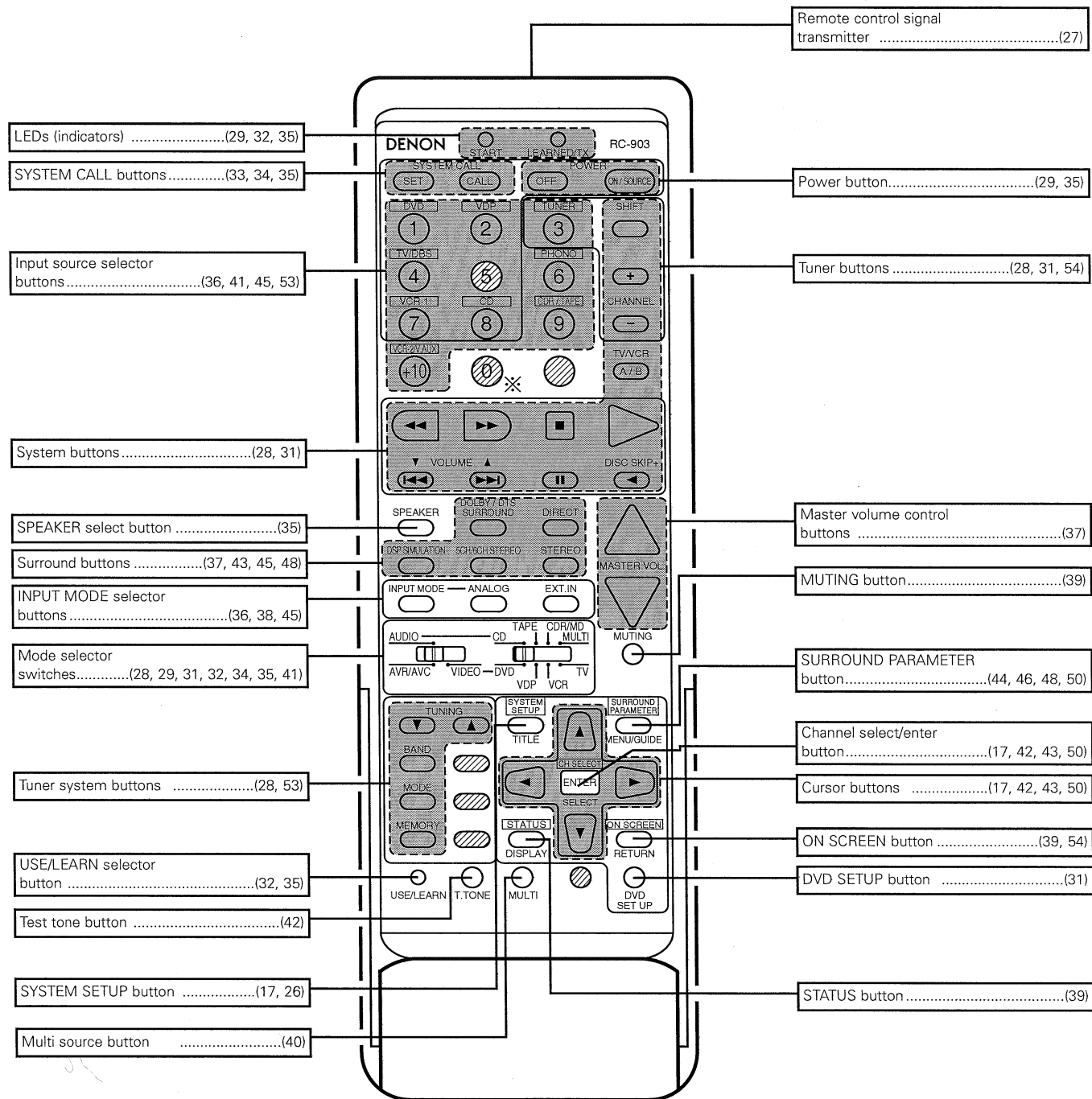


Remote control unit

- For details on the functions of these parts, refer to the pages given in parentheses ().

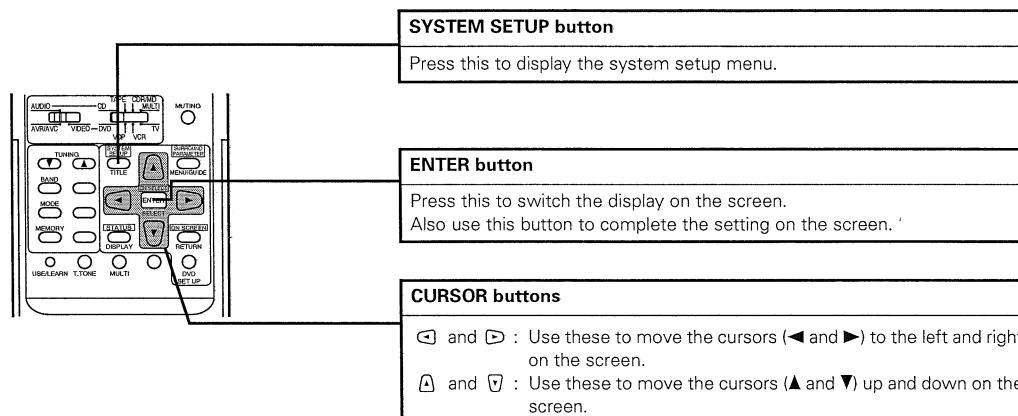


NOTE

- The shaded buttons  do not function with the AVR-2802/982. (Nothing happens when they are pressed.)
- The button indicated ※, however, can be used with the learning function.

7 SETTING UP THE SYSTEM

- Once all connections with other AV components have been completed as described in "CONNECTIONS" (see pages 6 to 13), make the various settings described below on the monitor screen using the AVR-2802/982's on-screen display function. These settings are required to set up the listening room's AV system centered around the AVR-2802/982.
- Use the following buttons to set up the system:



- System setup items and default values (set upon shipment from the factory)

System setup				Default settings									
①	Speaker Configuration	Input the combination of speakers in your system and their corresponding sizes (SMALL for regular speakers, LARGE for full-size, full-range) to automatically set the composition of the signals output from the speakers and the frequency response.		Front Sp.		Center Sp.		Sub Woofer		Surround Sp.		Surround Back Sp.	
				Large		Small		Yes		Small		Small / 1spkr	
	Crossover Frequency	Set the frequency (Hz) below which the bass sound of the various speakers is to be output from the subwoofer.		80 Hz									
	Subwoofer mode	This selects the subwoofer speaker for playing deep bass signals.		LFE									
②	SB CH Auto Flag Detect	Set the method of playing the surround back channel for digital signals.		DTS-ES / 6.1 Source Auto Flag Detect Mode = OFF									
③	Delay Time	This parameter is for optimizing the timing with which the audio signals are produced from the speakers and subwoofer according to the listening position.		Front L & R		Center		Sub Woofer		Surround L & R		Surround Back	
				12 ft (3.6 m)		12 ft (3.6 m)		12 ft (3.6 m)		10 ft (3.0 m)		10 ft (3.0 m)	
④	Channel Level	This adjusts the volume of the signals output from the speakers and subwoofer for the different channels in order to obtain optimum effects.		Front L	Front R	Center		Subwoofer		Surround L	Surround R	Surround Back	
				0 dB	0 dB	0 dB		0 dB		0 dB	0 dB	0 dB	
⑤	Digital In Assignment	This assigns the digital input jacks for the different input sources.	Input source	CD	DVD	TV/DBS	CDR/TAPE	VDP	VCR-1	VCR-2	—	—	
			Digital Inputs	COAXIAL	OPTICAL 1	OPTICAL 2	OPTICAL 3	OFF	OFF	OFF	—	—	
⑥	On Screen Display	This sets whether or not to display the on-screen display that appears on the monitor screen when the controls on the remote control unit or main unit are operated.		On Screen Display = ON									
⑦	Auto Tuner Presets	FM stations are received automatically and stored in the memory.		A1 ~ A8	87.5/89.1/98.1/107.9/90.1/90.1/90.1 MHz								
				B1 ~B8	520/600/1000/1400/1500/1710 kHz, 90.1/90.1 MHz								
				C1 ~C8	90.1 MHz								
				D1 ~D8	90.1 MHz								
				E1 ~E8	90.1 MHz								

NOTES:

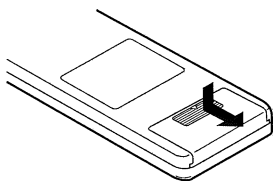
- The on-screen display signals are not output from the color difference (component) video signal (MONITOR OUT) jacks.
- The on-screen display signals are output with priority to the S-VIDEO MONITOR OUT jack during playback of a video component. For example, if the TV monitor is connected to both the AVR-2802/982's S-Video and video monitor output jacks and signals are input to the AVR-2802/982 from a video source (VDP, etc.) connected to both the S-Video and video input jacks, the on-screen display signals are output with priority to the S-Video monitor output. If you wish to output the signals to the video monitor output jack, do not connect a cord to the S-VIDEO MONITOR OUT jack. (For details, see page 26.)
- The AVR-2802/982's on-screen display function is designed for use with high resolution monitor TVs, so it may be difficult to read small characters on TVs with small screens or low resolutions.
- The setup menu is not displayed when "HEADPHONE ONLY" is selected.

8 REMOTE CONTROL UNIT

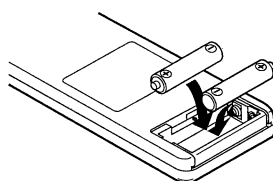
- The included remote control unit (RC-903) can be used to operate not only the AVR-2802/982 but other remote control compatible DENON components as well. Furthermore, it is equipped with a function for learning the control signals of remote control units of other manufacturers, so it can also be used to operate non-DENON remote control compatible video components.

Inserting the batteries

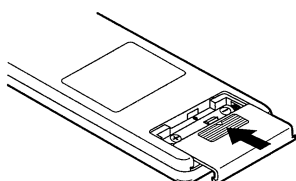
- Remove the remote control unit's rear cover.



- Set two R6P/AA batteries in the battery compartment in the indicated direction.



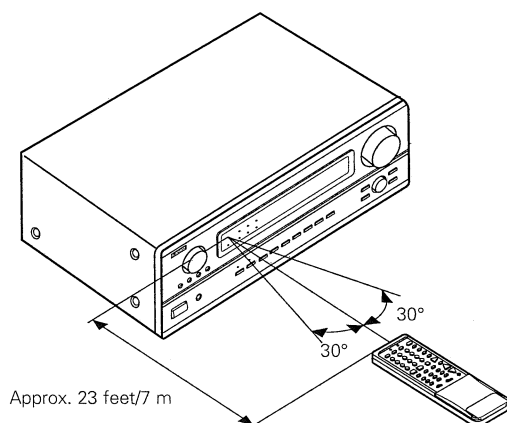
- Put the rear cover back on.



Notes on Batteries

- Use R6P/AA batteries in the remote control unit.
- The batteries should be replaced with new ones approximately once a year, though this depends on the frequency of usage.
- Even if less than a year has passed, replace the batteries with new ones if the set does not operate even when the remote control unit is operated nearby the set. (The included battery is only for verifying operation. Replace it with a new battery as soon as possible.)
- When inserting the batteries, be sure to do so in the proper direction, following the "⊕" and "⊖" marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
 - Do not use a new battery together with an old one.
 - Do not use two different types of batteries.
 - Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- Remove the batteries from the remote control unit when you do not plan to use it for an extended period of time.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- When replacing the batteries, have the new batteries ready and insert them as quickly as possible.
- The learned remote control signals may be cleared if no batteries are in the remote control unit for about 5 seconds. The factory-installed codes are in permanent memory, however.

Using the remote control unit



- Point the remote control unit at the remote sensor on the main unit as shown on the diagram.
- The remote control unit can be used from a straight distance of approximately 23 feet/7 meters from the main unit, but this distance will be shorter if there are obstacles in the way or if the remote control unit is not pointed directly at the remote sensor.
- The remote control unit can be operated at a horizontal angle of up to 30 degrees with respect to the remote sensor.

NOTES:

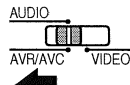
- It may be difficult to operate the remote control unit if the remote sensor is exposed to direct sunlight or strong artificial light.
- Do not press buttons on the main unit and remote control unit simultaneously. Doing so may result in malfunction.
- Neon signs or other devices emitting pulse-type noise nearby may result in malfunction, so keep the set as far away from such devices as possible.

Operating DENON audio components

- Turn on the power of the different components before operating them.

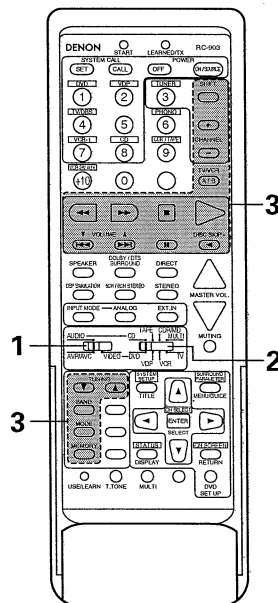
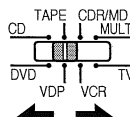
1

Set mode switch 1 to "AUDIO (AVR/AVC)".



2

Set mode switch 2 to the position for the component to be operated.



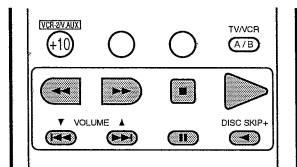
3

Operate the audio component.

- For details, refer to the component's operating instructions.

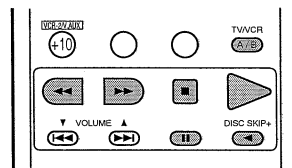
※ While this remote control is compatible with a wide range of infrared controlled components, some models of components may not be operated with this remote control.

1. CD player (CD) and CD recorder and MD recorder (CDR/MD) system buttons



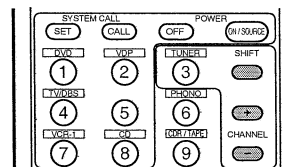
- ◀▶ : Manual search (forward and reverse)
- : Stop
- ▶ : Play
- ◀▶▶ : Auto search (cue)
- ⏸ : Pause
- DISC : Switch discs
- SKIP+ : (for CD changers only)

2. Tape deck (TAPE) system buttons



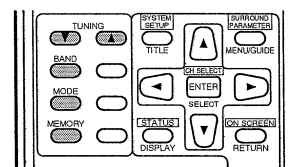
- ◀▶ : Rewind
- ▶▶ : Fast-forward
- : Stop
- ▶ : Forward play
- ⏸ : Pause
- ◀ : Reverse play
- A/B : Switch between decks A and B

3. Tuner system buttons



- SHIFT : Switch preset channel range
- CHANNEL : Preset channel
- +, - : up/down

* For the tuner only, the following buttons can also be operated:

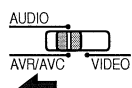


- TUNING : Frequency
- ▲, ▼ : up/down
- BAND : Switch between the AM and FM bands
- MODE : Switch between auto and mono
- MEMORY : Preset memory

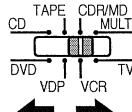
Preset memory (Audio component)

- DENON components can be operated by setting the preset memory for CDR or MD. **Operation is not possible for some models, however. In this case use the learning function (see page 32) to store the remote control signals.**
- For instructions on clearing the presets stored in the preset memory, see page 35.

- 1** Set the slide switch to "AUDIO".

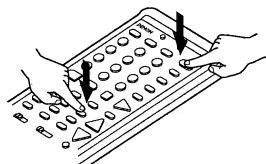


- 2** Set the slide switch to "CDR/MD".

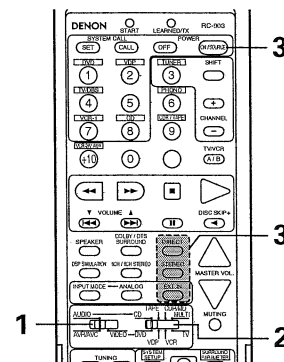


(Keep the POWER button pressed in when performing steps 3 and 4)

- 3** Holding in the POWER button, press the button for the components you want to set.



The LEARNED/TX LED flashes.



Combinations of Personal System Codes

"CDR/MD"

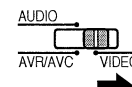
	DIRECT (DIRECT)	STEREO (STEREO)	EXT. IN (EXT. IN)
(POWER)	DENON CDR A	DENON CDR B	DENON MD

*  Preset codes set upon shipment from the factory.

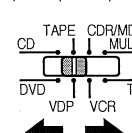
Preset memory (Video component)

- DENON and other makes of components can be operated by setting the preset memory for your make of video component. **Operation is not possible for some models, however. In this case use the learning function (see page 32) to store the remote control signals.**
- For instructions on clearing the presets stored in the preset memory, see page 35.

- 1** Set the slide switch to "VIDEO".

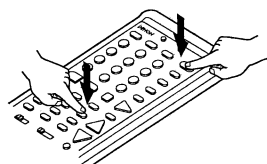


- 2** Set the slide switch to the component to be registered (DVD, VDP, VCR or TV).

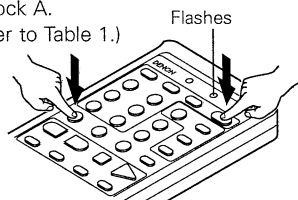


(Keep the POWER button pressed in when performing steps 3 and 4)

- 4** Next, while holding the POWER button, press the button for the code in block B. (Refer to Table 1.) The operation is completed when the button is released and the LEARNED/TX LED lights.

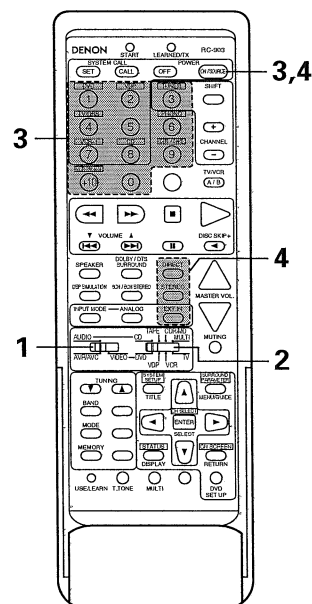


- 3** Holding in the POWER button, press the button for the corresponding manufacturer in block A. (Refer to Table 1.)



The LEARNED/TX LED flashes.

- 5** To continue registering other components, repeat steps 2 to 4.



- This remote control unit can be used to operate components of other manufacturers without using the learning function by registering the manufacturer of the component as shown on Table 1.

Table 1: Combinations of Personal System Codes for Different Manufacturers

"DVD"

A \ B	DIRECT (DIRECT)	STEREO (STEREO)	EXT. IN (EXT. IN)
① (DVD)	DENON A	DENON B	—
② (VDP)	—	—	—
③ (TUNER)	—	—	—
④ (TV/DBS)	PANASONIC	—	—
⑤	—	—	—
⑥ (PHONO)	SONY	—	—
⑦ (VCR-1)	PIONEER	—	—
⑧ (CD)	TOSHIBA	—	—
⑨ (CDR/TAPE)	—	—	—
⑩ (VCR-2/V.AUX)	—	—	—
⑪	—	—	—
SHIFT (SHIFT)	—	—	—
CHANNEL+ (CHANNEL +)	—	—	—
CHANNEL- (CHANNEL -)	—	—	—
A/B (A/B)	—	—	—

"VDP"

A \ B	DIRECT (DIRECT)	STEREO (STEREO)	EXT. IN (EXT. IN)
① (DVD)	DENON A	DENON B	DENON C
② (VDP)	—	—	—
③ (TUNER)	mitsubishi	—	—
④ (TV/DBS)	PANASONIC	—	—
⑤	—	—	—
⑥ (PHONO)	SONY A	SONY B	SONY C
⑦ (VCR-1)	PIONEER	—	—
⑧ (CD)	—	—	—
⑨ (CDR/TAPE)	—	—	—
⑩ (VCR-2/V.AUX)	—	—	—
⑪	—	—	—
SHIFT (SHIFT)	PHILIPS	—	—
CHANNEL+ (CHANNEL +)	RCA	—	—
CHANNEL- (CHANNEL -)	—	—	—
A/B (A/B)	MAGNAVOX	—	—

"VCR"

A \ B	DIRECT (DIRECT)	STEREO (STEREO)	EXT. IN (EXT. IN)
① (DVD)	—	—	—
② (VDP)	HITACHI A	HITACHI B	—
③ (TUNER)	MITSUBISHI A	MITSUBISHI B	MITSUBISHI C
④ (TV/DBS)	PANASONIC A	PANASONIC B	PANASONIC C
⑤	JVC (VICTOR) A	JVC (VICTOR) B	JVC (VICTOR) C
⑥ (PHONO)	SONY A	SONY B	SONY C
⑦ (VCR-1)	PIONEER	—	—
⑧ (CD)	TOSHIBA A	TOSHIBA B	—
⑨ (CDR/TAPE)	SANYO A	SANYO B	—
⑩ (VCR-2/V.AUX)	SHARP A	SHARP B	—
⑪	NEC A	NEC B	NEC C
SHIFT (SHIFT)	PHILIPS A	PHILIPS B	PHILIPS C
CHANNEL+ (CHANNEL +)	RCA A	RCA B	—
CHANNEL- (CHANNEL -)	GENERAL ELECTRIC A	GENERAL ELECTRIC B	—
A/B (A/B)	MAGNAVOX A	MAGNAVOX B	MAGNAVOX C

"TV"

A \ B	DIRECT (DIRECT)	STEREO (STEREO)	EXT. IN (EXT. IN)
① (DVD)	—	—	—
② (VDP)	DENON/HITACHI	—	—
③ (TUNER)	MITSUBISHI A	MITSUBISHI B	—
④ (TV/DBS)	PANASONIC A	PANASONIC B	—
⑤	JVC (VICTOR)	—	—
⑥ (PHONO)	SONY	—	—
⑦ (VCR-1)	PIONEER	—	—
⑧ (CD)	TOSHIBA	—	—
⑨ (CDR/TAPE)	SANYO	—	—
⑩ (VCR-2/V.AUX)	SHARP	—	—
⑪	NEC	—	—
SHIFT (SHIFT)	PHILIPS	—	—
CHANNEL+ (CHANNEL +)	RCA	—	—
CHANNEL- (CHANNEL -)	GENERAL ELECTRIC A	GENERAL ELECTRIC B	—
A/B (A/B)	MAGNAVOX	—	—

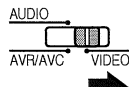
*  Preset codes set upon shipment from the factory.

NOTES:

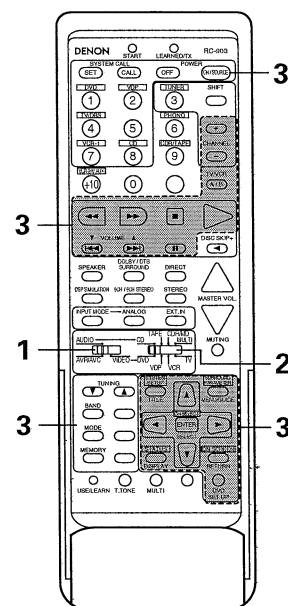
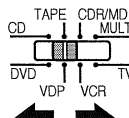
- The signals for the pressed buttons are emitted while setting the preset memory. To avoid accidental operation, cover the remote control unit's transmitting window while setting the preset memory.
- Some models and years of manufacture of components of the manufacturers listed on Table 1 cannot be used.
- The signals stored at "learned" buttons have priority over the preset codes. If you wish to clear the "learned" signals, do so as described on page 35.
- Some manufacturers use different types of remote control codes for their products. If the component does not operate when set to remote codeset A, try setting to the B or C codesets.

Operating a video component stored in the preset memory

- 1** Set the slide switch to "VIDEO".



- 2** Set the slide switch to the component to be registered (DVD, VDP, VCR or TV).



- 3** Operate the video component.
- For details, refer to the component's operating instructions.
 - ※ Some models cannot be operated with this remote control unit.

1. DVD player system buttons

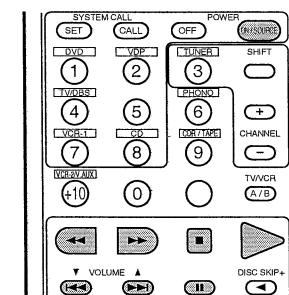
POWER : Turns power on and off (ON/SOURCE)
◀▶ : Manual search (forward and reverse)
■ : Stop
▶ : Play
◀▶▶▶ : Auto search (cue)
|| : Pause
SKIP + : (for DVD changers only)
TITLE : Call out title

MENU : Call out menu
DISPLAY : Switch display
DVD SET UP : DVD setup
RETURN : Menu return
▲▼ : Cursor up/down
◀▶ : Cursor left/right
SELECT : Enter setting

NOTE:

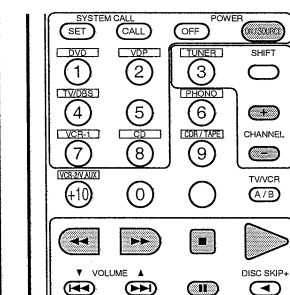
Some manufacturers use different names for the DVD remote control buttons, so also refer to the instructions on remote control for that component.

2. Video disc player (VDP) system buttons



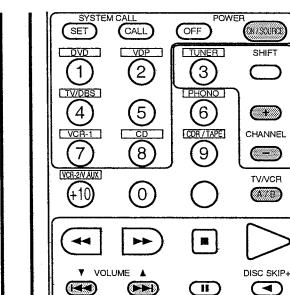
POWER : Power on/off (ON/SOURCE)
◀▶ : Manual search (forward and reverse)
■ : Stop
▶ : Play
◀▶▶▶ : Auto search (cue)
|| : Pause

3. Video deck (VCR) system buttons



POWER : Power on/off (ON/SOURCE)
◀▶ : Manual search (forward and reverse)
■ : Stop
▶ : Play
|| : Pause
CHANNEL : Switch channel
+, -

4. Monitor TV system buttons

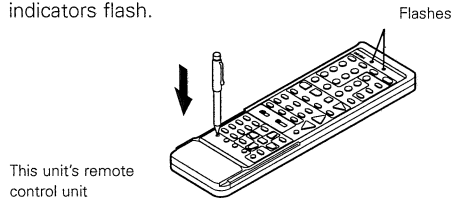


POWER : Power on/off (ON/SOURCE)
VOLUME : Volume
▲▼ : up/down
TV/VCR : Switch between TV and VCR
CHANNEL : Switch channel
+, -

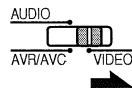
Learning function

- If your AV component is not a DENON product or it cannot be operated with the preset memory codesets, you can "teach" the AVR-2802/982's remote control to "learn" the codes from the component's original remote control.
- The buttons that can be "learned" are the CD, TAPE and CDR/MD system buttons (see page 28) and the DVD, VDP, VCR and TV system buttons (see page 31). (For the CD, CDR/MD, DVD, VDP and TV, the A block buttons can also be "learned", and for the DVD and TV, the B block buttons can also be "learned".)

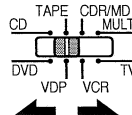
- 1 Press the USE/LEARN selector button with the tip of a pen etc., to set the learn mode. Both the START and LEARNED/TX indicators flash.



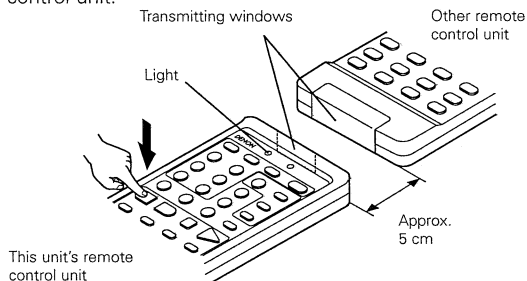
- 2 Set the program switch to the side to be learned. Set to the AUDIO side for the CD, tape deck or CDR/MD position, to the VIDEO side for the DVD, VDP, VCR or TV position.



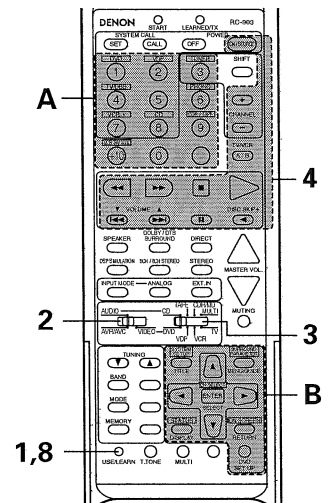
- 3 Set the program switch to the position to be learned.



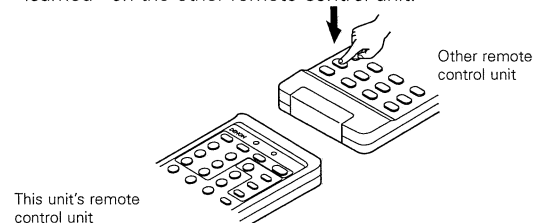
- 4 Set the remote control units so they are facing each other, then press the button to be learned on this unit's remote control unit.



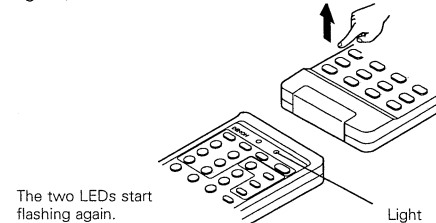
The indicator stops flashing and the START LED lights. The learnable buttons are the buttons which can be operated with the DENON system codes for the CD player, tape deck, CD recorder, MD recorder, the buttons which can be operated with the preset memory for the DVD, VCR, VDP and TV. For the TV only, however, the buttons in the section indicated "A" on the diagram above can also be "learned". Use these to "learn" TV channels.



- 5 Check that the START LED is lit, then press the button to be "learned" on the other remote control unit.

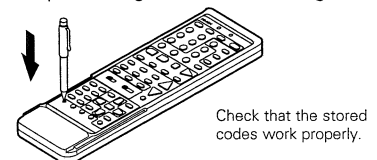


- 6 Once the START LED turns off and the LEARNED/TX LED lights, release the button on the other remote control unit.



- 7 To "learn" other buttons, repeat steps 2 to 6.

- 8 Once the learning operation is completed, press the USE/LEARN selector button again. The two LEDs stop flashing and the learning mode is cancelled.



NOTES:

- Up to 26 codes can be "learned", but this number may be lower if the codes are long.
- If a non-learnable button is pressed or two or more buttons are pressed at once, the two LEDs will once again light when the button(s) is released.
- If the codes could not be stored, the LEARNED/TX LED does not light after the START LED turns off. For limited number of models, codes cannot be stored in RC-903.
- If the two LEDs start flashing rapidly after the START LED lights, this means that the memory is already full, and the code you have just attempted to store was not stored. To "learn" that code, first perform the resetting operation. (See page 35.)

System call function

- The included remote control unit is equipped with a system call function for transmitting multiple remote control signals when a single button is pressed (this is often referred to as a "macro" function).

This function can be used to turn on the amplifier's power, select the input source, turn on the monitor TV's power, turn on a source component's power and start playback, etc., all at the touch of a button.

(1) System call buttons

The buttons that can be used for the system call function are shown on the table below.

A series of up to 10 operations can be performed with the POWER ON and OFF buttons, and a series of up to 5 operations can be performed with other buttons.

System call signals are already preset at the buttons indicated in the shaded section. System call signals can also be stored at any button on the remote control unit, including the buttons in this section. (See page 34.)

Button	No. transmissions	Stored operation 1	Stored operation 2	Stored operation 3	Stored operation 4	Stored operation 5	Stored operation 6	Stored operation 7	Stored operation 8	Stored operation 9	Stored operation 10
POWER OFF	10										
POWER ON	10										
DVD	5	Receiver power on	DVD player (DVD) power on	Receiver input source switched to DVD	TV power on	DVD player (DVD) playback					
VDP	5	Receiver power on	LD player (VDP) power on	Receiver input source switched to VDP	TV power on	LD player (VDP) playback					
TV/DBS	5	Receiver power on	TV power on	Receiver input source switched to TV/DBS							
VCR-1	5	Receiver power on	Video (VCR) power on	Receiver input source switched to VCR-1	TV power on	Video (VCR) playback					
CD	5	Receiver power on	Receiver input source switched to CD								

The system call signals for the POWER OFF and POWER ON buttons are transmitted from the remote control unit approximately once every second.

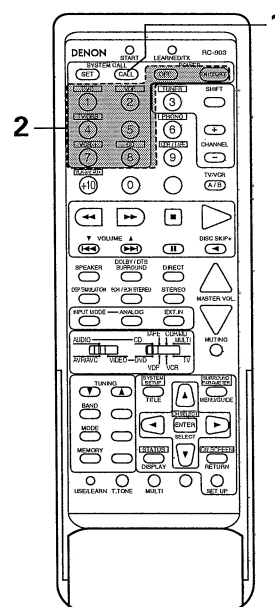
The signals for the other buttons (DVD, VDP, TV / DBS, VCR-1 and CD) are transmitted approximately once every 1.5 seconds.

(2) Using the system call function

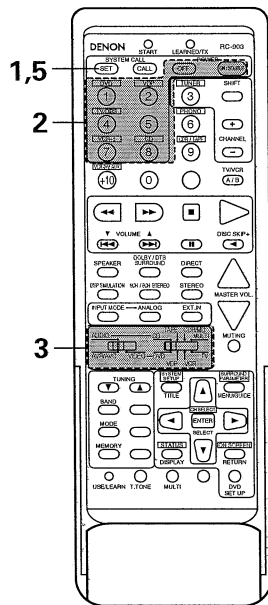
- Press the system call button.
 - The LEARNED/TX LED flashes for 5 seconds.



- Press the button at which the desired system call signals are stored while the LEARNED/TX LED is flashing.
 - The preset signals or the signals you have stored at that button are transmitted in succession.



(3) Storing signals



- 1** Press the SET button.
 - The START LED and LEARNED/TX LED both flash.



- 2** Press the button at which you want to store the system call signals.
 - The START LED flashes.

- 3** Set the mode switch to the position for the component whose remote control signals you want to store.

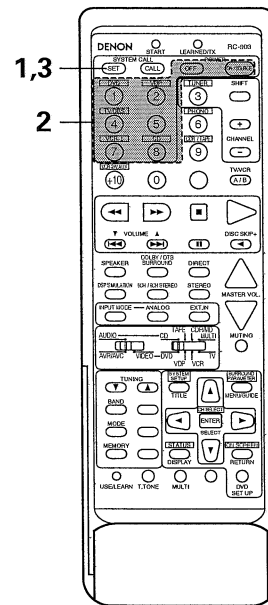


- 4** Press the buttons whose remote control signals you want to store one by one.

- 5** Press the SET button.



(4) Clearing system call settings



- 1** Press the SET button.



- 2** Press the button whose settings you want to clear.

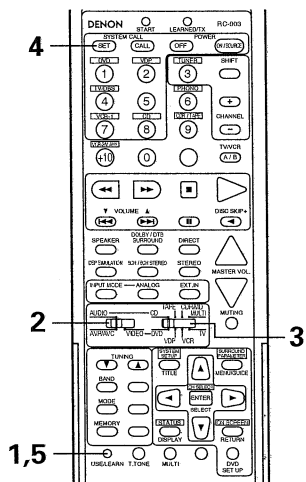
- 3** Press the SET button.
 - The button is reset to the settings shown on the table on page 33.



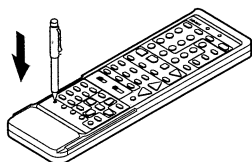
NOTES:

- The remote control signals for the buttons pressed while storing the system call signals are transmitted when the buttons are pressed, so cover the remote sensor or take other measures so that the components do not operate while the signals are being stored.
- The LEARNED/TX LED does not light if system call signals cannot be stored at the button that you have pressed or if you have already stored the maximum number of signals.

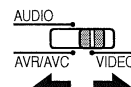
Clearing "learned" remote control signals



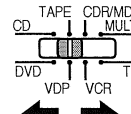
- 1 Press the USE/LEARN selector button with the tip of a pen, etc., to set the learn mode.



- 2 To clear "learned" remote control signals, set the slide switch to the position at which the signals were "learned".

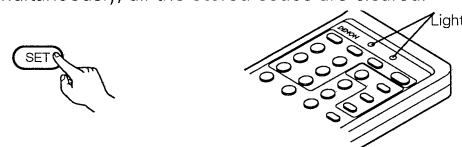


- 3 Set the slide switch to the position at which the signals were "learned".



- 4 Press the SYSTEM CALL SET button, and hold it in for at least four seconds.

- When both the START and LEARNED/TX LEDs light simultaneously, all the stored codes are cleared.



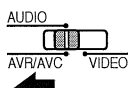
- 5 Press the USE/LEARN selector button.

9 OPERATION

Before operating

- 1 Refer to "CONNECTIONS" (pages 6 to 13) and check that all connections are correct.

- 2 Set the remote control unit's slide switch to the AUDIO position. (only when operating with the remote control unit)



- 3 Turn on the power. Press the POWER switch (button).



When pressed, the power turns on and the display lights. The sound is muted for several seconds, after which the unit operates normally. When pressed again, the power turns off, the standby mode is set and the display turns off.

Whenever the ON/STANDBY button is in the STANDBY state, the apparatus is still connected on AC line voltage. Please be sure to unplug the cord when you leave home for, say, a vacation.

- 4 Select the front speakers. Press SPEAKER A or B turn the speaker on.

