

**SONY**

## Remote Commander

**RM-V302**

3-252-841-11(1)

**Operating Instructions  
Manual de instrucciones (parte posterior)**

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English

**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.

**Setting Up the Remote Commander****About Presetting the Commander**

The Commander is preset at the factory to operate Sony brand components.  
If you're using the Commander with a Sony component, you won't need to preset the Commander before you start using it. To set up the Commander to use with other (non-Sony) manufacturers' components, or to use with a component that is not preset at the factory, you'll need to follow the instructions in this manual to preset the Commander with the correct code number for your components. (See the supplied "Component Code Numbers" also.)

Component that can be preset	Button	Factory setting
TV	TV	Sony TV
VCR	VCR	Sony VHS VCR
Analog cable box/Digital cable box/Digital satellite receiver/Receiver/CD player/Tape deck/MD deck/DAT deck/DVD/TV/VCR/Digital video recorder	<b>CBL/SAT</b> <b>RCVR</b> <b>DVD</b>	— Sony receiver Sony DVD player

**Notes**

- The Commander can be set up to operate only one component per button — unless their code numbers happen to be the same. For example, you cannot set up the Commander to operate a Sony TV and a Panasonic TV simultaneously (because they use different code numbers).
- You may not be able to operate even a Sony brand component with the factory presetting. In such a case, follow the procedure in "Setting the Code."

Enter the component's code number. For example, if you're entering the code for a Philips VCR, you would press 030. Your Code Number **ENT**

4 Enter the component's 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 the **POWER** button while pressing the **SET** button and then go back to step 3.

**Step 2: Checking if the Code Number Works**

- Power on the component you want to set up.
- 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.
- Check that the other buttons of the Commander is operating the corresponding functions of the component.

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

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."

**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.

- Power on the component you want to set up. Insert a tape or disc if necessary.
- While pressing the **SET** button, press the **POWER** button.
- Press the button of the component on the Commander that you want to set up.
- Press and release the **CH+** button. Then press and release the **POWER** button.
- 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.
- When the correct code is found, press the **ENT** button to store the code number in the Commander's memory.
- 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."

While pressing the **SET** button, press the **POWER** button.

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."

**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.

- While pressing the **SET** button, press the **POWER** button.
- Press the **CBL/SAT**, **RCVR**, or **DVD** button.
- Press and release the **■** (stop) button.
- Press and release one of the following buttons:
  - assign a VCR
  - assign a digital satellite receiver, a digital cable box or a digital video recorder
  - assign a receiver
  - assign a CD player
  - assign a tape deck
  - assign an MD deck or a DAT deck
  - assign a TV
  - assign an analog cable box
  - assign a DVD player
- Press and release the **ENT** button.
- 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**

- While pressing the **SET** button, press the **POWER** button.
- Press the **RCVR** button.
- Press the **VOL+** button.
- 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**

- Press the button of the desired component on the Commander.
- Point the Commander directly at the component.
- 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, analog 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 **▶** to **▶** buttons or **ENT** buttons.

**Note**

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

**To program a series of operations**

- Press the desired component select button. (You can select "TV", "analog cable box", or "digital satellite receiver" only.)
- 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.

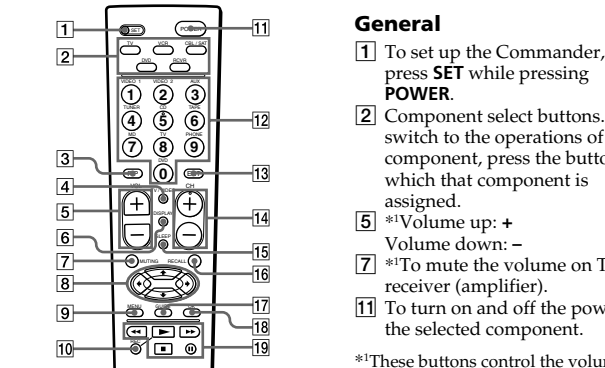
- Hold down the macro key that you want to change or clear.
- After waiting for about three seconds, press the new sequence of buttons, or, to clear the program, press and release ①, and then press and release **ENT**.
- Release the macro key.

**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.

**For the customers in the U.S.A.**

**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, press **SET** while pressing **POWER**.  
2 Component select buttons. To switch to the operations of each component, press the button on which that component is assigned.  
3 **▶**: To play.  
4 **■**: To stop.  
5 **II**: To pause.  
6 and 13 To change the channel. For example, to change to channel 5, press ① and 5 (or, press 5 and **ENT**).  
7 **CH+**: Channel up.  
**CH-**: Channel down.  
8 To move the cursor upward, downward, to the left, or to the right.  
9 To call up the MENU display.  
10, and 19 To change the channel. For example, to change to channel 5, press ① and 5 (or press 5 and **ENT**).  
11 To turn on and off the power of the selected component.  
12 and 13 To change the channel. For example, to change to channel 5, press ① and 5 (or press 5 and **ENT**).  
14 **CH+**: Channel up.  
**CH-**: Channel down.  
15 To operate **SLEEP** function on the TV. (Works only for a TV with the **SLEEP** function.)  
16 To operate **JUMP, FLASHBACK** or **CHANNEL RETURN** function on the TV depending on the setting of the TV's manufacturer.  
18 To enter the selection.

**Operating a TV**  
3 To operate the Picture-in-Picture function. Press each button or combination of buttons as described in the table below.  
4 To change the input mode.  
6 To display the current channel on TV.  
8 To move the cursor upward, downward, to the left, or to the right.  
9 To call up the MENU display.  
12 and 13 To change the channel. For example, to change to channel 5, press ① and 5 (or press 5 and **ENT**).  
14 **CH+**: Channel up.  
**CH-**: Channel down.  
15 To operate **SLEEP** function on the TV. (Works only for a TV with the **SLEEP** function.)  
16 To operate **JUMP, FLASHBACK** or **CHANNEL RETURN** function on the TV depending on the setting of the TV's manufacturer.  
18 To enter the selection.

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

10, and 19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.  
13 To change the channel. For example, to change to channel 5, press ① and 5 (or press 5 and **ENT**).  
14 **CH+**: Channel up.  
**CH-**: Channel down.  
15 To exit the setting menu.  
16 To turn on the display of a shortcut menu.  
17 To call up the title bar and toggle the title bar on/off in **CABLE** mode.  
18 To bring up the Station Index when a program guide is not displayed.  
19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.  
13 To record, press **▶** while pressing **●REC**. First release **▶**, then release **●REC**. To stop recording, perform the same procedure.  
14 **CH+**: Channel up.  
**CH-**: Channel down.  
15 To change the input mode.  
18 To enter the selection.

**Operating a DVR (Digital video recorder)**  
3 To use the "FAVORITE" function.  
4 To call up the title of the recorded program.  
4 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.)  
6 To select the desired recorded program. (It is necessary to have recorded the desired program.)  
6 To turn on the display. (\***THUMBS-**) To select the desired recorded program. (It is necessary to have recorded the desired program.)  
8 To move the cursor upward, downward, to the left, or to the right.  
9 To call up the MENU display.  
10, and 19 To access to all aspects of the setting menu.  
11 **▶**: To play.  
12 **◀◀**: To rewind.  
13 **▶▶**: To fast-forward.  
14 **CH+**: Channel up.  
**CH-**: Channel down.  
15 To clear the setting menu.  
16 **▶**: To play.  
17 To bring up Master Guide. (\***Live TV**)  
18 To bring up the Station Index when a program guide is not displayed.  
19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.  
13 To record, press **▶** while pressing **●REC**. First release **▶**, then release **●REC**. To stop recording, perform the same procedure.  
14 **CH+**: Channel up.  
**CH-**: Channel down.  
15 To clear the setting.  
16 **▶**: To play.  
17 To bring up the Station Index when a program guide is not displayed.  
18 To enter the selection.  
19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.  
13 To record, press **▶** while pressing **●REC**. First release **▶**, then release **●REC**. To stop recording, perform the same procedure.  
14 **CH+**: Channel up.  
**CH-**: Channel down.  
15 To clear the setting menu.  
16 **▶**: To play.  
17 To bring up Master Guide. (\***Live TV**)  
18 To bring up the Station Index when a program guide is not displayed.  
19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.

\*2 This key corresponds to Tivo service or the replay service. Refer to its instruction manual for details.

**Operating an analog cable box**  
12 and 13 To change the channel. For example, to change to channel 5, press ① and 5 (or press 5 and **ENT**).  
14 Channel up: + Channel down: -  
**Notes**  
• 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.

**Operating a digital cable box**

3 To use the "FAVORITE" function.  
4 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.)  
6 To turn on the display.  
8 To move the cursor upward, downward, to the left, or to the right.  
9 To call up the MENU display.  
10, and 19 To change the channel. For example, to change to channel 5, press ① and 5 (or press 5 and **ENT**).  
14 **CH+**: Channel up.  
**CH-**: Channel down.  
15 To exit the setting menu.  
16 To turn on the display of a shortcut menu.  
17 To call up the title bar and toggle the title bar on/off in **CABLE** mode.  
18 To bring up the Station Index when a program guide is not displayed.  
19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.  
13 To record, press **▶** while pressing **●REC**. First release **▶**, then release **●REC**. To stop recording, perform the same procedure.  
14 **CH+**: Channel up.  
**CH-**: Channel down.  
15 To change the input mode.  
18 To enter the selection.

**Operating a digital satellite receiver**  
3 To use the "FAVORITE" function.  
4 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.  
12 To change the channel. For example, to change to channel 5, press ① and 5 (or press 5 and **ENT**).  
13 To enter the setting.  
14 **CH+**: To proceed to the next location or song.  
**CH-**: To proceed to the previous location or song.  
15 To switch the subtitle.  
16 To display the title menu.  
17 To clear the selected characters from the screen.  
18 To execute items selected from the screen.  
19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.

**Operating a DVD**  
3 To select numbers 10 and above. For example, to select track 15, press **PIP** and then press 5.  
4 To change the sound.  
6 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.  
10 To record, press **▶** while pressing **●REC**. First release **▶**, then release **●REC**.  
12 Number buttons: To set items selected from the screen.  
13 To enter the setting. To set items selected from the screen.  
14 **CH+**: To proceed to the next location or song.  
**CH-**: To proceed to the previous location or song.  
15 To switch the subtitle.  
16 To display the title menu.  
17 To clear the selected characters from the screen.  
18 To execute items selected from the screen.  
19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.  
13 To select Deck A or Deck B (dual cassette deck only).  
16 To select Deck A or Deck B (dual cassette deck only).  
19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.

**Operating a receiver/amplifier**  
4 To switch input source by each pressing.  
12 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  
14 Presetting frequency up: +, down: -  
15 Tuning frequency up: +, down: -  
16 To shift band (FM/AM).  
19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.  
13 To record, press **▶** while pressing **●REC**. First release **▶**, then release **●REC**.  
14 **CH+**: Channel up.  
**CH-**: Channel down.  
15 To exit the setting menu.  
16 To turn on the display of a shortcut menu.  
17 To call up the title bar and toggle the title bar on/off in **CABLE** mode.  
18 To bring up the Station Index when a program guide is not displayed.  
19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.

**Operating a CD player**

3 To select numbers 10 and above. For example, to select track 15, press **PIP** and then press 5.  
6 To switch the display of the CD player to on/off.  
12 To select the track number. 0 selects track 10. To select track numbers above 10, see the descriptions on the **PIP** button above.  
13 To enter the setting.  
14 **CH+**: To select the next track.  
**CH-**: To select the previous track.  
15 To clear the setting.  
16 To select next disc.  
19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.

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

**Operating an MD deck**  
3 To select numbers 10 and above. For example, to select track 15, press **PIP** and then press 5.  
6 To switch the display of the CD player to on/off.  
10 To record, press **▶** while pressing **●REC/First release**, then release **●REC**.  
12 To select the track number. 0 selects track 10. To select track numbers above 10, see the descriptions on the **PIP** button above.  
13 To enter the setting.  
14 **CH+**: To select the next track.  
**CH-**: To select the previous track.  
15 To clear the setting.  
16 To select next disc.  
19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.

**Operating a DAT deck**  
3 To select numbers 10 and above. For example, to select track 15, press **PIP** and then press 5.  
6 To change the display mode or turn the display on/off.  
10 To record, press **▶** while pressing **●REC/First release**, then release **●REC**.  
12 To select the track number. 0 selects track 10. To select track numbers above 10, see the descriptions on the **PIP** button above.  
13 To enter the setting.  
14 **CH+**: To select the next track.  
**CH-**: To select the previous track.  
15 To play.  
11 **■**: To stop.  
12 **II**: To pause.

**Operating a tape deck**  
3, 10, and 19 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. First release **▶**, and then release **MENU**.  
**MENU**: To record, press **▶** while pressing **MENU**. First release **▶**, and then release **MENU**.  
16 To select Deck A or Deck B (dual cassette deck only).  
19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.  
13 To select Deck A or Deck B (dual cassette deck only).  
16 To select Deck A or Deck B (dual cassette deck only).  
19 **▶**: To play.  
11 **■**: To stop.  
12 **II**: To pause.

**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. 55 × 200 × 32 mm (w/h/d) (2 1/4 × 7 7/8 × 1 1/8 in.)  
**Mass** Approx. 95 g (3.4 oz.) (not including batteries)  
Design and specifications are subject to change without notice.

\*3 The operation of the built-in DVR or the video on demand.

