

For the customers in the U.S.A.

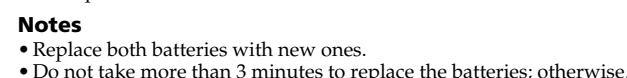
WARNING

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.

Before replacing the batteries, have new ones ready beforehand. 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 6 months. If the Commander does not operate properly, the batteries might be worn out. Replace the batteries with new ones.

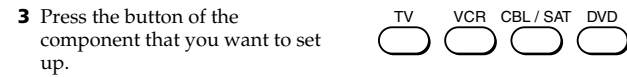
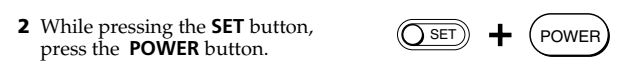
- Notes**
- Replace both batteries with new ones.
  - Do not take more than 3 minutes to replace the batteries; otherwise, your setting of the code numbers will be erased.

Setting the Code

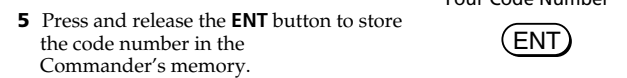
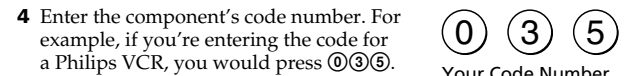
Follow the steps 1 and 2 below for each component you plan to use with the Commander.

Step 1: Entering the Code Number

- 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."
- 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 and DVD buttons, "cable box", 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 and DVD buttons."



**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 70 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."

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

At the factory, "cable box" is assigned on the CBL/SAT 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 or DVD button.
- Press and release the ■ (stop) button.
- Press and release one of the following buttons;
  - ① to assign a VCR
  - ② to assign a digital satellite receiver, a digital cable box or a digital video recorder
  - ③ to assign a TV
  - ④ to assign an analog cable box
  - ⑤ to assign a DVD

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 70 tries until the correct code number is located.

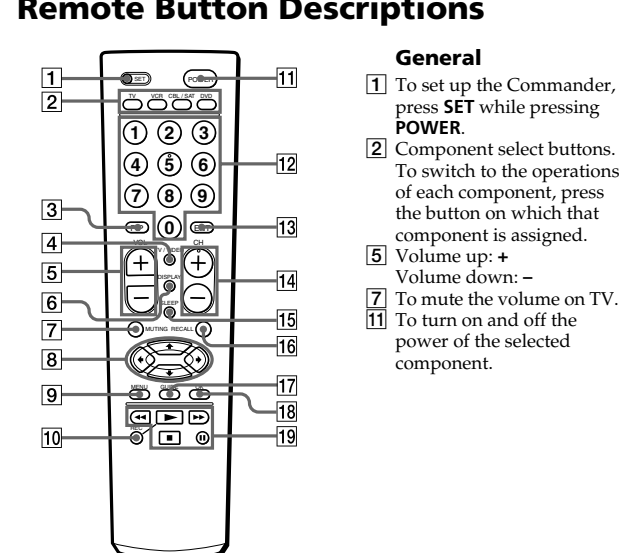
When the correct code is found, press the ENT button to store the code number in the Commander's memory.

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."

Remote Button Descriptions



**General**

- To set up the Commander, press SET while pressing POWER.
- Component select buttons. To switch to the operations of each component, press the button on which that component is assigned.
- Volume up: +
- Volume down: -
- To mute the volume on TV.
- To turn on and off the power of the selected component.

Operating a TV

- To operate the Picture-in-Picture function. Press each button or combination of buttons as described in the table below.
- To change the input mode.
- To display the current channel on TV.
- To move the cursor upward, downward, to the left, or to the right.
- To call up the MENU display.
- To change the channel. For example, to change to channel 5, press 0 and 5 (or press 5 and ENT).

**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.
●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.

Operating a VCR

- To switch the antenna output.
- To expose the on-screen display.
- To move the cursor upward, downward, to the left, or to the right.
- To call up the MENU display.
- To record, press ●REC. First release ▶, then release ●REC.
- Number buttons: To set items selected from the screen.
- To enter the setting. To set items selected from the screen.

**Operating a DVD**

- To switch the channel. For example, to change to channel 5, press 0 and 5 (or press 5 and ENT).
- Channel up: +
- Channel down: -
- To change the input mode.
- To enter the selection.

- Operating a VCR**
- To switch the antenna output.
  - To expose the on-screen display.
  - To move the cursor upward, downward, to the left, or to the right.
  - To call up the MENU display.
  - To record, press ●REC. First release ▶, then release ●REC.
  - Number buttons: To set items selected from the screen.
  - To enter the setting. To set items selected from the screen.

Operating a DVR (Digital video recorder)

- To call up the title of the recorded program.
- 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.)
- To select the desired recorded program. (It is necessary to have recorded the desired program.)
- To turn on the display. (\*THUMBS-)
- To select the desired recorded program. (It is necessary to have recorded the desired program.)
- To move the cursor upward, downward, to the left, or to the right.
- To call up the MENU display. (\*EPG)
- To access to all aspects of the service. (\*Live TV)
- To bring up Master Guide. (\*REPLAY)
- To play.
- To rewind.
- To fast-forward.
- To record, press ●REC. First release ▶, then release ●REC. To stop recording, perform the same procedure.
- To pause.
- To change the channel. For example, to change to channel 5, press 0 and 5 (or, press 5 and ENT).
- CH+: Channel up. (\*PAGE+) Page up.
- CH-: Channel down. (\*PAGE-) Page down.
- To clear the setting. To exit the setting menu.
- To go into REC/REVIEW mode during play. (After about 5-second rewind, replay begins.)
- To bring up Master Guide. (\*PAGE+) Page up.
- To bring up the Station Index when a program guide is not displayed.
- To select the channel that is highlighted.

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

Operating an analog cable box

- To change the channel. For example, to change to channel 5, press 0 and 5 (or press 5 and ENT).
- Channel up: +
- Channel down: -
- To operate JUMP, FLASHBACK or CHANNEL RETURN function on the TV depending on the setting of the TV's manufacturer.
- To enter the selection.

Operating a DVD

- To select numbers 10 and above. For example, to select track 15, press PIP and then press 5.
- To change the sound.
- To show the current play status on the screen.
- To move the cursor upward, downward, to the left, or to the right.
- To display the DVD menu.
- To record, press ●REC. First release ▶, then release ●REC.
- Number buttons: To set items selected from the screen.
- To enter the setting. To set items selected from the screen.

**Operating a DVD**

- CH+: To proceed to the next location or song.
- CH-: To proceed to the previous location or song.
- To switch the subtitle.
- To display the title menu.
- To clear the selected characters from the screen.
- To execute items selected from the screen.
- To play.
- To rewind.
- To fast-forward.
- To stop.
- To pause.

Operating a digital cable box

- To use the "FAVORITE" function receiver to the TV. (When connecting a TV cable or antenna to the receiver, the output switches between a TV and SAT program.)
- To turn on the display.
- To move the cursor upward, downward, to the left, or to the right.
- To call up the MENU display. (\*EPG)
- To access to all aspects of the service. (\*Live TV)
- To bring up Master Guide. (\*REPLAY)
- To play.
- To rewind.
- To fast-forward.
- To record, press ●REC. First release ▶, then release ●REC. To stop recording, perform the same procedure.
- To pause.
- To change the channel. (for example, to change to channel 5, press 0 and 5, or press 5 and ENT).
- CH+: Channel up.
- CH-: Channel down.
- To exit the setting menu.
- To turn on the display of a shortcut menu.
- To call up the title bar and toggle the title bar on/off in CABLE mode.
- To bring up the Station Index when a program guide is not displayed.
- To select the channel that is highlighted.

\*2 The operation of the built-in DVR or the video on demand.

Operating a digital satellite receiver

- To use the "FAVORITE" function.
- 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.)
- To scroll through the Master Guide.
- To call up the MENU display.
- To change the channel. For example, to change to channel 5, press 0 and 5 (or press 5 and ENT).
- Channel up: +
- Channel down: -
- To proceed to the next location or song.
- To proceed to the previous location or song.
- To switch the subtitle.
- To display the title menu.
- To clear the selected characters from the screen.
- To execute items selected from the screen.
- To play.
- To rewind.
- To fast-forward.
- To stop.
- 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 1/8 × 7 7/8 × 1 1/16 in.)
  - Mass**: Approx. 95 g (3.4 oz.) (not including batteries)
- Design and specifications are subject to change without notice.

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 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, 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.
  - 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.

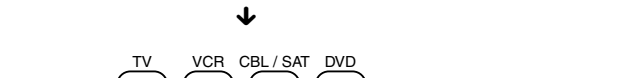
Component code numbers / Números de código de componentes

English	
<b>TV/VCR/COMBO*</b>	
The left row of the table shows the brand, the center row shows the component (TV, VCR or COMBO) and the right row shows the code No.	
* COMBO stands for the unit combined with TV and VCR.	
<b>Analog cable box, SAT (digital satellite receiver), digital cable box, DVR (digital video recorder) and DVD</b>	
The left row of the table shows the brand and the right row shows the code No.	
Español	
<b>TV/VCR/COMBO*</b>	
La fila izquierda de la tabla muestra la marca, la central el componente (televisor (TV), videograbadora (VCR) o COMBO), y la derecha el número de código.	
* COMBO significa que la unidad está combinada con un televisor y una videograbadora.	
<b>CBL (adaptador para cable analógico), SAT (sintonizador de recepción via satélite digital), decodificador digital, DVR (Videograbadora digital) y DVD (reproductor de discos DVD)</b>	
La fila izquierda de la tabla muestra la marca y la derecha muestra el número de código.	
SAT	
Brand	Code No.
DirecTV	Sony 001
	Hitachi 005
	Hughes 004
	Panasonic 003
	RCA/Proscan 002, 007
	Toshiba 006
DVD	
Brand	Code No.
Sony	001, 023, 024, 025, 030, 031, 032, 040
Aiwa	015
Daewoo	029
Denon	006, 017
Harman/Kardon	018
Hitachi	008
JVC	007, 037
KLH	010
Onkyo	016
Panasonic	002, 006, 027, 028, 034, 035, 036, 042, 045
Philips	012
Pioneer	004, 019, 021, 033
RCA	005
Samsung	014, 041
Sharp	011, 048
Shinco	022
Sylvania	020, 044, 049
Thomson	013
Toshiba	003, 038, 039, 046
Yamaha	006
Zenith	009, 047
DVR (Digital Video Recorder)/ DVR (Videograbadora digital)	
Tivo	Code No.
Panasonic	021
Replay	022



While pressing the SET button, press the POWER button.

Al tiempo que mantiene presionado el botón SET, presione el botón POWER.



Code No.



