

Setting Up the Remote Commander

Before you can start using the Remote Commander, you must first set it up. This booklet describes everything you need to know to set up the Remote Commander, including:

- Installing the batteries (instructions are on page 5)
- Presetting the Remote Commander with the codes for your TV, VCR, MDP and cable box (instructions begin on page 6)

About Presetting the Remote Commander

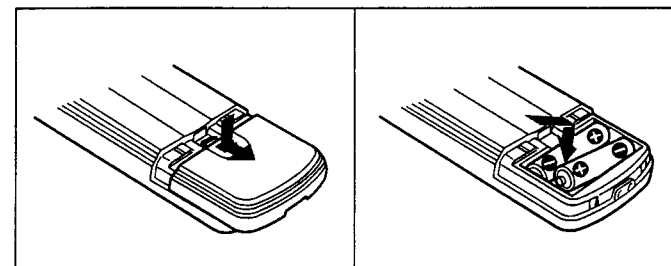
To set up this Remote Commander to use with other (non-Sony) manufacturer's TVs, VCRs, MDPs and cable boxes, you'll need to follow the instructions in this booklet to preset the Remote Commander with the correct code number.

Note:

The Remote Commander can be set up to operate up to two components (DSS®, TV, cable box) at a time — unless their code numbers happen to be the same. For example, you can set up the Remote Commander to operate two TVs by setting their codes into the FUNCTION buttons—CABLE and TV. For VCR and MDP operation, the Remote Commander can be set up to operate up to four components (VCR, MDP) by switching the slide switch inside the Remote Commander's lid.

Installing the Batteries

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



Notes on Batteries

- Under normal conditions, batteries will last up to six months. If the Remote Commander does not operate properly or the indicators of the buttons on the Remote Commander do not light up, the batteries may be worn out. When replacing batteries, replace both of them with new ones.
- Do not mix old batteries with new ones or mix different types of batteries together.
- Whenever you remove the batteries — to replace them, for example — the code numbers revert to the factory settings and must be reset.
- 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 don't plan to use the Remote Commander for a long period of time.

Setting the Code

Step 1: Entering the Remote Commander's ID Code

In addition to having infrared transmission, this Remote Commander includes RF transmission, which allows you to control your Sony brand DSS receiver from another room if your component supports RF remote control. However, your Remote Commander may be interfered with by the same type of Remote Commander that is used nearby. To prevent this, set the Commander's ID code. For the procedure of setting your ID code, see the instruction manual of your DSS receiver.

Step 2: Entering the Code Number for Your Component

- 1 Turn off the component you want to set up.
- 2 Turn to "Component Code Numbers" on page 16, and find the three-digit code number for your component.

If more than one code number is listed, use the number that's listed first to complete the steps that follow.

Brand	Component	Code No.
Philips	VCR	310, 308, 309

For example, if you're setting up a Philips VCR, you would use code number 310.

If your component is not listed, see "Setting Up a Non-preprogrammed Component" on page 9.

- 3 Press the **CODE SET** button.
The TV and CABLE indicators on the Remote commander flash, indicating that the Remote Commander is in preset mode.



- 4 Press the **FUNCTION** button (TV or **CABLE**) for the component you're setting up.



To set up your VCR or MDP, set the **slide switch** inside the Remote Commander to any position.



- 5 Enter the component's code number.
For example, if you're entering the code for a Philips VCR, you would press **3**, **1** and **0**.



- 6 Press the **ENTER** button to store the code number in the Remote Commander's memory.



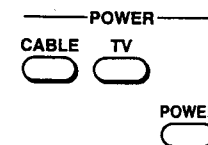
- 7 Go to "Step 2: Checking if the Code Number Works" on page 8 to finish setting up.

Note

- If more than 10 seconds elapse after you press a button, preset mode is cancelled automatically.

Step 3: Checking If the Code Number Works

- 1 Aim the Remote Commander at the component and press the **POWER** button that corresponds to your component. The component should turn on.



- 2 When the component turns on, check that the Remote Commander is operating the other functions of your component. Press the **CH +/-** buttons.



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

- First, try repeating these setup procedures using the other codes listed for your component (see page 16).
- If — after trying all the codes listed for your component — you still cannot get the Remote Commander to work properly, try the learning function described under "Setting Up a Non-preprogrammed Component" on page 9.

If the Remote Commander is Working Properly ...

- You're finished setting up the Remote Commander for this component.
- You'll need to complete these procedures for each component you plan to use with the Remote Commander.

Remote Commander Button Descriptions

Note:

Buttons that are highlighted in the following table operate in any component operation mode.

Button	Operates	Function
	DSS TV Cable box	Turns the component on and off.
	TV	Shuts off automatically after the time you specify.
	TV	Mutes the sound. Press again to restore the sound.
	DSS TV Cable box	Switches to the component's operation mode.
	DSS	Displays the Master Guide. Each press cycles through all the available time slots in the guide.
	DSS	Displays your favorite stations guide on the screen if you've preset it.
	DSS	Selects an alternate audio track for the current program if one is available.
	DSS TV Cable box	Switches to the last channel that you selected with the 0-9 buttons.
	DSS	Changes the VHF/UHF output of DSS.
	TV	Changes the VIDEO input mode of the TV.

Button	Operates	Function
	DSS TV Cable box	Changes the channel. For example, to go to channel 5, press 0 and 5.
	DSS TV Cable box	Used for setting up the Remote Commander to operate your component.
	DSS TV	Displays the Program Banner on DSS. Displays the on-screen information (e.g. current channel) on TV.
	DSS TV Cable box	Changes to the next or previous channel. For DSS operation, used to page through the guide while the program guide is displayed.
	DSS TV	Displays the Main Menu. Used only with Sony brand components.
	DSS TV	Moving the joystick highlights items in the menus, program guides, etc. Pressing the joystick selects or stores the highlighted items. During normal DSS viewing, pressing the joystick displays the Station index. Used only with Sony brand components.
	DSS TV	Turns off the on-screen displays including menus, program guides, etc. If you press this button before you complete your selection, the previous selections are restored. Used only with Sony brand components.
	TV	Raises and lowers the volume.

Button	Operates	Function
(Inside the lid of the Commander)		
	VCR MDP	Switches to various VCR or MDP mode.
	VCR MDP	Turns the VCR or MDP on or off.
	VCR MDP	Rewind
	VCR MDP	Play
	VCR MDP	Fast-forward
	VCR MDP	Eject Used only with Sony brand components.
	VCR MDP	Changes the channel or chapter.
	VCR	Record
	VCR MDP	Pause
	VCR MDP	Stop
	VCR	Changes the VHF/UHF output of the VCR.
	DSS TV Cable box VCR MDP	Used for setting up the Remote Commander to operate your component (listed in the "Component Code Numbers"). Also used for setting the Remote Commander's ID code.

Component Code Numbers

This Remote Commander is preset at the factory to operate the following components:

TV: Sony
VTR1: Sony Beta VCRs
VTR2: Sony 8 mm VCRs
VTR3: Sony VHS VCRs
MDP: Sony multi-disc players

TV and VCR Codes

Brand	Component	Code No.
Sony	VCR	301 (VTR3: VHS) 302 (VTR2: 8 mm) 303 (VTR1: Beta)
	TV	101
	Admiral TV	102, 114, 109
Aiwa	VCR	338
Audio Dynamic	VCR	314, 337
	TV	103, 112
Bell & Howell (Montgomery Wards)	VCR	330, 343
	TV	114, 109, 138
Brocsenic	VCR	319
	TV	103, 112
Canon	VCR	309, 308
Citizen	VCR	332
Craig	VCR	315, 302, 332
	TV	122, 123, 120, 121
Croslex	TV	111
Curtis Mathis	VCR	304, 338, 309
	TV	103, 119, 123
Daewoo	VCR	341, 312, 309
	TV	135, 136, 103
Daytron	TV	113
DBX	VCR	314, 336, 337
Dimensia	VCR	304
Emerson	VCR	319, 320, 316, 317, 318
	TV	122, 113, 120, 121, 123, 103, 115

Brand	Component	Code No.
Emerson	TV	122, 113, 120, 121, 123, 103, 115
	VCR	330, 334, 335, 333
Fisher	VCR	330, 334, 335, 333
	TV	125
Funai	VCR	338
General Electric	VCR	329, 304, 309
	TV	102, 118, 103, 107
Goldstar	VCR	332
	TV	103, 113, 112, 130
Hitachi	VCR	306, 304, 305
	TV	131, 113, 103, 132
Instant Replay	VCR	309, 308
	TV	103, 102, 130, 107
JC Penny	VCR	309, 305, 304, 330, 314, 336, 337
	TV	103, 102, 130, 107
JVC	VCR	314, 336, 337
	TV	128, 129
Kenwood	VCR	314, 336, 332, 337
	TV	133, 113, 103, 123, 134
KTV	TV	133, 113, 103, 123, 134
	VCR	332, 305, 333, 334, 330, 335
LXI (Sears)	VCR	102, 103, 111, 125, 119, 112
	TV	102, 103, 111, 125, 119, 112
Magnavox	VCR	310, 308, 309
	TV	111, 112, 113, 103

Component Code Numbers (continued)

Brand	Component	Code No.
Marantz	VCR	314, 336, 337
Marta	VCR	332
Memorex	VCR	309, 335
Minolta	VCR	305, 304
Mitsubishi	VCR	323, 324, 325, 326
	TV	124, 103, 112
Multitech	VCR	325, 338, 321
	TV	123, 112
NEC	VCR	314, 336, 337
	TV	103, 112
Olympic	VCR	309, 308
Panasonic	VCR	308, 309, 306, 307
	TV	118, 116, 117, 107
Pentax	VCR	305, 304
Philco	VCR	308, 309
	TV	111, 113, 103
Philips	VCR	310, 308, 309
	TV	111
Pioneer	VCR	308
	TV	137, 118, 119
Portland	TV	103, 108
Quasar	VCR	308, 309
	TV	118, 107
Radio Shack	VCR	102, 112, 124, 123
	TV	102, 112, 124, 123
RCA/PROSCAN	VCR	304, 305, 308, 309, 310, 311, 312, 313
	TV	102, 103, 104, 105, 106, 107, 108
Realistic	VCR	309, 330, 328, 335, 324, 338
	TV	314

Brand	Component	Code No.
Singer	VCR	315
Samsung	VCR	322, 313, 321
	TV	126, 112, 113, 103
Sanyo	VCR	330, 335
	TV	125
Scott	VCR	312, 313, 321, 335, 323, 324, 325, 326
	TV	123, 112
Sharp	VCR	327, 328
	TV	114, 113, 115
Shintom	VCR	315
Signature 2000 (Montgomery Wards)	VCR	338, 327
	TV	114, 109
Sylvania	VCR	310, 308, 309, 338
	TV	111, 112, 103
Symphonic	VCR	338
	TV	123, 139
Tashiro	VCR	332
Tatung	VCR	314, 336, 337
Teac	VCR	314, 336, 338, 337
	TV	119, 114
Technics	VCR	309, 308
Toshiba	VCR	312, 311
	TV	131, 103, 112
Videch	VCR	327, 328, 335, 331, 332
	TV	113, 103, 115, 112
Yamaha	VCR	330, 314, 336, 337
Zenith	VCR	331
	TV	109, 110

Component Code Numbers (continued)

Cable Box Codes

Brand	Code No.
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G.I.	201, 202, 203, 204, 205, 206, 207, 208, 218
	227, 228, 229
	219, 220, 221
Oak	214, 215
Panasonic	209, 210, 211
Pioneer	216, 217
Scientific Atlanta	212, 213
Tocom	
Zenith	

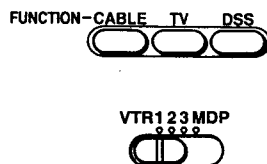
MDP Codes

Brand	Code No.
Sony	701
Kenwood	707
Magnavox	703
Marantz	702
Mitsubishi	702
Panasonic	704
Philips	703
Pioneer	702
RCA	702
Sanyo	706
Sharp	705
Yamaha	703

Using the Remote Commander

Before Operating a Component

Press the **FUNCTION** button that corresponds to the component you want to operate (**DSS** to operate a DSS receiver, **TV** to operate a TV, **CABLE** to operate a cable box). For VCR or MDP operation, open the lid of the Remote Commander and set the **slide switch** to the position you set for your component when setting the code number.



Operating a Component

- 1 Press the **POWER** button that corresponds to the component you want to operate (**DSS** to turn on a DSS receiver, **TV** to turn on a TV, **CABLE** to turn on a cable box, **POWER** inside the lid to operate a VCR or MDP).
- 2 Point the Remote Commander directly at the component.
- 3 Press the button for the function you want to use.

See "Remote Commander Button Descriptions" on page 12 for complete descriptions of the buttons on the Remote Commander*.

- * Some buttons on the Remote Commander work exclusively with specific components. Several buttons also function in any component operation mode. For example, you can use the TV/VTR button to control the VCR even if any **FUNCTION** button is pressed. For a complete list of the buttons that work independently, see the highlighted buttons in the tables on the following pages.

- * If your cable box is a Scientific Atlanta model that does not have a power-on button, you can turn on the cable box by pressing the CH+ or CH- button on the Remote Commander.

Notes on Using the Remote Commander

- Using this Remote Commander will not increase the functions of your DSS, TV, VCR, MDP or cable box. The functions of the Remote Commander are limited to the functions of the DSS, TV, VCR, MDP or cable box itself. For example, if your TV does not have a JUMP function, the JUMP button on this Remote Commander will not function with your TV.
- 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 this Remote Commander.

WARNING

FCC Statement

Any changes or modifications not expressly approved in writing by Sony Corporation may void the user's authority to operate this equipment.

Trademark

DSS® is a registered trademark of DIRECTV, Inc., a unit of Hughes Electronics Corporation.

Specifications

Operable distance	Approximately 7 m (23 ft). (varies depending on the component of each manufacturer) Effective range of RF transmission is approximately 30 m (100 ft).
Power requirements	Two size AA batteries (not supplied)
Battery life	Approximately six months (varies depending on frequency of use)
Dimensions	68 × 210 × 28 mm (w/h/d) (2 3/4 × 8 3/8 × 1 1/8 in.)
Mass	Approximately 180 g (7 oz) (not including batteries)

Note:

- The operating range of this Remote Commander may decrease due to ambient radio wave conditions, your room's wall, etc.
- This Remote Commander has both IR and RF transmission capability.

Design and specifications subject to change without notice.

Troubleshooting

If you're having problems setting up or using the Remote Commander:

- When setting up the Remote Commander, carefully go through the procedures described under "Setting the Code" on page 6. 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 under "Setting up a Non-pre-programmed component" on page 9. If, after trying all this, you still cannot get the Remote Commander to operate properly, see "Customer Support Information" below.
- For non-RF components, check that you're aiming the Remote Commander directly at the component, and that there are no obstructions between the Remote Commander and the component.
- Make sure the batteries you're using are not worn out, and that they're inserted correctly. Note that whenever you remove the batteries — to replace them, for example — if too much time is taken, the code numbers revert to the factory settings and must be reset.
- When using the Remote Commander, note that some buttons work exclusively with specific components. These buttons also function independent of any component operation mode. For example, you can use the TV/VTR to control the VCR even if any FUNCTION button is pressed. For a complete list of the buttons that work independently, see the highlighted buttons in the table on pages 12 through 15.
- Make sure you've set your Remote Commander's ID code if you are using RF transmission. Note that your Remote Commander may be interfered with by the same type of Remote Commander that is used nearby. See the instruction manual of your Sony DSS receiver with RF control capability.

Customer Support Information

If — after you have read through this manual — you still cannot get the Remote Commander to work properly, call the SONY DIGITAL SATELLITE SYSTEM INFORMATION CENTER at 1-800-838-7669.

Limited Warranty

If this product should prove defective in workmanship or material during the period of one (1) year from the date of original purchase at retail, the same will be replaced by either the Seller, or Sony Electronics Inc.

SUCH REPLACEMENT SHALL BE THE SOLE REMEDY OF THE CONSUMER, AND THERE SHALL BE NO LIABILITY ON THE PART OF THE MANUFACTURER, DISTRIBUTOR OR SELLER FOR ANY LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR INABILITY TO USE, THIS PRODUCT. Some states of the United States do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific rights and you may also have other rights which vary from state to state.

To locate the servicer or dealer nearest you, for service assistance or resolution of a service problem, or for product information or operation, call:
SONY DIGITAL SATELLITE SYSTEM INFORMATION CENTER
1-800-838-7669.

For an accessory or part not available from your authorized dealer, call: 1-800-488-SONY (7669).