

Integrated Remote Commander

Operating Instructions

RM-VL700

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-VL700 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 including Sony. You can remote control your components by setting the type and code number of each component (page 8).

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.) (See page 15.)

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 23.)

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 buttons is free). (See page 27.)

Table of Contents

Getting Started

Installing the Batteries	6
When to replace the batteries	6
Location of Controls	7

Basic Operations

Setting the Code for non-Sony Preset Audio and Visual Components — Setting component codes	8
Setting a component code	8
Checking if the code number works	10
Setting a component code by the Search function	11
Operating Your Components with the Remote Commander	12
To control the volume	13
Notes on operating your components	14
Programming signals of another remote control — Learning Function	15
For accurate Learning	18
Programming remote control signals to the Component Select buttons	19
Changing or erasing the function of a “learned” button	21
Notes on programming the signals for an air-conditioner	23

Advanced Features

Controlling the Volume of Visual Components Connected to an Audio System	24
Adding an Extra Function to the Component Select Buttons	26
Programming the Power-On Command of the Selected Component just by pressing that Component Select button (for Sony Components only)	26
Assigning Other Components to the Component Select Buttons	27
Copying the settings of a Component Select button to another button	29

Using Other Functions

Locking the Controls — Hold Function	30
Erasing all settings — To reset the Commander to its factory settings	31

Additional Information

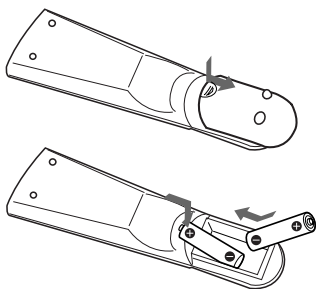
Precautions	32
Specifications	32
Troubleshooting	33

Appendix

Table of Preset Functions	35
TV	35
VCR	36
CBL (Cable box)	36
SAT	37
DVD	37
CD	38
MD	38
DAT	38
DECK	38
AMP	39
Digital Cable Box	39
Index	Back cover

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-and-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.

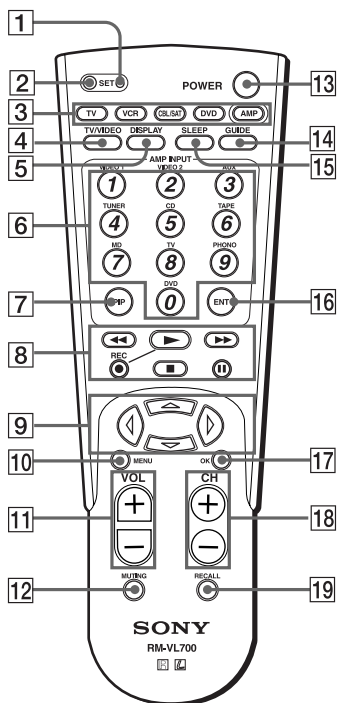
Note

Do not take more than one hour to replace the batteries. Otherwise, your setting of the code numbers (page 8) and "learned" remote control signals (page 15) 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 the electrolyte from leaking, remove the batteries when 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 TV/VIDEO button
- 5 DISPLAY button
- 6 Number buttons
- 7 PIP button
- 8 Player Control buttons
- 9 Cursor Control buttons
- 10 MENU button
- 11 VOL +/- buttons*
- 12 MUTING button*
- 13 POWER button
- 14 GUIDE button
- 15 SLEEP button
- 16 ENT (enter) button
- 17 OK button
- 18 CH (channel) +/- buttons
- 19 RECALL button

* 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 also (page 24.)

Note

The function of the control buttons varies depending on settings/operating modes. The "Table of Preset Functions" (page 35) 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.

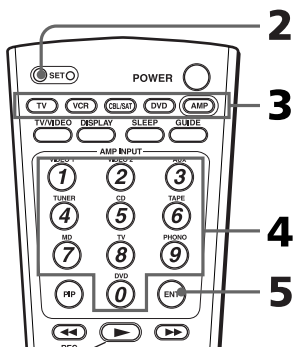
Component Select Button	Preset component(s)	Factory setting
TV	TV TV/VCR Combo	Sony TV
VCR	VCR	Sony VHS VCR
CBL/SAT	Cable box	
DVD	DVD player	Sony DVD player
AMP	Amplifier	Sony amplifier

Note

A CD player, an MD player and a cassette deck 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 27).

For the functions of buttons as for each component, see "Table of Preset Functions" (page 35).

Setting a component code



Example: To set up a Philips' TV

- 1 See the tables in the supplied "Component Code Numbers", and find the three-digit code number for the desired component.

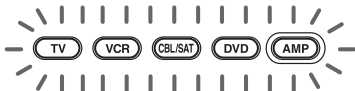
If more than one code number is listed, use the number that is listed first.

For example, to set up a Philips' TV, you would use the code number 056.

- 2 Press SET.



All Component Select buttons flash.



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



The selected Component button lights up, and all other buttons turn off.



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



-
- 5** Press ENT.

The Component Select 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 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 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.

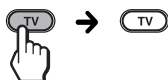
Setting the Code for non-Sony Preset Audio and Visual Components (continued)

Checking if the code number works

1 Power on the component with its power switch.

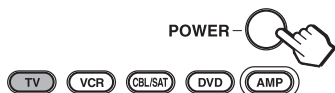
2 Press the corresponding Component Select button for the component you have set up.

The Component 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 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 12 for details.

If the Commander does not seem to be working

Try repeating the setup procedures using the other codes listed for your component, or try setting the code number using the Search function (page 11).

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 15), 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 21).

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.

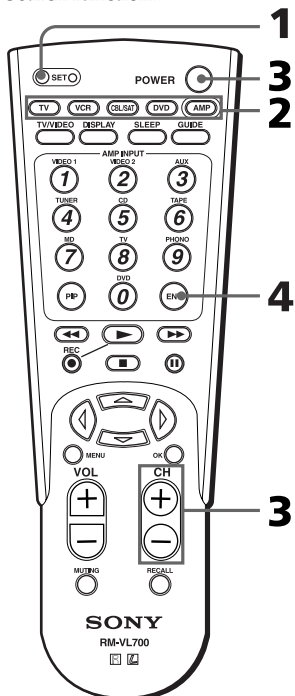
TV: Power-on

VCR, CBL/SAT, DVD, AMP:

Power-off

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

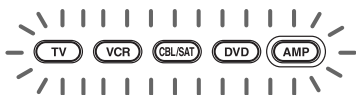
* If any of these components are assigned to any of the Component Select buttons (page 27), you can set a component code using the Search function.



- 1 Press SET.



All Component Select buttons flash.



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



The selected Component button lights up, and all other buttons turn off.



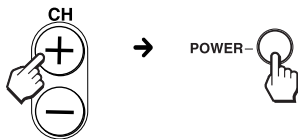
- 3 Press CH + or CH - and POWER in turn until the component reacts as described in the following.

TV: Powers off

VCR, CBL/SAT, 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 button flashes three times after the numbers have turned one cycle.

Continued

Setting a component code by the Search function (continued)

4 Press ENT.



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 10.

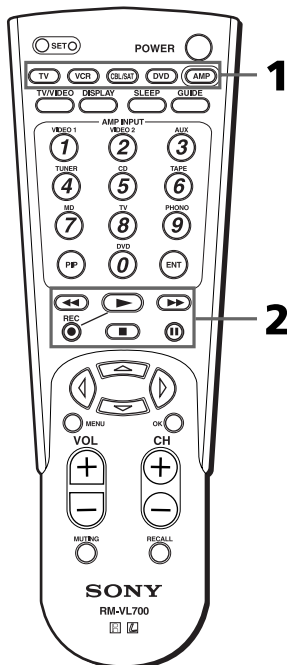
Notes

- 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.

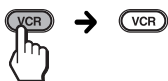
Operating Your Components with the Remote Commander

When you operate a non-Sony component, make sure you set the component code first (page 8).



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 35) 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 (see page 15). 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 lights up), and when you select an audio component, the amplifier's volume will be controlled (AMP lights up). You can change this setting also (page 24).

Notes

- If you used the Learning function (page 15) to program the VOL +/- or MUTING buttons 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 15) to program the VOL +/- or MUTING buttons for the TV or AMP 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 27), the volume of the TV or amplifier cannot be controlled even if you select another component.

Notes on operating your components

About the input select of a TV

Each time TV/VIDEO is pressed, the input is changed in order. It is also possible to select directly by pressing one of following Number buttons while holding TV/VIDEO pressed when more than two VCRs are connecting.

"TV/VIDEO" + "0" : TV tuner

"TV/VIDEO" + "1" : VIDEO1

"TV/VIDEO" + "2" : VIDEO2

"TV/VIDEO" + "3" : VIDEO3

"TV/VIDEO" + "4" : VIDEO4

"TV/VIDEO" + "5" : VIDEO5

"TV/VIDEO" + "6" : VIDEO6

If the above operations do not work, program the remote control signals of your component in to the Commander using the Learning function (page 15).

About the input select of a VCR (only for Sony VCR)

Each time TV/VIDEO is pressed, the input is changed in order. It is also possible to select directly by pressing one of following Number buttons while holding TV/VIDEO pressed.

"TV/VIDEO" + "0" : Tuner

"TV/VIDEO" + "1" : LINE1

"TV/VIDEO" + "2" : LINE2

"TV/VIDEO" + "3" : LINE3

"TV/VIDEO" + "4" : LINE4

"TV/VIDEO" + "5" : DV in

When you use a Sony VCR, the above commands are preset. For other brands, it is possible to "teach" the above sequential button operations using the Learning function (see page 15).

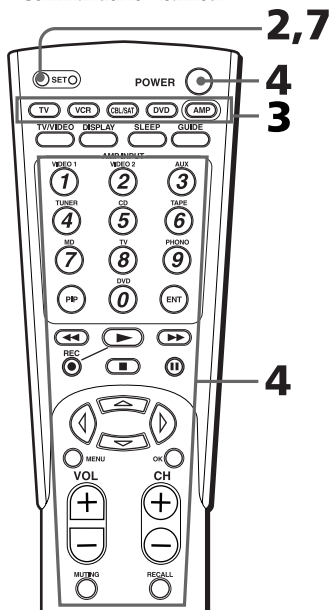
Programming signals of another remote control — Learning Function

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 or 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 8).

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

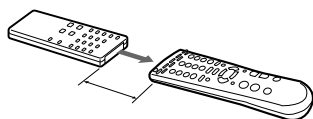
- Some specific remote control signals may not be “learned.”
- You can also use a display monitor for computer display (including a built-in tuner type), if the Commander is “learned.”



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

- 1 Place the RM-VL700 head to head with your component's remote control.

Remote control for your component



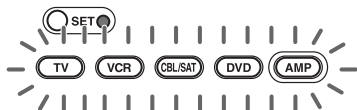
about 2 – 4 inches
(5 – 10 cm) away

RM-VL700

- 2 Press and hold SET for over 3 seconds.



The SET indicator lights up, and all Component Select buttons flash.



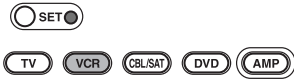
Continued

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

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



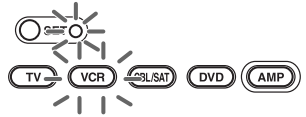
Both the SET indicator and the selected Component Select button light up, and all other buttons turn off.



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



Both the SET indicator and the selected Component Select button flash (Learning function standby).



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

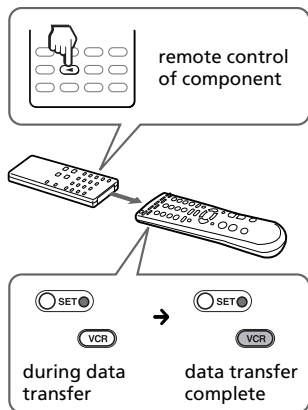
The SET indicator flashes twice, and the Commander takes no action returning to its state after the Component Select button was pressed in Step 3.

Either “teach” to another free button, or clear the already “learned” function (page 21) and start over from the beginning.

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 15, 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.

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.

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

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 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 23.

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 30). 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

You can “teach” one operating procedure to a Component Select button, so that when you press the Component Select button, 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, an amplifier should first be turned on.)

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

-
- 1 Follow Steps 1 to 2 (page 15).

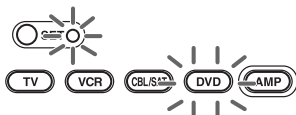
- 2 Press and hold the Component Select button for the component whose signals are to be “learned” for over 3 seconds.



SET and all other Component Select buttons light.



Both the SET indicator and the selected Component Select button flash (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 SET was pressed and held in Step 2. Either “teach” to another free button, or clear the already “learned” function (page 21) and start over from the beginning.

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

- 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

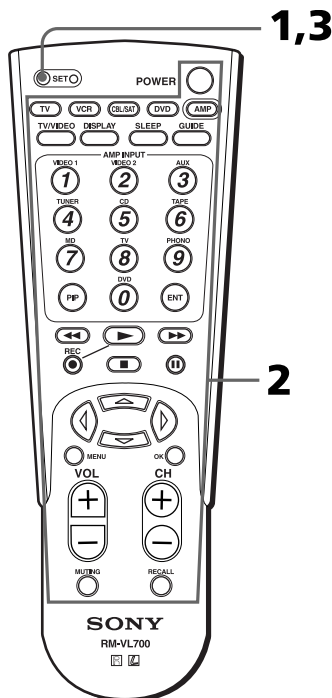
- If you do not perform Learning steps within 20 seconds at any point during the process, Learning mode ends.
- If you do not perform Step 3 within 10 seconds after Step 2, the Learning procedure returns to Step 1. Repeat from Step 2 while the Component Select button lights.

To cancel “learning,” press SET.

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

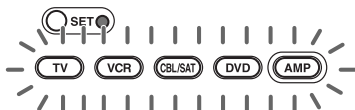


Example: To erase the "learned" function from the Number button 1 in VCR mode

- 1 Press and hold SET for over 3 seconds.



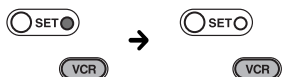
The SET indicator lights up, and all Component Select buttons flash.



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



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



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.

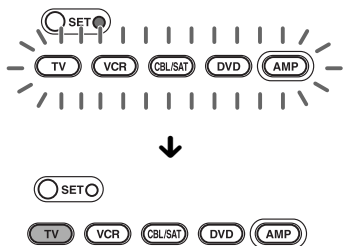
To cancel erasing, press SET.

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

To erase the learned function of the Component Select button that is TV, VCR, CBL/SAT, DVD or AMP

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

While holding SET pressed for over 3 seconds, press and hold the Component Select button you want to erase for a while.



The SET indicator turns off, and the Selected Component Select button lights up.

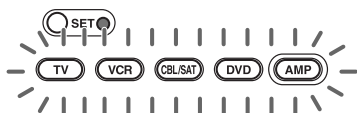
To clear all function signals “learned” for a specific Component Select button

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

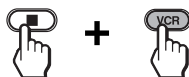
- 1 Press and hold SET for over 3 seconds.



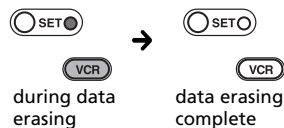
The SET indicator lights up, and all Component Select buttons flash.



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



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



Note

With this operation, you can only erase the “learned” functions of all buttons for a specific component.

- 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.
- 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.

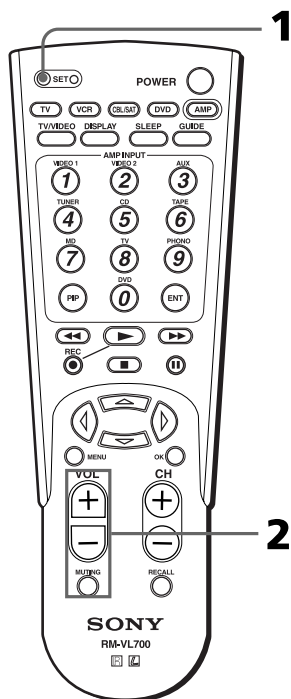
For example, to control the volume while using a VCR, you don't need to press the TV button to control the TV volume.

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/SAT	TV
DVD	TV
AMP	amplifier

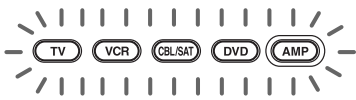
However, if your visual components are connected to an audio system, you may want to hear TV or VCR sound from the loudspeakers via your amplifier, not from your TV speakers. In this case, you need to change the factory preset so that you can control the volume of your visual components without first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

To change the Factory Preset of the Volume Control



1 Press SET.

All Component Select buttons flash.



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.

When you press VOL+ holding MUTING pressed.



The buttons turn off when you release them.

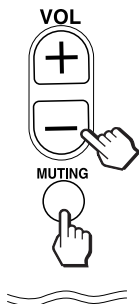
Volume control setting complete.

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.

When you press VOL- holding MUTING pressed.



The buttons turn off when you release them.

Volume control setting complete.

Visual components are:

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

Audio components are:

CD player, MD player, cassette deck, amplifier

To cancel setting, press SET.

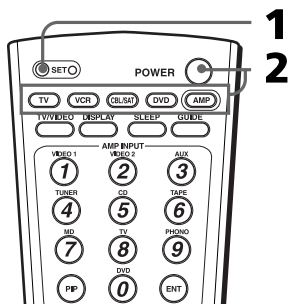
Note

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)

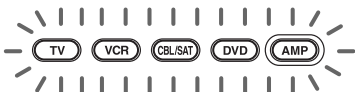
When using Sony components, you can program the Power-On signal for each component on a Component Select button. You can select the desired component and power it on by just pressing that Component Select button.



Example: To program the TV button

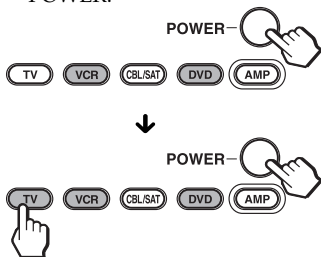
1 Press SET.

All Component Select buttons flash.



- 2 While holding POWER pressed, press the desired Component Select button. When you first press POWER, only the Component Select buttons that have already been set with the Power-On command light up.

Example: If the Power-On command has been programmed on the VCR and DVD buttons, these buttons light up when you first press POWER.



To cancel setting, press SET.

To clear the Power-On command

Repeat the same procedure, pressing the desired Component Select button that lights up when you press POWER.

Notes

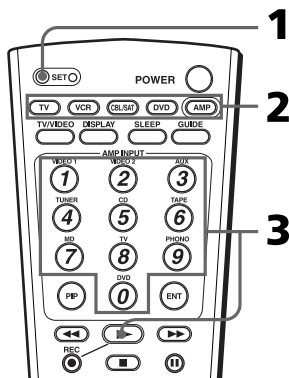
- If the component code of a non-Sony brand has been set on a Component Select button, you cannot program the Power-On function on it. If you change the component code (page 8) after setting the Power-On function, the Power-On function is cleared.
- Even if you used the Learning function (page 15) to 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.

Assigning Other Components to the Component Select Buttons

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

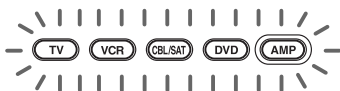
Notes

- Once you assign another component to a Component Select button, the setting of the component code number will be erased. The component code number will not return even if you reset the newly assigned component and turn back to the original component. To use the original component setting, set the component code number again (page 8).
- If you have assigned another component to the TV or AMP button, the volume of the TV or amplifier (page 13,24) cannot be controlled even when you select other components.
- If you have already programmed any remote control signals on the Component Select buttons using the Learning function, you cannot assign other components to the Component Select buttons.



Example: To assign a CD player to the CBL/SAT button

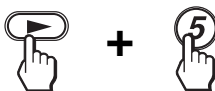
- 1 Press SET.
All Component Select buttons flash.



- 2 Press the Component Select button to which you want to assign a function.
The selected Component Select button lights up.

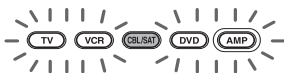


- 3 While holding pressed, press one of the following Number buttons to select the one to which you want to assign the function.
In this example, press the Number 5 button to select CD.



The Component Select buttons change as follows, and assigning to the selected Component Select button will be set.

when is pressed



when + 5 are pressed



when the buttons are released



Continued

Assigning Other Components to the Component Select Buttons (continued)

Each component is assigned to the Number Buttons as follows.

1: VCR	7: MD
3: SAT	8: TV
4: AMP	9: CBL
5: CD	0: DVD
6: TAPE	

To assign a digital cable box, select the Number button 3(SAT).

Notes

- In this step, only the factory-set function is assigned. Other newly “learned” functions (page 15) are not assigned.
- If a component to be assigned has any “learned” signals, the indicator SET flashes twice. Then setting cannot be performed. In this case, clear the “learned” signals and follow Steps 1 - 3 again, or select another Component Select button which is not assigned to “learned” keys or buttons.
- You can copy the “learned” remote control signals of a Component Select button to another button (page 29).

-
- 4** • If you need to set the component code, follow the steps on pages 8 to 9.
- If you need to program some signals by the Learning function, follow the Steps 1 and 3 to 7 on pages 15 to 17.
-

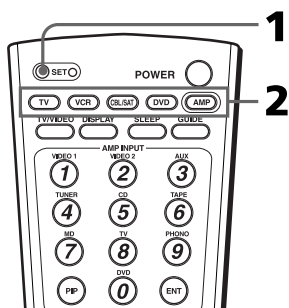
To cancel setting, press SET.

To reset a Component Select button to its original setting

Perform the setting of the original component following the procedure on page 27. Note however if the original component has any “learned” signals, setting cannot be performed.

Copying the settings of a Component Select button to another button

You can copy the entire settings of a Component Select button to another Component Select button. The settings of the component code (page 8) and the “learned” function (page 15) are copied to a new button.



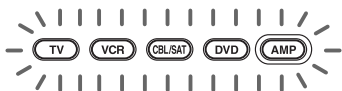
Note

You cannot copy the settings to a Component Select button on which any “learned” function (page 15) has been programmed.

Example: To copy the settings of the DVD button to the TV button

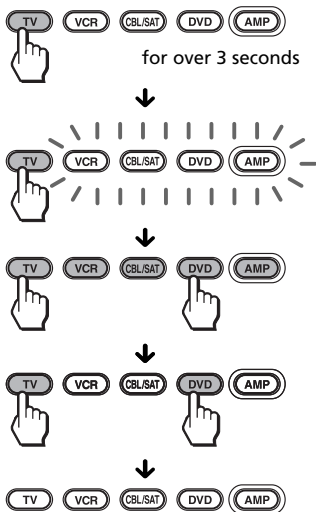
1 Press SET.

All Component Select buttons flash.



2 Press and hold for over 3 seconds the desired Component Select button to which you want to copy a setting from another component.

While holding down this button, the other Component Select buttons flash. Then, when you press the Component Select button which holds the setting you want to copy, all Component Select buttons light up. When copying is complete, any Component Select buttons other than the two buttons pressed, turn off.



To cancel setting, press SET.

To return the setting of the Component Select button to the original component setting

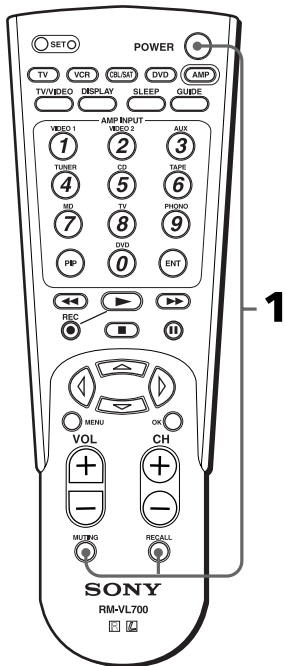
Clear the “learned” function (page 21) and perform the original component setting following the procedure on page 27.

Tip

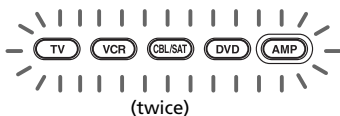
Small data will be processed soon.

Locking the Controls — Hold Function

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



While the Hold function is on, no function can be operated. (All Component Select buttons flash twice.)



To unlock the control

Press the same three buttons in the same order as the former procedure.

The SET indicator flashes twice, and the Hold function is disabled.



1 While holding POWER pressed, press MUTING and RECALL.

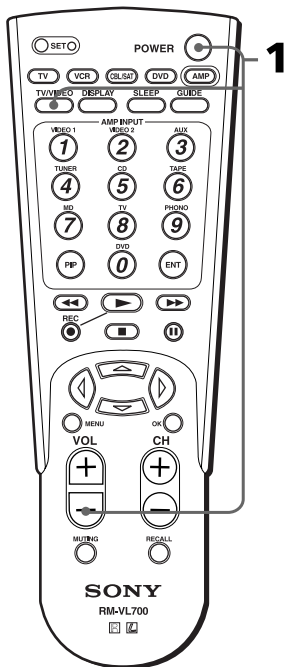


The SET indicator flashes once, and the Hold function is set.

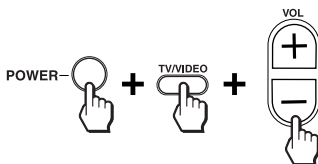


Erasing all settings — To reset the Commander to its factory settings

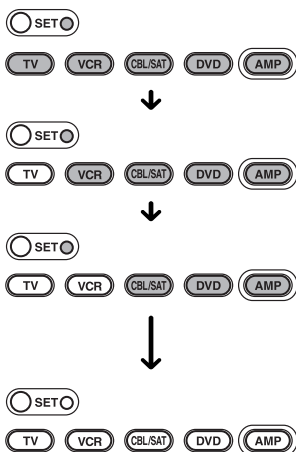
You can erase all remote control signals programmed by the “learned” function to reset the Commander to its factory settings.



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



The SET indicator and all Component Select buttons light up. Then the Component Select buttons turn off one by one from the left, followed by the SET indicator. When the SET indicator turns off at last, all settings are cleared, and 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.

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. 6 months (varies depending on frequency of use)

Dimensions

Approx. $2\frac{1}{2} \times 7\frac{7}{8} \times 1\frac{5}{16}$ in. (63 × 197 × 32 mm) (w × h × d)

Mass

3.7 oz (105 g) (not including batteries)

Design and specifications are subject to change without notice.

* The operating distance maybe different depending on the brand or the component to be used.



The CE mark on the unit is valid only for products marketed in the European Union.

Troubleshooting

If you have problems setting up or using the Remote Commander, first check the batteries (page 6), then check the items below.

Symptom	Remedy
You cannot operate the components.	<ul style="list-style-type: none">• Go 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./SAT, 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 on 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've set up the Commander as described in "Controlling the Volume of Visual Components Connected to an Audio System" (page 24).• You have assigned another component on the TV or AMP button (page 27). In this case, the volume cannot be controlled when you select components other than TV or AMP.
You cannot operate the components 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 doesn't 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 15).• 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 11) 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. other rooms, 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 18) and try the Learning procedure again (page 15).

Troubleshooting (continued)

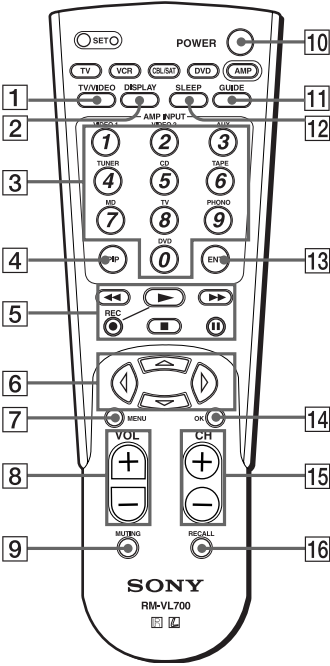
Symptom	Remedy
The SET indicator flashes five times during the Learning procedure.	<ul style="list-style-type: none">• Learning has not succeeded. See “For accurate Learning” (page 18) and try the Learning procedure again (page 15).• Clear infrequently used Learned functions (page 21), then carry out learning operations.
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 8).
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 15). Clear the “learned” signals (page 21) 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 30).
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.

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

KEY DISPLAY	FUNCTION
10 POWER	To turn on and off.
3 13 1 - 9, 0, ENT	To change the channel. For example, to change to channel 5, press 0 and 5 (or, press 5 and ENT).
11 V / VIDEO	To change the input mode.
2 DISPLAY	To display the current channel on TV.
12 SLEEP	To operate SLEEP function on the TV (works only for a TV with SLEEP function).
11 GUIDE (PIP OFF)	To turn off the "window" picture.
7 MENU	To call up the MENU display.

KEY DISPLAY	FUNCTION
6 Δ	To move the cursor upward.
6 ∇	To move the cursor downward.
6 ▷	To move the cursor to the right.
6 ◁	To move the cursor to the left.
14 OK	To enter the selection of the MENU display.
4 PIP	To turn on/off the "window" picture.*
5 ►► (PIP CH +)	To change the TV channel + in the "window" picture.
5 ◄◄ (PIP CH -)	To change the TV channel - in the "window" picture.
5 REC ● (PIP INPUT)	To change the input mode of the "window" picture.
5 (PIP STILL)	To freeze the "window" picture.
5 ► (PIP SWAP)	To swap the "main" picture and the "window" picture.
5 ■ (PIP MOVE)	To move the location of the "window" picture.
15 CH +/-	Channel up: + Channel down: -
16 RECALL	To operate JUMP, FLASHBACK or CHANNEL RETURN function on the TV depending on the setting of the TV's manufacturer.
8 VOL +/-	Volume up: + Volume down: -
9 MUTING	To mute the volume on the TV. Press again to turn muting off.

Continued

Table of Preset Functions (continued)

VCR

KEY DISPLAY	FUNCTION
10 POWER	To turn on and off.
3 1 β 1 - 9, 0, ENT	To change the channel. For example, to change to channel 5, press 0 and 5 (or, press 5 and ENT).
2 DISPLAY	To expose the on-screen display.
1 TV/VIDEO (ANT/SW)	To switch the antenna output.
1 2 SLEEP (INPUT SELECT)	To change the input mode.
7 MENU	To call up the MENU display.
6 Δ	To move the cursor upward.
6 ∇	To move the cursor downward.
6 ▷	To move the cursor to the right.
6 ◁	To move the cursor to the left.
14 OK	To enter the selection of the MENU display.
5 ◀◀	To rewind.
5 ▶▶	To play.
5 ▶▶▶	To fast-forward.
5 REC ●	To record, press ▶▶▶ while pressing REC ● ** . First release ▶▶▶ , then release REC ●.
5 ■	To stop.
5 	To pause.
15 CH +/-	Channel up: + Channel down: -

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

CBL (Cable box)

KEY DISPLAY	FUNCTION
10 POWER	To turn on and off.
3 1 β 1 - 9, 0, ENT	To change the channel. For example, to change to channel 5, press 0 and 5 (or, press 5 and ENT.)
15 CH +/-	Channel up : + Channel down : -
16 RECALL	To operate JUMP, FLASHBACK or CHANNEL RETURN function.

SAT

KEY DISPLAY	FUNCTION
10 POWER	To turn on and off.
3 1 3 1 - 9, 0, ENT	To change the channel. For example, to change to channel 5, press 0 and 5 (or, press 5 and ENT)
11 V / VIDEO	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.)
2 DISPLAY	To turn on the display.
4 PIP (FAVORITE)	To use the "FAVORITE" function.
12 SLEEP (Station Index)	To bring up the Station Index.
11 GUIDE	To bring up Master Guide.
5 ► (EXIT)	To exit the mode.
7 MENU	To call up the MENU display.
6 ▲	To move the cursor upward.
6 ▼	To move the cursor downward.
6 ▷	To move the cursor to the right.
6 ◁	To move the cursor to the left.
14 OK	To bring up the Station Index when a program guide is not displayed. To select the channel that is highlighted.
15 CH +/-	Channel up : + Channel down : -
16 RECALL	To return to the last tuned station

DVD

KEY DISPLAY	FUNCTION
10 POWER	To turn on and off.
3 1 - 9, 0	Number buttons: To set items selected from the screen.
4 PIP (+10)	To select numbers 10 and above.
13 ENT	To enter the setting. To set items selected from the screen.
11 TV / VIDEO (AUDIO)	To change the sound.
2 DISPLAY	To show the current play status on the screen.
11 GUIDE (CLEAR)	To clear the selected characters from the screen.
16 RECALL (RETURN)	To return to the last previous screen.
5 REC ● (TITLE)	To display the title menu.
12 SLEEP (SUBTITLE)	To switch the subtitle.
7 MENU (DVD MENU)	To display the DVD menu.
6 ▲	To move the cursor upward.
6 ▼	To move the cursor downward.
6 ▷	To move the cursor to the right.
6 ◁	To move the cursor to the left.
14 OK	To execute items selected from the screen.
5 ◀◀	To rewind.
5 ►	To play.
5 ►►	To fast-forward
5 ■	To stop.
5	To pause.
15 CH + (►►►)	To proceed to the next location or song.
15 CH - (◀◀◀)	To proceed to the previous location or song.

Continued

Table of Preset Functions (continued)

CD

KEY DISPLAY	FUNCTION
10 POWER	To turn on and off.
3 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.
4 PIP (+10)	To select numbers 10 and above.
13 ENT	To enter the setting.
16 RECALL (D.SKIP)	To select next disk.
5 ◀◀	To rewind.
5 ▶	To play.
5 ▶▶	To fast-forward.
5 ■	To stop.
5	To pause.
13 CH + (▶▶▶)	To select the next track.
13 CH - (◀◀◀)	To select the previous track.

MD

KEY DISPLAY	FUNCTION
10 POWER	To turn on and off.
3 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.
4 PIP (+10)	To select numbers 10 and above.
13 ENT	To enter the setting.
16 RECALL (D.SKIP)	To select the next disc.
5 ◀◀	To rewind.
5 ▶	To play.
5 ▶▶	To fast-forward.
5 REC ●	To record, press ▶ while pressing REC ●. First release ▶, then release REC ●.
5 ■	To stop.
5	To pause.
13 CH + (▶▶▶)	To select the next track.
13 CH - (◀◀◀)	To select the previous track.

DAT

KEY DISPLAY	FUNCTION
10 POWER	To turn on and off.
3 1 - 9, 0	To select a program number.
13 ENT	To enter the setting.
5 ◀◀	To rewind.
5 ▶	To play.
5 ▶▶	To fast-forward.
5 REC ●	To record, press ▶ while pressing REC ●. First release ▶, then release REC ●.
5 ■	To stop.
5	To pause.
13 CH + (▶▶▶)	To proceed to the next song.
13 CH - (◀◀◀)	To proceed to the previous song.

DECK

KEY DISPLAY	FUNCTION
10 POWER	To turn on and off.
5 ◀◀	To rewind.
5 ▶	To play.
4 PIP (◀)	To reverse.
5 ▶▶	To fast-forward.
5 REC ●	To record, press ▶ while pressing REC ●. First release ▶, then release REC ●.
5 ■	To stop.
5	To pause.
16 RECALL (A/B)	To select the tape deck : Deck A or B (dual cassette deck only).
7 MENU (●)	To record, press Δ while pressing MENU. First release Δ, then release MENU.*
6 Δ (▶)	To play.*
6 ▽ (■)	To stop.*
6 ▷ (▶▶)	To fast-forward.*
6 ◀ (◀◀)	To rewind.*
13 ENT (◀)	To reverse.
14 OK ()	To pause.*

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

AMP

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

Digital Cable Box

KEY DISPLAY	FUNCTION
10 POWER	To turn on and off.
3 1 8 9, 0, ENT	To change the channel. For example, to change to channel 5, press 0 and 5 (or, press 5 and ENTER).
1 1 V / VIDEO (INPUT) **Thumbs Up	Select either TV or Cable for viewing (By pass mode).
2 1 DISPLAY **Thumbs Down	Alls up title bar and toggles title bar on/off.
4 PIP (Favorite)	To switch the "FAVORITE" TV channel list programmed by a customer to ON/OFF
1 2 SLEEP (Exit/Clear)	To return to the TV screen from the html screen or the E-mail screen, etc.
1 1 GUIDE (EPG) **Live TV	To switch the EPG display to ON/OFF.
7 MENU **TiVo	To call up the MENU display.
6 Δ	To move the cursor upward.
6 ∇	To move the cursor downward.
6 ▷	To move the cursor to the right.
6 ◁	To move the cursor to the left.
1 4 OK	To command to execute for EPG.
1 5 CH + (PAGE +) CH - (PAGE -)	Channel up: + Channel down: -
1 6 RECALL	To toggle the current channel/the last previous channel.
5 ◀◀	*To rewind
5 ▶	*To play
5 ▶▶	*To fast-forward
5 ● REC (REC ON/OFF)	*To record, press ▶ while pressing REC. First release ▶, then release REC.
5 ■	*To stop
5	*To pause

* The operation is possible when using the built-in HDD type STB or in Video-on-demand mode.

**This key display corresponds to TiVo service or the replay service. Refer to its instruction manual for details.

Index

A, B

Batteries 6

C, D

Changing 21

CH (CHANNEL) button 11

Clearing/Changing

learned signal 21, 22

Power-On command 26

Code number 8, 11

Component Select buttons

assigning other components 27

copying settings 29

programming a signal 15

setting Power-On function 26

Copying

settings of Component Select

buttons 29

E

Erasing 31

F, G, H

Factory setting 28, 31

I, J, K

Input select 14

L

Learning Function 15

Locking control of Commander 30

M

MUTING button 10, 13, 18, 25, 30

N, O

Number buttons 9, 14, 21, 27

P, Q, R, S

Power-On function

setting 26

Preset components 8

T, U

Troubleshooting 33

V, W, X, Y, Z

VOL buttons 10, 13, 17, 18, 25, 31

Volume Control 10, 13, 24