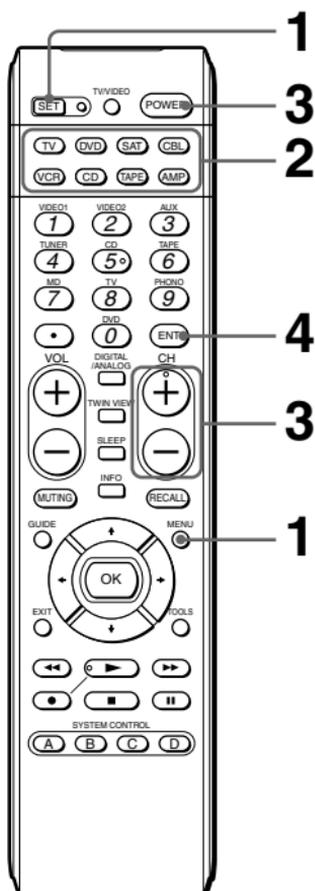
Set each component to the following status so that the Search function works effectively.

TV, AMP: Power-on

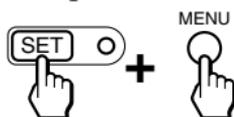
CD player, MD player*, cassette deck: Power-on with a playback source (disc, cassette tape, etc.)

Other components: Power-off

* If any of these components are assigned to any of the Component Select buttons (page 33), you can set a component code using the Search function.



- 1 Press and while holding SET, press MENU.



The SET indicator lights up.



- 2 Press the Component Select button for the desired component.



The SET indicator and the selected Component Select button lights up.



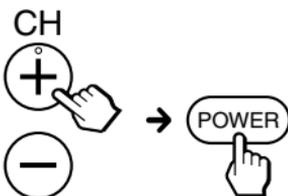
- 3 Press CH + or CH - and POWER in turn until the component reacts as described in the following.

TV: Powers off

VCR, CBL, DVD, AMP: Powers on

CD player, MD player, cassette

deck: Plays back



Press CH + to go to the next code number.

Press CH - to go back to the previous code number.

The Component Select button flashes three times after the numbers have turned one cycle. One cycle means, for example, the four-digit code numbers beginning from "8" are cycled through.

Continued

Setting a Component Code by the Search Function (continued)

4 Press ENT.



The SET indicator and the Component button turns off.



If the Component Select button flashes five times before turning off, it means that the setup is incomplete. Start over from Step 1.

5 Check if the code number works by following the instructions on page 12.

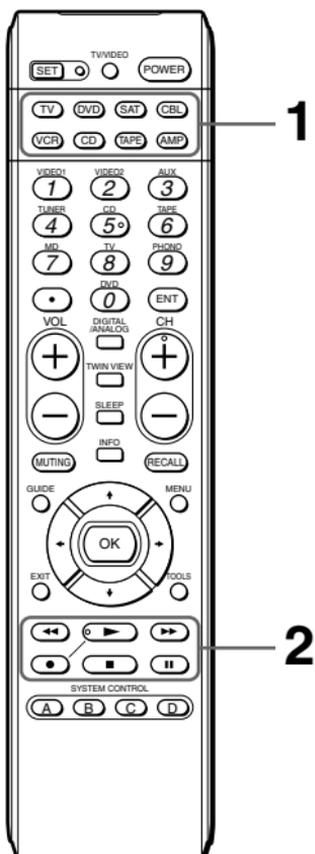
Notes

- If you don't input anything into the Commander within 20 seconds between each step, the setup procedure will be canceled. To set the code, start over from the beginning.
- If you press any button other than CH +/- and POWER while setting the component code, all code numbers will be lost, and the setup procedure will be canceled. Start over from the beginning.

To cancel setup, press SET.

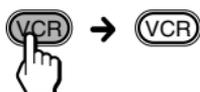
Operating Your Components with the Remote Commander

When you operate a non-Sony component, make sure you set the component code first (page 10).



Example: To operate a video cassette recorder

- 1 Press the desired Component Select button. The Component Select button lights up when you press it, and turns off when you release it.



2 Press any Player Control button.

See “Table of Preset Functions” (page 39) for the functions of buttons for each component.

Note

The remote control signals may be different for some components or functions. In this case, program the remote control signals with the Learning function (page 16). Note, however, that components and functions that do not support the remote control of infrared signals will not work with this Commander.

To control the volume

Press VOL +/- to control the volume. Press MUTING to mute the sound.

When you select a visual component, the TV’s volume will be controlled (TV Component Select button lights up), and when you select an audio component, the amplifier’s volume will be controlled (AMP Component Select button lights up). You can change this setting (page 25).

Notes

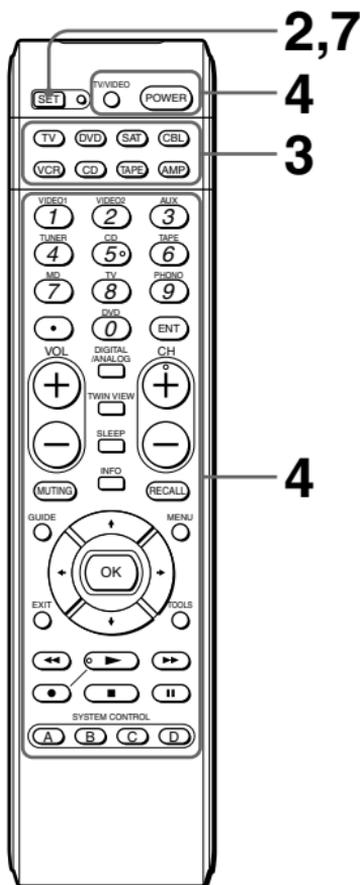
- If you used the Learning function (page 16) to program the VOL +/- or MUTING button to send a signal to any other component, that signal will be transmitted instead of the volume or muting of the TV or amplifier when you select that component.
- If you used the Learning function (page 16) to program the VOL +/- or MUTING button for the TV or AMP buttons to send a signal to any other component, that signal will be transmitted only when you select TV or AMP. When you select another component, the preset volume control signals for TV or AMP will be transmitted.
- If you have assigned another component to the TV or AMP buttons (page 33), the volume of the TV or amplifier cannot be controlled even if you select another component.

Programming Signals of Another Remote Control — Learning Function

To operate components or functions which do not work even if you set a component code number, use the following Learning procedure to “teach” any of the programmable buttons of the Commander to operate the functions of another remote control. You can also use the Learning function to change the signals of individual buttons after setting the component code number (page 10). It is recommended that you make a note of the “learned” key functions. (It is possible to make a note on the back of the supplied “Component code numbers.”)

Notes

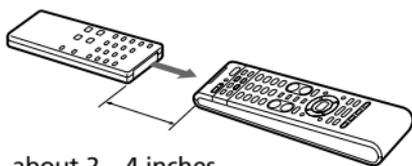
- Some specific remote control signals may not be “learned.”
- You can also use a display monitor for computer display (including a built-in tuner type), if the Commander is “learned.”



Example: To program the (Play) signal of your video cassette recorder to the VCR (Play) button of the Commander

- 1 Place the RM-VL600 head to head with your component’s remote control.

Remote control for your component



about 2 – 4 inches
(5 – 10 cm) away

RM-VL600

-
- 2** Press and hold SET for over 3 seconds.



The SET indicator flash.



-
- 3** Press the Component Select button for the component whose signals are to be “learned.”



The SET indicator flashes and the selected Component Select button light up.



-
- 4** Press the button on the Commander you want to “teach.”



The SET indicator flashes and the selected Component Select button lights up. (Learning function standby).



If another signal has already been “learned” by that button

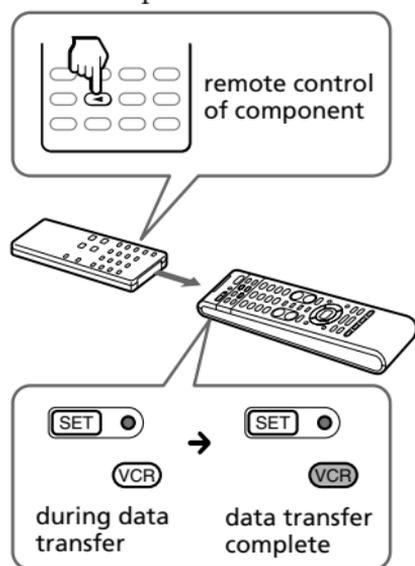
The SET indicator flashes twice, and the Commander takes no action returning to its state after the Component Select button was pressed in Step 3. Either “teach” to another free button, or clear the already “learned” function (page 22) and start over from the beginning.

Programming Signals of Another Remote Control — Learning Function (continued)

- 5** Press and hold the button on the other remote control, until both the SET indicator and the Component Select button lights up again.

During data transfer, only the SET indicator stays lit, and the Component Select button turns off.

After data transfer is complete, the Commander returns to its state in Step 3.



If the SET indicator flashes five times

It means that "learning" is incomplete. Repeat steps 4 and 5.

- 6** Repeat Steps 4 and 5 to "teach" functions to other buttons.

To "teach" another component's remote control signal

After positioning the two remote commanders as in Step 1 on page 16, press the corresponding Component Select button, and then follow Steps 4 and 5 to perform Learning.

- 7** Press SET to finish setting.

Notes

- If you do not perform Learning steps within 20 seconds at any point during the process, Learning mode ends.
- If you do not perform Step 5 within 10 seconds after Step 4, the learning procedure returns to Step 3. Repeat Step 4 while the Component Select button lights.

To cancel setup, press SET.

If the Commander does not seem to be working

If the "learned" button does not operate properly, "teach" once again. (For example, if the volume becomes very loud after pressing VOL + only once, noise may have interfered during the Learning procedure.)

If you set a component code after "learning" a signal

If you have programmed any signal on a button by the Learning function, that signal will work even after you set a component code.

Note on the REC ● signal

You can only "teach" to one button at a time. Therefore you cannot teach a sequential button operation (for example REC ● + ►) to a single button on the Commander. In this case, "teach" the functions of each button on your component to the Commander.

When you “teach” signals to VOL +/- or MUTING

- If you used the Learning function to program the VOL +/- or MUTING buttons to send any signal to components other than the TV or AMP, that signal will be transmitted only by pressing VOL +/- or MUTING when you select that component.
- If you used the Learning function to program the VOL +/- or MUTING buttons to send any signal to the TV or AMP, that signal will be transmitted only after you select TV or AMP. When you select other components, the “learned” signal will be transmitted.

To “teach” the signals for an air-conditioner

See “Notes on programming the signals for an air-conditioner” on page 24.

For accurate Learning

- Do not move the remote units during the Learning procedure.
- Be sure to keep holding down the “learning” button until your Commander reacts as described.
- Use fresh batteries in both remote units.
- Avoid Learning in places subject to direct sunlight or a strong fluorescent light. (Noise may interfere during the Learning procedure.)
- The remote control detector area may differ depending on each remote unit. If Learning does not work, try changing the positions of the two remote control units.
- When you teach signals of an interactive signal exchange system remote control unit (supplied with some of Sony’s amplifiers) to the Commander, the response signal of the main unit may interfere with the learning of the Commander. In such a case, move to a place where the signals will not reach the main unit (e.g. other rooms, etc.).

IMPORTANT

Be sure to place the Commander out of the reach of small children or pets, and lock the controls using the Hold function (page 34).

Components such as air conditioners, heaters, electric appliances, and electric shutters or curtains receiving an infrared signal can be dangerous if misused.

Programming remote control signals to the Component Select buttons and System Control buttons

You can “teach” one operating procedure to a Component Select button and System Control buttons, so that when you press the Component Select button and System Control buttons, the operation is also automatically done.

For example, if it is necessary to switch the input selection of an amplifier to DVD when you use a DVD player, “teach” an input select signal to the DVD button. After “learning,” the input selection of an amplifier is automatically switched to DVD just by pressing DVD. (For this operation, the amplifier should first be turned on.)

Example: To “teach” the DVD input remote control signal of your amplifier to the DVD Component Select button of the Commander

- 1 Follow Steps 1 to 2 (page 16).

- 2 Press and hold the Component Select button for the component whose signals are to be “learned” for over 3 seconds.



To teach signals to the SYSTEM CONTROL buttons, press and hold the desired SYSTEM CONTROL button for over 3 seconds.

Both the SET indicator and the selected Component Select button light up.



When you “teach” signals to the SYSTEM CONTROL buttons, only the SET indicator lights up.

When the SET indicator lights up, you can release the Component Select button. The SET indicator flashes and the selected Component Select button lights up (Learning function standby).



When you “teach” signals to the SYSTEM CONTROL buttons, you can release the SYSTEM CONTROL button when the SET indicator lights up. The SET indicator lights up, but the SYSTEM CONTROL button does not light up.

If another signal has already been “learned” by that button

The SET indicator flashes twice, and the Commander takes no action, returning to its state after SET was pressed and held in Step 2. Either “teach” to another free button, or clear the already “learned” function (page 22) and start over from the beginning.

- 3** Press and hold the button on the other remote control, until the SET indicator lights and all the Component Select buttons flash again.

During data transfer, only the SET indicator stays lit, and the Component Select button turns off.

If the SET indicator flashes five times

It means that “learning” is incomplete. Repeat Steps 2 and 3.

- 4** Repeat Steps 2 and 3 to “teach” remote control signals to other buttons.
-

- 5** Press SET to finish “learning.”
-

Notes

- If you do not perform Learning steps within 20 seconds at any point during the process, Learning mode ends.
- If you do not perform Step 3 within 10 seconds after Step 2, the Learning procedure returns to Step 1. Repeat from Step 2 while the Component Select button is lit.

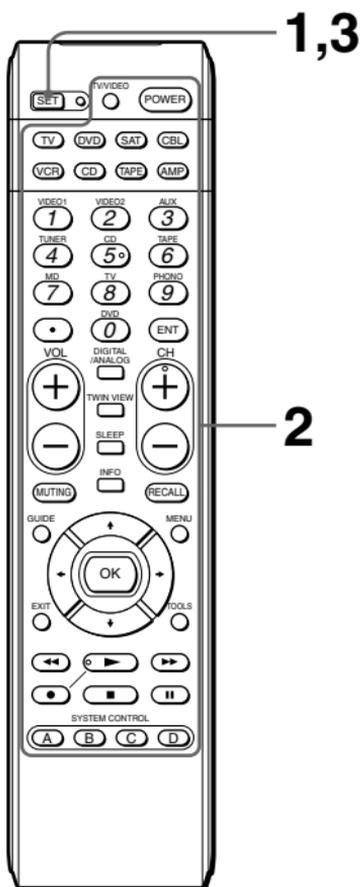
To cancel “learning,” press SET.

Programming signals of another remote control — Learning Function (continued)

Changing or erasing the function of a “learned” button

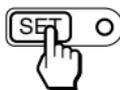
To change the “learned” function, clear it first and perform Learning again.

To clear the “learned” function of a single button

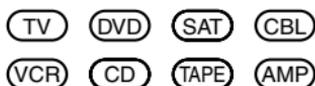


Example: To erase the “learned” function from the Number button 1 in VCR mode

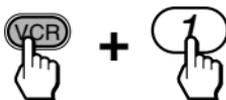
- 1 Press and hold SET for over 3 seconds.



The SET indicator flashes.



- 2 While holding the desired Component Select button pressed, press the button you want to erase.



When erasing of the “learned” function is completed, the selected Component Select button light turns off.



during data erasing

data erasing complete

Note

Be sure to press the button you want to erase while pressing the Component Select Button. If you release the Component Select button, the Commander changes to Learning mode.

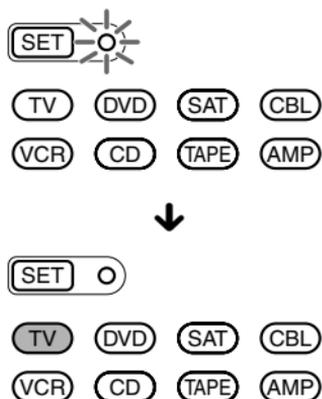
-
- 3 Press SET to finish setting.
-

To cancel erasing, press SET.

To erase the learned function of the Component Select button and System Control buttons

Example: To erase the function “learned” by the TV button

- 1 While holding SET pressed, press and hold the TV Component Select button for over 3 seconds.

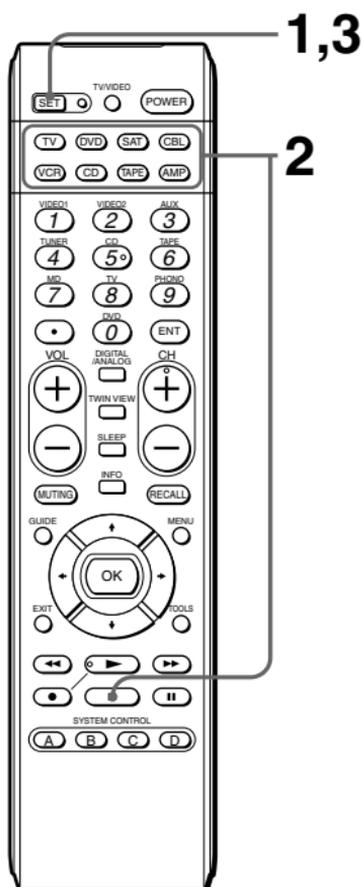


When erasing of a “learned” function is completed, the SET indicator light turns off.

To erase the learned function of a SYSTEM CONTROL button

While holding SET pressed, press and hold the desired SYSTEM CONTROL button for over 3 seconds.

To clear all function signals “learned” for a specific Component Select button



Example: To erase all functions “learned” by the VCR button

- 1 Press and hold SET for over 3 seconds.



The SET indicator flashes.



Programming signals of another remote control — Learning Function (continued)

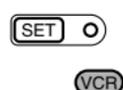
- 2 While holding **■** pressed, press the Component Select button you want to erase.



When erasing of a “learned” function has completed, all the other Component Select button lights turn off.



during data erasing



data erasing complete

Notes

- With this operation, you can only erase the “learned” functions of all buttons for a specific component.
- To erase a single “learned” function of a Component Select button, see page 22.

- 3 Press SET to finish setting.

To cancel erasing, press SET.

Notes on programming the signals for an air-conditioner

About seasonal adjustments

If you change the settings of the air-conditioner for the season, you have to program the remote control signals of the new settings on the Commander.

If the power-on/off operation does not work correctly

If the Commander can only operate “ON” with one button and “OFF” with another, while your air-conditioner’s remote control can operate “ON/OFF” with a single button, program the signal on two buttons of the Commander as follows.

- 1 Clear the “learned” power-on/off signal on the programmed button of the Commander.
- 2 Reprogram only the power-on signal of the air-conditioner on the button of the Commander by following the steps of “Programming signals of another remote control-Learning Function” (page 16).
- 3 Program the power-off signal of the air-conditioner on another button of the Commander.

The two buttons of the Commander have been programmed with the power-on signal and the power-off signal of the air-conditioner respectively, so that you can operate the air-conditioner with the Commander.

Controlling the Volume of Visual Components Connected to an Audio System

The Commander is factory preset based on the assumption that you hear the sound of your visual components from your TV speakers, and that you hear sound of your audio components from the loudspeakers connected to your amplifier.

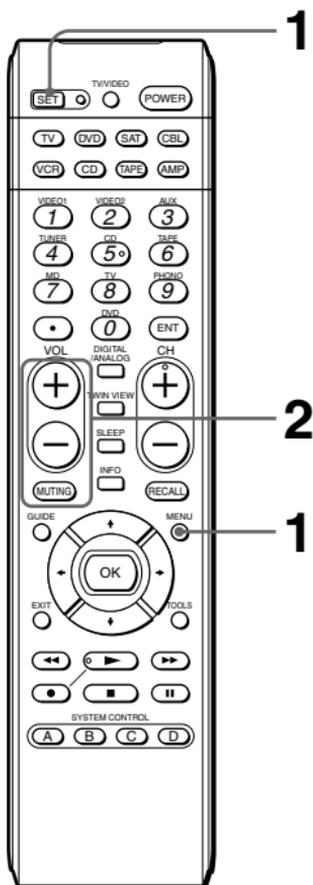
For example, to control the volume while using a VCR, you don't need to press the TV button to control the TV volume.

The following table shows the factory setting of which volume would be controlled for each component.

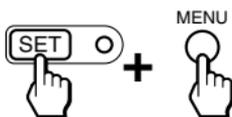
Component Select button	Controls the volume of
TV	TV
VCR	TV
CBL	TV
DVD	TV
SAT	TV
AMP	amplifier
CD	amplifier
TAPE	amplifier

However, if your visual components are connected to an audio system, you may want to hear TV or VCR sound from the loudspeakers via your amplifier or DAV, not from your TV speakers. In this case, you need to change the factory preset so that you can control the volume of your visual components without first having to switch to the amplifier or DAV.

To change the Factory Preset of the Volume Control



- 1 Press and while holding SET, press MENU.



The SET indicator lights up.



Controlling the Volume of Visual Components Connected to an Audio System (continued)

2 While holding MUTING pressed, press VOL + or VOL -.

To set all volume controls to AMP

Press VOL + while holding MUTING pressed.

All Component Select buttons light up when you press these buttons, and then turn off when you release them.

Press and while holding VOL+, press MUTING.



Volume control setting complete.



To set only the audio components' volume controls to AMP

Press VOL - while holding MUTING pressed.

Only AMP lights up when you press these buttons, and then turns off when you release them.

Press and while holding VOL-, press MUTING.



Volume control setting complete.



Visual components are:

TV, video cassette recorder, analog cable box, digital cable box, digital satellite tuner, DVD player, digital video recorder

Audio components are:

CD player, MD player, cassette deck, amplifier, DAV

To cancel setting, press SET.

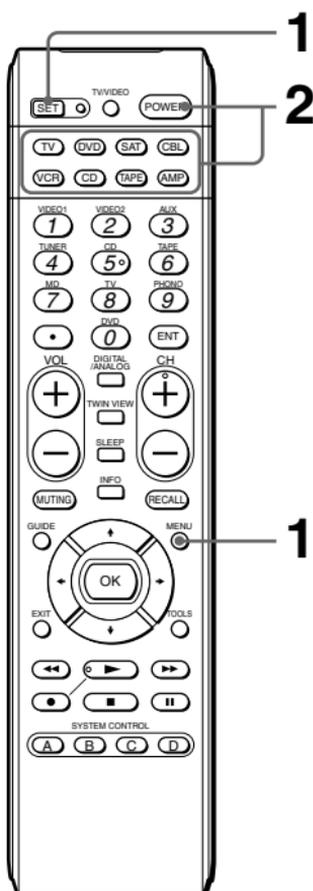
Notes

- If you used the Learning function to program the VOL +/- or MUTING buttons to send a signal to a component, the procedure above will not change the function of the VOL +/- and MUTING buttons.

Adding an Extra Function to the Component Select Buttons

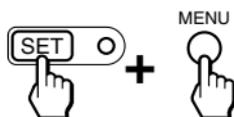
Programming the Power-On command of the selected component just by pressing that Component Select button (for Sony components only)

When a code number of a Sony component is set to a Component Select button, the Power-On signal is automatically programmed to the button. You can select the desired component and power it on by just pressing that Component Select button.



Example: To clear the Power-on command

- 1 Press and while holding SET, press MENU.



The SET indicator lights up.



- 2 While holding POWER pressed, press the desired Component Select button. While the POWER button is pressed, the Component Select buttons that Sony components are set to flash in the following order:
TV→DVD→SAT→CBL→VCR→CD→TAPE→AMP
The Component Select buttons that Sony components are not set to do not flash.

To cancel the setting, press SET.

To program the Power-On command

Repeat the same procedure, pressing the desired Component Select button.

Notes

- If the component code of a non-Sony brand has been set on a Component Select button, you cannot program the Power-On function on it. If you change the component code (page 10) after setting the Power-On function, the Power-On function is cleared. (The Component Select button flashes twice to indicate that you cannot set this function.)
- Even if you used the Learning function (page 16) to program a signal on a Component Select button, you can program the Power-On function on that button but it cannot be used. If you clear the “learned” function on that button, you can use the Power-On function.

Executing a Series of Commands — System Control Functions

With the System Control function, you can program a series of operating commands, and execute them by pressing just one button. You can program up to 16 consecutive operation steps to each of the SYSTEM CONTROL buttons (A – D).

If you have set the System Control function for a Component Select button (page 33), the execution of the programmed commands begins when you press the Component Select button for more than 2 seconds.

When executing the programmed commands, each remote commander signal is transmitted.

Example: To watch a video, you can set a series of operations as follows:

Power on the TV.

↓

Power on the video (VCR).

↓

Power on the amplifier.

↓

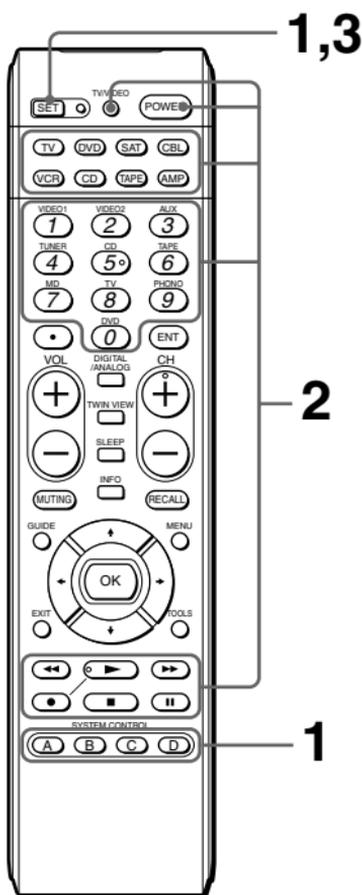
Set the input selector of the amplifier to VIDEO 1.

↓

Set the input mode of the TV to VIDEO 1.

↓

Start video playback.



Continued

Example: To program the procedure above to the SYSTEM CONTROL B button

- 1 Press and while holding SET, press the SYSTEM CONTROL B button.

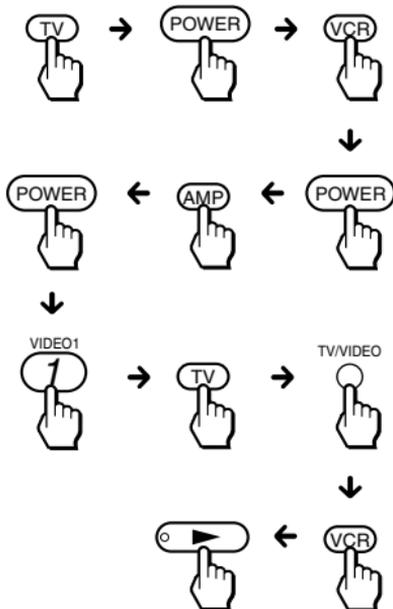
The SET indicator light turns on.



If a System Control function (System Control Macro) has already been set on the button, the SET indicator flashes twice. The setting procedure is automatically canceled.

- 2 Set the System Control function.

With this example, press buttons in sequence as below:



You can program up to 16 consecutive steps on each of the SYSTEM CONTROL buttons (A – D), including the initial step of pressing switch to a Component Select button.

- 3 Press SET to complete the programming.

The SYSTEM CONTROL button light turns off.

To program a new series of operations for those buttons which already have a control program set

Erase the program (page 31).

Notes

- If you interrupt the procedure at any point for over 20 seconds, the setting mode ends and the series of commands will be programmed up to that point. In this case, clear the program (page 31) and start again from Step 1 to set the entire program from the beginning. You cannot continue programming once the setting mode ends.
- If a SYSTEM CONTROL button has already “learned” a remote control signal (page 16), you can program a System Control function (System Control Macro), but the function does will not work until you clear the Learning function. To clear the Learning function, see “Changing or erasing the function of a “learned” button” on page 22.
- If you change the component code number (page 10) or program a new signal by using the Learning function (page 16) on a key or a button that has been programmed with a series of commands using the System Control function, the new signal will be transmitted when you press the corresponding SYSTEM CONTROL button.
- While in setting mode, you cannot clear any operation step you have programmed. If you have programmed an incorrect operation by mistake, start again from Step 1.
- If you try to program more than 16 steps, the System Control setting mode ends, and the 16 steps you have programmed are registered. If you want to program the steps again, clear the program (page 31) and start again from Step 1.

Executing a Series of Commands — System Control Functions (continued)

Tips for programming the System Control functions

The following information helps you to program a consecutive operation steps.

About the order of operation steps

Some of the components may not accept consecutive remote control signals. For example, some TVs generally may not respond to the next signal right after the Power-on signal. So, a series of commands such as TV Power-on and input select may not work properly.

In this case, insert other signals to other components such as in the example below:

TV Power-on→VCR Power-on→
VCR playback→TV input select

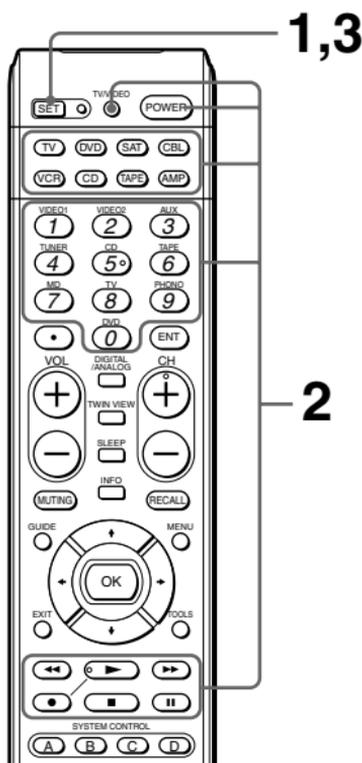
To clear programmed commands

- 1** Press and while holding SET, press and hold for more than 3 seconds the SYSTEM CONTROL button you want to clear.
-

Programming a Series of Commands on the Component Select Buttons

As with the SYSTEM CONTROL buttons, you can also program a series of operating commands for the Component Select buttons (up to 16 steps).

To execute the commands programmed on a Component Select button by the System Control function, press the button for more than 2 seconds.



Notes

- When you press the button for less than 2 seconds, it works as a normal Component Select button, and the programmed function does not work.
- See also "Tips for programming the System Control functions" on page 31.

Example: To program the procedure on page 29 for the VCR Component Select button

- 1 Press and while holding SET, press the VCR Component Select button.

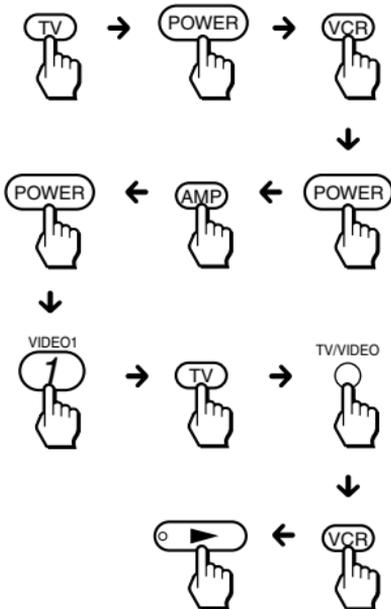
The SET indicator and the VCR Component Select button lights turn on.



If a Control Program function (Component Macro) has already been set on the button, the button flashes twice. The setting procedure is automatically canceled.

2 Set the Control Program function.

With this example, press the buttons in sequence as below:



You can program up to 16 consecutive steps on each of the Component Select buttons, including the first step of pressing to select a Component Select button.

3 Press SET to complete the programming.

The VCR Component Select button light turns off.

To clear programmed commands

- 1 Press and while holding SET, press and hold for more than 3 seconds the Component Select button you want to clear.
-

Notes

- You can program a Control Program function (Component Macro) for a Component Select button on which the Power-On function (page 27) has been programmed. In this case, the Power-On function is executed when you press the Component Select button, or when you select another component while the consecutive Control Program is being executed.
- If the procedure is interrupted the at any point for over more than 20 seconds, the setting mode ends and the series of commands will be programmed up to that point. In this case, clear the program (page 33) and start again from Step 1 to set the entire program from the beginning. You cannot continue programming once the setting mode ends.
- If a Component Select button has already “learned” a remote control signal (page 16), you can program a Control Program function (Component Macro), but the function does will not work until you clear the “Learned” Function. To clear the Learning Learned Function, see “Changing or erasing the function of a “learned” button” on page 22.
- While you are setting a program, you can insert a 0.4 second interval before the next step is executed by pressing the same Component Select button again. For the example above in the step 2, you can insert a 0.4 second interval between the TV-on signal and the TV/VIDEO switching signal at the exercising as the program is executed by pressing the buttons TV→POWER→TV.

Assigning Other Components to the Component Select Buttons

You can assign another component to any of the Component Select buttons not being used.

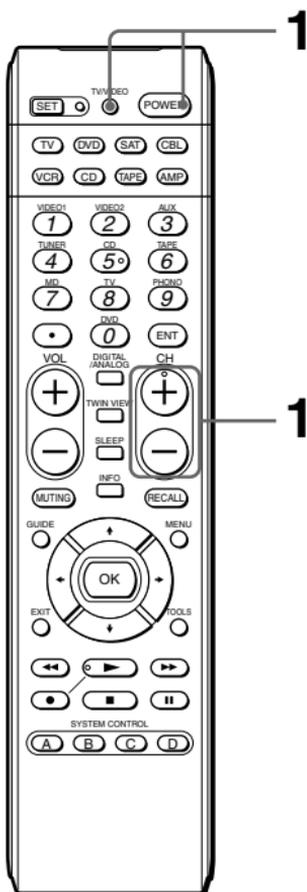
Once if you set a Component Select button to a different type of component, the entered component’s code number becomes effective.

Notes

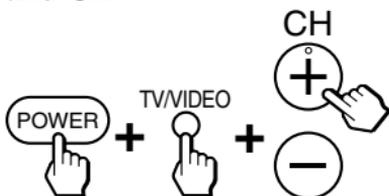
- To use the original component setting, set the component code number again (page 10).
- If you enter a new brand’s component code number without clearing the previous “learned” functions on that Component Select button, the previously “learned” functions remain effective. Erase the functions you do not use frequently.
- You can only assign a TV to the TV Component Select button.

Locking the Controls — Hold Function

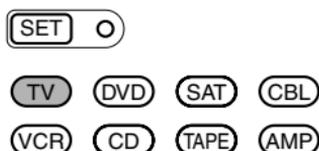
To prevent accidental operation, you can lock all the buttons with the Hold function.



- 1 Press and while holding POWER, press TV/VIDEO and CH +.



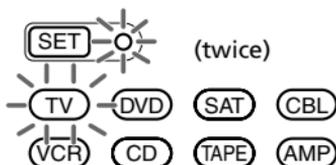
The SET button and the Component Select button currently selected flash once, and the Hold function is set.



All the buttons are locked.

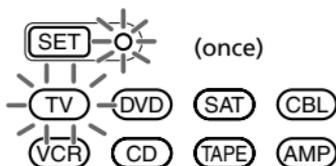


While the Hold function is on, no function can be operated. (The SET button and the Component Select button currently selected flash twice.)



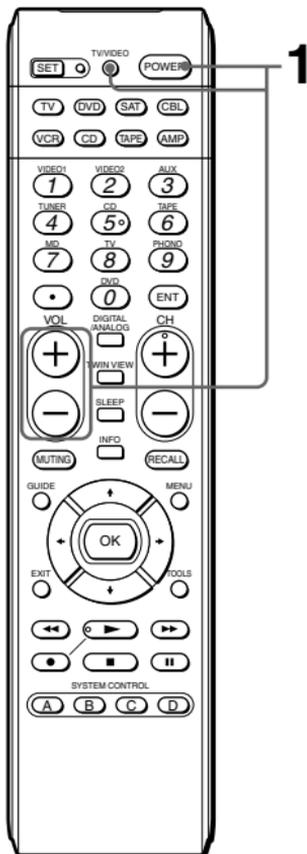
To unlock the control

Press and while holding POWER, press TV/VIDEO and CH -. The SET button and the Component Select button currently selected flash once, and the Hold function is released.

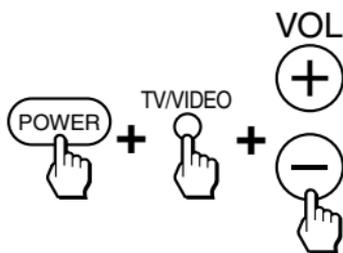


Erasing All Settings — To reset the Commander to its factory settings

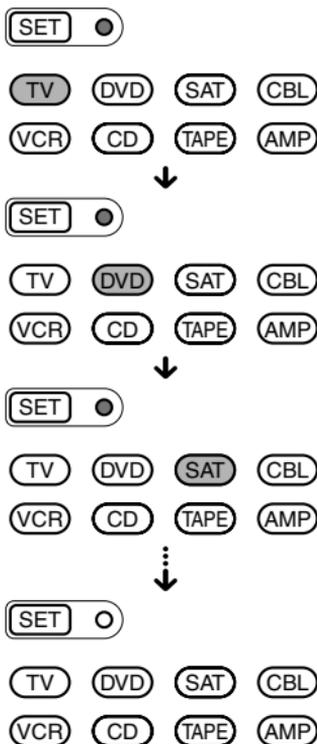
You can erase all remote control signals programmed by the “learned” function to reset the Commander to its factory settings.



- 1 While holding POWER pressed, press TV/VIDEO and VOL –.



When pressing the POWER button and the TV/VIDEO button, all the Component Select buttons go off. When pressing the VOL – button while holding down the POWER button and the TV/VIDEO button, the SET indicator lights up and the Component Select buttons light up one by one. When the SET indicator turns off at last, all settings are cleared, and the Commander returns to its original state.



Precautions

- Do not drop the unit or give a shock to the unit, or it may cause a malfunction.
- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or sand, moisture, rain or mechanical shock.
- Do not put foreign objects into the unit. Should any liquid or solid object fall into the unit, have it checked by qualified personnel before operating the unit any further.
- Do not expose the remote control detectors of your components to direct sunlight or other strong illumination. Too much light there can interfere with remote control operations.
- Be sure to place the Commander out of the reach of small children or pets. Components such as air conditioners, heaters, electric appliances, and electric shutters or curtains receiving an infrared signal can be dangerous if misused.

Maintenance

Clean the surface with a soft cloth slightly moistened with water or a mild detergent solution. Do not use any type of solvent such as alcohol, benzene or thinner as they may damage the finish of the surface.

Specifications

Operating distance

Approx. 32.8 ft (10 m) (varies depending on components of different manufacturers)

Power requirements

Two size AA (R6) batteries

Battery life

Approx. 1 year (varies depending on frequency of button use - up to approx. 300 times per day.)

Dimensions

Approx. $2\frac{1}{8} \times 8\frac{3}{4} \times 1\frac{3}{16}$ in
($53 \times 220 \times 29$ mm) (w \times h \times d)

Mass

Approx. 4.8 oz (135 g) (not including batteries)

Design and specifications are subject to change without notice.

Troubleshooting

If you have problems setting up or using the Remote Commander, first check the batteries (page 8), then check the items below.

Symptom	Remedy
You cannot operate components.	<ul style="list-style-type: none">• Move closer to the component. The maximum operating distance is approximately 32.8 ft. (10 m).• Check that you are aiming the Commander directly at the component, and that there are no obstructions between the Commander and the component.• Power on the components first, if necessary.• Make sure you have pressed the correct Component Select button. In case of CBL or DVD, make sure the desired component is selected.• Check that the component has infrared remote capability. For example, if your component didn't come with a remote commander, it probably isn't capable of being controlled by a remote commander.• You have assigned a different component to the Component Select button. Check the component assigned to that button and the component code.
You cannot control the volume.	<ul style="list-style-type: none">• If your visual components are connected to an audio system, make sure you have set up the Commander as described in "Controlling the Volume of Visual Components Connected to an Audio System" (page 25).• You have assigned another component on the TV or AMP button (page 33). In this case, the volume cannot be controlled when you select components other than a TV or AMP.
The Component Select buttons flash by a constant interval when you press a button.	<ul style="list-style-type: none">• Batteries are weakened. Replace them with new ones.
You cannot operate a component even after setting the component code numbers.	<ul style="list-style-type: none">• Set the component code correctly. If the code that is listed first for your component does not work, try all the codes for your component in the order in which they are listed in the supplied "Component Code Numbers."• Some features may not be preset. If some or all of the buttons do not function correctly even after you have set the component codes, then use the Learning function to program the remote control signals for the component (page 16).• The component may be operated with a code number that is not listed in the "Component code numbers". See "Setting a Component Code by the Search Function" (page 13) and try setting a code number again with the Search function.
The Commander fails to learn the remote control signals.	<ul style="list-style-type: none">• When you teach signals of an interactive signal exchange system remote control unit (supplied with some of Sony's amplifiers) to the Commander, the response signal of the main unit may interfere with the learning of the Commander. In such a case, move to a place where the signals will not reach the main unit (e.g., another room, etc.).
You cannot operate a component even after you programmed the remote control signals with the Learning function.	<ul style="list-style-type: none">• Make sure that the Remote Commander has "learned" the correct signals. If not, see "For accurate Learning" (page 19) and try the Learning procedure again (page 16).

Continued

Troubleshooting (continued)

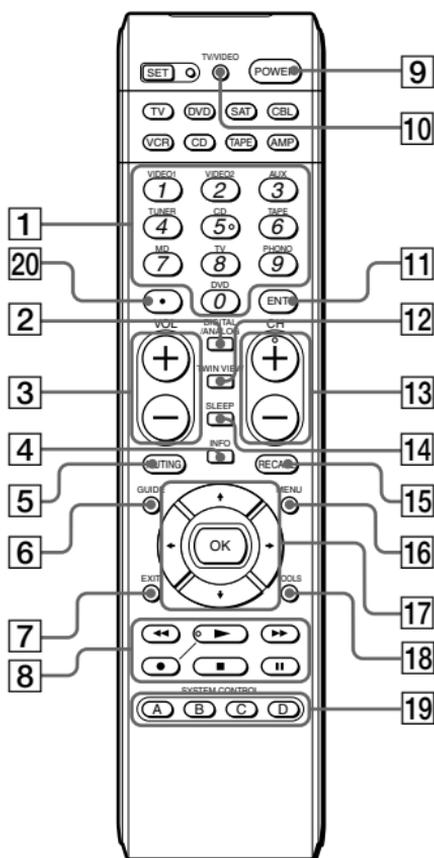
Symptom	Remedy
The SET indicator flashes five times during the Learning procedure.	<ul style="list-style-type: none">• Learning has not succeeded. See “For accurate Learning” (page 19) and try the Learning procedure again (page 16).• There are no available buttons for “learning”. Clear infrequently used Learned functions (page 22), then carry out learning procedure.
A Component Select button flashes five times during setting.	<ul style="list-style-type: none">• The component codes cannot be set. See the supplied “Component Code Numbers” and try setting the component codes again (page 10).
The SET indicator flashes twice during the Learning procedure.	<ul style="list-style-type: none">• A selected Component Select button or another button to be set has any remote control signals programmed by Learning function (page 16). Clear the “learned” signals (page 22) or select another button which has no “learned” signals, and try setting again.
All Component Select buttons flash twice.	<ul style="list-style-type: none">• The Hold function is on. Unlock the Hold function (page 34).
After programming the Power-On command of a component, pressing that Component Select button does not function correctly.	<ul style="list-style-type: none">• A Learning function has already been set on the Component Select button. If a Learning function has been set (page 16), you can program the Power-On function on the Component Select button (page 27) but the Power-On setting will not work until you clear the “learned” function. Erase the “learned” function after the setting the Power-On function. This function is for Sony components only.
The System Control function or Control Program function does not work properly.	<ul style="list-style-type: none">• When you program a System Control function or Control Program function, make sure to follow the correct steps (pages 29, 32).• Change the direction the Remote Commander is aimed. If the problem persists, position the programmed components closer together.• If the remote control receivers of the components are too far apart, or if something is blocking the signals between them, some of the components may not operate in sequence even after you press the programmed button. If some of the components do not operate correctly because of the above or any other reason, position the components back to the way they were before you set the System Control function or Control Program function. Failure to do this can result in incorrect operation when you use these functions again.• Some components may not always be powered on by the System Control function or Control Program function. This is because the power of the component turns on and off alternately when receiving the power on/off signal. In this case, check the operating component’s power on/off state before using the System Control function.• If you change the AV brands’ component code number (page 10) set on a Component Select button that has been programmed for a series of commands by the Control Program function, the new signal will be transmitted when you press the corresponding Component Select button.• The intervals between steps may be too short. Depending on the components, you may need to insert an interval between consecutive controls. You can insert an interval by changing the order of pressing the buttons. (You can insert an interval between steps when programming the Component Select button.)• If a SYSTEM CONTROL button or a Component Select button has already “learned” a remote control signal (page 16), you can program a System Control function (System Control Macro) or a Control Program function (Component Macro), but the function will not work until you clear the Learned function. To clear the Learned function, see “Changing or erasing the function of a “learned” button” on page 22.

For the customers in the U.S.A

Customer Support Information

After you have read through this manual, if you still cannot get the Remote Commander to work properly, call the Sony Customer Support Helpline at 1-800-822-2217.

Table of Preset Functions



Note

There may be some components or functions that cannot be operated with this Commander.

TV(ANALOG)

KEY DISPLAY	FUNCTION
9 POWER	To turn on and off.
1 11 20 1 - 9, 0, ENT, DOT	To change the channel. For example, to change to channel 5, press 0 and 5 (or, press 5 and ENT).
10 TV/VIDEO	To change the input mode.
4 INFO (DISPLAY)	To display the current channel on TV.
14 SLEEP	To operate SLEEP function on the TV (works only for a TV with SLEEP function).
16 MENU	To call up the MENU display.

KEY DISPLAY	FUNCTION
17 Δ	To move the cursor upward.
17 ∇	To move the cursor downward.
17 ▷	To move the cursor to the right.
17 ◁	To move the cursor to the left.
17 OK	To enter the selection of the MENU display.
12 TWIN VIEW (PIP ON/OFF)	To turn on/off the "window" picture.
8 ►► (PIP CH +)	To change the TV channel + in the "window" picture.
8 ◄◄ (PIP CH -)	To change the TV channel - in the "window" picture.
8 REC ● (PIP INPUT)	To change the input mode of the "window" picture.
8 (PIP STILL)	To freeze the "window" picture.
8 ► (PIP SWAP)	To swap the "main" picture and the "window" picture.
8 ■ (PIP MOVE)	To move the location of the "window" picture.
13 CH +/-	Channel up: + Channel down: -
15 RECALL	To operate JUMP, FLASHBACK or CHANNEL RETURN function on the TV depending on the setting of the TV's manufacturer.
3 VOL +/-	Volume up: + Volume down: -
5 MUTING	To mute the volume on the TV. Press again to turn muting off.
6 GUIDE (EPG)	To use the program guide.
7 EXIT	To exit the mode.
18 TOOLS (OPTION)	To go into the OPTION setting mode.

Table of Preset Functions (continued)

TV(DIGITAL)

KEY DISPLAY	FUNCTION
9 POWER	To turn on and off.
1 11 20 1 - 9, 0, ENT, DOT	To change the channel. For example, to change to channel 5, press 0 and 5 (or, press 5 and ENT).
10 TV/VIDEO	To change the input mode.
4 INFO (DISPLAY)	To display the current channel on TV.
14 SLEEP	To operate the SLEEP function on the TV (works only for a TV with the SLEEP function).
16 MENU	To call up the MENU display.
17 Δ	To move the cursor upward.
17 ∇	To move the cursor downward.
17 \triangleright	To move the cursor to the right.
17 \triangleleft	To move the cursor to the left.
17 OK	To enter the selection of the MENU display.
12 TWIN VIEW (PIP ON/OFF)	To turn the "window" picture on/off.
8 \blacktriangleright (VIDEO 3)	To select the input source. VIDEO 3
8 \blacktriangleleft (VIDEO 1)	To select the input source. VIDEO 1
8 REC \bullet (VIDEO 4)	To select the input source. VIDEO 4
8 \blacksquare (VIDEO 6)	To select the input source. VIDEO 6
8 \blacktriangleright (VIDEO 2)	To select the input source. VIDEO 2
8 \blacksquare (VIDEO 5)	To select the input source. VIDEO 5
13 CH +/-	Channel up: + Channel down: -
15 RECALL	To operate JUMP, FLASHBACK or CHANNEL RETURN function on the TV depending on the setting of the TV's manufacturer.
3 VOL +/-	Volume up: + Volume down: -

KEY DISPLAY	FUNCTION
5 MUTING	To mute the volume on the TV. Press again to turn muting off.
6 GUIDE (EPG)	To use the program guide.
7 EXIT	To exit the mode.
2 DIGITAL/ ANALOG	To select DIGITAL/ ANALOG
18 TOOLS (OPTION)	To go into the OPTION setting mode.

VCR

KEY DISPLAY	FUNCTION
9 POWER	To turn on and off.
1 11 1 - 9, 0, ENT	To change the channel. For example, to change to channel 5, press 0 and 5 (or, press 5 and ENT).
4 INFO (DISPLAY)	To expose the on-screen display.
10 TV/VIDEO (ANT/SW)	To switch the antenna output.
14 SLEEP (INPUT SELECT)	To change the input mode.
16 MENU	To call up the MENU display.
17 Δ	To move the cursor upward.
17 ∇	To move the cursor downward.
17 ▷	To move the cursor to the right.
17 ◁	To move the cursor to the left.
17 OK	To enter the selection of the MENU display.
8 ◀◀	To rewind.
8 ▶▶	To play.
8 ▶▶▶	To fast-forward.
8 REC ●	To record, press ▶ while pressing REC ●*. First release ▶, then release REC ●.
8 ■	To stop.
8	To pause.
13 CH +/-	Channel up: + Channel down: -
7 EXIT	To exit the mode.
15 RECALL (DRIVE SELECT)	To select the deck.

* In order to avoid recording by mistake, the REC ● button does not work by itself.

CBL (Cable box)

KEY DISPLAY	FUNCTION
9 POWER	To turn on and off.
1 11 1 - 9, 0, ENT	To change the channel. For example, to change to channel 5, press 0 and 5 (or, press 5 and ENT.)
13 CH +/-	Channel up : + Channel down : -
15 RECALL	To operate JUMP, FLASHBACK or CHANNEL RETURN function.

Table of Preset Functions (continued)

SAT

KEY DISPLAY	FUNCTION
9 POWER	To turn on and off.
1 11 20 1 - 9, 0, ENT, DOT	To change the channel. For example, to change to channel 5, press 0 and 5 (or, press 5 and ENT)
10 TV/VIDEO (TV/SAT)	To switch the output of the SAT receiver to the TV. (When you connect a TV cable or antenna to the receiver, the output switches between a TV and SAT program.)
4 INFO (DISPLAY)	To turn on the display.
14 SLEEP (FAVORITE)	To use the "FAVORITE" function.
12 TWIN VIEW (Station Index)	To bring up the Station Index.
6 GUIDE	To bring up Master Guide.
7 EXIT	To exit the mode.
16 MENU	To call up the MENU display.
17 Δ	To move the cursor upward.
17 ∇	To move the cursor downward.
17 ▷	To move the cursor to the right.
17 ◁	To move the cursor to the left.
17 OK	To bring up the Station Index when a program guide is not displayed. To select the channel that is highlighted.
13 CH +/-	Channel up : + Channel down : -
15 RECALL	To return to the last tuned station.
18 TOOLS (OPTION)	To go into the OPTION setting mode.

DVD

KEY DISPLAY	FUNCTION
9 POWER	To turn on and off.
1 1 - 9, 0	Number buttons: To set items selected from the screen.
20 DOT (+10)	To select numbers 10 and above.
11 ENT	To enter the setting. To set items selected from the screen.
4 INFO (DISPLAY)	To show the current play status on the screen.
6 GUIDE (CLEAR)	To clear the selected characters from the screen.
7 RETURN (EXIT)	To return to the last previous screen.
14 SLEEP (SUBTITLE)	To switch the subtitle.
16 MENU (DVD MENU)	To display the DVD menu.
17 Δ	To move the cursor upward.
17 ∇	To move the cursor downward.
17 ▷	To move the cursor to the right.
17 ◁	To move the cursor to the left.
17 OK	To execute items selected from the screen.
8 ◀◀	To rewind.
8 ▶	To play.
8 ▶▶	To fast-forward
8 REC ●	To record, press ▶ while pressing REC ●*. First release ▶, then release REC ●.
8 ■	To stop.
8	To pause.
13 ▶▶▶ (CH +)	To proceed to the next location or song. channel up
13 ◀◀◀ (CH -)	To proceed to the previous location or song. channel down
18 TOOLS (TOP MENU)	To display the DVD top menu.
15 DRIVE SELECT (RECALL)	To select the beck.

* In order to avoid recording by
mistake, the REC ● button does not
work by itself.

DVR (Digital video recorder)

KEY DISPLAY	FUNCTION
9 POWER	To turn on and off.
1 11 20 1 – 9, 0, ENT, DOT	To change the channel. For example, to change to channel 5, press 0 and 5 (or, press 5 and ENT).
10 TV/VIDEO (INPUT)	To switch the output of the SAT receiver to the TV. (When connecting a TV cable or antenna to the receiver, the output switches between a TV and SAT program).
4 INFO (DISPLAY)	To turn on the display.
7 CLEAR	To clear the setting.
6 GUIDE (EPG)	To bring up Master Guide.
8 ◀◀	To rewind.
8 ▶▶	To play.
8 ▶▶	To fast-forward.
8 REC ●	To record, press ▶ while pressing REC ● ^{*2} . First release ▶, then release REC ●.
8 ■	To stop.
8	To pause.
16 MENU	To call up the MENU display.
17 Δ	To move the cursor upward.
17 ∇	To move the cursor downward.
17 ▷	To move the cursor to the right.
17 ◁	To move the cursor to the left.
14 SLEEP (FAVORITE)	To use the “FAVORITE” function.
12 TWIN VIEW (S. INDEX)	To bring up the Station Index.
15 RECALL	To select the channel previously selected.

KEY DISPLAY	FUNCTION
17 OK	To bring up the Station Index when a program guide is not displayed. To select the channel that is highlighted.
13 CHANNEL +/-	Channel up: + Channel down: -
2 DIGITAL/ ANALOG (REPLAY ^{*1})	To replay Or to go into REC/ REVIEW mode during play (After about 5-second rewind, replay begins).

^{*1} This key corresponds to Tivo service or the replay service. Refer to its instruction manual for details.

^{*2} In order to avoid recording by mistake, the REC ● button does not work by itself.

Table of Preset Functions (continued)

CD

KEY DISPLAY	FUNCTION
9 POWER	To turn on and off.
1 1 - 9, 0	To select the track number. 0 selects track 10. To select track numbers above 10, see the descriptions on the +10 button below.
20 DOT (+10)	To select numbers 10 and above.
11 ENTER	To enter the setting.
15 RECALL (D.SKIP)	To select next disk.
8 ◀◀	To rewind.
8 ▶▶	To play.
8 ▶▶▶	To fast-forward.
8 ■	To stop.
8	To pause.
13 CH + (▶▶▶)	To select the next track.
13 CH - (◀◀◀)	To select the previous track.
4 INFO (DISPLAY)	To switch the display of the CD player to ON/OFF.
6 GUIDE (CLEAR)	To clear the setting.
18 TOOLS (PLAY MODE)	To change the play mode cyclically.

MD

KEY DISPLAY	FUNCTION
9 POWER	To turn on and off.
1 1 - 9, 0	To select the track number. 0 selects track 10. To select track numbers above 10, see the descriptions on the +10 button below.
20 DOT (+10)	To select numbers 10 and above.
11 ENTER	To enter the setting.
15 RECALL (D.SKIP)	To select the next disc.
8 ◀◀	To rewind.
8 ▶▶	To play.
8 ▶▶▶	To fast-forward.
8 REC ●	To record, press ▶▶ while pressing REC ●. First release ▶▶, then release REC ●.
8 ■	To stop.
8	To pause.
13 CH + (▶▶▶)	To select the next track.
13 CH - (◀◀◀)	To select the previous track.
4 INFO (DISPLAY)	To switch the display of the CD player to ON/OFF.
6 GUIDE (CLEAR)	To clear the setting.
18 TOOLS (PLAY MODE)	To change the play mode cyclically.
7 EXIT (REC MODE)	To toggle the recording mode.
12 TWIN VIEW (CD-SYNC)	To start synchronizing with the CD.

DAT

KEY DISPLAY	FUNCTION
9 POWER	To turn on and off.
1 1 - 9, 0	To select a program number.
11 ENTER	To enter the setting.
8 ◀◀	To rewind.
8 ▶▶	To play.
8 ▶▶▶	To fast-forward.
8 REC ●	To record, press ▶ while pressing REC ●. First release ▶, then release REC ●.
8 ■	To stop.
8	To pause.
13 CH + (▶▶▶)	To proceed to the next song.
13 CH - (◀◀◀)	To proceed to the previous song.
4 INFO (DISPLAY)	To change the display mode or turn the display on/off.

DECK

KEY DISPLAY	FUNCTION
9 POWER	To turn on and off.
8 ◀◀	To rewind.
8 ▶▶	To play.
20 DOT (◀)	To reverse.
8 ▶▶▶	To fast-forward.
8 REC ●	To record, press ▶ while pressing REC ●. First release ▶, then release REC ●.
8 ■	To stop.
8	To pause.
15 RECALL (A/B)	To select the tape deck: Deck A or B (dual cassette deck only).
7 EXIT (●)	To record, press Δ while pressing MENU. First release Δ, then release MENU.*
17 Δ (▶▶)	To play.*
17 ▽ (■)	To stop.*
17 ▷ (▶▶▶)	To fast-forward.*
17 ◁ (◀◀◀)	To rewind.*
11 ENT (◀)	To reverse.
18 TOOLS ()	To pause.*

* Activated when using a double cassette deck (for deck A of Sony component)

AMP

KEY DISPLAY	FUNCTION
9 POWER	To turn on and off.
1 1	To select the input source: VIDEO 1
1 2	To select the input source: VIDEO 2
1 3	To select the input source: AUX
1 4	To select the input source: TUNER
1 5	To select the input source: CD
1 6	To select the input source: TAPE
1 7	To select the input source: MD
1 8	To select the input source: TV
1 9	To select the input source: PHONO
1 0	To select the input source: DVD
10 TV/VIDEO (INPUT)	To change the input select cyclically.
15 RECALL (SHIFT)	To shift band or preset select.
13 CH+/-	Presetting or tuning frequency up: + Presetting or tuning frequency down: -
3 VOL +/-	Volume up: + Volume down: -
5 MUTING	To mute the volume on the AMP. Press again to turn muting off.
11 ENTER	To enter the setting.
6 GUIDE (BAND)	To select FM/AM.

Continued

Table of Preset Functions (continued)

Digital Cable Box

KEY DISPLAY	FUNCTION
9 POWER	To turn on and off.
1 11 1-9, 0, ENT	To change the channel. For example, to change to channel 5, press 0 and 5 (or, press 5 and ENT).
10 TV/VIDEO (INPUT)	Select either TV or Cable for viewing (By pass mode).
4 INFO	Calls up title bar and toggles title bar on/off.
14 SLEEP (Favorite)	To switch the "FAVORITE" TV channel list programmed by a customer to ON/OFF
6 GUIDE (EPG)	To switch the EPG display to ON/OFF.
16 MENU	To call up the MENU display.
17 Δ	To move the cursor upward.
17 ∇	To move the cursor downward.
17 ▷	To move the cursor to the right.
17 ◁	To move the cursor to the left.
17 OK	To command to execute for EPG.
13 CH + (PAGE +) CH - (PAGE -)	Channel up: + Channel down: -
15 RECALL	To toggle the current channel/the last previous channel.
7 EXIT	To exit the setting menu.
18 TOOLS (OPTION)	To display the function tag.

DAV (DVD/Receiver combo)

KEY DISPLAY	FUNCTION
9 POWER	To turn the power on/off
1 1 - 9, 0	Number buttons: To set items selected on the screen
20 DOT (+10)	To select numbers 10 and above
11 ENTER	To enter the setting
8 ◀◀	To rewind
8 ▶▶	To play
8 ▶▶▶	To fast-forward
8 REC*	To record
8 ■	To stop
8	To pause
18 TOOLS (TOP MENU)	To display the Top Menu
4 INFO (DVD DISPLAY)	To show the current play status on the screen
13 ◀◀◀	To proceed to the previous location or song
13 ▶▶▶	To proceed to the next location or song
10 INPUT (TV/VIDEO)	To change the input mode
14 SUBTITLE	To switch the subtitle
17 Δ	To move the cursor upward
17 ∇	To move the cursor downward
17 ▷	To move the cursor to the right
17 ◁	To move the cursor to the left
17 OK	To enter the selection of the MENU display
16 MENU	To call up the MENU
7 EXIT (RETURN)	To return to the previous display on the MENU
3 VOLUME +	Volume up (DAV)
3 VOLUME -	Volume down (DAV)
5 MUTING	To mute the volume. Press again to turn muting off.
6 GUIDE (CLEAR)	To clear the setting.

* To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting).

Digital TV TUNER

KEY DISPLAY	FUNCTION
9 POWER	To turn on and off.
1 11 20 1 - 9, 0, ENT, DOT	To change the channel. For example, to change to channel 5, press 0 and 5 (or, press 5 and ENT).
4 INFO (DISPLAY)	To display the current channel.
14 SLEEP (FAVORITE)	To use the "FAVORITE" function.
16 MENU	To call up the MENU display.
17 Δ	To move the cursor upward.
17 ∇	To move the cursor downward.
17 ▷	To move the cursor to the right.
17 ◁	To move the cursor to the left.
17 OK	To enter the selection of the MENU display.
13 CH +/-	Channel up: + Channel down: -
15 RECALL	To operate JUMP, FLASHBACK or CHANNEL RETURN function on the TV depending on the setting of the TV's manufacturer.
6 GUIDE (EPG)	To use the program guide.

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