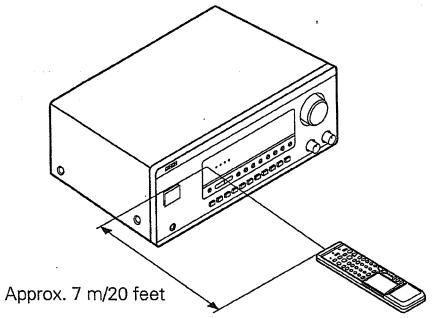
7 REMOTE CONTROL UNIT

Following the procedure outlined below, insert the batteries before using the remote control unit.

Range of operation of the remote control unit



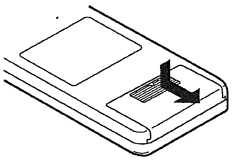
Point the remote control unit at the remote control sensor as shown on the diagram at the left.

NOTES:

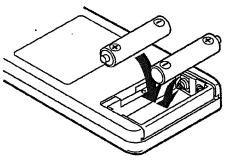
- The remote control unit can be used from a straight distance of approximately 7 meters/20 feet, but this distance will shorten or operation will become difficult if there are obstacles between the remote control unit and the remote control sensor, if the remote control sensor is exposed to direct sunlight or other strong light, or if operated from an angle.
- 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.

Inserting the batteries

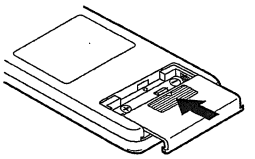
① Press as shown by the arrow and slide off.



② Insert the SUM3 batteries properly, as shown on the diagram.



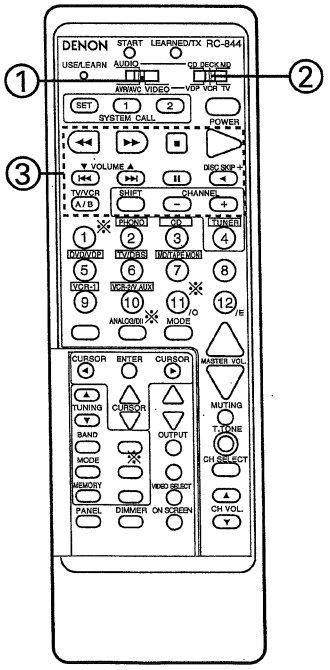
③ Close the lid.



NOTES:

- Use only AA, R6P, UM-3 batteries for replacement.
- Be sure the polarities are correct. (See the illustration inside the battery compartment.)
- Remove the batteries if the remote control transmitter will not be used for an extended period of time.
- If batteries leak, dispose of them immediately. Avoid touching the leaked material or letting it come in contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.
- Have replacement batteries on hand so that the old batteries can be replaced as quickly as possible when the time comes.
- The codes that have been learned may be lost if removed batteries are not replaced within about 5 minutes.

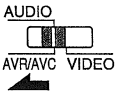
System code buttons



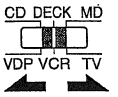
※ These buttons does not function. (Some buttons can be used by using the preset memory or the learning function.)

DENON remote-controllable audio components can be controlled using this unit's remote control unit.
Note that some components, however, cannot be operated with this remote control unit.

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

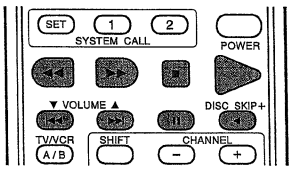


2 Set the slide switch to the position for the component to be operated (CD, DECK or MD).



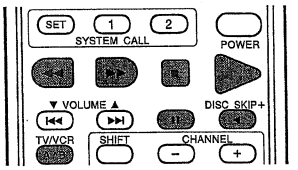
3 Use the buttons shown below to operate the audio component.
For details, refer to the respective component's manual.

a. For CD players and MDs



◀◀,▶▶ : Manual search (reverse and forward)
■ : Stop
▶ : Play
⏮,⏭ : Auto search
❚❚ : Pause
DISC SKIP+ : Disc selection (CD changer only)

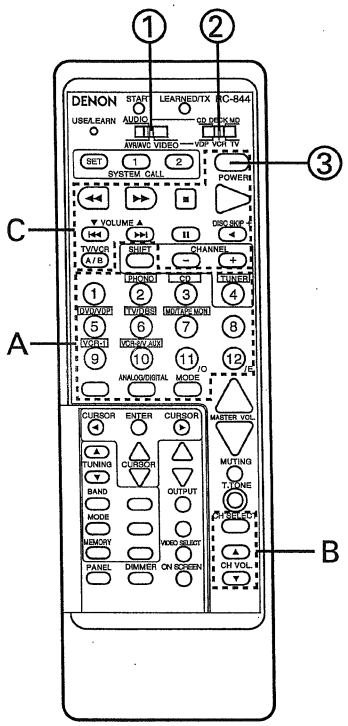
b. For tape decks (DECK)



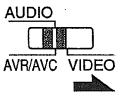
◀◀ : Reverse
▶▶ : Forward
■ : Stop
▶ : Forward play
❚❚ : Pause
A/B : A/B deck selection
◀ : Reverse play

Preset memory

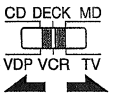
Denon and other makes of components can be operated by setting the preset memory for your make of video component. **Operation is not possible for some models, however. In this case use the learning function (see page 22) to store the remote control signals.** For instructions on clearing the presettings stored in the preset memory, see page 23.



1 Set the slide switch to "VIDEO".

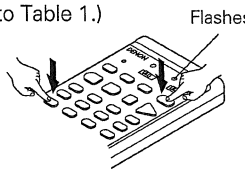


2 Set the slide switch to the component to be registered (VDP, VCR or TV).



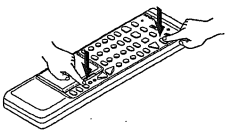
(Keep the POWER button pressed in when performing steps 3 and 4.)

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.

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



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

"VDP"

A \ B	CH SELECT	CH VOL. ▲	CH VOL. ▼
①	DENON A	DENON B	DENON C
② (PHONO)	DENON (DVD)	–	–
③ (CD)	MITSUBISHI	–	–
④ (TUNER)	PANASONIC	–	–
⑤ (DVD/VDP)	–	–	–
⑥ (TV/DBS)	SONY A	SONY B	SONY C
⑦ (MD/TAPE MON)	PIONEER	–	–
⑧	–	–	–
⑨ (VCR-1)	–	–	–
⑩ (VCR-2/V.AUX)	–	–	–
⑪ /0	–	–	–
⑫ /E	PHILIPS	–	–
RF AUTO/MANUAL	RCA	–	–
ANALOG/DIGITAL	–	–	–
MODE	NAGNAVOX	–	–

"VCR"

A \ B	CH SELECT	CH VOL. ▲	CH VOL. ▼
①	–	–	–
② (PHONO)	HITACHI A	HITACHI B	–
③ (CD)	MITSUBISHI A	MITSUBISHI B	MITSUBISHI C
④ (TUNER)	PANASONIC A	PANASONIC B	PANASONIC C
⑤ (DVD/VDP)	JVC (VICTOR) A	JVC (VICTOR) B	JVC (VICTOR) C
⑥ (TV/DBS)	SONY A	SONY B	SONY C
⑦ (MD/TAPE MON)	PIONEER	–	–
⑧	TOSHIBA A	TOSHIBA B	–
⑨ (VCR-1)	SANYO A	SANYO B	–
⑩ (VCR-2/V.AUX)	SHARP A	SHARP B	–
⑪ /0	NEC A	NEC B	NEC C
⑫ /E	PHILIPS A	PHILIPS B	PHILIPS C
RF AUTO/MANUAL	RCA A	RCA B	–
ANALOG/DIGITAL	GENERAL ELECTRIC A	GENERAL ELECTRIC B	–
MODE	NAGNAVOX A	NAGNAVOX B	NAGNAVOX C

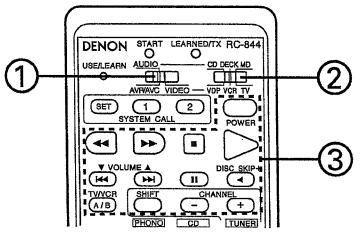
"TV"

A \ B	CH SELECT	CH VOL. ▲	CH VOL. ▼
①	–	–	–
② (PHONO)	DENON/HITACHI	–	–
③ (CD)	MITSUBISHI A	MITSUBISHI B	–
④ (TUNER)	PANASONIC A	PANASONIC B	–
⑤ (DVD/VDP)	JVC (VICTOR)	–	–
⑥ (TV/DBS)	SONY	–	–
⑦ (MD/TAPE MON)	PIONEER	–	–
⑧	TOSHIBA	–	–
⑨ (VCR-1)	SANYO A	–	–
⑩ (VCR-2/V.AUX)	SHARP	–	–
⑪ /0	NEC A	–	–
⑫ /E	PHILIPS A	–	–
RF AUTO/MANUAL	RCA A	–	–
ANALOG/DIGITAL	GENERAL ELECTRIC A	GENERAL ELECTRIC B	–
MODE	NAGNAVOX A	–	–

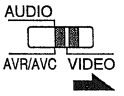
NOTES:

- 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 unit is equipped with several types of remote control codes which depend on the manufacturer. If there is no operation when set to A, please change the setting to B or C and try again.

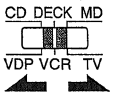
Operation after components are registered



1 Set the slide switch to "VIDEO".

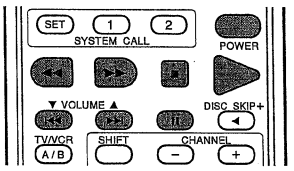


2 Set the slide switch to the component to be registered (VDP, VCR or TV).



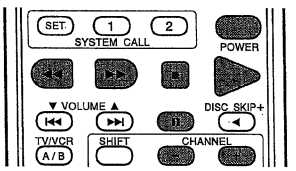
3 Use the buttons shown below to operate the video component. (Some models cannot be used.)
For details, refer to the respective component's manual.

a. VDP



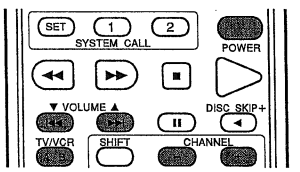
POWER : Power on/off
◀◀,▶▶ : Manual search (reverse and forward)
■ : Stop
▶ : Play
⏮,⏭ : Auto search
❚❚ : Pause

b. VCR



POWER : Power on/off
◀◀,▶▶ : Manual search (reverse and forward)
■ : Stop
▶ : Play
❚❚ : Pause
CHANNEL +, – : Channel selection

c. TV

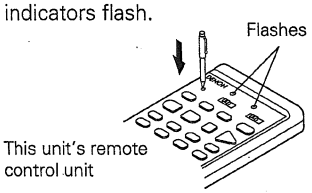


POWER : Power on/off
VOLUME ▲,▼ : Volume up/down
TV/VCR : TV/video selection
CHANNEL +, – : Channel selection

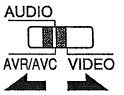
Remote control unit learning function

If your AV components are not DENON products or if operation is not possible with the preset memory settings, the components' remote control signals can be "learned" to enable remote control operation.
The buttons that can be "learned" are the CD, MD and DECK system buttons (see page 19) and the VDP, VCR and TV system buttons (see page 21). (For the TV only, the A block buttons can also be "learned".)

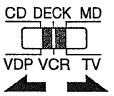
1 Press the USE/LEARN selector button with the tip of a pen etc., to set the learn mode. Both the START and LEARNED/TX indicators flash.



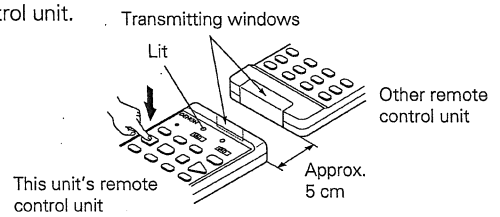
2 Set the program switch to the side to be "learned".
Set to the AUDIO side for the CD, tape deck or MD position, to the VIDEO side for the VDP, VCR or TV position.



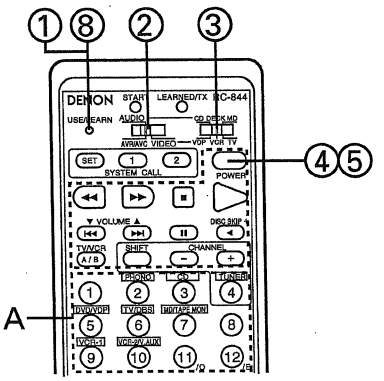
3 Set the program switch to the position to be "learned".



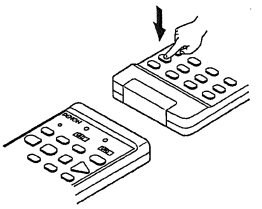
4 Set the remote control units so they are facing each other, then press the button to be "learned" on this unit's remote control unit.



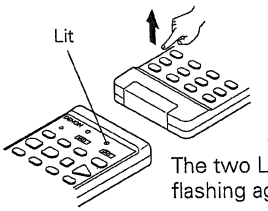
The indicator stops flashing and the START LED lights.
The learnable buttons are the buttons which can be operated with the DENON system codes for the CD player, MD and tape deck, the buttons which can be operated with the preset memory for the VCR, VDP and TV. For the TV only, however, the buttons in the section indicated "A" on the diagram above can also be "learned". Use these to "learn" TV channels.
NOTE: Use button ⑪/0 as the 0 number button, button ⑫/E as the enter button.



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

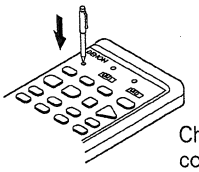


6 Once the START LED turns off and the LEARNED/TX LED lights, release the button on the other remote control unit.



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.

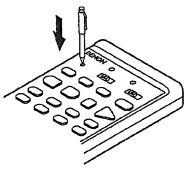


NOTES:

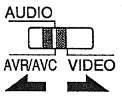
- Up to 26 codes can be "learned", but this number may be lower if the codes are long.
- If a non-learnable button is pressed or two or more buttons are pressed at once, the two LEDs will once again light when the button(s) is released.
- If the codes could not be stored, the LEARNED/TX LED does not light after the START LED turns off. For limited number of models, codes cannot be stored in RC-844.
- 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.

Clearing "learned" remote control signals and the preset memory settings

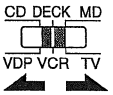
1 Press the USE/LEARN selector button with the tip of a pen, etc., to set the learn mode.

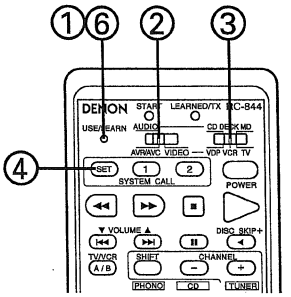


2 To clear "learned" remote control signals, set the slide switch to the position at which the signals were "learned". To clear the preset memory settings, set the slide switch to "VIDEO".

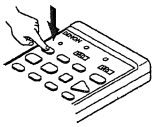


3 Set the slide switch to the position at which the signals were "learned" or at which the preset memory settings were set.

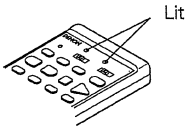




4 Press the SYSTEM CALL SET button, and hold it in for at least four seconds.



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

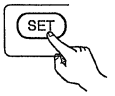


6 Press the USE/LEARN selector button.

System call (remote control unit)

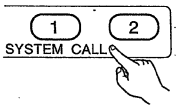
This function allows you to preset frequently used operation patterns in the remote control unit then automatically send a series of up to ten remote control codes with a single button.

1 **Presetting**
Press the SET button.

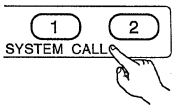


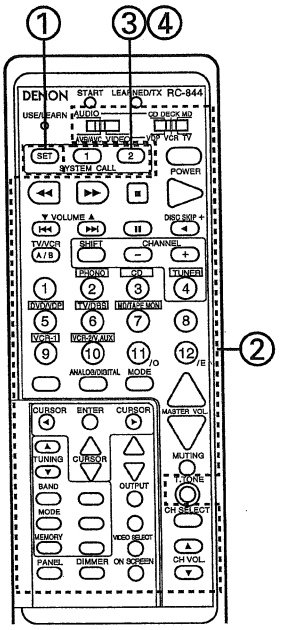
2 Press the buttons for the codes to be sent, changing the position of the slide switch as necessary. (Up to ten buttons can be set.)
Buttons which have been "learned" and buttons which have been preset can also be selected.

3 Press the SYSTEM CALL button ("1" or "2") at which you want to store the codes.
The setting is now stored.



4 **Recalling**
Press the SYSTEM CALL button ("1" or "2") at which the desired codes have been stored. The series of codes is now sent.





9 USING THE SURROUND FUNCTION

Dolby Surround

This unit is equipped with digital signal processing sections for decoding and reproducing movie soundtracks the same way as in movie theaters.

1. DOLBY PRO LOGIC

When using conventional video tapes, laser discs, TV programs or CDs with the DOLBY SURROUND mark, Dolby Pro Logic provides extremely natural sound movement and positioning, immersing you in the on-screen action. Pro Logic uses a directional emphasis circuit to decode four output channels (front left and right, center and surround) from the two audio channels provided on the software.
This set is equipped with four Dolby Pro Logic play modes: Normal, Phantom, Wide and 3-channel. The set automatically selects the optimum mode according to the system setup's speaker configuration settings.

2. DOLBY DIGITAL

When you connect the DVD player or an LD player with an Dolby Digital RF (AC-3RF) output to the Dolby Digital RF (AC-3RF) input terminal and play DVD, laser discs with DOLBY DIGITAL mark, you can experience improved sound spatiality, positioning, and impact compared with Pro Logic. This is because Dolby Digital delivers up to 5 totally discrete, full frequency audio channels (front left and right, center, and surround left and right), plus a bass-only effects channel. Since the signal is digital from the input of the program source until to the output of this unit, a higher quality and clarity of surround sound results.
Dolby Digital AC-3 (Audio Coding 3) is a system developed by Dolby Laboratories that transmits 5.1 channels of digital signals. The surround system developed for movie theaters using this system is called "Dolby SR-D (Surround Digital)". Whereas the conventional Dolby Pro Logic Surround is an analog matrix system, Dolby SR-D is a digital discrete system in which the different channels are completely independent. This makes it possible to achieve a realistic sound field with a "three-dimensional" feel, giving the sound a sense of distance, movement and relative position, and creating a surprisingly real and powerful sense of presence when playing movie software in AV rooms.
There are "5.1 ch" playback channels: three front channels (front left, center and front right), two surround channels (surround left and surround right), plus "0.1 channel" called LFE (Low Frequency Effect) for low bass effect sounds of 120 Hz or less. The signals are recorded on the software in fully discrete fashion, eliminating crosstalk between channels and making it possible to control the sound field in the listening / viewing space with greater precision.
In addition, the frequency range of the five channels extends up to 20 kHz, (the same as CDs,) resulting in clear sound with greater richness of expression.

- **Dolby Digital and Pro Logic**

Home surround methods	Dolby Digital	Dolby Pro Digital
No. recording channels (material)	5.1 ch	2 ch
No. playback channels	5.1 ch	4 ch
Playback channels	L, R, C, SL, SR and SW	L, R, C, S (SW recommended)
Audio processing	Digital discrete processing, AC-3 encoding/decoding	Analog matrix processing, Dolby Surround
Upper reproduction limit of surround channel	20 kHz	7 kHz