

For the customers in the U.S.A.

WARNING

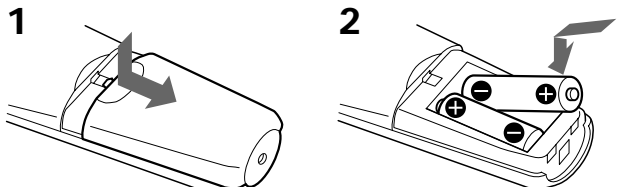
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate 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.

Installing the Batteries

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



When to replace the batteries

Under normal conditions, batteries will last up to six months. If the Commander does not operate properly, the batteries might be worn out. Replace the batteries with new ones.

Notes

- Replace both batteries with new ones.
- Do not take more than 20 minutes to replace the batteries; otherwise, your setting of the code numbers will be erased.

Notes on Batteries

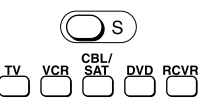
- Do not mix old batteries with new ones or mix different types of batteries together.
- If the electrolyte inside the battery should leak, wipe the contaminated area of the battery compartment with a cloth and replace the old batteries with new ones. To prevent the electrolyte from leaking, remove the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

Setting the Code

Follow the steps 1 and 2 below for each component you plan to use with the Commander.

Step 1: Entering the Code Number

- 1 See 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's listed first to complete the steps below. For example, if you're setting up a Philips' VCR, you would use the code number 035. If your component isn't listed, see "Searching for the Correct Code."
- 2 Press and release the S (set) button.
- 3 Press the button of the component that you want to set up.



Note

On the CBL/SAT, RCVR, and DVD buttons, "cable box", "receiver", and "DVD player" are assigned respectively at the factory. But you can also assign other components on these buttons. For details, see "Changing the Component Type on the CBL/SAT, RCVR, and DVD buttons."

- 4 Enter the component's code number. For example, if you're entering the code for a Philips VCR, you would press ① ③ ⑤.



Your Code Number

- 5 Press and release the ENT button to store the code number in the Commander's memory.



- 6 Go to "Step 2: Checking if the Code Number Works" to finish setting up.

If you press a wrong button in step 4

Press and release the S (set) button and then go back to step 3.

Step 2: Checking if the Code Number Works

- 1 Power on the component you want to set up.
- 2 Aim the Remote Commander at the component and press a button to check if that button works. For example, press the POWER button to see if it works on your component.
- 3 Check that the other buttons of the Commander is operating the corresponding functions of the component.

If the Commander Doesn't Seem to Be Working...

- First, try repeating these setup procedures using the other codes listed for your component (see the supplied "Component Code Numbers").
- If - after trying all the codes listed for your component - you still cannot get the Commander to work properly, try the search method described in "Searching for the Correct Code."

Tip

You can write down the code number on the label inside the battery compartment lid.

Searching for the Correct Code

If you've tried all the code numbers listed for your component and you still cannot get the Commander to work (or if your component is not listed in the "Component Code Numbers" tables), try these steps.

- 1 Power on the component you want to set up. Insert a tape or disc if necessary.
- 2 Press and release the S (set) button.
- 3 Press the button of the component on the Commander that you want to set up.
- 4 Press and release the CH+ button. Then press and release the POWER button.
- 5 Repeat step 4 until the correct code number is found. Each time you press the CH+ button and then the POWER button, a new code number will be transmitted. Keep trying until your component operates by receiving the transmitted signal from the Commander (e.g., the power turns off, the CH+ function works, playback starts, etc.) Be patient as you do this; it may take about 100 tries until the correct code number is located.
- 6 When the correct code is found, press the ENT button to store the code number in the Commander's memory.
- 7 Check that the Commander is operating the other functions of your component by pressing the corresponding buttons on the Commander. If they seem to be working properly, you're done setting up the Commander.

If the component does not operate properly, repeat steps 1 to 6 and search for another code.

If you still cannot get the Commander to work properly, see "Troubleshooting."

Changing the Component Type on the CBL/SAT, RCVR, and DVD buttons

At the factory, "cable box" is assigned on the CBL/SAT button, "receiver" on the RCVR button, and "DVD player" on the DVD button. By completing the following procedure, you can change this setting so that you can set up any component on these buttons.

- 1 Press the S (set) button and release it.
- 2 Press the CBL/SAT, RCVR, or DVD button.
- 3 Press and release the ■ (stop) button.

- 4 Press and release one of the following buttons:
 - ① to assign a VCR
 - ② to assign a digital satellite receiver
 - ③ to assign a receiver
 - ④ to assign a CD player
 - ⑤ to assign a tape deck
 - ⑦ to assign an MD deck or a DAT deck
 - ⑧ to assign a TV
 - ⑨ to assign a cable box
 - ⑩ to assign a DVD player

- 5 Press and release the ENT button.

- 6 Enter the component's code number by following steps 2 to 6 of "Entering the Code Number", or steps 1 to 7 of "Searching for the Correct Code."

Controlling the Volume of Video Components Connected to an Audio System

The Commander is factory preset based on the assumption that you hear the sound of your video components from your TV's speakers, and that you hear the sound of your audio components from the loudspeakers connected to your receiver (or amplifier).

Factory Setting:

Button	Controls the volume of
TV	TV
VCR, CBL/SAT*, DVD*	TV
RCVR	Receiver (or amplifier)

* If you assign an audio component on the CBL/SAT or DVD button, you can control the volume of the receiver (or amplifier) on the RCVR button. If you assign video components on these buttons, you can control the volume of the TV.

Thus you can control the volume of your TV or receiver (or amplifier) while operating a video or audio component without first having to press the TV or RCVR button. For example, to control the volume for your VCR channels, you don't need to press the TV button first.

However, if your video components are connected to an audio system, you probably hear your TV's or VCR's sound from the loudspeakers connected to your receiver (or amplifier), not from your TV speakers. In this case, you need to change the factory setting so that you can control the volume of your video components without first having to switch to the receiver (or amplifier). To change the factory setting for the volume control, follow the procedures below.

Note

This feature is effective only when a receiver or amplifier is set up on the RCVR button. You cannot control the volume of a receiver (or amplifier) set up on CBL/SAT or DVD button while operating a component of another button.

Changing the Factory Setting for the Volume Control

- 1 Press and release the S (set) button.
- 2 Press the RCVR button.
- 3 Press the VOL+ button.
- 4 Press the ENT button.

The volume control setting is changed to "receiver/amplifier." You can control the volume of the receiver (or amplifier) of the RCVR button while selecting any component.

Notes

- If you are using more than one receiver (or amplifier) and have set it on the CBL/SAT or DVD button, when selecting these buttons you cannot control the volume of the receiver (or amplifier) of the RCVR button.

• If you change the setting of the RCVR button to a component other than a receiver or amplifier, the volume control setting of video components will return to "TV" even if you have changed the factory preset volume control. In this case, you will not be able to control the volume from audio components other than a receiver or amplifier.

To reset to factory preset volume control

In step 3 above, press VOL- instead.

Operating a Component

- 1 Press the button of the desired component on the Commander.

TV	VCR	CBL/SAT	DVD	RCVR
- 2 Point the Commander directly at the component.
- 3 Press the button for the function you want to use.

See "Remote Button Descriptions" for complete descriptions of the buttons on the Commander.

Notes on Using the Remote Commander

- Basically, use this Commander in the same way as the Commanders supplied with your components.
- Using this Commander will not increase the functions of your components. The functions of the Commander are limited to the functions of the components themselves. For example, if your TV does not have a MUTING function, the MUTING button on this Commander will not function with your TV.
- Some functions of the component may not work with this Commander.
- If your cable box can control volume, be sure to set its volume switch to a medium position. If the volume on the cable box is turned down completely, you will not be able to adjust your TV's volume with the Commander.

Setting a channel with a single button (Channel Macro function)

You can program the Channel Macro function on any of the buttons listed below (macro keys). For example, instead of pressing ①, ②, and then ENT button to change the TV channel, you can perform these operations by pressing only the ► button.

The macro keys are: ►, ◀◀, ►►, ■, II, and ●REC. (During TV, cable box, or digital satellite receiver operations only.)

The series of operations that can be programmed must be consisted of two to four sequential pressings of ① to ⑩ buttons or ENT button.

Note

The Channel Macro function may not work correctly for some components.

To program a series of operations

- 1 Press the desired component select button. (You can select "TV", "cable box", or "digital satellite receiver" only.)
- 2 While pressing the desired macro key, press the buttons required for the operations in sequence. For example, to program ① → ② → ENT on the ► button, hold down ► first, press ①, ②, and ENT in sequence, and then release ►.

Notes

- Even if you try to program more than four operations and press the corresponding buttons in step 2 above, only the first four buttons that were pressed will be programmed.
- If you try to program only one operation on a macro key, the setting operation will be rejected.
- You can program the Channel Macro function for up to three components only. To program for the fourth component, first clear all macro keys for a component.

To change or clear the program

When you want to change the setting or if you are no longer using that programmed operation, follow the procedure below to overwrite or clear the program.

- 1 Hold down the macro key that you want to change or clear.
- 2 After waiting for about three seconds, press the new sequence of buttons, or, to clear the program, press and release ①, and then press and release ENT.
- 3 Release the macro key.

Note

Be sure to wait for about three seconds in step 2 above. While you are holding down the macro key and waiting, the programmed signals are transmitted; therefore, if you are aiming the Commander at your component, the programmed operations may be performed before you go on with the procedure.

Troubleshooting

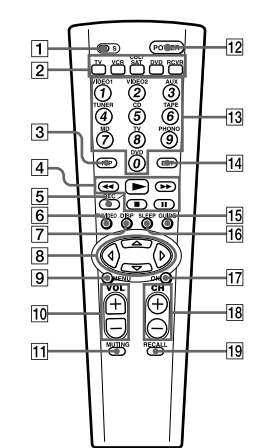
- If you have problems setting up or using the Commander:
- When setting up the Commander, carefully go through the procedures described in "Setting the Code." If the code that's listed first for your component doesn't work, try all the codes for your component - in the order in which they're listed. If all the codes fail to work (or if your component is not listed in this manual), try using the procedures in "Searching for the Correct Code."
 - Check that you're aiming the Commander directly at the component, and that there are no obstructions between the Commander and the component.
 - Make sure the batteries you're using are not worn out, and that they're inserted correctly.
 - Check that the button of the TV, VCR, CBL/SAT, RCVR, or DVD is pressed to choose your desired component.
 - 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.
 - If your video components are connected to an audio system, make sure you've set up the Commander as described in "Controlling the Volume of Video Components Connected to an Audio System."
 - Should any problem persist, reset the Commander to the factory setting by pressing the POWER, TV/VIDEO and VOL- buttons simultaneously.

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Customer Support Information

If - after you've read through this manual - you still cannot get the Remote Commander to work properly, call the Sony Customer Support Helpline at 1-800-822-2217.

Remote Button Descriptions



General

- 1 To set up the Commander.
- 2 Component select buttons. To switch to the operations of each component, press the button on which that component is assigned.
- 10 *Volume up: +
- 11 *Volume down: -
- 12 *To mute the volume on TV or receiver (amplifier).
- 12 To turn on and off the power of the selected component.

* These buttons control the volume of either TV or receiver (amplifier). See "Controlling the Volume of Video Components Connected to an Audio System" for details.

Operating a TV, VCR, or cable box

- 3, 4, and 5 TV: To operate the Picture-in-Picture function. Press each button or combination of buttons as described in the table below.
 - : To play.
 - : To stop.
 - ◀◀: To rewind.
 - : To fast-forward.
 - REC: To record, press ► while pressing ●.
- 6 TV: To change the input mode. VCR: To switch the antenna output.
- 7 TV: To display the current channel on TV. VCR: To expose the on-screen display.
- 8 TV/VCR: To move the cursor upward, downward, to the left, or to the right.
- 9 TV/VCR: To call up the MENU display.
- 10 To change the channel. For example, to change to channel 5, press 0 and 5 (or press 5 and ENT).
- 11 TV: To operate SLEEP function on the TV. (Works only for a TV with the SLEEP function.) VCR: To change the input mode.
- 12 TV/VCR: To enter the selection. Channel up: + Channel down: -
- 13 TV/cable box: To operate JUMP, FLASHBACK or CHANNEL RETURN function on the TV depending on the setting of the TV's manufacturer.

- There may be cases you may turn on/off the cable box by pressing the CH+ or CH- buttons on the Commander.
- If your cable box can control volume, be sure to set its volume control to a medium position. If the volume on the cable box is turned down completely, you will not be able to adjust your TV's volume with the Commander.

PIP operations

Press	To
PIP	Turn on/off the "window" picture.
GUIDE	Turn off the "window" picture.
◀◀ or ►►	Change the TV channel in the "window" picture.
●	Change the input mode of the "window" picture.
■	Move the location of the "window" picture.
►►	Swap the "main" picture and the "window" picture.
II	Freeze the "window" picture.

Note

If you have programmed the Channel Macro function for TV operation, the button used as a macro key cannot be used for PIP operation.

Operating a digital satellite receiver

- 3 To use the "FAVORITE" function.
- 4 ►: To exit the mode.
- 6 To switch the output of the digital satellite receiver to the TV. (When you connect a TV cable or antenna to the receiver, the output switches between a TV and SAT program.)
- 8 To scroll through the Master Guide.
- 9 To call up the MENU display. 13 and 14
- 15 To bring up the Master Guide.
- 16 To bring up the Station Index.
- 17 To select the channel that's highlighted. To bring up the Station Index when a program guide is not displayed
- 18 Channel up: + Channel down: - To page through the guide when a program guide is displayed.
- 19 To tune to the last tuned station.

Operating a receiver/amplifier

- 6 To switch input source by each pressing.
- 13 To select the input source: 1 selects VIDEO 1 2 selects VIDEO 2 3 selects AUX 4 selects TUNER 5 selects CD 6 selects TAPE 7 selects MD 8 selects TV 9 selects PHONO 0 selects DVD
- 18 Presetting frequency up: + down: - Tuning frequency up: + down: -
- 19 To shift band (FM/AM).

Operating a CD player, an MD deck, or a DAT deck

- 3 To select numbers 10 and above. For example, to select track 15, press PIP and then press 5.
- 4 ►: To play. ◀◀: To select previous track. ►►: To select next track. ■: To stop. II: To pause.
- 5 MD deck/DAT deck: To record, press ► while pressing ●/ First release ►, then release ●.
- 13 To select the track number. 0 selects track 10. To select track numbers above 10, see the descriptions on the PIP button above.
- 19 CD player/MD deck: To select next disc.

Operating a tape deck

- 3, 4, and 5 ENT: To reverse. ◀: To play. ◀◀: To rewind. ►: To fast-forward. ►►: To stop. II: To pause.
- 6 Tape operation buttons. For dual cassette decks, operation buttons for Deck A (for Sony-brand dual cassette deck, buttons for Deck B).
- PIP: To reverse. ►: To play. ◀◀: To rewind. ►►: To fast-forward. ●REC: To record, press ► while pressing ●/REC. First release ►, then release ●REC.
- : To stop. II: To pause.
- 8, 9, 14, and 17 MENU: To record, press ◀ while pressing MENU. First release ◀, and then release MENU.
- OK: To pause.
- 19 To select Deck A or Deck B (dual cassette deck only).

If your tape deck's commander has one set of tape operating buttons, and has an A/B button for the deck selection, use the RECALL button to select Deck A or Deck B.

Operating a DVD player

- 3 To select numbers 10 and above. For example, to select track 15, press PIP and then press 5.
- 4 ►: To play. ◀◀: To rewind. ►►: To fast-forward. ■: To stop. II: To pause.
- 5 To display the DVD menu.
- 6 To change the title.
- 7 To show the current play status on the screen.
- 8 To move the cursor upward, downward, to the left, or to the right.
- 9 To display the DVD menu.
- 13 Number buttons: To set items selected from the screen.
- 14 To enter the setting. To set items selected from the screen.
- 15 To clear the selected characters from the screen.
- 16 To switch the subtitle.
- 17 To execute items selected from the screen.
- 18 CH+: To proceed to the next location or song. CH-: To proceed to the previous location or song.
- 19 To return to the last previous screen.

Specifications

Operable distance	Approx. 7 m (23 ft) (varies depending of the component of each manufacturer)
Power requirements	Two size AA (R6) batteries (not supplied)
Battery life	Approx. 6 months (varies depending on frequency of use)
Dimensions	Approx. 61 × 191 × 30 mm (w/h/d) (2 1/2 × 7 7/8 × 1 1/4 in.)
Mass	Approx. 100 g (3.5 oz.) (not including batteries)

Design and specifications are subject to change without notice.

