

FM Stereo FM-AM Receiver

Operating Instructions _____ **GB**

使用说明书 _____ **CS**

STR-DE590

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To prevent fire, do not cover the ventilation of the apparatus with newspapers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.



Don't throw away the battery with general house waste, dispose of it correctly as chemical waste.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.



ENERGY STAR® is a U.S. registered mark.

As an ENERGY STAR® partner, Sony Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

This receiver incorporates Dolby* Digital and Pro Logic Surround and the DTS** Digital Surround System.

* Manufactured under license from Dolby Laboratories.

“Dolby”, “Pro Logic” and the double-D symbol are trademarks of Dolby Laboratories.

** “DTS” and “DTS Digital Surround” are registered trademarks of Digital Theater Systems, Inc.

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GB

About This Manual

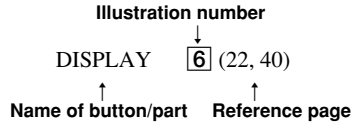
The instructions in this manual is for model STR-DE590. Check your model number by looking at the lower right corner of the front panel.

Tip

The instructions in this manual describe the controls on the receiver. You can also use the controls on the supplied remote if they have the same or similar names as those on the receiver. For details on the use of your remote, see pages 34–37.

How to use this page

Use this page to find the location of buttons that are mentioned in the text.



Main unit

ALPHABETICAL ORDER

A - L

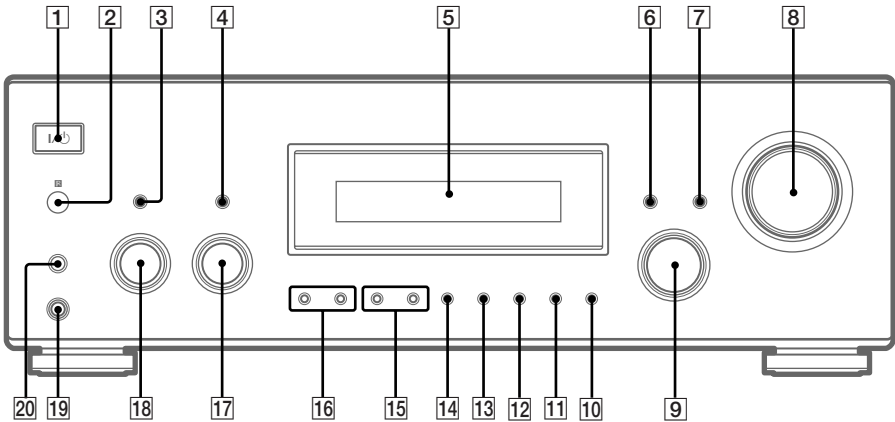
- A.F.D. **12** (23–25)
- DISPLAY **6** (22, 40)
- Display **5** (22, 26)
- FM MODE **14** (29)
- INPUT MODE **7** (21)
- INPUT SELECTOR **9** (20, 21, 29, 30, 31)
- IR (receptor) **2** (34, 40)

M - Z

- MAIN MENU **3** (16, 27, 28, 31, 32, 43)
- MASTER VOLUME **8** (20, 21, 38)
- MEMORY/ENTER **4** (15, 16, 17, 30, 31, 33)
- MENU **18** (16, 27, 28, 31, 32, 43)
- MOVIE **11** (24, 39)
- MUSIC **10** (24, 25, 39)
- PHONES (jack) **19** (21, 26, 39)
- PRESET TUNING +/- **16** (30)
- SPEAKERS (OFF/A/B/A+B) **20** (13, 22, 39)
- TUNING +/- **15** (29)

NUMBERS AND SYMBOLS

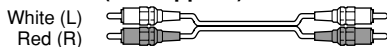
- 2CH **13** (23, 25, 28)
- I/⏻ (power) **1** (15, 20, 28, 33)
- /+ **17** (16, 17, 27, 28, 31, 32, 43)



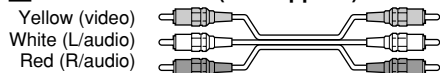
Required cords

The following optional connection cords **A** – **G** are required when you hook up the components (pages 8–11).

A Audio cord (not supplied)



B Audio/video cord (not supplied)



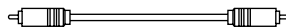
C Video cord (not supplied)



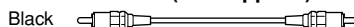
D Optical digital cord (not supplied)



E Coaxial digital cord (not supplied)



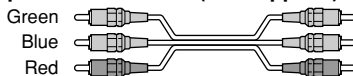
F Monaural audio cord (not supplied)



Tip

Audio cord **A** can be torn into two monaural audio cords **F**.

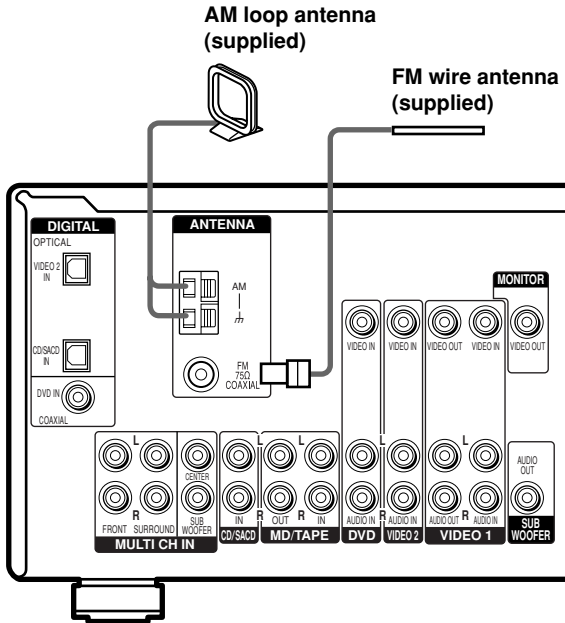
G Component video cord (not supplied)



Before you get started

- Turn off the power to all components before making any connections.
- Do not connect the AC power cord until all of the connections are completed.
- Be sure to make connections firmly to avoid hum and noise.
- When connecting an audio/video cord, be sure to match the color-coded pins to the appropriate jacks on the components: yellow (video) to yellow; white (left, audio) to white; and red (right, audio) to red.
- When you connect optical digital cords, insert the cord plugs straight in until they click into place.
- Do not bend or tie the optical digital cord.

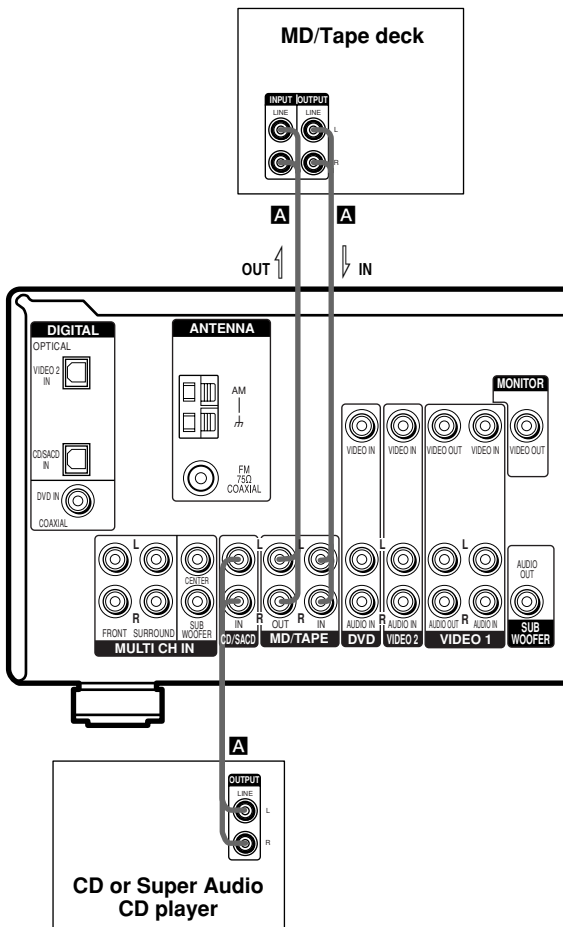
Antenna hookups



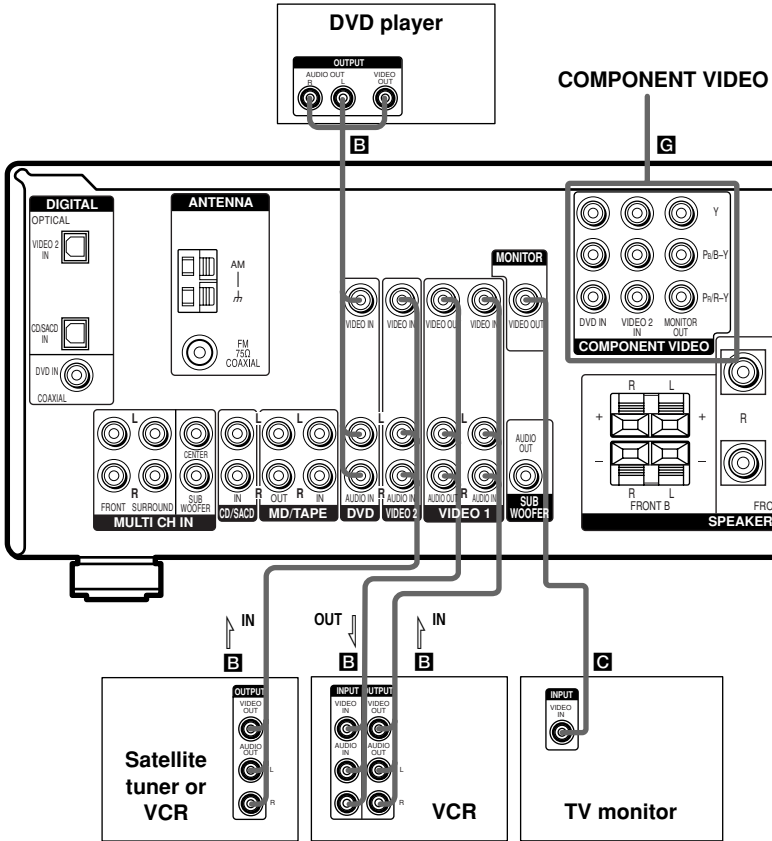
Notes on antenna hookups

- To prevent noise pickup, keep the AM loop antenna away from the receiver and other components.
- Be sure to fully extend the FM wire antenna.
- After connecting the FM wire antenna, keep it as horizontal as possible.

Audio component hookups



Video component hookups



Note on video component hookups

You can connect your TV's audio output jacks to the VIDEO 2 AUDIO IN jacks on the receiver and apply sound effects to the audio from the TV. In this case, do not connect the TV's video output jack to the VIDEO 2 VIDEO IN jack on the receiver. If you are connecting a separate satellite tuner, connect both the audio and video output jacks to the receiver as shown above.

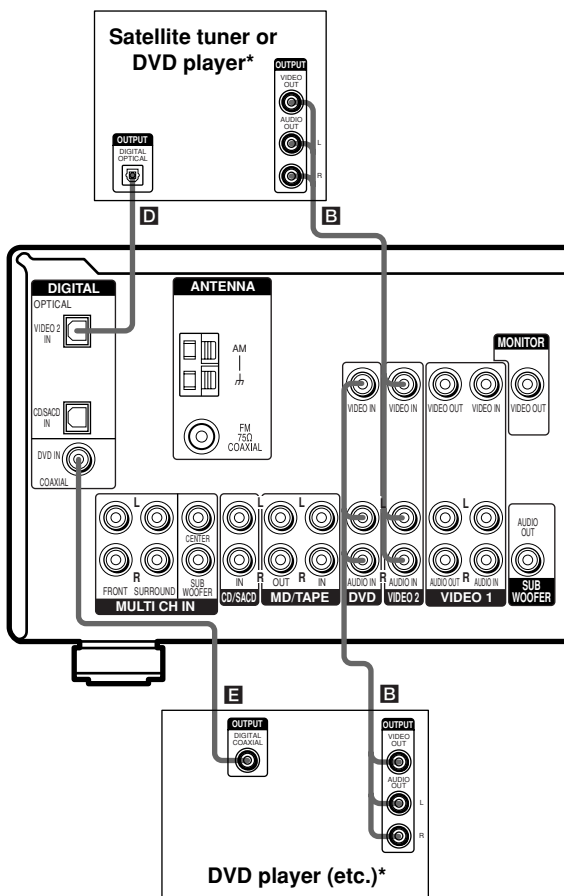
If you have a DVD player, TV or satellite tuner with COMPONENT VIDEO (Y, B-Y, R-Y) output jacks and a monitor with COMPONENT VIDEO input jacks, use a component video cord (not supplied) to connect to the receiver.

Digital component hookups

Connect the digital output jacks of your DVD player and satellite tuner (etc.) to the receiver's digital input jacks to bring the multi channel surround sound of a movie theater into your home. To fully enjoy multi channel surround sound, five speakers (two front speakers, two surround speakers, and a center speaker) and a sub woofer are required.

Notes

- All the OPTICAL and COAXIAL jacks are compatible with 96 kHz, 48 kHz, 44.1 kHz and 32 kHz sampling frequencies.
- The sound is not output when you play a Super Audio CD on the Super Audio CD player connected to the CD/SACD OPTICAL IN jack on this unit. Connect to the analog input jacks (CD/SACD IN jacks). Refer to the operating instructions supplied with the Super Audio CD player.



* Make either coaxial or optical connections. We recommend making coaxial connections instead of optical connections.

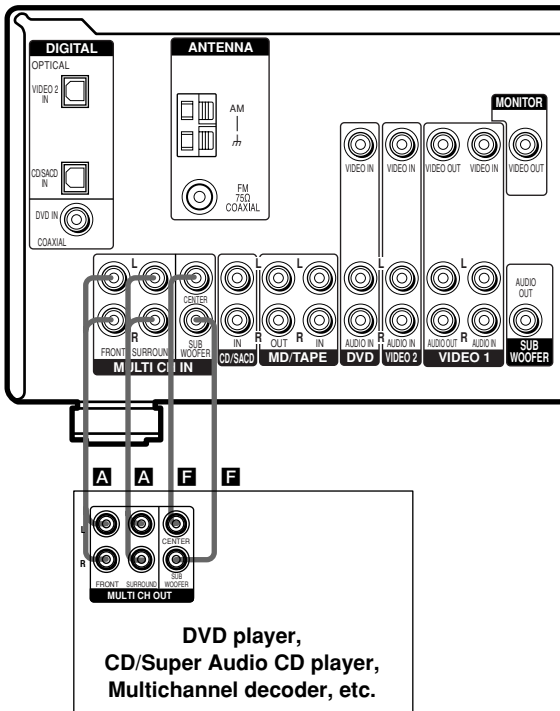
Multi channel input hookups

Although this receiver incorporates a multi channel decoder, it is also equipped with multi channel input jacks. These connections allow you to enjoy multi channel software encoded in formats other than Dolby Digital and DTS. If your DVD player is equipped with multi channel output jacks, you can connect them directly to the receiver to enjoy the sound of the DVD player's multi channel decoder. Alternatively, the multi channel input jacks can be used to connect an external multi channel decoder.

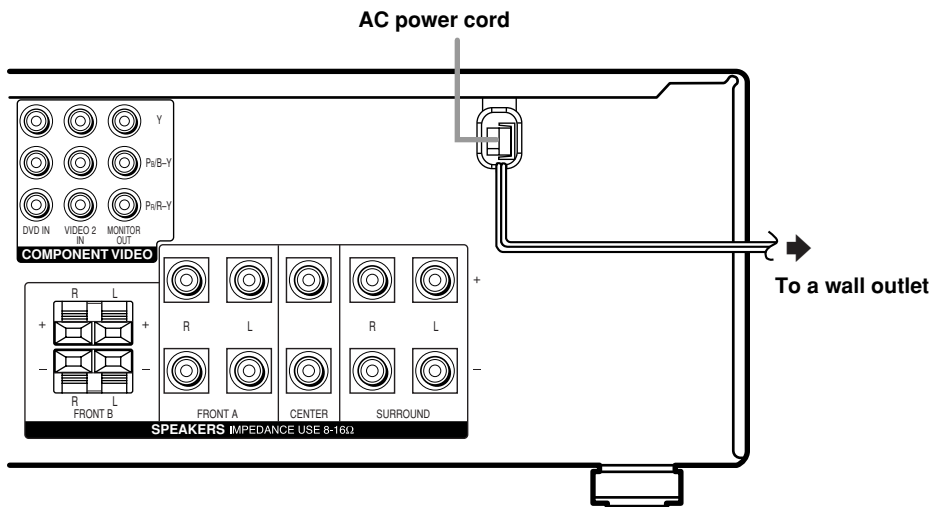
To fully enjoy multi channel surround sound, five speakers (two front speakers, two surround speakers, and a center speaker) and a sub woofer are required. Refer to the operating instructions supplied with your DVD player, multi channel decoder, etc., for details on the multi channel hookups.

Notes

- When using the connections described below, adjust the level of the surround speakers and sub woofer from the DVD player or multi channel decoder.
- See page 13 for details on speaker system hookup.



Other hookups



Connecting the AC power cord

Before connecting the AC power cord of this receiver to a wall outlet, connect the speaker system to the receiver (page 13).

Connect the AC power cord(s) of your audio/video components to a wall outlet.

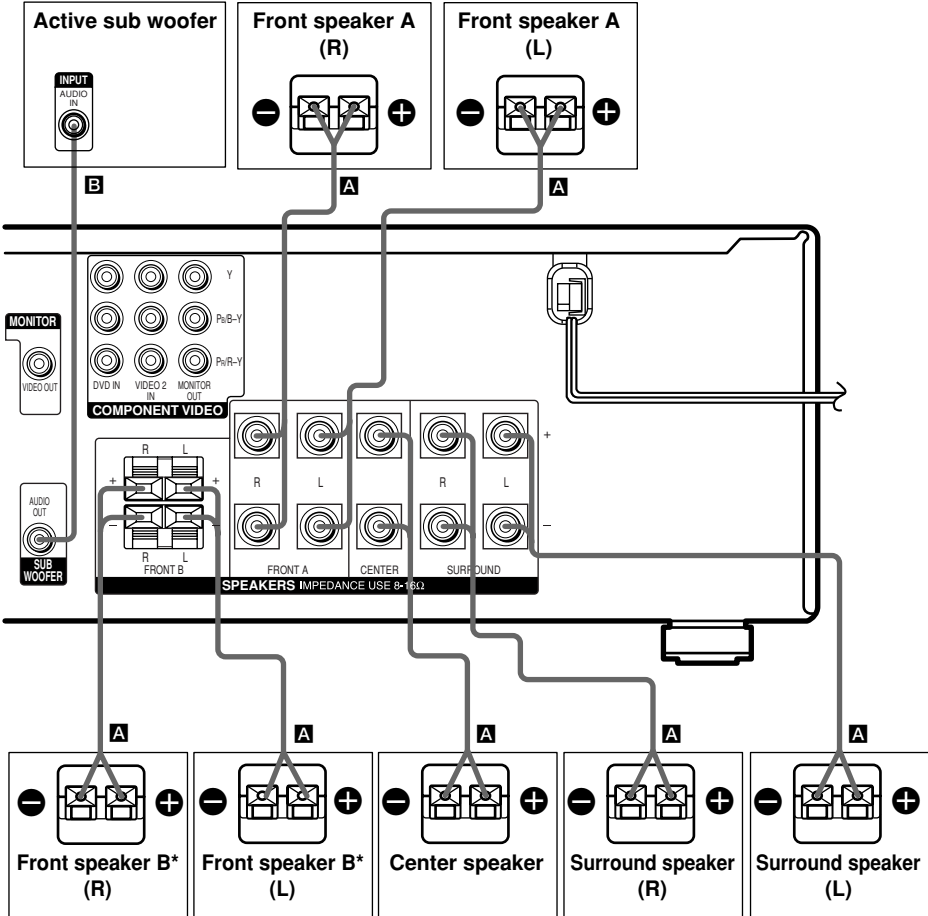
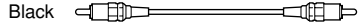
Speaker system hookups

Required cords

A Speaker cords (not supplied)



B Monaural audio cord (not supplied)



* If you have an additional front speaker system, connect them to the SPEAKERS FRONT B terminals. You can select the front speakers you want to use with the SPEAKERS (OFF/A/B/A+B) button (page 22).

continued

Speaker system hookup (continued)

Notes

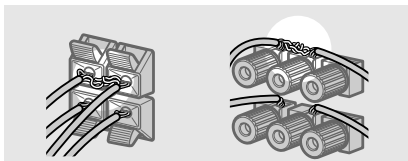
- Twist the stripped ends of the speaker cords about 10 mm. Be sure to match the speaker cord to the appropriate terminal on the components: + to + and – to –. If the cords are reversed, the sound will be distorted and will lack bass.
- If you use speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.

To avoid short-circuiting the speakers

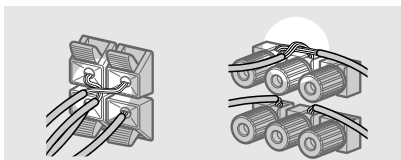
Short-circuiting of the speakers may damage the receiver. To prevent this, make sure to take the following precautions when connecting the speakers.

Make sure the stripped ends of each speaker cord does not touch another speaker terminal, the stripped end of another speaker cord, or the metal parts of the receiver.

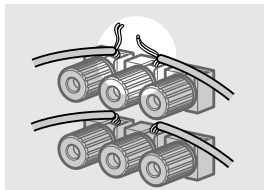
Examples of poor conditions of the speaker cord



Stripped speaker cord is touching another speaker terminal.



Stripped cords are touching each other due to excessive removal of insulation.



Stripped cords are not fully attached and are touching the rear panel of the receiver.

After connecting all the components, speakers, and AC power cord, output a test tone to check that all the speakers are connected correctly. For details on outputting a test tone, see page 20.

If no sound is heard from a speaker while outputting a test tone or a test tone is output from a speaker other than the one whose name is currently displayed on the receiver, the speaker may be short-circuited. If this happens, check the speaker connection again.

To avoid damaging your speakers

Make sure that you turn down the volume before you turn off the receiver. When you turn on the receiver, the volume remains at the level you turn off the receiver.

Performing initial setup operations

Once you have hooked up the speakers and turned on the power, clear the receiver's memory. Then specify the speaker parameters (size, position, etc.) and perform any other initial setup operations necessary for your system.

Tip

To check the audio output during settings (to set up while outputting the sound), check the connection (page 20).

Clearing the receiver's memory

Before using your receiver for the first time, or when you want to clear the receiver's memory, do the following.

1 Turn off the receiver.

2 Hold down I/⏻ for 5 seconds.

"PUSH" and "ENTER" appears in the display alternatingly.

3 Press MEMORY/ENTER.

After "CLEARING" appears in the display for a while, "CLEARED" appears.

The following are reset to their factory settings.

- All settings in the SET UP, LEVEL, TONE and CUSTOM menus.
- The sound field memorized for each function and preset station.
- All sound field parameters.
- All preset stations.
- All index names for input selectors and preset stations.
- The master volume is set to "VOL MIN".

Performing initial setup operations

Before using your receiver for the first time, adjust SET UP parameters so that the receiver correspond to your system. For the adjustable parameters, see the table on page 43. See pages 15–20 for speaker settings and pages 31–33 for other settings.

Multi channel surround setup

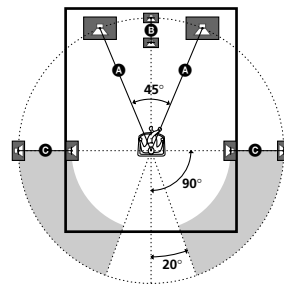
For the best possible surround sound, all speakers should be the same distance from the listening position (A).

However, the receiver lets you place the center speaker up to 1.5 meters closer (B) and the surround speakers up to 4.5 meters closer (C) to the listening position.

The front speakers can be placed from 1.0 to 7.0 meters from the listening position (A).

You can place the surround speakers either behind you or to the side, depending on the shape of your room (etc.). However, we recommend that you place the surround speakers behind you.

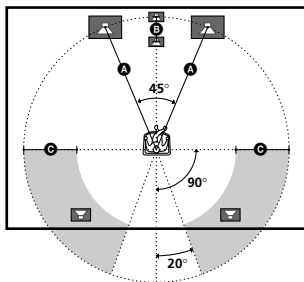
When placing surround speakers to your side (long room)



continued

Multi channel surround setup (continued)

When placing surround speakers behind you
(wide room)



Note

Do not place the center speaker further away from the listening position than the front speakers.

Specifying the speaker parameters

1 Press MAIN MENU repeatedly to select “<SET UP>”.

2 Turn MENU to select the parameter you want to adjust.

Note

Some speaker settings may appear dimmed in the display. This means that they have been changed automatically due to other speaker settings or may not be adjustable.

3 Turn the -/+ to select the setting you want.

The setting is entered automatically except for the setting of “SP. PAT. X-X”.

4 Press MEMORY/ENTER if you select the setting for “SP. PAT. X-X”.

5 Repeat steps 2 and 3 until you have set all of the parameters that follow.

Initial settings

Parameter	Initial setting
XXXX SET	EASY
SP. PAT. X-X	5-1*
SW (SUB WOOFER) S.W. XXX	YES
L R (FRONT) XXXXX	LARGE
C (CENTER) XXXXX	LARGE
SL SR (SURROUND) XXXXX	LARGE
L R DIST. X.X m	3.0 m
C DIST. X.X m	3.0 m
SL SR DIST. X.X m	3.0 m
SL SR PL. XXXX	LOW

* You can set this parameter only when you select “EASY SET”.

■ XXXX SET (Speaker easy setup)

• EASY SET

If you select EASY SET, you can set up your speakers automatically by selecting a pre-defined speaker pattern (see the supplied “Easy Setup Guide”).

• NORM SET

If you select NORM SET, you can adjust the settings of each speaker manually.

■ SP. PAT. X-X (Speaker setup pattern)

When you select EASY SET, select the speaker setup pattern. Turn -/+ to select the speaker setup pattern and press MEMORY/ENTER to enter the selection. Check your speaker pattern using the supplied Easy Setup Guide.

■ Sub woofer selection (S.W. XXX)

- If you connect a sub woofer, select “YES”.
- If you do not connect a sub woofer, select “NO”. This activates the bass redirection circuitry and outputs the LFE signals from other speakers.
- In order to take full advantage of the Dolby Digital bass redirection circuitry, we recommend that you set the cut off frequency on the sub woofer as high as possible.

■ Front speaker size (XXXXX)

- If you connect large speakers that will effectively reproduce bass frequencies, select “LARGE”. Normally, select “LARGE”.
- If the sound is distorted, or you feel a lack of surround effects when using multi channel surround sound, select “SMALL” to activate the bass redirection circuitry and output the front channel bass frequencies from the sub woofer.
- When the front speakers are set to “SMALL”, the center and surround speakers are also automatically set to “SMALL” (unless previously set to “NO”).
- When the sub woofer is set to “NO”, the front speakers are automatically set to “LARGE” and you cannot change this setting.

■ Center speaker size (XXXXX)

- If you connect a large speaker that will effectively reproduce bass frequencies, select “LARGE”. Normally, select “LARGE”. However, if the front speakers are set to “SMALL”, you cannot set the center speaker to “LARGE”.
- If the sound is distorted, or you feel a lack of surround effects when using multi channel surround sound, select “SMALL” to activate the bass redirection circuitry and output the center channel bass frequencies from the front speakers (if set to “LARGE”) or sub woofer.*1
- If you do not connect a center speaker, select “NO”. The sound of the center channel will be output from the front speakers.*2

■ Surround speaker size (XXXXX)

- If you connect large speakers that will effectively reproduce bass frequencies, select “LARGE”. Normally, select “LARGE”. However, if the front speakers are set to “SMALL”, you cannot set the surround speakers to “LARGE”.
- If the sound is distorted, or you feel a lack of surround effects when using multi channel surround sound, select “SMALL” to activate the bass redirection circuitry and output the surround channel bass frequencies from the sub woofer or other “LARGE” speakers.
- If you do not connect surround speakers, select “NO”.*3

Tip

*1-#3 correspond to the following Dolby Pro Logic modes

- *1 NORMAL
- *2 PHANTOM
- *3 3 STEREO

continued

Multi channel surround setup (continued)

Tip

Internally, the LARGE and SMALL settings for each speaker determine whether the internal sound processor will cut the bass signal from that channel. When the bass is cut from a channel, the bass redirection circuitry sends the corresponding bass frequencies to the sub woofer or other “LARGE” speakers.

However, since bass sounds have a certain amount of directionality, it is best not to cut them, if possible. Therefore, even when using small speakers, you can set them to “LARGE” if you want to output the bass frequencies from that speaker. On the other hand, if you are using a large speaker, but prefer not to have bass frequencies output from that speaker, set it to “SMALL”.

If the overall sound level is lower than you prefer, set all speakers to “LARGE”. If there is not enough bass, you can use the BASS parameter in the TONE menu to boost the bass levels. To adjust the bass, see page 28.

■ Front speaker distance (DIST. X.X m)

Set the distance from your listening position to the front speakers (A on page 15).

■ Center speaker distance (DIST. X.X m)

Set the distance from your listening position to the center speaker. Center speaker distance should be set from a distance equal to the front speaker distance (A on page 15) to a distance 1.5 meters closer to your listening position (B on page 15).

■ Surround speaker distance (DIST. X.X m)

Set the distance from your listening position to the surround speakers. Surround speaker distance should be set from a distance equal to the front speaker distance (A on page 15) to a distance 4.5 meters closer to your listening position (C on page 15).

Tip

The receiver allows you to input the speaker position in terms of distance. However, it is not possible to set the center speaker further than the front speakers. Also, the center speaker cannot be set more than 1.5 meters closer than the front speakers.

Likewise, the surround speakers can not be set further away from the listening position than the front speakers. And they can be no more than 4.5 meters closer.

This is because incorrect speaker placement is not conducive to enjoy surround sound.

Please note that, setting the speaker distance closer than the actual location of the speakers will cause a delay in the output of the sound from that speaker. In other words, the speaker will sound like it is further away.

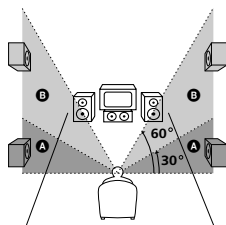
For example, setting the center speaker distance 1~2 m closer than the actual speaker position will create a fairly realistic sensation of being “inside” the screen. If you cannot obtain a satisfactory surround effect because the surround speakers are too close, setting the surround speaker distance closer (shorter) than the actual distance will create a larger sound stage.



Adjusting these parameter while listening to the sound often results in much better surround sound. Give it a try!

■ Surround speaker placement (PL. XXXX)*

This parameter lets you specify the height of your surround speakers for proper implementation of the Digital Cinema Sound surround modes. Refer to the illustration below.

- Select “PL. LOW” if the location of your surround speakers corresponds to section **A**.
- Select “PL. HIGH” if the location of your surround speakers corresponds to section **B**.



- * These parameters are not available when “Surround speaker size ( )” is set to “NO”.

Tip

The surround speaker placement parameter is designed specifically for implementation of the Digital Cinema Sound modes with virtual elements. With the Digital Cinema Sound modes, speaker placement is not as critical as other modes. All modes with virtual elements were designed under the premise that the surround speaker would be located behind the listening position, but presentation remains fairly consistent even with the surround speakers positioned at a rather wide angle. However, if the speakers are pointing towards the listener from the immediate left and right of the listening position, the sound fields with virtual elements will not be as effective.

Nevertheless, each listening environment has many variables, like wall reflections.

Therefore, we recommend that you playback multi channel surround encoded software and listen to the effect each setting has on your listening environment. Choose the setting that provides a good sense of spaciousness and that best succeeds in forming a cohesive space between the surround sound from the surround speakers and the sound of the front speakers. If you are not sure which sounds best, select “PL. LOW” and then use the speaker distance parameter and speaker level adjustments to obtain proper balance.

continued

Multi channel surround setup (continued)

Adjusting the speaker level

Use the remote while seated in your listening position to adjust the level of each speaker.

Note

The receiver incorporates a new test tone with a frequency centered at 800 Hz for easier speaker level adjustment.

1 Press I/⏻ on the remote to turn on the receiver.

2 Press TEST TONE on the remote.

“T. TONE” appears in the display and you will hear the test tone from each speaker in sequence.

Front (left) → Center → Front (right) →
Surround (right) → Surround (left) →
Sub woofer

3 Adjust the speaker level and balance using the LEVEL menu so that the level of the test tone sounds the same from each speaker.

For details on the LEVEL menu, see page 27.

While adjusting, the test tone is output from the speaker whose adjustment is performed.

4 Press TEST TONE again to turn off the test tone.

Tip

You can adjust the level of all speakers at the same time. Press MASTER VOL +/- on the remote or turn MASTER VOLUME on the receiver.

Notes

- The test tone cannot be output when the receiver is set to MULTI CH IN.
- The adjusted value are shown in the display during adjustment.
- Although these adjustments can also be made via the front panel using the LEVEL menu (when the test tone is output, the receiver switches to the LEVEL menu automatically), we recommend you follow the procedure described above and adjust the speaker levels from your listening position using the remote.

Checking the connections

After connecting all of your components to the receiver, do the following to verify that the connections were made correctly.

1 Press I/⏻ to turn on the receiver.

2 Turn on the component that you connected (e.g., CD player or tape deck).

3 Turn INPUT SELECTOR to select the component (program source).

4 Start playing.

If you do not obtain normal sound output after performing this procedure, see “Troubleshooting” on page 38 and take the appropriate measures to correct the problem.

Selecting the component

INPUT SELECTOR

Turn INPUT SELECTOR to select the component you want to use.

To select	Display
VCR	VIDEO 1 or VIDEO 2
Satellite tuner	VIDEO 2
DVD player	DVD
MD or Tape deck	MD/TAPE
CD or Super Audio CD player	CD/SACD
Built in tuner	TUNER FM/AM

After turning on the component you selected, select the component and play the program source.

- After selecting VCR or DVD player, turn on the TV and set the TV's video input to match the component you selected.

INPUT MODE

Press INPUT MODE to select the input mode for your digital components.

Each time you press the button, the input mode of the currently selected component switches.

Select	To
AUTO IN	Give priority to digital signals when there are both digital and analog connections. If there are no digital signals, analog is selected.
COAX IN	Specify the digital audio signals input to the DIGITAL COAXIAL input jacks.

Select	To
OPT IN	Specify the digital audio signals input to the DIGITAL OPTICAL input jacks.
ANALOG	Specify the analog audio signals input to the AUDIO IN (L/R) jacks.

Note

When the 96 kHz digital signal is input, the tone, sound field and surround effects do not function.

MULTI CH IN

Press MULTI CH on the remote to enjoy the audio source connected to the MULTI CH IN jacks. You can adjust balance and level of all the speakers. When this function is on, the tone and surround effects are turned off.

MUTING

Press MUTING on the remote to mute the sound. Press again to cancel the muting function. The muting function is also canceled when you turn the power on or turn the MASTER VOLUME to turn the volume up.

PHONES

Use to connect headphones.

- When the headphones are connected, speaker output is automatically canceled and "SP A" and "SP B" do not light up in the display.

continued

Selecting the component (continued)

SPEAKERS (OFF/A/B/A+B)

Press SPEAKERS (OFF/A/B/A+B) to output the sound from the speakers connected to the SPEAKERS FRONT terminals.

Each time you press the button, the display will light up cyclically as follows:

SP A → SP B → SP A and SP B →

No display*

To drive	Select
Speaker System A (Connected to the SPEAKERS FRONT A terminals)	SP A (default setting)
Speaker System B (Connected to the SPEAKERS FRONT B terminals)	SP B
Both Speaker System A and B (Connected to the SPEAKERS FRONT A and B terminals)	SP A and SP B

* If you do not want to drive Speaker System A and B, press SPEAKERS (OFF/A/B/A+B) until “SP A” and “SP B” do not light up in the display (no display).

Changing the display

DISPLAY

Each time you press DISPLAY, the display changes cyclically as follows:

Index name of the component* → Selected component → Sound field applied to the program source

When the tuner is selected

Index name of the preset station* →

Frequency → Sound field applied to the band or the preset station

* Index name appears only when you have assigned one to the component or preset station (page 31). Index name does not appear when only blank spaces have been entered, or it is the same as the input selector.

You can take advantage of surround sound simply by selecting one of the receiver's pre-programmed sound fields. They bring the exciting and powerful sound of movie theaters and concert halls into your home. You can also customize the sound fields to obtain the sound you want by changing the surround parameter. To fully enjoy surround sound, you must register the number and location of your speakers. See "Multi channel surround setup" starting from page 15 to set the speaker parameters before enjoying surround sound.

Using only the front speakers (2 Channel Stereo)

Press 2CH.

"2CH ST." appears in the display.

This mode outputs the sound from the front left and right speakers only. Standard 2 channel (stereo) sources completely bypass the sound field processing. Multi channel surround formats are downmixed to 2 channel.

Note

No sound is output from the sub woofer when "2CH ST." is selected. To listen to 2 channel (stereo) sources using the front left and right speakers and a sub woofer, press A.F.D. repeatedly to select "A.F.D. AUTO".

Enjoying higher fidelity sound

The Auto Format Direct (A.F.D.) mode allows you to select the decoding mode you want for your audio sound.

Mode	Decoding Mode
A.F.D. AUTO	As encoded
DOLBY PL	Dolby Pro Logic
PLII MOV	Dolby Pro Logic II
PLII MUS	

Decoding the input audio signal automatically

Press A.F.D. repeatedly to select "A.F.D. AUTO".

This mode automatically detects the type of audio signal being input (Dolby Digital, DTS, or standard 2 channel stereo) and performs the proper decoding if necessary. This mode presents the sound as it was recorded/encoded, without adding any effects (e.g. reverberation).

However, if there are no low frequency signals (Dolby Digital LFE, etc.) it will generate a low frequency signal for output to the sub woofer.

continued

Enjoying higher fidelity sound (continued)

Enjoying stereo sound in multi channel (Dolby Pro Logic II)

This receiver incorporates with Dolby Pro Logic II which has movie mode and music mode, and the receiver can reproduce the 2 channel sound in 5.1 channel through Dolby Pro Logic II.

Press A.F.D. repeatedly to select “DOLBY PL”, “PL II MOV” or “PL II MUS”.

The selected type of decoding is indicated in the display.

■ DOLBY PL (Dolby Pro Logic)

Performs the Pro Logic decoding. Software with multi channel surround audio signals is played back according to the way it was recorded. Software with 2 channel audio signals is decoded with Dolby Pro Logic to create surround effects (4 channels).

■ PL II MOV (Pro Logic II Movie)

Performs the Pro Logic II movie mode decoding. This setting is ideal for the movies encoded in Dolby Surround. Besides, this mode can reproduce the sound in 5.1 channel when watching the videos of old movies or in the dubbed language.

■ PL II MUS (Pro Logic II Music)

Performs the Pro Logic II music mode decoding. This setting is ideal for the normal stereo sources, such as CDs.

Note

Dolby Pro Logic and Dolby Pro Logic II decoding does not function for DTS format signals.

Selecting a sound field

You can enjoy surround sound simply by selecting one of the pre-programmed sound fields according to the program you want to listen to.

Press	To select
MOVIE	C.ST.EX A DCS *
	C.ST.EX B DCS *
	C.ST.EX C DCS *
MUSIC	HALL
	JAZZ
	CONCERT

* Sound field with **DCS** mark use DCS technology.

About DCS (Digital Cinema Sound)

In collaboration with Sony Pictures Entertainment, Sony measured the sound environment of their studios and integrated the data of the measurement and Sony's own DSP (Digital Signal Processor) technology to develop "Digital Cinema Sound". In a home theater, "Digital Cinema Sound" simulates an ideal movie theater sound environment based on the preference of the movie director.

Enjoying movies with Cinema Studio EX

Cinema Studio EX is ideal for enjoying the movie software encoded with multi channel format, such as the Dolby Digital DVD. This mode reproduces the sound characteristics of Sony Pictures Entertainment's studios.

Press MOVIE repeatedly to select “C.ST.EX A”, “C.ST.EX B” or “C.ST.EX C”.

The selected sound field is indicated in the display.

■ **C.ST.EX A (Cinema Studio EX A)**

Reproduces the sound characteristics of the Sony Pictures Entertainment “Cary Grant Theater” cinema production studio. This is a standard mode, great for watching most any type of movie.

■ **C.ST.EX B (Cinema Studio EX B)**

Reproduces the sound characteristics of the Sony Pictures Entertainment “Kim Novak Theater” cinema production studio. This mode is ideal for watching science-fiction or action movies with lots of sound effects.

■ **C.ST.EX C (Cinema Studio EX C)**

Reproduces the sound characteristics of the Sony Pictures Entertainment scoring stage. This mode is ideal for watching musicals or classic films where music is featured in the soundtrack.

About Cinema Studio EX

Cinema Studio EX consists of the following three elements.

- **Virtual Multi Dimension**
Creates 5 sets of virtual speakers surrounding the listener from a single pair of actual surround speakers.
- **Screen Depth Matching**
In a movie theater, sound seems to come from inside the image reflected on the movie screen. This element creates the same sensation in your listening room by shifting the sound of the front speakers “into” the screen.
- **Cinema Studio Reverberation**
Reproduces the reverberations peculiar to a movie theater.

Cinema Studio EX is the integrated mode which operates these elements simultaneously.

Notes

- The effects provided by the virtual speakers may cause increased noise in the playback signal.
- When listening with sound fields that employ the virtual speakers, you will not be able to hear any sound coming directly from the surround speakers.

Selecting other sound fields

Press MUSIC repeatedly to select the sound field you want.

The current sound field is indicated in the display.

■ **HALL**

Reproduces the acoustics of a rectangular concert hall.

■ **JAZZ (Jazz Club)**

Reproduces the acoustics of a jazz club.


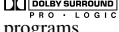

■ **CONCERT (Live Concert)**

Reproduces the acoustics of a 300-seat live concert

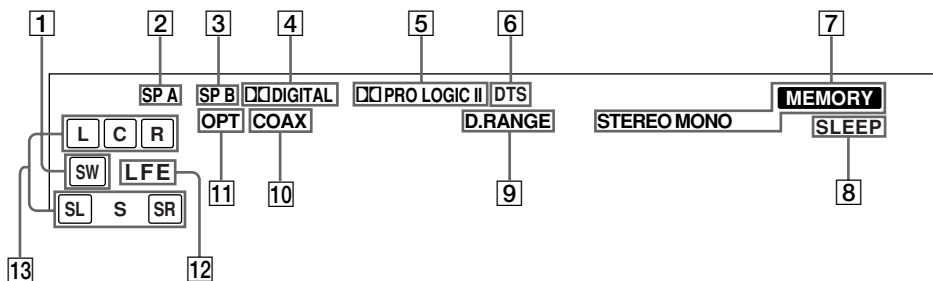
To turn the surround effect off

Press A.F.D. repeatedly to select “A.F.D. AUTO” or press 2CH.

Tips

- The receiver lets you apply the last selected sound field to a program source whenever it is selected (Sound Field Link). For example, if you listen to CD with “JAZZ” as the sound field, change to a different program source, then return to CD, “JAZZ” will be applied again.
- You can identify the encoding format of DVD software, etc. by looking at the logo on the package.
 - : Dolby Digital discs
 - : Dolby Surround encoded programs
 - : DTS Digital Surround encoded programs
- When sound signals with a sampling frequency of 96 kHz are input, the sound signals are output in stereo automatically, and the sound field is turned off.

Understanding the multi channel surround displays



1 **SW**: Lights up when sub woofer selection is set to “YES” (page 17) and the audio signal is output from the SUB WOOFER jacks.

2 **SP A***: Lights up when you select to drive Speaker System A.

3 **SP B***: Lights up when you select to drive Speaker System B.

* Does not light up when you connect headphones to the PHONES jack.

4 **DIGITAL**: Lights up when the receiver is decoding signals recorded in the Dolby Digital format.

5 **PRO LOGIC II**: “**PRO LOGIC**” lights up when the receiver applies Pro Logic processing to 2 channel signals in order to output the center and surround channel signals. “**PRO LOGIC II**” lights up when Pro Logic II processing (“**PLII MOV**” or “**PLII MUS**”) is applied (page 24). However, both indicators do not light up if the center and surround speakers are set to “NO”, and “A.F.D. AUTO”, “DOLBY PL”, “**PLII MOV**” or “**PLII MUS**” is selected.

Note

Dolby Pro Logic and Dolby Pro Logic II decoding does not function for DTS format signals.

6 **DTS**: Lights up when DTS signals are input.

Note

When playing a DTS format disc, be sure that you have made digital connections and that INPUT MODE is NOT set to “ANALOG” (page 21).

7 **Tuner indicators**: Lights up when using the receiver to tune in radio stations, etc. See pages 29–31 for tuner operations.

8 **SLEEP**: Lights up when sleep timer is activated.

9 **D.RANGE**: Lights up when dynamic range compression is activated. See page 28 to adjust the dynamic range compression.

10 **COAX**: Lights up when the source signal is a digital signal being input through the COAXIAL terminal.

11 **OPT**: Lights up when the source signal is a digital signal being input through the OPTICAL terminal.

12 **LFE**: Lights up when the disc being played back contains the LFE (Low Frequency Effect) channel and when the sound of the LFE channel signal is actually being reproduced.

13 Playback channel indicators: The letters (L, C, R, etc.) indicate the channels being played back. The boxes around the letters vary to show how the receiver downmixes the source sound (based on the speakers settings). When using sound fields like “C.ST.EX”, the receiver adds reverberation based on the source sound.

L (Front Left), R (Front Right), C (Center (monaural)), SL (Surround Left), SR (Surround Right), S (Surround (monaural or the surround components obtained by Pro Logic processing)).

Example:

Recording format (Front/Surround): 3/2
 Output channel: Surround speakers absent
 Sound Field: A.F.D. AUTO



SL SR

Customizing sound fields

By adjusting the surround parameters and the tone characteristics of the front speakers, you can customize the sound fields to suit your particular listening situation.

Once you customize a sound field, the changes are stored in the memory indefinitely. You can change a customized sound field any time by making new adjustments to the parameters.

See the tables on page 44 for the parameters available in each sound field.

To get the most from multi channel surround sound

Position your speakers and do the procedures described in “Multi channel surround setup” starting from page 15 before you customize a sound field.

Note on the displayed items

The setup items you can adjust in each menu vary depending on the sound field. Certain setup parameters may be dimmed in the display. This means that the selected parameter is either unavailable or fixed and unchangeable.

Adjusting the level parameters

The LEVEL menu contains parameters that let you adjust the balance and volumes of each speaker. You can also customize various aspects of the current sound field. The settings are applied to all sound fields except for EFCT. parameter. For EFCT. parameter, the settings are stored individually for each sound field.

- 1** Start playing a program source encoded with multi channel surround sound.
- 2** Press MAIN MENU repeatedly to select “<LEVEL>”.
- 3** Turn MENU to select the parameter you want to adjust.
- 4** Turn the -/+ to select the setting you want.
 The setting is entered automatically.

Initial settings

Parameter	Initial setting
BAL. L/R XX*	BALANCE
CTR XXX dB*	0 dB
SUR.L. XXX dB*	0 dB
SUR.R. XXX dB*	0 dB
S.W. XXX dB*	0 dB
COMP. XXX	OFF
EFCT. XXX	STD

* The parameters can be adjusted separately for MULTI CH IN.

continued

Customizing sound field (continued)

Front balance (BAL. L/R XX)

Lets you adjust the balance between front left and right speakers.

Center level (CTR XXX dB)

Lets you adjust the level of the center speaker.

Surround left level (SUR.L. XXX dB)

Lets you adjust the level of the surround left speaker.

Surround right level (SUR.R. XXX dB)

Lets you adjust the level of the surround right speaker.

Sub woofer level (S.W. XXX dB)

Lets you adjust the level of the sub woofer.

Dynamic range compressor (D. RANGE COMP. XXX)

Lets you compress the dynamic range of the sound track. This may be useful when you want to watch movies at low volumes late at night. We recommend using the “MAX” setting.

- To reproduce the sound track with no compression, select “OFF”.
- To reproduce the sound track with the dynamic range intended by the recording engineer, select “STD”.
- To reproduce a dramatic compression of the dynamic range, select “MAX”.

Note

Dynamic range compression is possible with Dolby Digital sources only.

Effect level (EFCT. XXX)

Lets you adjust the “presence” of the current surround effect.

Adjusting the tone parameters

The TONE menu contains parameters that let you adjust the tone of the front speakers for optimum sound. The settings are applied to all sound fields.

- 1 Start playing a program source encoded with multi channel surround sound.**
- 2 Press MAIN MENU repeatedly to select “<TONE>”.**
- 3 Turn MENU to select the parameter you want to adjust.**
- 4 Turn the -/+ to select the setting you want.**
The setting is stored automatically.

Initial settings

Parameter	Initial setting
BASS XX dB	0 dB
TREB. XX dB	0 dB

Bass (BASS XX dB)

Lets you adjust the bass tone.

Treble (TREB. XX dB)

Lets you adjust the treble tone.

Resetting customized sound fields to the factory settings

- 1 If the power is on, press I/⏻ to turn off the power.**
- 2 Hold down 2CH and press I/⏻.**
“SF. CLR.” appears in the display and all sound fields are reset at once.

Preset tuning

After you have tuned in stations using Direct Tuning or Automatic Tuning, you can preset them to the receiver. Then you can tune in any of the stations directly by entering its 2-character preset code using the supplied remote. Up to 30 FM or AM stations can be preset. The receiver will also scan all the stations that you have preset.

Before tuning to preset stations, be sure to preset them by performing steps on “Presetting radio stations”.

Presetting radio stations

1 Turn INPUT SELECTOR to select the FM or AM band.

The last received station is tuned in.

2 Tune in the station that you want to preset using Direct Tuning (page 29) or Automatic Tuning (page 29).

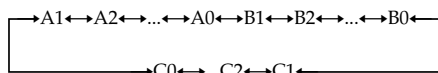
3 Press MEMORY/ENTER.

“MEMORY” appears in the display for a few seconds.

Do steps 4 to 5 before “MEMORY” goes out.

4 Press PRESET TUNING + or PRESET TUNING – repeatedly to select a preset station number.

Each time you press the button, the preset station number changes in the corresponding number and direction as follows:



If “MEMORY” goes out before you select the preset station number, start again from step 3.

5 Press MEMORY/ENTER again to store the station.

If “MEMORY” goes out before you can store the station, start again from step 3.

6 Repeat steps 2 to 5 to preset another station.

To change a preset number to another station

Do steps 1 to 5 to preset a new station to the number.

Tip

In step 4, you can also use the remote to select a preset station number. Press SHIFT repeatedly to select a memory page (A, B or C) and then press the numeric buttons to select a preset number.

Tuning to preset stations

You can tune the preset stations by either of the following two ways.

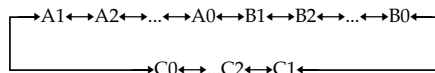
Scanning the preset stations

1 Turn INPUT SELECTOR to select the FM or AM band.

The last received station is tuned in.

2 Press PRESET TUNING + or PRESET TUNING – repeatedly to select the preset station you want.

Each time you press the button, the receiver tunes in one preset station at a time, in the corresponding order and direction as follows:



Using the preset codes

Use the supplied remote to perform the following operations. For details on the buttons used in this section, see pages 34–37.

1 Press TUNER on the remote.

The last received station is tuned in.

2 Press SHIFT to select a memory page (A, B, or C), then press the preset number of the station you want using the numeric buttons.

Naming preset stations and program sources

You can enter a name (index name) of up to 8 characters for preset stations and program sources. These names (for example, “VHS”) appear in the receiver’s display when a station or program source is selected. Note that no more than one name can be entered for each preset station or program source.

This function is useful for distinguishing components of the same kind. For example, two VCRs can be specified as “VHS” and “8MM”, respectively. It is also handy for identifying components connected to jacks meant for another type of component, for example, a second CD player connected to the MD/TAPE jacks.

1 To name a preset station

Turn **INPUT SELECTOR** to select **FM** or **AM** band, then tune in the preset station you want to create an index name for.

If you are not familiar with how to tune in preset stations, see “Tuning to preset stations” on page 30.

To name a program source

Select the program source (component) to be named.

2 Press **MAIN MENU** repeatedly to select “<CUSTOM>”.

3 Turn the **MENU** to select “NAME IN”.

4 Press **MEMORY/ENTER**.

5 Create an index name by using **MENU** and **-/+**:

Turn **-/+** to select a character, then turn **MENU** to move the cursor to the next position.

To insert a space

Turn the **-/+** until a blank space appears in the display.

If you’ve made a mistake

Turn **MENU** until the character to be changed flashes, then turn **-/+** to select the character you want.

6 Press **MEMORY/ENTER** to store the index name.

7 Repeat steps 2 to 5 to assign index name for another station or program source.

Recording

Before you begin, make sure you’ve connected all components properly.

Recording on an audio tape or MiniDisc

You can record on a cassette tape or MiniDisc using the receiver. See the operating instructions of your cassette deck or MD deck if you need help.

1 Select the component to be recorded.

2 Prepare the component for playing.

For example, insert a CD into the CD player.

3 Insert a blank tape or MD into the recording deck and adjust the recording level, if necessary.

4 Start recording on the recording deck, then start playback on the playback component.

Notes

- Sound adjustments do not affect the signal output from the MD/TAPE OUT jacks.
- When **MULTI CH IN** is selected, the analog audio signals of the current input source is output from the **REC OUT** jack.
- Some sources contain copy guards to prevent recording. In this case, you may not be able to record from the sources.

continued

Recording (continued)

Recording on a video tape

You can record from a VCR, a TV or a DVD player using the receiver. You can also add audio from a variety of audio sources when editing a video tape. See the operating instructions of your VCR or DVD player if you need help.

- 1 Select the program source to be recorded.**
- 2 Prepare the component for playing.**
For example, insert the DVD you want to record into the DVD player.
- 3 Insert a blank video tape into the VCR (VIDEO 1) for recording.**
- 4 Start recording on the recording VCR, then start playing the video tape or DVD you want to record.**

Tip

You can record the sound from any audio source onto a video tape while copying from a video tape or DVD. Locate the point where you want to start recording from another audio source, select the program source, then start playback. The audio from that source will be recorded onto the audio track of the video tape instead of the audio from the original medium. To resume audio recording from the original medium, select the video source again.

Notes

- Make sure to make both digital and analog connections to the VIDEO 2 and DVD inputs. Analog recording is not possible if you make only digital connections.
- When MULTI CH IN is selected, the analog audio signals of the current input source is output from the REC OUT jacks.

Using the Sleep Timer

You can set the receiver to turn off automatically at a specified time.

Press SLEEP on the remote while the power is on.

Each time you press the button, the display changes cyclically as follows:

2-00-00 → 1-30-00 → 1-00-00 → 0-30-00 → OFF

Tip

To check the remaining time before the receiver turns off, press SLEEP. The remaining time appears in the display.

Adjustments using the CUSTOM menu

The CUSTOM menu allows you to make the following adjustments.

- 1 Press MAIN MENU repeatedly to select “<CUSTOM>”.**
- 2 Turn MENU to select the parameter you want to adjust.**
Certain setup parameters may be dimmed in the display. This means that the selected parameter is either unavailable or fixed and unchangeable due to sound field (pages 23–25) or other settings.
- 3 Turn the –/+ to select the setting you want.**
The setting is entered automatically.
- 4 Repeat steps 2 and 3 until you have set all of the parameters that follow.**

Initial settings

Parameter	Initial setting
DEC. XXXX	PCM (for DVD, CD/SACD), AUTO (for VIDEO 2)
DIMMER	Brightest setting

■ Decode priority (DEC. XXXX)

Sets the appropriate decoding for incoming digital signals.

- PCM priority mode (DEC. PCM)
Use to enjoy playback from audio CD (PCM) and DVD. When used with media other than CD or DVD, you may experience noise. If this happens, switch to AUTO mode.
- AUTO mode (DEC. AUTO)
Use to enjoy playback from audio CD (PCM), DVD, DTS-CD and DTS-LD sources. However, with audio CDs, you may not be able to listen the very first moments of each track.

Normally, use as-is with the initial settings above.

■ DIMMER

Use to adjust the brightness of the display (3 steps).

Changing the command mode of the receiver

This function is useful when you use 2 Sony receivers in the same room.

1 Turn off the receiver.

2 Hold down MEMORY/ENTER and press I/⏻ to turn on the receiver.

“C.MODE.AVX” appears in the display.

Each time you repeat the procedure above, the display changes as follows:

C.MODE.AV1 ↔ C.MODE.AV2

Tip

The initial setting is “C.MODE.AV2”.


Notes

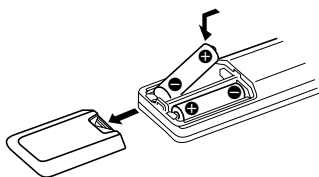
- The command mode of the supplied remote is “AV2” and you cannot change this setting.
- If the command mode of the receiver and the remote is different, you cannot use the remote to operate the receiver.

You can use the remote RM-U306A to operate the components in your system.

Before you use your remote

Inserting batteries into the remote

Insert R6 (size-AA) batteries with the + and – properly oriented in the battery compartment. When using the remote, point it at the remote sensor  on the receiver.



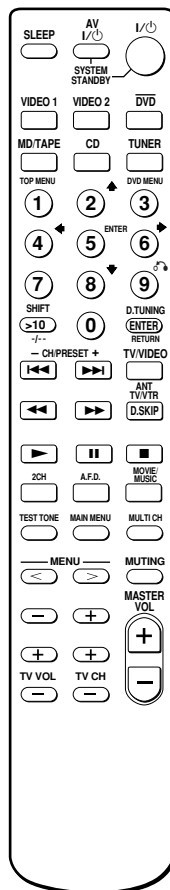
Tip

Under normal conditions, the batteries should last for about 6 months. When the remote no longer operates the receiver, replace all batteries with new ones.

Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you don't use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Remote button description



The tables below show the settings of each button.




Remote Button	Operations	Function
SLEEP	Receiver	Activates the sleep function and the duration which the receiver turns off automatically.
I/O	Receiver	Turns the receiver on or off.





Remote Button	Operations	Function
VIDEO 1	Receiver	To watch VCR. (VTR mode 3)
VIDEO 2	Receiver	To watch VCR. (VTR mode 1)
DVD	Receiver	To watch DVD.
MD/TAPE	Receiver	To listen to Minidisc or audio tape.
CD	Receiver	To listen to compact disc.
TUNER	Receiver	To listen to radio programs.
SHIFT	Receiver	Press repeatedly to select a memory page for presetting radio stations or tuning to preset stations.
D.TUNING	Receiver	Tuner station direct key-in-mode.
2CH	Receiver	Selects 2CH mode.
A.F.D.	Receiver	Selects A.F.D. AUTO, DOLBY PL, PLII MOV and PLII MUS.
MOVIE/ MUSIC	Receiver	Selects C.ST.EX A, C.ST.EX B, C.ST.EX C, HALL, JAZZ and CONCERT.
TEST TONE	Receiver	Press to output test tone.
MAIN MENU	Receiver	Press this button repeatedly to select one of the four cursor modes: SET UP, LEVEL, TONE and CUSTOM.
MULTI CH	Receiver	Selects MULTI CH IN source.
MENU </>	Receiver	Selects a menu item.
MENU +/-	Receiver	Makes adjustment or change the setting.
MUTING	Receiver	Mutes the sound from the receiver.

Remote Button	Operations	Function
MASTER VOL +/-	Receiver	Adjusts the master volume of the receiver.
AV I/⏻	TV/VCR/ CD player/ VCD player/ LD player/ DVD player/ MD deck/ DAT deck	Turns the audio and video components on or off.
SYSTEM STANDBY (Press AV I/⏻ and I/⏻ at the same time)	Receiver/TV/ VCR/Satellite tuner/ CD player/ VCD player/ LD player/ DVD player/ MD deck/ DAT deck	Turns off the receiver and other Sony audio/video components.
0-9	Receiver	Use with "SHIFT" button to preset radio station or tuning to preset stations and with "D.TUNING" for direct tuning.
	CD player/ VCD player/ LD player/ MD deck/ DAT deck	Selects track numbers. 0 selects track 10.
	TV/VCR/ Satellite tuner	Selects channel numbers.
>10	CD player/ VCD player/ LD player/ MD deck/ Tape deck	Selects track numbers over 10.

continued

Remote button description (continued)

Remote Button	Operations	Function
ENTER	TV/VCR/ Satellite tuner/ LD player/ MD deck/ DAT deck/ Tape deck	After selecting a channel, disc or track using the numeric buttons, press to enter the value.
RETURN	VCD player	Go back to previous menu.
CH/ PRESET	Receiver	Scans and selects preset stations.
+/-	TV/VCR/ Satellite tuner	Selects preset channel.
	VCR/ CD player/ VCD player/ LD player/ DVD player/ MD deck/ DAT deck/ Tape deck	Skips tracks.
	CD player/ VCD player/ DVD player	Searches tracks (forward or backward).
	VCR/ LD player/ MD deck/ DAT deck/ Tape deck	Fastforwards or rewinds.
	VCR/ CD player/ VCD player/ LD player/ DVD player/ MD deck/ DAT deck/ Tape deck	Starts play.

Remote Button	Operations	Function
	VCR/ CD player/ VCD player/ LD player/ DVD player/ MD deck/ DAT deck/ Tape deck	Pauses play or record. (Also start recording with components in record standby.)
	VCR/ CD player/ VCD player/ LD player/ DVD player/ MD player/ DAT deck/ Tape deck	Stops play.
ANT TV/VTR	VCR	Selects output signal from the aerial terminal: TV signal or VCR program.
D.SKIP	CD player/ VCD player/ DVD player/ MD deck	Skips discs (multi-disc changer only).
TOP MENU	DVD player	Displays DVD title.
DVD MENU	DVD player	Displays DVD menu.
ENTER	DVD player	Enters the selection.
	DVD player	Returns to the previous menu or exits the menu.
	DVD player	Selects a menu item.

Remote Button	Operations	Function
-/--	TV	Selects the channel entry mode, either one or two digit.
TV/VIDEO	TV	Selects input signal: TV input or video input.
TV VOL +/-	TV	Adjusts the volume of the TV.
TV CH +/-	TV	Selects preset TV channels.

Notes

- When you press the input selector buttons (VIDEO 1, VIDEO 2, DVD), the input mode of the TV might not switch to the corresponding input mode that you want. In this case, press the TV/VIDEO button to switch the input mode of the TV.
- Some functions explained in this section may not work depending on the model of the receiver.
- The above explanation is intended to serve as an example only.
Therefore, depending on the component the above operation may not be possible or may operate differently than described.

Changing the factory setting of an input selector button

If the factory settings of the input selector buttons do not match your system components, you can change them. For example, if you have a tape deck and you do not have an MD deck, you can assign the MD/TAPE button to your tape deck.

Note that the settings of the TUNER button cannot be changed.

1 Hold down the input selector button whose input source you want to change (for example, MD/TAPE).

2 Press the corresponding button of the component you want to assign to the input selector button (for example, 4 – Tape deck).

The following buttons are assigned to select the input source:

To operate	Press
CD player	1
DAT deck	2
MD deck	3
Tape deck A	4
Tape deck B	5
LD player	6
VCR (command mode VTR 1*)	7
VCR (command mode VTR 2*)	8
VCR (command mode VTR 3*)	9
TV	0
DSS (Digital Satellite Receiver)	>10
DVD	ENTER
VCD player	◀◀

* Sony VCRs are operated with a VTR 1, 2 or 3 setting. These correspond to Beta, 8mm and VHS respectively.

Now you can use the MD/TAPE button to control the tape deck.

To reset a button to its factory setting

Repeat the above procedure.

To reset all the input selector buttons to their factory setting

Press I/⏪, AV I/⏪ and MASTER VOL – at the same time.

Precautions

On safety

Should any solid object or liquid fall into the cabinet, unplug the receiver and have it checked by qualified personnel before operating it any further.

On power sources

- Before operating the unit, check that the operating voltage is identical with your local power supply. The operating voltage is indicated on the nameplate at the rear of the receiver.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the receiver itself has been turned off.
- If you are not going to use the receiver for a long time, be sure to disconnect the receiver from the wall outlet. To disconnect the AC power cord, grasp the plug itself; never pull the cord.
- AC power cord must be changed only at the qualified service shop.

On heat buildup

Although the unit heats up during operation, this is not a malfunction. If you continuously use this unit at a large volume, the cabinet temperature of the top, side and bottom rises considerably. To avoid burning yourself, do not touch the cabinet.

On placement

- Place the receiver in a location with adequate ventilation to prevent heat buildup and prolong the life of the receiver.
- Do not place the receiver near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Do not place anything on top of the cabinet that might block the ventilation holes and cause malfunctions.
- Use caution when placing the unit on surfaces that have been specially treated (with wax, oil, polish, etc.) as staining or discoloration of the surface may result.

On operation

Before connecting other components, be sure to turn off and unplug the receiver.

On cleaning

Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

If you have any question or problem concerning your receiver, please consult your nearest Sony dealer.

Troubleshooting

If you experience any of the following difficulties while using the receiver, use this troubleshooting guide to help you remedy the problem. Also, see “Checking the connections” on page 20 to verify that the connections are correct.

There is no sound or only a very low-level sound no matter which component is selected.

- Check that the speakers and components are connected securely and correctly.
 - Check that both the receiver and all components are turned on.
 - Check that the MASTER VOLUME control is not set at “VOL MIN”.
 - Press MUTING on the remote to cancel the muting function.
 - Check that the SPEAKERS (OFF/A/B/A+B) button is not set to off and is set accordingly to your SPEAKERS FRONT system (page 22).
 - Check that the headphones are not connected.
 - The protective device on the receiver has been activated because of a short circuit (“PROTECT” flashes). Turn off the receiver, eliminate the short-circuit problem and turn on the power again.
-

There is no sound from a specific component.

- Check that the component is connected correctly to the audio input jacks for that component.
- Check that the cord(s) used for the connection is (are) fully inserted into the jacks on both the receiver and the component.
- Check that you have selected the correct component on the receiver.

There is no sound from one of the front speakers.

Connect a pair of headphones to the PHONES jack to verify that sound is output from the headphones (page 21).

If only one channel is output from the headphones, the component may not be connected to the receiver correctly. Check that all the cords are fully inserted into the jacks on both the receiver and the component.

If both channels are output from the headphones, the front speaker may not be connected to the receiver correctly. Check the connection of the front speaker which is not outputting any sound.

The left and right sounds are unbalanced or reversed.

- Check that the speakers and components are connected correctly and securely.
- Adjust balance parameters in the LEVEL menu.

There is severe hum or noise.

- Check that the speakers and components are connected securely.
- Check that the connecting cords are away from a transformer or motor, and at least 3 meters away from a TV set or fluorescent light.
- Move your TV away from the audio components.
- The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.

There is no sound or only a very low level sound is heard from the center or/and surround speaker.

- Make sure the sound field function is on (press MOVIE or MUSIC).
- Select a sound field containing the word “C.ST.EX” (pages 24).
- Adjust the speaker level (page 20).
- Make sure the center or/and surround speaker size parameter is set to either “SMALL” or “LARGE” (page 17).

There is no sound from the active sub woofer.

- Check that the sub woofer is connected correctly and securely.
- Make sure the sub woofer selection parameter is set to “YES” (page 17).
- There is no sound output from the SUB WOOFER terminal depending on the sound field (page 44).

The surround effect cannot be obtained.

Make sure the sound field function is on (press MOVIE or MUSIC).

Dolby Digital or DTS multi channel sound is not reproduced.

- Check that the playing DVD, etc. is recorded in Dolby Digital or DTS format.
- When connecting the DVD player, etc. to the digital input jacks of this receiver, check the audio setting (settings for the audio output) of the connected component.

Recording cannot be done.

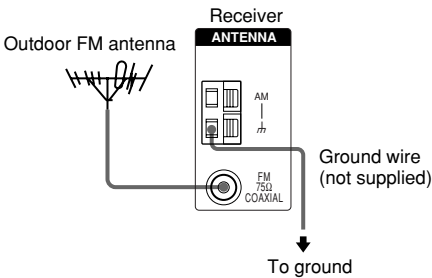
- Check that the components are connected correctly.
- Select the source component with input selector buttons.
- Make sure that INPUT MODE is set to “ANALOG” (page 21) before recording from a digital component connected to the analog MD/TAPE terminals.

continued

Troubleshooting (continued)

The FM reception is poor.

Use a 75-ohm coaxial cable (not supplied) to connect the receiver to an outdoor FM antenna as shown below. If you connect the receiver to an outdoor antenna, ground it against lightning. To prevent a gas explosion, do not connect the ground wire to a gas pipe.




Radio stations cannot be tuned in.

- Check that the antennas are connected securely. Adjust the antennas and connect an external antenna if necessary.
- The signal strength of the stations is too weak (when tuning in with automatic tuning). Use direct tuning.
- Make sure you set the tuning interval correctly (when tuning in AM stations with direct tuning).
- No stations have been preset or the preset stations have been cleared (when tuning by scanning preset stations). Preset the stations (page 30).
- Press DISPLAY so that the frequency appears in the display.

There is no picture or an unclear picture appears on the TV screen or monitor.

- Select the appropriate input selector on the receiver.
- Set your TV to the appropriate input mode.
- Move your TV away from the audio components.

The remote does not function.

- Point the remote at the remote sensor  on the receiver.
- Make sure you select AV2 as the command mode of the receiver (page 33).
- Remove any obstacles in the path between the remote and the receiver.
- Replace both batteries in the remote with new ones, if they are weak.
- Make sure you select the correct input selector on the remote.
- If the remote is set to operate the TV only, use the remote to select a source or component other than TV before operating the receiver or other component.

If you are unable to remedy the problem using the troubleshooting guide

Clearing the receiver's memory may remedy the problem (page 15). However, note that all memorized settings will be reset to their factory settings and you will have to readjust all settings on the receiver.

If the problem persists

Consult your nearest Sony dealer.

Clearing the receiver's memory

To clear	See
All memorized settings	page 15
Customized sound fields	page 27

Specifications

AUDIO POWER SPECIFICATIONS

Amplifier section

POWER OUTPUT

Rated Power Output at Stereo Mode

(8 ohms 1 kHz, THD 0.7 %)

100 W + 100 W¹⁾
90 W + 90 W²⁾

Reference Power Output¹⁾

(8 ohms 1 kHz, THD 10 %)

FRONT³⁾: 120 W/ch
CENTER³⁾: 120 W
SURR³⁾: 120 W/ch

- 1) Measured under the following conditions:
230 V AC, 50 Hz
- 2) Measured under the following conditions:
220 V AC, 50 Hz
- 3) Depending on the sound field settings and the source, there may be no sound output.

Frequency response

MULTI CH IN, MD/TAPE, DVD, VIDEO 1, 2	10 Hz – 50 kHz +0.5/-2 dB (with sound field and tone bypassed)
CD/SACD	10 Hz – 70 kHz +0.5/-2 dB (with sound field and tone bypassed)

Inputs (Analog)

MULTI CH IN,	Sensitivity: 500 mV
CD/SACD, MD/TAPE, DVD, VIDEO 1, 2	Impedance: 50 kilohms S/N ⁴⁾ : 96 dB (A, 500 mV ⁵⁾)

- 4) INPUT SHORT (with sound field and tone bypassed).
- 5) Weighted network, input level.

Inputs (Digital)

DVD (Coaxial)	Sensitivity: – Impedance: 75 ohms S/N: 100 dB (A, 20 kHz LPF)
CD/SACD (Optical), VIDEO 2 (Optical)	Sensitivity: – Impedance: – S/N: 100 dB (A, 20 kHz LPF)

Outputs

MD/TAPE (OUT), VIDEO 1 (AUDIO OUT)	Voltage: 500 mV Impedance: 10 kilohms
SUB WOOFER	Voltage: 2 V Impedance: 1 kilohms

Tone

Gain levels: ±6 dB, 1 dB step

FM tuner section

Tuning range 87.5 - 108.0 MHz

Antenna terminals 75 ohms, unbalanced

Intermediate Frequency

10.7 MHz

Sensitivity

Mono: 18.3 dBf, 2.2 µV/75 ohms
Stereo: 38.3 dBf, 22.5 µV/75 ohms

Usable sensitivity

11.2 dBf, 1 µV/75 ohms

S/N

Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 kHz

Mono: 0.3%
Stereo: 0.5%

Separation

45 dB at 1 kHz

Frequency response

30 Hz – 15 kHz,
+0.5/-2 dB

Selectivity

60 dB at 400 kHz

continued

Specifications (continued)

AM tuner section

Tuning range	531 – 1602 kHz
Antenna	Loop antenna
Intermediate Frequency	450 kHz
Usable sensitivity	50 dB/m (at 1,000 kHz or 999 kHz)
S/N	54 dB (at 50 mV/m)
Harmonic distortion	0.5 % (50 mV/m, 400 Hz)
Selectivity	At 9 kHz: 35 dB

Video section

Inputs

Video:	1 Vp-p, 75 ohms
Component Video	
Y:	1 Vp-p, 75 ohms
P _B /B-Y:	0.7 Vp-p, 75 ohms
P _R /R-Y:	0.7 Vp-p, 75 ohms

Outputs

Video:	1 Vp-p, 75 ohms
Component Video	
Y:	1 Vp-p, 75 ohms
P _B /B-Y:	0.7 Vp-p, 75 ohms
P _R /R-Y:	0.7 Vp-p, 75 ohms

General

Power requirements	220 – 230 V AC, 50/60 Hz
Power consumption	210 W
Power consumption (during standby mode)	0.3 W
Dimensions	430 × 145 × 298 mm including projecting parts and controls
Mass (Approx.)	7.5 kg

Supplied accessories

FM wire antenna (1)
AM loop antenna (1)
Remote commander RM-U306A (1)
R6 (size-AA) batteries (2)

For details on the area code of the component you are using, see page 4.

Design and specifications are subject to change without notice.

Tables of settings using the MAIN MENU button

You can make various settings using the MAIN MENU, MENU and -/+ buttons. The tables below show each of the settings that these buttons can make.

Press MAIN MENU repeatedly to select	Turn MENU to select	Turn the -/+ to select	Page
<SET UP>	XXXX SET	EASY, NORM	16
	SP. PAT. X-X	5-1, 5-0, 4-1, 4-0, 3-1, 3-0, 2-1, 2-0	
	(SUB WOOFER) S.W. XXX	YES, NO	
	(FRONT) XXXXX	LARGE, SMALL	
	(CENTER) XXXXX	LARGE, SMALL, NO	
	(SURROUND) XXXXX	LARGE, SMALL, NO	
	DIST. X.X m	between 1.0 meters and 7.0 meters (0.1 meters steps)	
	DIST. X.X m	between DIST. and 1.5 meters (0.1 meters steps)	
	DIST. X.X m	between DIST. and 4.5 meters (0.1 meters steps)	
	PL. XXXX	LOW, HIGH	
<LEVEL>	BAL. L/R XX	L +8 to R +8 (1 steps)	27
	CTR XXX dB	-10 dB to +10 dB (1 dB steps)	
	SURL. XXX dB	-10 dB to +10 dB (1 dB steps)	
	SURR. XXX dB	-10 dB to +10 dB (1 dB steps)	
	S.W. XXX dB	-10 dB to +10 dB (1 dB steps)	
	COMP. XXX	OFF, STD, MAX	
	EFCT. XXX	depends on the sound field (MIN, STD, MAX)	
<TONE>	BASS XX dB	-6 dB to +6 dB (1 dB steps)	28
	TREB. XX dB	-6 dB to +6 dB (1 dB steps)	
<CUSTOM>	DEC. XXXX	AUTO, PCM	32
	DIMMER	3 steps of brightness	

Adjustable parameters for each sound field

The adjusted BASS and TREB. parameters are applied to all sound fields.

	< TONE >	
	BASS	TREB.
2CH ST.	●	●
A.F.D. AUTO	●	●
DOLBY PL	●	●
PLII MOV	●	●
PLII MUS	●	●
C.ST.EX A	●	●
C.ST.EX B	●	●
C.ST.EX C	●	●
HALL	●	●
JAZZ	●	●
CONCERT	●	●
MULTI CH IN		
PCM 96K		

The adjusted LEVEL parameters are applied to all the sound fields except for EFCT. parameter. For EFCT. parameter, the settings are stored individually for each sound field.

	< LEVEL >						
	FRONT BAL	CENTER LEVEL	SUR.L. LEVEL	SUR.R. LEVEL	S.W. LEVEL	D.RANGE COMP ¹⁾	EFCT. LEVEL
2CH ST.	●					●	
A.F.D. AUTO	●	●	●	●	●	●	
DOLBY PL	●	●	●	●	●	●	
PLII MOV	●	●	●	●	●	●	
PLII MUS	●	●	●	●	●	●	
C.ST.EX A	●	●	●	●	●	●	●
C.ST.EX B	●	●	●	●	●	●	●
C.ST.EX C	●	●	●	●	●	●	●
HALL	●	●	●	●	● ²⁾	●	●
JAZZ	●	●	●	●	● ²⁾	●	●
CONCERT	●	●	●	●	● ²⁾	●	●
MULTI CH IN	●	●	●	●	●		
PCM 96K	●						

¹⁾ These parameters may not operate depending on the source or adjustments. For details, see each item in “Adjusting the level parameters” (page 27).

²⁾ When these sound fields are selected, there is no sound output from the sub woofer if the front speaker size is set to “LARGE”. However, sound will be output from the sub woofer if the digital input signal contains LFE signals.

警告

为防火灾或触电危险，请勿让本装置淋雨或受潮。

为防火灾，请勿用报纸，桌布，窗帘等遮盖装置的通风孔。也不可在装置上点放蜡烛。

为防火灾或触电危险，不可在装置上放置花瓶等盛满液体的物体。



不可将电池与普通家庭垃圾一起丢弃，必须将它当作化学垃圾正确地处理。

请勿安装本机于诸如书橱或壁橱等狭隘不通风的地方。



ENERGY STAR® 是一美国的注册商标。

作为 ENERGY STAR® 的合作伙伴之一，Sony Corporation 已确定此产品符合 ENERGY STAR® 能量效率的标准。

上海索尼电子有限公司
上海市 闵行区 剑川路930号

本接收机含有杜比®数字 (Dolby® Digital)，专业逻辑环绕声 (Pro Logic Surround) 和 DTS®® 数字环绕声系统 (DTS®® Digital Surround System)。

* 由杜比研究所 (Dolby Laboratories) 授权制造。

“Dolby”，“Pro Logic” 和双 D 标志是杜比研究所的注册商标。

** “DTS” 和 “DTS Digital Surround” 是数字电影院系统股份有限公司 (Digital Theater Systems, Inc.) 的注册商标。

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关于本说明书

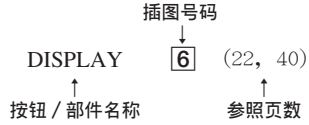
本说明书供 STR-DE590 型号所用。请查看前面板右下角的型号编码。

要领

本说明书说明接收机的控制器。您也可用附带遥控器上的控制按钮，如果它与接收机上的控制按钮具有相同或类似名称。有关遥控器的使用详情，请参照第 34—37 页。

如何使用此页

利用此页查找在文中所提及的按钮的位置。



主机

按字母顺序排列

A - L

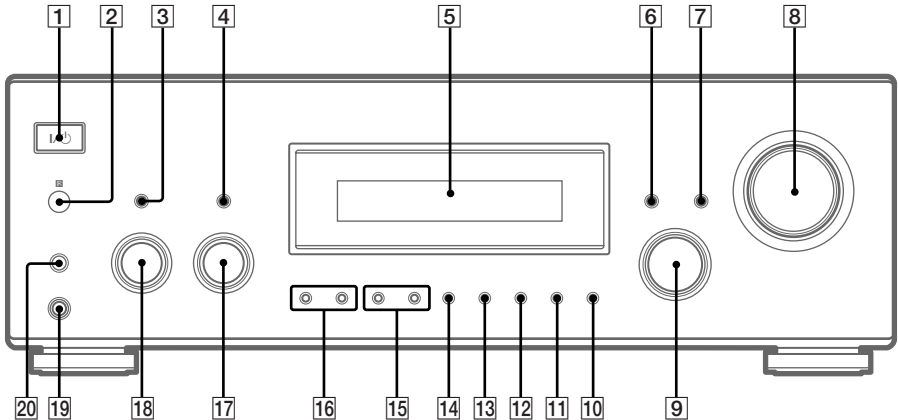
- A.F.D. **12** (23-25)
- DISPLAY **6** (22, 40)
- FM MODE **14** (29)
- INPUT MODE **7** (21)
- INPUT SELECTOR **9** (20, 21, 29, 30, 31)
- IR (接收器) **2** (34, 40)

M - Z

- MAIN MENU **3** (16, 27, 28, 31, 32, 43)
- MASTER VOLUME **8** (20, 21, 38)
- MEMORY/ENTER **4** (15, 16, 17, 30, 31, 33)
- MENU **18** (16, 27, 28, 31, 32, 43)
- MOVIE **11** (24, 39)
- MUSIC **10** (24, 25, 39)
- PHONES (耳机) (插孔) **19** (21, 26, 39)
- PRESET TUNING +/- **16** (30)
- SPEAKERS (OFF/A/B/A+B) **20** (13, 22, 39)
- TUNING +/- **15** (29)
- 显示器 **5** (22, 26)

图上号数和符号

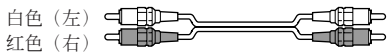
- 2CH **13** (23, 25, 28)
- I/⏻ (电源) **1** (15, 20, 28, 33)
- /+ **17** (16, 17, 27, 28, 31, 32, 43)



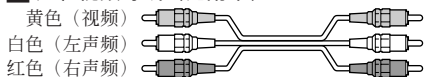
所需导线

当您连接组成机时，需要下列供选择的连接电缆 **A** - **G** (第 8-11 页)。

A 音频导线 (无附带)



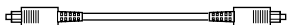
B 声 / 视频导线 (无附带)



C 视频导线 (无附带)



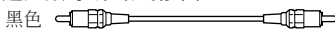
D 光频数字导线 (无附带)



E 同轴数字导线 (无附带)



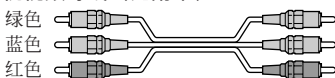
F 单声道音频导线 (无附带)



要領

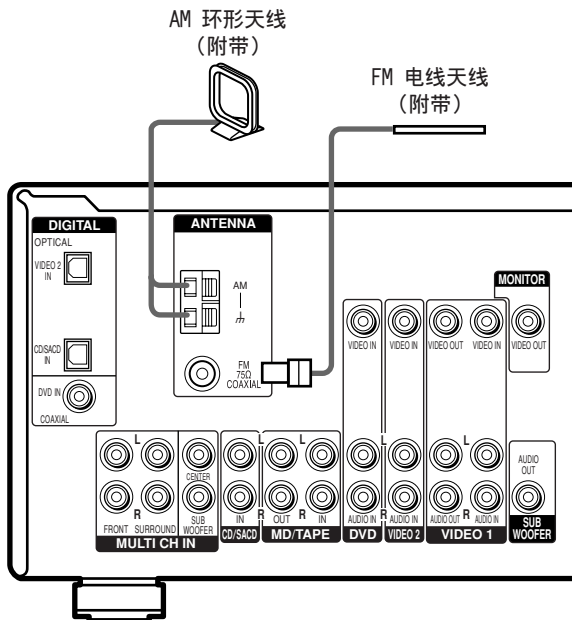
音频导线 **A** 可以撕成两条单声道音频导线 **F**。

G 单片机视频导线 (无附带)



要连接以前

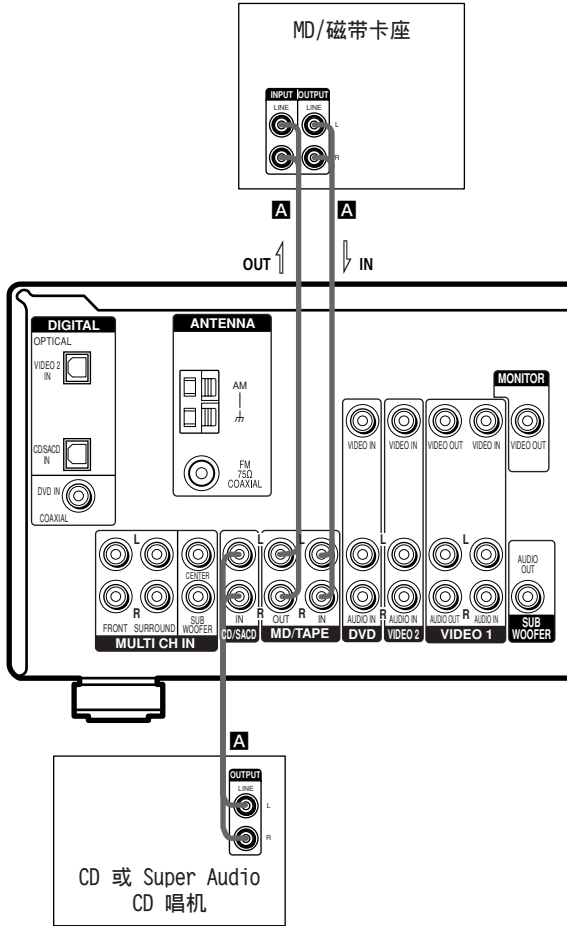
- 要进行任何连接以前，必须先关掉所有单片机的电源。
- 未完成所有的连接工作以前，请勿连接 AC 电源导线。
- 接线必须稳固以免引起哼声和噪音。
- 连接声 / 视频导线时，导线的色码管脚务必对准单片机上相应的插孔：黄色 (视频) 对黄色；白色 (左声频) 对白色；和红色 (右声频) 对红色。
- 当您连接光频数字导线时，请插入导线插头直至妥善就位。
- 不可弯折或打结光频数字导线。



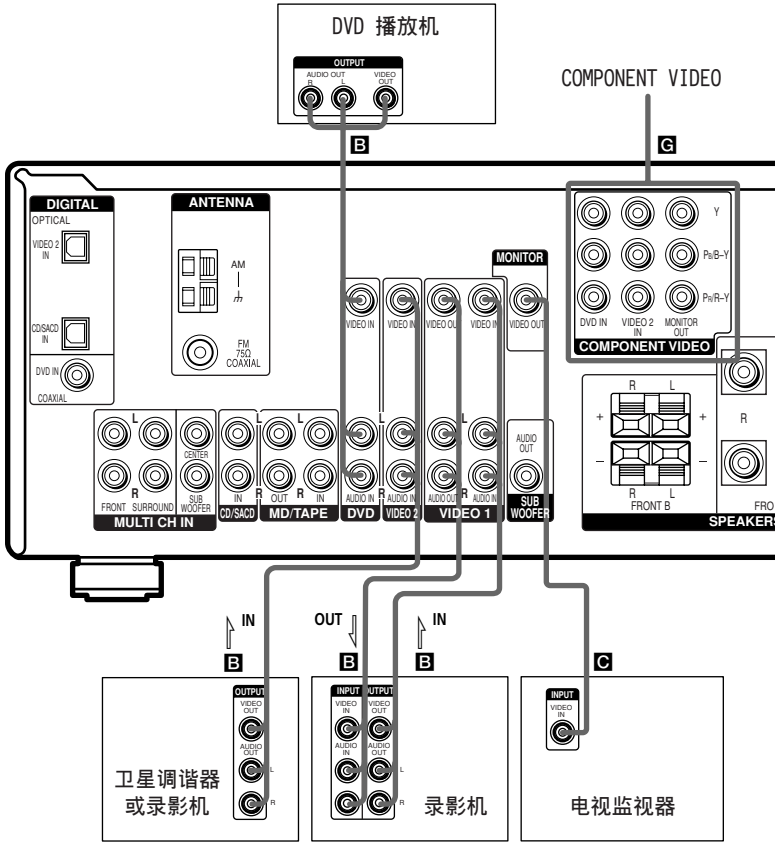
天线连接需知

- 为防噪音干扰，请将 AM 环形天线远离接收机和其他单片机。
- FM 电线天线一定要完全伸开。
- 连接了 FM 电线天线之后，尽可能让它保持水平状态。

音频单片机的连接



视频单片机的连接



视频单片机的连接需知

您可将电视机的音频输出插孔连接到接收机的 VIDEO 2 AUDIO IN 插孔，以增强电视视频的音响效果。此时，请勿将电视机的视频输出插孔连接到接收机的 VIDEO 2 VIDEO IN 插孔。若您连接一台独立的卫星调谐器，请如上图所示将音频和视频输出插孔皆连接到接收机上。

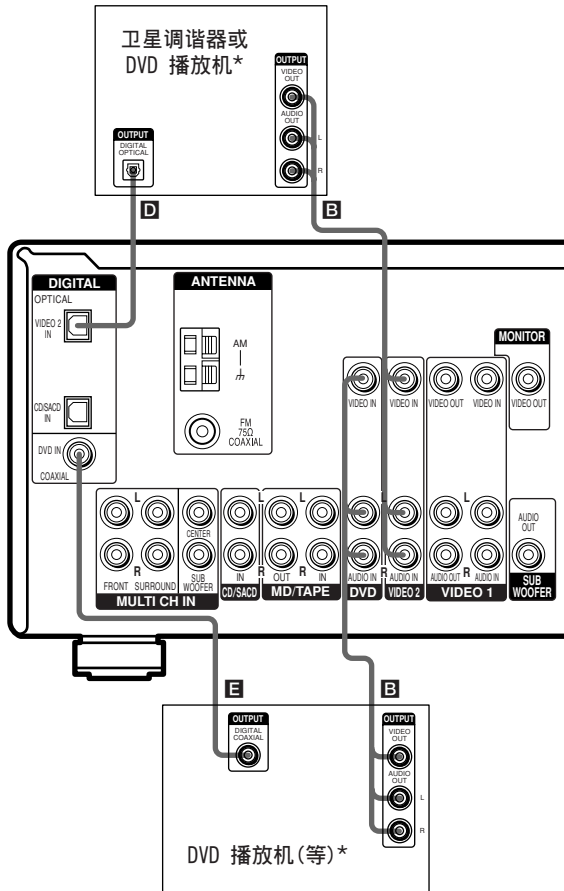
如果您的 DVD 播放机，电视机或卫星调谐器带有 COMPONENT VIDEO (Y, B-Y, R-Y) 输出插孔，监视器则带有 COMPONENT VIDEO 输入插孔时，请用单片机视频导线（无附带）连接到接收机。

数字单片机的连接

将 DVD 播放机和卫星调谐器(等)的数字输出插孔连接到接收机的数字输入插孔,即可将电影院的多声道环绕声音响带进您家里。为了充分享受多重声道环绕声效果,您必须连接 5 台扬声器(2 台前扬声器,2 台环绕声扬声器和 1 台中央扬声器)和 1 台重低音扬声器。

注

- 所有的 OPTICAL 和 COAXIAL 插孔皆与 96 kHz, 48 kHz, 44.1 kHz 和 32 kHz 取样频率兼容。
- 在连接于本机的 CD/SACD OPTICAL IN 插孔的 Super Audio CD 唱机上播放 Super Audio CD 光碟时将没有声音输出。请连接到模拟输入插孔(CD/SACD IN 插孔)。请参考附带于 Super Audio CD 唱机的使用说明书。



* 您可进行同轴或光频连接。我们建议您采用同轴连接,而非光频连接。

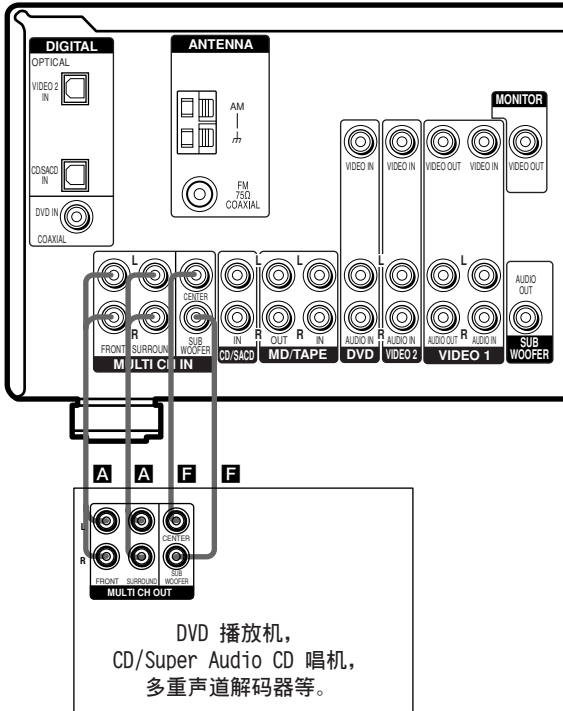
多重声道输入的连接

本接收机虽含有多重声道解码器，它也配备多重声道输入插孔。这些连接可让您享受以杜比数字 (Dolby Digital) 和 DTS 格式以外编码的多重声道软体。您的 DVD 播放机如果配备有多重声道输出插孔，您便可将它们直接连接到接收机享受 DVD 播放机的多重声道解码器的音响。另外，多重声道输入插孔还可用于连接外接式多重声道解码器。

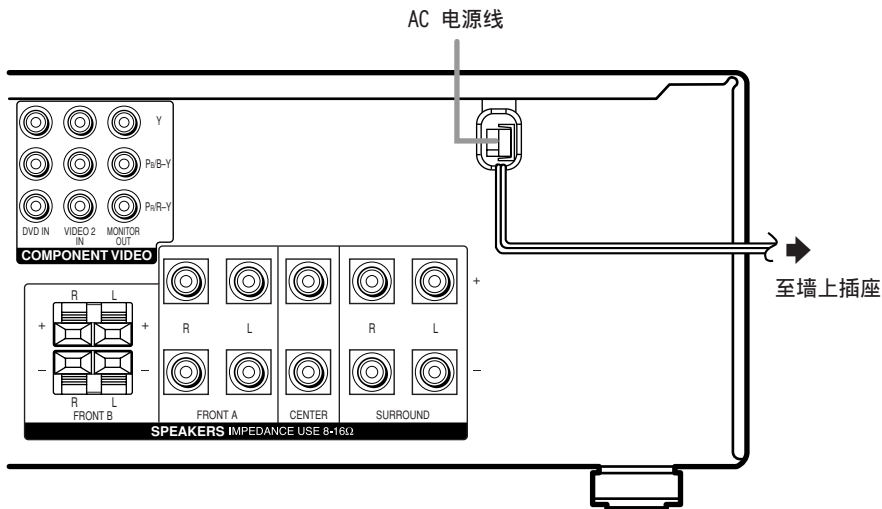
为了充分享受多重声道环绕声效果，您必须连接 5 台扬声器 (2 台前扬声器，2 台环绕声扬声器和 1 台中央扬声器) 和 1 台重低音扬声器。有关多重声道连接的详细内容，请参考随 DVD 播放机，多重声道解码器等附带的使用说明书。

注

- 采用下述连接时，请调整 DVD 播放机或多重声道解码器的环绕声扬声器和重低音扬声器的电平。
- 有关扬声器系统之连接详情，请参看第 13 页。



其他连接



连接 AC 电源线

要将本接收机的 AC 电源线接插到墙上插座之前，请先把扬声器系统连接到接收机（第 13 页）。

将声 / 视频单片机的 AC 电源线接插到墙上插座。

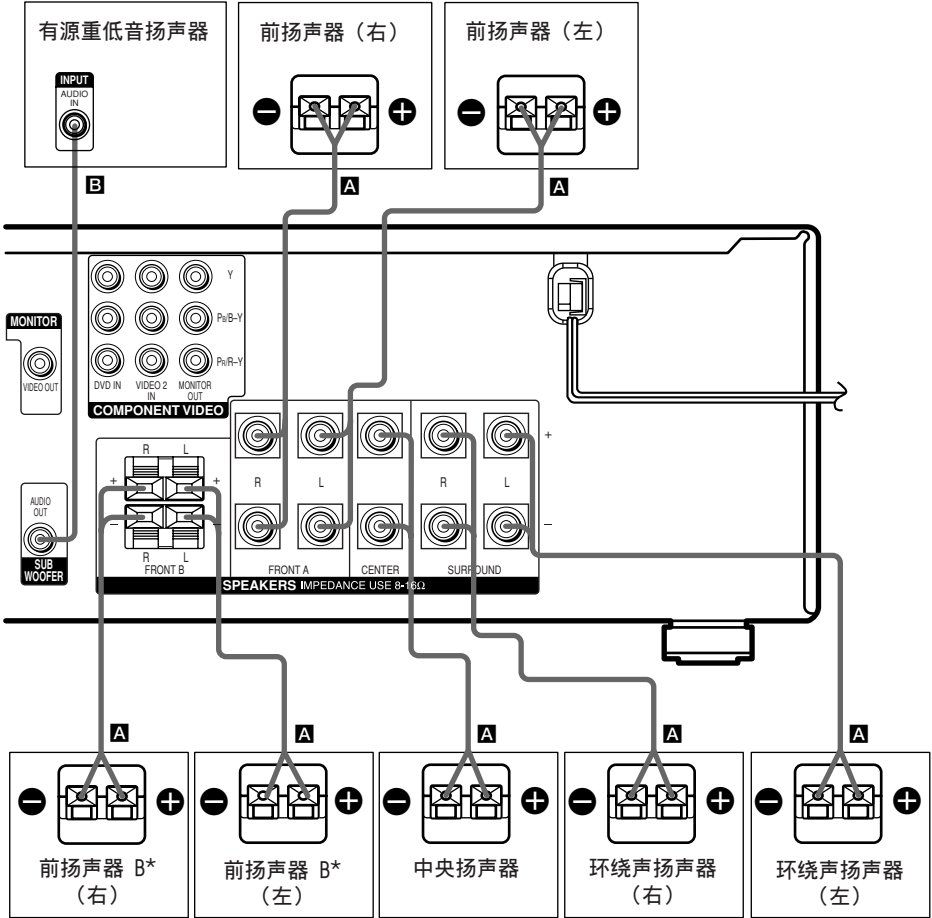
连接扬声器系统

需用导线

A 扬声器导线 (无附带)



B 单声道音频导线 (无附带)



* 如果您有一台额外的前扬声器系统, 请将它连接至 SPEAKERS FRONT B 端子。您可用 SPEAKERS (OFF/A/B/A+B) 按钮选择您想要用的前扬声器 (第 22 页)。

接下页

连接扬声器系统 (续)

注

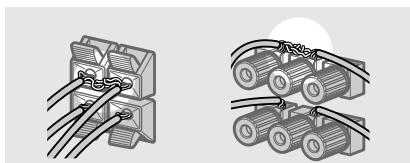
- 将扬声器导线剥除绝缘的一端扭曲约 10 mm。务必将扬声器导线对准单片机上相应的端子来接插: +至+及-至-。如果接反了导线,声音将失真并缺乏低音。
- 如果使用低于最大输入定额的扬声器,请小心调节音量以免超出扬声器的输出定额。

为免扬声器发生短路

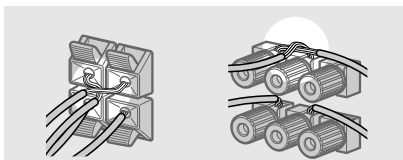
扬声器发生短路可能会损坏接收机。为防此事故,连接扬声器时必须注意下列事项。

请确保每条扬声器导线已剥过的尾端没有触碰到其他扬声器端子、其他扬声器已剥过的尾端或接收机的金属部件。

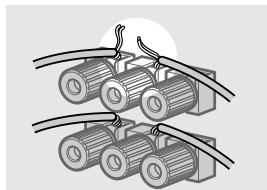
状况欠佳的扬声器导线范例



剥除了绝缘皮的扬声器导线触碰到别的扬声器端子。



过分剥除绝缘部分导致剥除了绝缘的导线相互触碰。



剥除了绝缘的导线未完全连接并触碰到接收机的后面板。

连接好所有单片机,扬声器和 AC 电源线之后,请输出测试音以检查所有的扬声器是否都已正确地连接。有关输出测试音的详情,请参照第 20 页。

输出测试音时,若听不到声音自扬声器发出,或者,测试音并非从接收机正显示著名称的扬声器发出时,可能是扬声器发生短路。遇此情况时,请再次检查扬声器的连接。

要避免损坏您的扬声器时

请确保在关闭接收机以前先调低接收机的音量。当您打开接收机,音量应该保持在您关闭接收机时的水平。

执行初始设置操作

一旦连接了扬声器并打开电源后，请清除接收机的存储。然后，请指定扬声器参数（大小，位置等）并执行您的系统所需的任何其他初始设置。

要领

设定中查听声频输出（输出声音时进行设置），检查连接状态（第 20 页）。

清除接收机的存储

首次使用接收机或要清除接收机的存储时，请进行下列程序。

1 关掉接收机。

2 按住 **I/5** 秒。

“PUSH”和“ENTER”交替出现于显示器中。

3 按 MEMORY/ENTER。

在显示器显示了“CLEARING”（存储器清除中）片刻之后，即出现“CLEARED”（存储器已清除）。

下面是重调为工厂设定项。

- SET UP, LEVEL, TONE 和 CUSTOM 菜单中的所有设定。
- 各功能和预约电台的所记忆的声场。
- 所有的声场参数。
- 所有的预约电台。
- 所有输入选择器和预约电台的索引名称。
- 主音量被设定为“VOL MIN”。

执行初始设置操作

第一次使用您的接收机之前，请先调整 SET UP 参数使接收机相应于您的系统。有关可调整参数，请参看第 43 页的桌表。关于扬声器的设定，请参看第 15-20 页。有关其他设定，则请参看第 31-33 页。

多重声道环绕声的设置

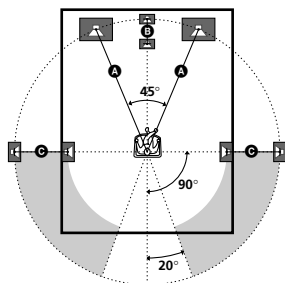
为获得最佳的环绕声效果，所有的扬声器必须与聆听位置 **A** 具同等距离。

然而，接收机却允许您将中央扬声器更接近 **B** 聆听位置放置；即高达 1.5 米，而环绕声扬声器则 4.5 米更接近 **C** 聆听位置。

前扬声器可被安置距离聆听位置 **A** 1.0 至 7.0 米之处。

您可依据房间的形状将环绕声扬声器放置在您的后面或两侧。但是，我们建议您将环绕声扬声器放置于您身后。

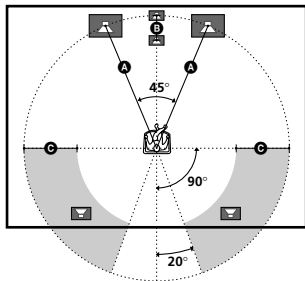
当放置环绕声扬声器于您的两侧时
(长型房间)



接下页

多重声道环绕声的设置 (续)

当放置环绕声扬声器于您的后面时
(宽型房间)



注

请勿将中央扬声器放置在比前扬声器距离聆听位置更远处。

指定扬声器参数

1 反复按 MAIN MENU (主选单) 以选择 “<SET UP>” (设定)。

2 转动 MENU 以选择所要调整的参数。

注

一部份扬声器的设定, 可能在显示器中显示得暗淡模糊。这表示因有别的扬声器设定而已自动地改变了设定或不可能调整。

3 转动 +/- 以选择所要的设定。

除了 “SP.PAT.X-X” 的设定外, 设定即自动地被输入。

4 如果您选择 “SP.PAT.X-X” 的设定, 按 MEMORY/ENTER。

5 反复步骤 2 和 3 直至设定好下列所有的参数。

初始设定

参数	初始设定
XXXX SET	EASY
SP.PAT.X-X	5-1*
(SUB WOOFER) S.W.XXX	YES
(FRONT) XXXXX	LARGE
(CENTER) XXXXX	LARGE
(SURROUND) XXXXX	LARGE
DIST.X.X m	3.0 m
DIST.X.X m	3.0 m
DIST.X.X m	3.0 m
PL.XXXX	LOW

* 仅当选取 “EASY SET” 方可设置此参数。

■ XXXX SET (扬声器简易设置)

• EASY SET (简易设置)

若您选择 EASY SET, 选择预设扬声器排列可让您自动地设置您的扬声器 (请参看附带的 “简易设置手册”)。

• NORM SET (一般设置)

若您选择 NORM SET, 您可手动地调整每台扬声器的设置。

■ SP.PAT.X-X (扬声器设置排列)

当您选择 EASY SET, 请选择扬声器设置排列。转动 +/- 以选择扬声器的设置排列并按 MEMORY/ENTER 以输入选项。请使用附带的简易设置手册以检查您的扬声器排列。

■ 重低音扬声器的选项 (S.W.) S.W. XXX)

- 如果连接重低音扬声器，请选择“YES”。
- 如果没有连接重低音扬声器，请选择“NO”。这将启动低音改向电路并从别的扬声器输出 LFE 信号。
- 为了充分利用杜比数字 (Dolby Digital) 低音改向电路，我们建议您把重低音扬声器的截断频率尽可能设定于较高频率。

■ 前扬声器尺寸 (L) (R) XXXXX)

- 如果连接了可有效地再现低音频率的大型扬声器，请选择“LARGE”（大型）。通常是选“LARGE”。
- 使用多重声道环绕声时如果声音失真，或缺乏环绕声效果，请选择“SMALL”（小型）以启动低音改向电路并从重低音扬声器输出前声道低音频率。
- 当前扬声器被设定为“SMALL”时，中央和环绕声扬声器也都自动地设定为“SMALL”（除非预先设定于“NO”）。
- 当重低音扬声器设定为“NO”，前扬声器自动设定为“LARGE”（大型），并且您无法改变此设定。

■ 中央扬声器尺寸 (C) XXXXX)

- 如果连接了可有效地再现低音频率的大型扬声器，请选择“LARGE”（大型）。通常是选“LARGE”。然而，如果设定前扬声器于“SMALL”，您将无法把中央扬声器设定于“LARGE”。
- 使用多重声道环绕声时如果声音失真，或缺乏环绕声效果，请选择“SMALL”以启动低音改向电路并从前扬声器（如果设定于“LARGE”）或重低音扬声器输出中央声道低音频率。^{*1}
- 如果没有连接中央扬声器，请选择“NO”。中央声道的音响将从前扬声器输出。^{*2}

■ 环绕声扬声器尺寸 (S) (R) XXXXX)

- 如果连接了可有效地再现低音频率的大型扬声器，请选择“LARGE”（大型）。通常是选“LARGE”。然而，如果设定前扬声器于“SMALL”，您将无法把环绕声扬声器设定于“LARGE”。
- 使用多重声道环绕声时如果声音失真，或缺乏环绕声效果，请选择“SMALL”以启动低音改向电路并从重低音扬声器或“LARGE”扬声器输出环绕声声道低音频率。
- 如果没有连接环绕声扬声器，请选择“NO”。^{*3}

要领

^{*1-3} 相应于下列杜比专业逻辑 (Dolby Pro Logic) 模式

^{*1} NORMAL (一般)

^{*2} PHANTOM (幻像)

^{*3} 3 STEREO (3 立体声)

[接下页](#)

多重声道环绕声的设置 (续)

要领

每台扬声器的 LARGE 和 SMALL 设置将决定内置音响处理器是否将截断来自该声道的低音信号。当低音被截断后，低音改向电路将传送相应的低音频率至重低音扬声器或其他“LARGE”扬声器。然而，因为低音含有指定的改向性质，可以的话最好别截断它。因此，虽然使用小型扬声器，若您要从该扬声器输出低音频率，您可将它设置为“LARGE”。另一方面，若您使用大型扬声器但不希望低音频率自扬声器输出，则请设置为“SMALL”。

如果总声音电平低于您所要的水准，请把所有的扬声器都设定于“LARGE”。如果低音不足，您可使用 TONE (音调) 选单里的 BASS (低音) 参数以加强低音电平。请参看第 28 页以调整低音。

■ 前扬声器的距离 (DIST.X.X m)

设定从您的聆听位置到前扬声器的距离 (第 15 页的 **A**)。

■ 中央扬声器的距离 (DIST.X.X m)

设定从您的聆听位置到中央扬声器的距离。中央扬声器的距离必须与前扬声器 (第 15 页的 **A**) 的距离一样；即 1.5 米更接近您的聆听位置 (第 15 页的 **B**)。

■ 环绕声扬声器的距离 (DIST.X.X m)

设定从您的聆听位置到环绕声扬声器的距离。环绕声扬声器的距离必须与前扬声器 (第 15 页的 **A**) 的距离一样；即 4.5 米更接近您的聆听位置 (第 15 页的 **C**)。

要领

接收机可让您按照距离输入扬声器的位置。然而，您不能把中央扬声器设定得更远于前扬声器。中央扬声器也不能设定在 1.5 米以上更接近于前扬声器。

同样的，环绕声扬声器不可设置在比前扬声器更远于聆听位置。而且，它们不可被放置在超过 4.5 米更接近聆听位置。

这是因为错误放置扬声器将使您无法充份享受环绕声效果。

请注意，扬声器的距离设定如果近过扬声器的实际位置，则来自扬声器的音响将会被延迟。换言之，扬声器听起来会好像远一些。

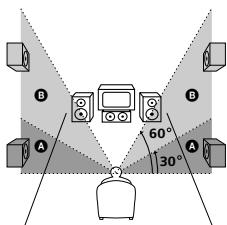
例如把中央扬声器的距离设定得比实际的扬声器位置近 1~2 米时将制造相当逼真的“在银幕里面”的感觉。如果因为环绕声扬声器太靠近而得不到满意的环绕声效果，您可以把环绕声扬声器的距离设定为比实际距离接近 (较短距离)，如此即可产生较大声级。

一边聆听音响一边调节这些参数将带给您更佳的环境声效果。不妨试试！

■ 环绕声扬声器的放置 (SRL, SRR) PL.XXXX)*

此参数可让您指定环绕声扬声器的高度以正确地操作数字影院音响环绕声模式。请参考下图。

- 如果环绕声扬声器的位置符合 **A** 部分，请选择“PL.LOW”。
- 如果环绕声扬声器的位置符合 **B** 部分，请选择“PL.HIGH”。



- * 当“环绕声扬声器尺寸 (SRL, SRR)”被设定于“NO”时，这些参数都无效。

要领

环绕声扬声器的放置参数是为操作带有虚拟元素的数字影院音响模式而设计的。

在数字影院音响模式中，扬声器的放置将不像其他模式所要求的的那样严格。所有具有虚拟元素的模式虽都以环绕声扬声器必须被设置在聆听位置后面的前提下设计，但即使环绕声扬声器位于相当宽大的角度，它仍能保留相当的效果。但是，如果扬声器从紧靠著聆听位置的左边和右边面对聆听者时，带有虚拟元素的扬声器将无法发挥功效。

此外，每个聆听环境都有许多可变因素，例如墙的反射性。

因此，我们建议您播放多重声道环绕声编码软件，并且于您所在之处聆听每个设定的效果。请选择那些有良好的宽广感，以及在环绕声扬声器的环绕音响和前扬声器的声响之间能最成功组成一连贯空间的设置。若您不确定那种音响最好，请选择“PL.LOW”，然后使用扬声器距离参数和扬声器电平调整以获得适当的平衡。

[接下页](#)

多重声道环绕声的设置 (续)

调整扬声器的电平

坐在聆听位置时用遥控器调整各扬声器的电平。

注

本接收机含有中心频率为 800 Hz 的全新测试音，让您更轻易地调整扬声器电平。

1 按遥控器上的 I/⏻ 以打开接收机。

2 按遥控器上的 TEST TONE。

显示器中即出现“T. TONE”(测试音)，您将逐一地从各个扬声器听到测试音。

前(左) → 中央 → 前(右) →
环绕(右) → 环绕(左) →
重低音扬声器

3 利用 LEVEL (电平) 菜单调整扬声器电平和平衡，使来自各扬声器的测试音大小水平相同。

有关 LEVEL 选单的详情，请参看第 27 页。

在进行调整当中，测试音是从被调整的扬声器所输出。

4 再按一次 TEST TONE 以关掉测试音。

要领

您可同时调整所有扬声器的电平。按遥控器上的 MASTER VOL +/- 或转动主机上的 MASTER VOLUME。

注

- 当接收机被设定为 MULTI CH IN 时将无法输出测试音。
- 在进行调整当中，调整数值将显示于显示器。
- 虽然这些调整也可用前面板上的 LEVEL 选单来进行（当输出测试音时，接收机将自动地切换为 LEVEL 选单），我们建议您按照上述说明，用遥控器从您的聆听位置调整扬声器的电平。

检查连接

把所有的单片机都连接到接收机之后，请进行下列操作以确认连接是否正确。

1 按 I/⏻ 以打开接收机。

2 打开所连接的单片机（例如 CD 唱机或磁带卡座）。

3 转动 INPUT SELECTOR 以选择单片机（节目信号源）。

4 开始播放。

若进行这些步骤以后仍无法获得正常的音响，请参看第 38 页的“故障探寻”以采取适当的对策。

选择单片机

INPUT SELECTOR

转动 INPUT SELECTOR 以选择您要使用的单片机。

要选择	显示
录影机	VIDEO 1 或 VIDEO 2
卫星调谐器	VIDEO 2
DVD 播放机	DVD
MD 或磁带卡座	MD/TAPE
CD 或 Super Audio CD 唱机	CD/SACD
内置调谐器	TUNER FM/AM

打开所选单片机之后，选择单片机并播放节目信号源。

- 选择了录影机或 DVD 播放机之后，打开电视机并设定电视机的视频输入以配合您所选的单片机。

INPUT MODE (输入模式)

按 INPUT MODE 为数字单片机选择输入模式。

每按一次按钮，当前所选单片机的输入模式将转换。

选择	以便
AUTO IN	当兼具数字和模拟两种连接时，数字信号具有优先权。如果没有数字信号，模拟将被选取。
COAX IN	指定数字音频信号输入到 DIGITAL COAXIAL 输入插孔。

选择	以便
OPT IN	指定数字音频信号输入到 DIGITAL OPTICAL 输入插孔。
ANALOG	指定模拟音频信号输入到 AUDIO IN (L/R) 插孔。

注

当 96 kHz 数字信号被输入，音调，声场和环绕声效果将不起作用。

MULTI CH IN

按遥控器上的 MULTI CH 以享受连接到 MULTI CH IN 插孔的音频源。您可以调整所有扬声器的平衡和电平。当此功能启动，音调和环绕声效果将关闭。

MUTING (静音)

按下遥控器上的 MUTING 以消除声音。再次按下以取消静音功能。当您打开电源或转动 MASTER VOLUME 以提高音量时，静音功能也将被取消。

PHONES (耳机)

用于连接头戴耳机。

- 当连接了头戴耳机时，扬声器的输出将自动取消，“SP A”和“SP B”将不会在显示器中亮起。

[接下页](#)

选择单片机 (续)

SPEAKERS (OFF/A/B/A+B)

按 SPEAKERS (OFF/A/B/A+B) 按钮以从连接到 SPEAKERS FRONT 端子的扬声器输出声音。

每次您按下按钮, 显示器将如下般循环亮起:

SP A → SP B → SP A 和 SP B → 无显示*

要驱动	请选择
扬声器系统 A (连接至 SPEAKERS FRONT A 端子)	SP A (出厂预设)
扬声器系统 B (连接至 SPEAKERS FRONT B 端子)	SP B
两个扬声器系统 A 和 B (连接至 SPEAKERS FRONT A 和 B 端子)	SP A 和 SP B

* 如果您不想驱动扬声器系统 A 和 B, 按 SPEAKERS (OFF/A/B/A+B) 直到“SP A”和“SP B”在显示器中无法亮起 (无显示)。

改变显示

DISPLAY (显示)

每按一次 DISPLAY, 显示即如下循环切换:

单片机的索引名称* → 所选单片机 → 适用于节目信号源的声场

选取调谐器时

预约电台的索引名称* → 频率 → 适用于波段或预约电台的声场

* 索引名称仅当在您已指配一个名称给单片机或预约电台后才会出现 (第 31 页)。只输入空白空间或与输入选择器具有同样名称将无法显示索引名称。

只需选择接收机的预编程声场之一，您即可充份利用环绕声效果。这些效果能将电影院和音乐厅魄力十足及强劲的音响带进您家里。您也可通过改换环绕声参数来定制声场以获取您所要的音响。

为能充分享受环绕声效果，您必须先登记扬声器的数量和位置。享受环绕声之前，请参阅从第 15 页起的“多重声道环绕声的设置”一节以设定扬声器参数。

仅使用前扬声器 (2 声道立体声)

按 2CH。

“2CH ST.”将出现于显示器中。

此模式只从前左和右扬声器输出声音。标准的 2 声道（立体声）信号源完全不需经过声场处理。多重声道环绕声格式将下降混频为 2 声道。

注

当选取“2CH ST.”，重低音扬声器将不输出声音。如果要使用前左和右扬声器以及重低音扬声器聆听 2 声道（立体声）时，反复按 A.F.D.（自动格式化指令）以选择“A.F.D. AUTO”。

享受高保真度音响

此自动格式化指令（A.F.D.）模式允许您为声频音响选择您想要的解码模式。

模式	解码模式
A.F.D. AUTO	与编码相同
DOLBY PL	杜比专业逻辑
PL II MOV	杜比专业逻辑 II
PL II MUS	

自动为输入的声频信号解码

反复按 A.F.D.（自动格式化指令）以选择“A.F.D. AUTO”。

本模式能自动检测输入的声频信号类型（Dolby Digital，DTS 或标准 2 声道立体声），必要时则执行适当的解码。此模式将输出所录制 / 编码的音响而不加杂其他效果（例如交混回响）。

然而，若没有低频率信号（Dolby Digital LFE 等），它将制造低频率信号以输出到重低音扬声器。

[接下页](#)

在多重声道中享受立体声音响 (杜比专业逻辑 II)

此接收机结合了具有电影模式和音乐模式的 Dolby Pro Logic II (杜比专业逻辑 II)。而且此接收机可通过 Dolby Pro Logic II (杜比专业逻辑 II) 在 5.1 声道中再现 2 声道音响。

反复按 A.F.D. (自动格式化指令) 以选择 “DOLBY PL”, “PLII MOV” 或 “PLII MUS”。

所选择的解码类型将在显示器中显示。

■ DOLBY PL (杜比专业逻辑)

执行专业逻辑解码。具有多重声道环绕声声频信号的软体将依据其录制方式播放。带有 2 声道声频信号的信号将用杜比专业逻辑解码以创造环绕声效果 (四声道)。

■ PLII MOV (专业逻辑 II 电影)

执行专业逻辑 II 电影模式解码。此设定适用于以杜比环绕声编码的电影。此外, 在观看旧电影或配音的录像带时, 可用此模式再现 5.1 声道声。

■ PLII MUS (专业逻辑 II 音乐)

执行专业逻辑 II 音乐模式解码。此设定适用于诸如 CD 等一般的立体声信号源。

注

杜比专业逻辑和杜比专业逻辑 II 的解码对于 DTS 格式的信号不起作用。

选择声场

只需根据您所收听的项目选择其中一种预编程声场, 您便可享受环绕声效果。

按	要选择
MOVIE	C.ST.EX A DCS *
	C.ST.EX B DCS *
	C.ST.EX C DCS *
MUSIC	HALL
	JAZZ
	CONCERT

* 带 **DCS** 标志的声场采用 DCS 技术。

关于 DCS (数字影院音响)

在与 Sony Pictures Entertainment 的协作下, Sony 掌握了制片的音响环境, 并且结合所测得的数据和 Sony 的 DSP (数字信号处理器) 技术得以发展 “Digital Cinema Sound” (数字影院音响)。在家居影院中, “Digital Cinema Sound” (数字影院音响) 将依据影片导演的偏好模仿理想的影院音响环境。

用 Cinema Studio (影院制作室) EX 观赏电影

Cinema Studio (影院制作室) EX 是用于享受用多重声道格式编码的电影软件, 诸如 Dolby Digital DVD (杜比数字 DVD) 之类的理想模式。此模式用于再现 Sony Pictures Entertainment 制作室的音响特质。

反复按 MOVIE (电影) 以选择 “C.ST.EX A”, “C.ST.EX B” 或 “C.ST.EX C”。

所选择的声场出现于显示器中。

■ C.ST.EX A (影院制作室 EX A)

再现 Sony Pictures Entertainment 的“Cary Grant Theater”影片制作室的音响特质。这是一个标准模式，可以很好地观看大多数类型的影片。

■ C.ST.EX B (影院制作室 EX B)

再现 Sony Pictures Entertainment 的“Kim Novak Theater”影片制作室的音响特质。此模式是用于观看具有很多音响效果的科幻或动作影片的理想模式。

■ C.ST.EX C (影院制作室 EX C)

再现 Sony Pictures Entertainment 的配乐剧的音响特质。此模式用于观看音乐剧或音轨中以音乐为特色的古典影片的理想模式。

关于 Cinema Studio (影院制作室) EX

Cinema Studio (影院制作室) EX 包括下列三个要素：

• 虚拟多空间

从单一的实际环绕声扬声器制造 5 套虚拟扬声器围绕著听者。

• 屏幕深度配合

在电影院里，音响仿佛来自投射在电影屏幕上的影像的内部。此要素通过将前扬声器的音响转换到屏幕上，在您的聆听室里制造同样的感觉。

• 影院制作室交混回响

再现电影院独有的交混回响。

Cinema Studio (影院制作室) EX 是可同时操作这些元素的综合模式。

注

- 虚拟扬声器产生的音响效果可能会在播放信号里制造噪音。
- 当聆听运用虚拟扬声器的声场时，您将无法听见直接来自于环绕声扬声器的声音。

选择其他声场

反复按 MUSIC (音乐) 以选择您想要的声场。当前声场即出现于显示器中。

■ HALL

再现矩形音乐厅的音响。

■ JAZZ (爵士俱乐部)

再现爵士俱乐部的音响。


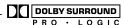

■ CONCERT (现场音乐会)

再现有 300 个座位的现场音乐会的音响。

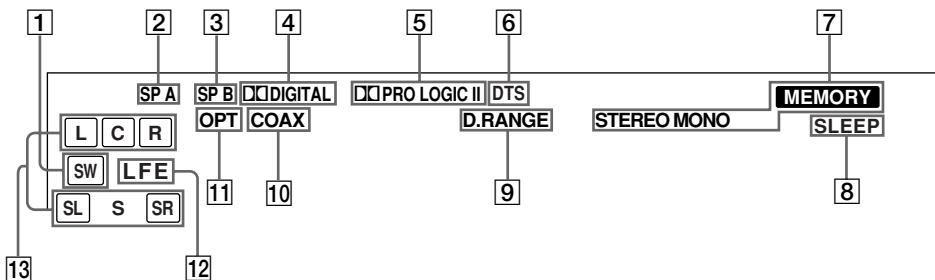
要关掉环绕声效果时

反复按 A.F.D. (自动格式化指令) 以选择“A.F.D. AUTO”或 2CH。

要领

- 每当选取节目信号源，此接收机可让您运用最后选取的声场于节目信号源 (声场联结)。例如若您聆听以“JAZZ”作为声场的 CD 时，将它更换为不同的节目信号源，然后回到 CD，“JAZZ”将再次被运用。
- 可以看包装上的洛格字标以辨识 DVD 软体等的编码格式。
 -  DOLBY DIGITAL: 杜比数位光碟
 -  DOLBY SURROUND PRO LOGIC: 杜比环绕声已编码程序
 -  DTS: DTS 数位环绕声已编码程序
- 当输入带有 96 kHz 取样频率的声音信号时，声音信号将自动地以立体声输出，而声场则被关掉。

多重声道环绕声显示说明



- 1 SW: 当重低音扬声器选项被设定于“YES”（第 17 页），而音频信号从 SUB WOOFER 插孔输出时将亮起。
- 2 SP A*: 当您选择驱动扬声器系统 A 时将亮起。
- 3 SP B*: 当您选择驱动扬声器系统 B 时将亮起。
* 当您连接头戴耳机到 PHONES（耳机）插孔时将不亮起。
- 4 DIGITAL: 接收机给用杜比数字格式录音的信号解码时将亮起。
- 5 PRO LOGIC II: 当接收机运用专业逻辑处理于 2 声道信号来输出中央和环绕声道信号时“ PRO LOGIC”将亮起。当运用专业逻辑 II 来处理（“PLII MOV”或“PLII MUS”）时“ PRO LOGIC II”将亮起（第 24 页）。然而，如果把中央和环绕扬声器设定于“NO”并选择“A.F.D. AUTO”，“DOLBY PL”，“PLII MOV”或“PLII MUS”，这两个指示灯将不亮起。
- 6 DTS: 当输入 DTS 信号时将亮起。
注
播放 DTS 格式的光碟时，请确认已作好数字连接，并确保 INPUT MODE 不被设定于“ANALOG”（模拟）（第 21 页）。
- 7 调谐器指示灯：当用接收机调谐广播电台等时将亮起。关于调谐器的操作，请参看第 29-31 页。
- 8 SLEEP（睡眠）：当激活了睡眠定时器时，点亮。
- 9 D.RANGE: 启动动态范围压缩功能时将亮起。请参看第 28 页关于调整动态范围压缩的说明。
- 10 COAX: 当声源信号是通过 COAXIAL 端子输入的数字信号时将亮起。
- 11 OPT: 当声源信号是通过 OPTICAL 端子输入的数字信号时将亮起。
- 12 LFE: 当播放含有 LFE（低频效果）声道的光碟，以及当 LFE 声道信号的声音实际上正在重新处理时将亮起。

注

杜比专业逻辑和杜比专业逻辑 II 的解码对于 DTS 格式的信号不起作用。

- 13 播放声道指示灯:** L, C, R 等文字表示播放声道。围绕著文字的框格表示接收机用于进行下降混频信号源声音的方式（依据扬声器设定）。当使用诸如“C.ST.EX”的声场时，接收机将根据信号源声加入交混回响效果。

L（前左），R（前右），C（中央（单声道）），SL（环绕声左），SR（环绕声右），S（环绕声（单声道或由专业逻辑处理获得的环境声成分））。

举例:

录音格式（前 / 环绕声）：3/2

输出声道：没有启动环绕声扬声器

声场：A.F.D.AUTO

L C R

SL SR

定制声场

通过调整环绕声参数和前扬声器的音调特性，您可定制声场以迎合您的特殊听赏喜好。

一旦定制了声场，它将一直存储于指定的存储器中。然而，您只须重新调整参数，便可随时改变定制声场。

关于各声场中备有的参数，请参看封底的桌表。

为获得最佳的多重声道环绕声效果

要定制声场之前，请按照从第 15 页起的“多重声道环绕声的设置”所说明的方法安置好扬声器，并作好各项调定工作。

所显示项目须知



各个菜单中您能调整的设定项目，将因声场而变。某设定参数可能变暗淡。这表示所选参数不使用或固定不能改变。

调整电平参数

LEVEL 选单含有用于调整各扬声器的平衡和音量的参数。您也可以定制当前声场多方面的概况。此设定适用于所有的声场除了 EFCT. 参数以外。至于 EFCT. 参数，此设定将为每个声场单独储存。

- 1 开始播放用多重声道环绕声编码的节目信号源。
- 2 反复按 MAIN MENU（主选单）以选择“<LEVEL>”。
- 3 转动 MENU 以选择所要调整的参数。
- 4 转动 -/+ 以选择所要的设定。设定即自动地被输入。

初始设定

参数	初始设定
 BAL.L/R XX*	BALANCE
CTR XXX dB*	0 dB
SUR.L.XXX dB*	0 dB
SUR.R.XXX dB*	0 dB
S.W.XXX dB*	0 dB
 COMP.XXX	OFF
EFCT.XXX	STD

* MULTI CH IN 的参数可个别地被调整。

接下页

定制声场 (续)

前平衡 (BAL.L/R XX)
用于调整前左和前右扬声器间的平衡。

中央电平 (CTR XXX dB)
用于调整中央扬声器的电平。

环绕声左电平 (SUR.L.XXX dB)
用于调整环绕声左扬声器的电平。

环绕声右电平 (SUR.R.XXX dB)
用于调整环绕声右扬声器的电平。

重低音扬声器电平 (S.W.XXX dB)
用于调整重低音扬声器的电平。

动态范围压缩 (D.RANGE COMP.XXX)
用于压缩声迹的动态范围。这项功能在深夜里用小音量观赏电影片时很有用。我们建议您选用“MAX”设定。

- 要再现无压缩的声迹时，请选择“OFF”。
- 要再现录影技师指定动态范围的声迹时，请选择“STD”。
- 要再现动态范围极为显著的压缩效果时，请选择“MAX”。

注
动态范围压缩仅适用于杜比数字信号源。

效果电平 (EFCT.XXX)
用于调整当前环绕声效果的“存在感”。

调整音调参数

TONE (音调) 选单含有可让您调整前扬声器的音调以获取最理想的音响参数。此设定适用于所有的声场。

- 1** 开始播放用多重声道环绕声编码的节目信号源。
- 2** 反复按 MAIN MENU (主选单) 以选择“<TONE>”。
- 3** 转动 MENU 以选择所要调整的参数。
- 4** 转动 +/- 以选择所要的设定。设定即自动地被输入。

初始设定

参数	初始设定
BASS XX dB	0 dB
TREB.XX dB	0 dB

低音 (BASS XX dB)
可让您调整低音。

高音 (TREB.XX dB)
可让您调整高音。

将定制声场重调回工厂设定

- 1** 如果接通著电源，请按 I/O 以关掉电源。
- 2** 按住 2CH，并按 I/O。
“SF.CLR.”即出现于显示器，所有的声场则重调回工厂设定。

在接收广播电台以前，务必将 FM 和 AM 天线连接至接收机（第 7 页）。

直接调谐

您可用附带遥控器上的数字按钮直接输入所要电台的频率。关于本章节所使用的按钮之详情，请参照第 34-37 页。

1 转动 INPUT SELECTOR 以选择 FM 或 AM 波段。

最后接收的电台即被调入。

2 按遥控器上的 D.TUNING。

3 按数字按钮以输入频率。

例 1：FM 102.50 MHz

① → ② → ③ → ④ → ⑤ → ⑥

例 2：AM 1350 kHz

① → ③ → ⑤ → ⑦

如果您无法调入电台，并且输入的数字闪烁时

务必确认已输入正确的频率。否则，请重复第 2 和 3 步骤。如果输入的数字仍旧闪烁，则表示该频率不适用于您的地区。

4 如果您已调入 AM 电台，请调整 AM 环形天线的方向以获取最佳的接收。

5 反复步骤 1 到 4 以接收其他电台。

要领

- 如果忘记准确的频率，您可在输入所要电台的近似频率之后按 TUNING + 或 TUNING -。接收机即自动地调入所要电台。如果频率似乎比输入值高，请按 TUNING +，如果频率似乎低于输入值，则按 TUNING -。
- 如果显示器闪烁著“STEREO”，而 FM 立体声的接收状况欠佳时，按 FM MODE 以更换为单声道 (MONO)。虽没有立体声效果，但声音较不失真。要返回立体声模式时，再按一次 FM MODE。

调谐度盘：

FM：50 kHz

AM：9 kHz

自动调谐

如果您不知道所要收听电台的频率，您可以让接收机扫描当地所有的电台。

1 转动 INPUT SELECTOR 以选择 FM 或 AM 波段。

最后接收的电台即被调入。

2 按 TUNING + 或 TUNING -。

按 TUNING + 从低向高扫描；按 TUNING - 从高向低扫描。

当接收到电台时，接收机即停止扫描。

当接收机扫描到波段的任何一端时扫描将同方向地反复进行。

3 要持续扫描时，请再按一次 TUNING + 或 TUNING -。

预约调谐

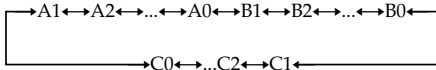
用直接调谐或自动调谐调入电台之后，您可以把它们预约到接收机里。然后，您即可用附带的遥控器输入两个字符的预约码直接调入任何电台。高达 30 个 FM 或 AM 电台可被预约。接收机也能扫描全部您所预约的电台。

要调收预约电台以前，务必遵照本章节“预约广播电台”的步骤先行预约。

预约广播电台

- 1** 转动 INPUT SELECTOR 以选择 FM 或 AM 波段。
最后接收的电台即被调入。
- 2** 用直接调谐（第 29 页）或自动调谐（第 29 页）调入所要预约的电台。
- 3** 按 MEMORY/ENTER。
“MEMORY”（存储器）将显示于显示器数秒。
请在“MEMORY”显示熄灭以前进行步骤 4 到 5。

- 4** 反复按 PRESET TUNING + 或 PRESET TUNING - 以选择预约的电台号码。
每按一次此按钮，预约的电台号码将按照如下顺序和方向改变：



在您选择预约的电台号码之前，如果“MEMORY”（存储器）显示熄灭，请再次从步骤 3 开始。

- 5** 再按一次 MEMORY/ENTER 以存储电台。
在您储存电台之前如果“MEMORY”显示熄灭，请再次从步骤 3 开始。
- 6** 反复步骤 2 到 5 以预约其他电台。

要改变预约号至另一个电台时

请进行步骤 1 到 5 以预约一个新电台到该预约号。

要领

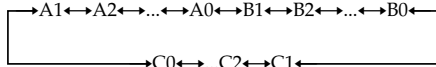
在步骤 4，您也可以使用遥控器选择预约的电台号码。反复按 SHIFT（转移）以选择存储页面（A，B 或 C），然后按数字键以选择预约号。

调谐预约广播电台

您可用下列两种方式的其中之一调入预约电台。

扫描预约广播电台

- 1** 转动 INPUT SELECTOR 以选择 FM 或 AM 波段。
最后接收的电台即被调入。
- 2** 反复按 PRESET TUNING + 或 PRESET TUNING - 以选择所要的预约电台。
每按一次此按钮，接收机将按照如下顺序和方向一次调入一个预约电台：



使用预约码

使用附带的遥控器执行下列操作。关于本章节所使用的按钮之详情，请参照第 34-37 页。

- 1** 按遥控器上的 TUNER。
最后接收的电台即被调入。
- 2** 按 SHIFT 以选择存储页（A，B 或 C）。
然后用数字按钮按所要电台的预约号。

为预约电台和节目信号源定名

每个预约电台或节目信号源可用高达 8 个字符的名字（索引名称）。每当选择了电台或节目信号源，这些名字（例如“VHS”）将显示于接收机的显示器。请注意，您只能给每个预约电台或节目信号源输入一个名字。

此功能可用于识别同类型的单片机。例如两台录影机可以分别被指定为“VHS”和“8MM”。它也便于识别连接于已被指定为其他类型单片机插头的单片机。例如连接第二台 CD 唱机到 MD/TAPE 插孔。

1 给预约电台定名

转动 INPUT SELECTOR 以选择 FM 或 AM 波段，然后调收您要建立索引名称的预约电台。

如果仍不熟悉预约电台的调谐方法，可参看第 30 页的“调谐预约广播电台”。

给节目信号源定名

选择要定名的节目信号源（单片机）。

2 反复按 MAIN MENU（主选单）以选择“<CUSTOM>”。

3 转动 MENU 以选择“NAME IN”。

4 按 MEMORY/ENTER。

5 使用 MENU 和 -/+ 建立索引名称：

请转动 -/+ 以选择字符，然后转动 MENU 以移动游标到下一个位置。

要插入空间时

请转动 -/+ 直至空白空间出现于显示器。

如果您输入错误

转动 MENU 直至要改变的字符闪烁，然后转动 -/+ 以选择您想要的字符。

6 按 MEMORY/ENTER 以存储索引名称。

7 反复步骤 2 到 5 以指配其他电台或节目信号源的索引名称。

录音 / 影

开始操作之前，务必确认是否已妥当连接所有的单片机。

录在录音带或迷你光碟（MD）上

您可用此接收机在卡带或迷你光碟上进行录制。必要时，可参看卡带座或迷你光碟（MD）卡座的使用说明书。

1 选择要进行录制的单片机。

2 准备播放用的单片机。

例如将 CD 置入 CD 唱机内。

3 把空白磁带或迷你光碟装入录音座，必要时，请调整录音电平。

4 开始录音座的录音，然后启动播放用单片机。

注

- 调节声音不会影响从 MD/TAPE OUT 插孔输出的信号。
- 当选取 MULTI CH IN，当前输入声源的模拟声频信号将从 REC OUT 插孔输出。
- 有些声源含有拷贝防護以防翻录。遇此情形时，您可能无法从该声源录制。

[接下页](#)

录在录像带上

您可用本接收机从录影机, 电视机或 DVD 播放机录影。在编辑录像带时, 您也可从各种声频信号源加进声频。必要时, 可参看录影机的使用说明书。

- 1** 选择要进行录制的节目信号源。
- 2** 准备播放用单片机。
例如装入要录到 DVD 播放机的 DVD。
- 3** 把空白录像带装入录影用录影机 (VIDEO 1)。
- 4** 让录影机开始录音, 然后播放要录的录影带或 DVD。

要领

在拷贝录影带或 DVD 时, 您可以把任何声频信号源的声音录进录像带中。查找要从别的声频信号源开始录音的录制起点, 选择节目信号源, 然后开始播放。来自该信号源的声频即被录进录像带的声迹里替代来自原来媒介的声频。要恢复从原来媒体的录音时, 请再选一次视频信号源。

注

- 请确定已将数字和模拟连接到 VIDEO 2 和 DVD 输入插孔。如果只有数字连接, 模拟录制将无法工作。
- 当选取 MULTI CH IN, 当前输入声源的模拟声频信号将从 REC OUT 插孔输出。

使用睡眠定时器

您可设定接收机在指定的时间自动关闭。

在电源打开时按遥控器上的 SLEEP。每按一次按钮, 显示即如下循环切换:

2-00-00 → 1-30-00 → 1-00-00
→ 0-30-00 → OFF (关掉)

要领

要在接收机关闭之前查看剩馀时间时, 请按 SLEEP。剩馀时间即出现于显示器。

用 CUSTOM 选单进行调整

CUSTOM 选单可让您进行下列调整。

- 1** 反复按 MAIN MENU (主选单) 以选择 “<CUSTOM>”。
- 2** 转动 MENU 以选择所要调整的参数。
显示器中的某些参数可能变暗淡。这表示所选参数由于声场 (第 23-25 页) 或其他设定不能利用或已固定不能改变。
- 3** 转动 -/+ 以选择所要的设定。
设定即自动地被输入。
- 4** 反复步骤 2 和 3 直到您已设定完所遵循的参数。

初始设定

参数	初始设定
DEC.XXXX	PCM (供 DVD, CD/SACD, AUTO (供 VIDEO 2))
DIMMER	亮度设定

■ 优先解码 (DEC.XXXX)

为输入的数字信号设定适当的解码。

• PCM 优先模式 (DEC.PCM)

使用它以享受于来自声频 CD (PCM) 和 DVD 的播放。当 CD 或 DVD 以外的媒介使用时，您可能会感受到噪音。若此事发生，转换至 AUTO (自动) 模式。

• AUTO (自动) 模式 (DEC.AUTO)

使用它以享受于来自声频 CD (PCM)，DVD，DTS-CD 和 DTS-LD 声源的播放。但是，使用声频 CDs，您可能无法聆听每个音轨的最初时刻。

通常，使用上述的初始设定。

■ DIMMER

用于调整显示器的亮度 (3 段)。

改变接收机的指令模式

当您在同一房间里使用两台 Sony 接收机时，此功能非常有用。

1 关掉接收机。

2 按住 MEMORY/ENTER 并按 I/⏻ 以关掉接收机。

“C.MODE.AVX” 出现在显示器中。

每次您反复上述程序，显示器将按照如下改变：

C.MODE.AV1 ↔ C.MODE.AV2

要领

初始设定为 “C.MODE.AV2”。


注

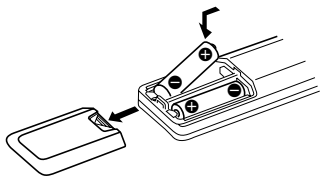
- 附带遥控器指令模式为 “AV2” 并且您将无法改变此设定。
- 若接收机与遥控器的指令模式不同，您将无法用遥控器来操作接收机。

您可用 RM-U306A 遥控器操作您系统的单片机。

在使用您的遥控器之前

把电池装入遥控器

在电池室中装入 R6 (AA 号) 乾电池并对准 + 和 - 电极。使用遥控器时，必须瞄准接收机上的遥控传感器 。



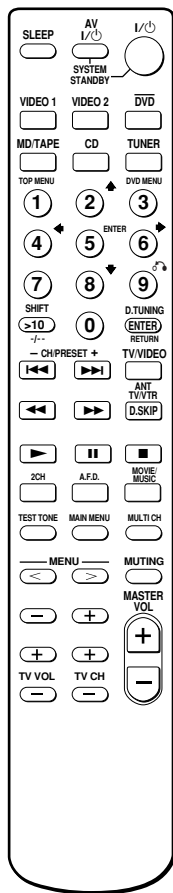
要领

在一般使用状况下，电池可耐用大约 6 个月。当遥控器不能再操作接收机时，请换上两节新的电池。

注

- 不要把遥控器放置在太热或太潮湿的地方。
- 不要混用新、旧电池。
- 别让遥控传感器受阳光或电灯的强光直射。否则，可能引起故障。
- 如果准备长时期不用遥控器，请取出电池以免因电池漏液及腐蚀而损坏遥控器。

遥控器按钮说明



下列桌表说明各按钮的功能。

遥控器按钮	操作	功能
SLEEP	接收机	启动睡眠功能和接收机自动关闭的时限。
I/O	接收机	打开或关闭接收机。

遥控器按钮	操作	功能
VIDEO 1	接收机	观看录影机。 (VTR 模式 3)
VIDEO 2	接收机	观看录影机。 (VTR 模式 1)
DVD	接收机	观看 DVD。
MD/TAPE	接收机	聆听 MD 或录音带。
CD	接收机	聆听 CD。
TUNER	接收机	收听广播电台。
SHIFT	接收机	反复按下以选择预约电台或调入预约的电台所用的存储页。
D.TUNING	接收机	调谐器电台直接输入模式。
2CH	接收机	选择 2CH 模式。
A.F.D.	接收机	选择 A.F.D.AUTO, DOLBY PL, PLII MOV 和 PLII MUS。
MOVIE/ MUSIC	接收机	选择 C.ST.EX A, C.ST.EX B, C.ST.EX C, HALL, JAZZ 和 CONCERT。
TEST TONE	接收机	按下以输出测试音。
MAIN MENU	接收机	反复按此按钮以选择四种游标模式的其中之一: SET UP, LEVEL, TONE 和 CUSTOM。
MULTI CH	接收机	选择 MULTI CH IN 信号源。
MENU </>	接收机	选取选单项目。
MENU +/-	接收机	进行调整或改变设定。
MUTING	接收机	消除来自接收机的声音。

遥控器按钮	操作	功能
MASTER VOL +/-	接收机	调整接收机的主音量。
AV \mathbb{I}/\mathbb{O}	电视机 / 录影机 / CD 唱机 / VCD 播放机 / 镭射影碟播放机 / DVD 播放机 / MD 卡座 / DAT 卡座	打开或关闭声视频单片机。
SYSTEM STANDBY (同时按 AV \mathbb{I}/\mathbb{O} 和 \mathbb{I}/\mathbb{O})	接收机 / 电视机 / 录影机 / 卫星调谐器 / CD 唱机 / VCD 播放机 / 镭射影碟播放机 / DVD 播放机 / MD 卡座 / DAT 卡座	关闭接收机和其他 Sony 声频/视频单片机。
0-9	接收机	与“SHIFT”按钮配合使用以预约电台或调入预约的电台并与“D.TUNING”配合以直接调谐。
	CD 唱机 / VCD 播放机 / 镭射影碟播放机 / MD 卡座 / DAT 卡座	选择曲号。 0 选择曲号 10。
	电视机 / 录影机 / 卫星调谐器	选择频道号。
>10	CD 唱机 / VCD 播放机 / 镭射影碟播放机 / MD 卡座 / 磁带卡座	选择超过 10 的曲号。

接下页

遥控器按钮说明 (续)

遥控器按钮	操作	功能
ENTER	电视机 / 录影机 / 卫星调谐器 / 镭射影碟播放机 / MD 卡座 / DAT 卡座 / 磁带卡座	用数字按钮选取频道、光碟或声轨之后, 按下以输入数值。
RETURN	VCD 播放机	回到之前的选单。
CH/ PRESET +/-	接收机 / 电视机 / 录影机 / 卫星接收机	扫描和选择预约电台。 选择预约频道。
⏮/⏭	录影机 / CD 唱机 / VCD 播放机 / 镭射影碟播放机 / DVD 播放机 / MD 卡座 / DAT 卡座 / 磁带卡座	跳越曲子。
⏪/⏩	CD 唱机 / VCD 播放机 / DVD 播放机	寻找曲子 (向前或向后)。
	录影机 / 镭射影碟播放机 / MD 卡座 / DAT 卡座 / 磁带卡座	快进或重绕。
▶	录影机 / CD 唱机 / VCD 播放机 / 镭射影碟播放机 / DVD 播放机 / MD 卡座 / DAT 卡座 / 磁带卡座	开始播放。

遥控器按钮	操作	功能
⏸	录影机 / CD 唱机 / VCD 播放机 / 镭射影碟播放机 / DVD 播放机 / MD 卡座 / DAT 卡座 / 磁带卡座	暂停播放或录。(单片机呈录音 / 影备用模式时, 则开始录音 / 影。)
■	录影机 / CD 唱机 / VCD 播放机 / 镭射影碟播放机 / DVD 播放机 / MD 卡座 / DAT 卡座 / 磁带卡座	停止播放。
ANT TV/VTR	录影机	选择来自天线端子的输出信号: 电视信号或录影机节目。
D.SKIP	CD 唱机 / VCD 播放机 / DVD 播放机 / MD 卡座	跳越光碟 (仅于多用途光碟转换器)。
TOP MENU	DVD 播放机	显示 DVD 标题。
DVD MENU	DVD 播放机	显示 DVD 选单。
ENTER	DVD 播放机	输入选单。
↶	DVD 播放机	返回之前的选单或退出选单。
⬆/⬇/⬅/➡	DVD 播放机	选择选单项目。

遥控器按钮	操作	功能
-/-	电视机	选择频道输入模式，一位或两位数。
TV/VIDEO	电视机	选择输入信号：电视输入或视频输入。
TV VOL +/-	电视机	调整电视机的音量。
TV CH +/-	电视机	选择预约频道。

注

- 当您按下输入选择器按钮 (VIDEO 1, VIDEO 2, DVD)，电视机的输入模式可能无法转换至您所要之相应的输入模式。在此情况下，按 TV/VIDEO 按钮以转换电视机的输入模式。
- 视接收机的型号而定，在本章节里所提及的某些功能可能无效。
- 以上说明仅作为范例。因此，依据单片机而定，以上的操作可能无效，或者其操作可能与说明有所出入。

改变输入选择器按钮的出厂预设

如果输入选择器按钮的出厂预设不符合您系统的单片机，您可将它更换。例如若您有磁带卡座而没有 MD 卡座时，您可按磁带卡座的 MD/TAPE 按钮。

请注意，TUNER 按钮的设定是不能更改的。

1 按住您想要更改输入声源的输入选择器按钮 (例如 MD/TAPE)。

2 按单片机的相应按钮：您要指配的输入选择器按钮 (例如 4 - 磁带卡座)。

下列按钮用以选择各别的输入声源：

要操作	请按下
CD 唱机	1
DAT 卡座	2
MD 卡座	3
磁带卡座 A	4
磁带卡座 B	5
镭射影碟播放机	6
录影机 (指令模式 VTR 1*)	7
录影机 (指令模式 VTR 2*)	8
录影机 (指令模式 VTR 3*)	9
电视机	0
DSS (数字卫星接收机)	>10
DVD 播放机	ENTER
VCD 播放机	◀◀

* Sony 录影机可用 VTR 1, 2 或 3 的设定操作。这些设置分别适用于 Beta, 8mm 和 VHS。

现在，您可用 MD/TAPE 按钮操作磁带卡座。

要将按钮重设回出厂预设时

请重复上述步骤。

要将所有的输入选择器按钮都重设回出厂预设时

同时按 I/☺, AV I/☺ 和 MASTER VOL - 。

使用前注意事项

安全须知

万一有杂物或液体掉进机壳内，请立即拔出接收机插头并找合格人员检查过后才可以再操作使用。

电源须知

- 操作本机之前，请先检查操作电压是否符合当地的电源电压。接收机的操作电压标示在接收机背后的铭板上。
- 虽然已关闭接收机的电源，如果没有从墙上插座拔出电线，本机并未完全与 AC 电源（主电源）隔离。
- 如果长时间不使用接收机，请从墙上插座拔下接收机的电源线。要拔下 AC 电源线时，必须抓住插头拔出，不可拉著导线拔。
- AC 电源线仅可在授权的维修中心更换。

内积热须知

在操作时本机可能会加热，这并非故障。如果持续使用本机，机壳顶部，侧面和底面的温度会上升得相当高。为免被烫伤，请不要接触机壳。

安置须知

- 必须安装接收机于通风良好的地方以防积热，并延长接收机的使用寿命。
- 不要把接收机放在靠近热源或阳光直射，多尘或有机械性冲击的地方。
- 别在机壳顶上放置任何东西以免堵住通风孔而引起故障。
- 当放置此机到经过特别处理的表面（带有蜡，油，擦亮剂，等）时请小心使用，否则可能造成表面被沾污或变色。

操作须知

要连接别的单片机之前，请先关掉接收机的电源，并拔下电源插头。

清洁须知

请用温和的洗涤剂清洗机壳，控制板和控制器。不可使用任何类型的砂布，磨粉或酒精，苯等溶剂。

如果您对接收机仍有任何疑问或问题，请洽询附近的 Sony 经销商。

故障探寻

使用接收机时如果碰到如下困难，请用此故障探寻指南試著解决问题，并参看第 20 页的“检查连接”以确认连接是否正确。

无论选那个单片机都无声音或只听到极小的声音。

- 检查扬声器和单片机的连接是否正确及稳固。
 - 检查接收机和所有的单片机是否都已打开了电源。
 - 检查 MASTER VOLUME 控制按钮没有被设定在“VOL MIN”。
 - 按遥控器上的 MUTE 以解除静音功能。
 - 检查 SPEAKERS (OFF/A/B/A+B) 按钮并未设定为关，并且依据您的 SPEAKERS FRONT（前扬声器）系统而设定（第 22 页）。
 - 确认未连接头戴耳机。
 - 因发生短路而启动了接收机的保护装置（“PROTECT”将闪烁）。请关掉接收机电源，解决了短路问题之后再打开电源。
-

指定的单片机没有发出声音。

- 确认单片机是正确地连接在该单片机所用的音频输入插孔。
- 确认连接用导线已适当地接插于接收机和单片机的插孔。
- 检查是否选对了接收机上的单片机。

其中一个前扬声器没有声音。

连接一对头戴耳机至 PHONES 插孔以确认声音是否自头戴耳机输出（第 21 页）。

如果只有一个声道从头戴耳机输出，单片机可能没有被正确地连接至接收机。请查看所有的导线是否都已妥善地插入接收机和单片机。

如果两个声道都从头戴耳机输出，前扬声器可能没有被正确地连接至接收机。请查看完全没有输出声音的前扬声器。

左和右声音不平衡或相反。

- 检查扬声器和单片机的连接是否正确及稳固。
- 调整 LEVEL 选单的平衡参数。

有严重的哼声或噪音。

- 检查扬声器和单片机的连接是否正确及稳固。
- 检查连接导线是否远离变压器或电动机，并且至少离开电视机或荧光灯 3 米。
- 把电视机移离音频单片机。
- 插头和插孔都脏了。请用微蘸酒精的布擦拭。

从中央或 / 和环绕扬声器上听不到声音或只听见极小的声音。

- 确认是否已打开了声场功能（按 MOVIE 或 MUSIC）。
- 选择含有“C.ST.EX”字样的声场（第 24 页）。
- 调整扬声器的电平（第 20 页）。
- 确认中央或 / 和环绕扬声器的尺寸参数是否设定于“SMALL”或“LARGE”（第 17 页）。

有源重低音扬声器没有输出声音。

- 检查重低音扬声器的连接是否正确及稳固。
- 请确定重低音扬声器的选项已被设定为“YES”（第 17 页）。
- 视声场所定，可能没有声音自 SUB WOOFER 端子输出（封底）。

无法获得环绕声效果。

确认是否已打开了声场功能（按 MOVIE 或 MUSIC）。

不能再现杜比数字（Dolby Digital）或 DTS 多重声道音响。

- 检查播放中的 DVD 等是否用杜比数字或 DTS 格式录制。
- 当连接 DVD 播放机等到此接收机的数字输入插孔，请检查所连接单片机的音频设定（音频输出用的设定）。

不能录音。

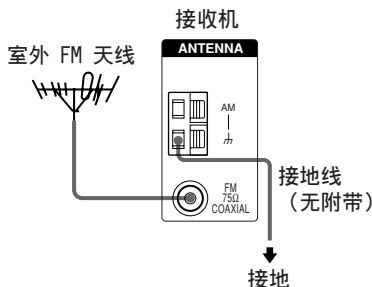
- 检查单片机的连接是否正确。
- 用输入选择器选择音源单片机。
- 开始从连接到模拟 MD/TAPE 端子的数字单片机录音之前，请确定 INPUT MODE 已被设定为“ANALOG”（第 21 页）。

接下页

故障探寻 (续)

FM 接收状况欠佳。

如下图所示用 75 欧的同轴电缆 (无附带) 将接收机连接至室外 FM 天线。如果将接收机连接至室外天线, 请把它接地以防闪电。为防止煤气爆炸事故, 请勿将地线连接至煤气配管。




不能调入电台。

- 检查是否已稳固地连接天线。请调整天线。必要时, 请连接室外天线。
- 电台的信号强度太弱 (当用自动调谐调入时)。请改用直接调谐。
- 确认调谐间隔是否设定正确 (当用直接调谐调入 AM 电台时)。
- 未曾预约电台或预约电台已被清除 (用扫描预约电台调谐时)。请预约电台 (第 30 页)。
- 按 DISPLAY 使频率出现于显示器。

电视屏幕或监视器上没有影像或影像不清晰。

- 选择接收机上适当的输入选择器。
- 把电视机设定于适当的输入模式。
- 把电视机移离声频单片机。

遥控器不起作用。

- 遥控器必须指向接收机的遥控传感器 。
- 检查您是否已选择 AV2 作为接收机的指令模式 (第 33 页)。
- 排除遥控器和接收机通讯之间的任何障碍物。
- 如果遥控器的电池变弱, 请换上两节新的电池。
- 请确定遥控器上所选的输入选择器是否正确。
- 如果遥控器被设定为只操作电视机, 在操作接收机或其他单片机之前, 请用遥控器选择电视机以外的播放源或单片机。

若您不能使用故障探寻指南来解决问题

清除接收机的存储便能解决问题 (第 15 页)。然而, 请注意所有的存储设置将重调为工厂设定项并且您无法再调整所有在接收机上的设置。

若问题仍存在

请咨询您附近的 Sony 经销商。

清除接收机的存储

要清除	请参看
所有存储的设定	第 15 页
定制声场	第 27 页

规格

放大器部分

功率输出

立体声模式时的额定功率输出

(8 欧 1 kHz, 总谐波失真 0.7 %)
100 W + 100 W¹⁾
90 W + 90 W²⁾

基准功率输出¹⁾

(8 欧 1 kHz, 总谐波失真 10 %)
FRONT³⁾: 120 W/ch
CENTER³⁾: 120 W
SURR³⁾: 120 W/ch

- 1) 在下列条件下测定: 230 V AC, 50 Hz
- 2) 在下列条件下测定: 220 V AC, 50 Hz
- 3) 视声场设定和信号源而定, 可能无声音输出。

频率响应

MULTI CH IN, MD/TAPE, DVD, VIDEO 1, 2	10 Hz - 50 kHz +0.5/-2 dB (具有声场 和音调旁通)
CD/SACD	10 Hz - 70 kHz +0.5/-2 dB (具有声场 和音调旁通)

输入 (模拟)

MULTI CH IN, CD/SACD, MD/TAPE, DVD, VIDEO 1, 2	灵敏度: 500 mV 阻抗: 50 千欧 信噪比 ⁴⁾ : 96 dB (A, 500 mV ⁵⁾)
--	---

- 4) INPUT SHORT (输入短路) (具有声场和音调旁通)。
- 5) 权重网络, 输入电平。

输入 (数字)

DVD (同轴)	灵敏度: - 阻抗: 75 欧 信噪比: 100 dB (A, 20 kHz LPF)
CD/SACD (光频), VIDEO 2 (光频)	灵敏度: - 阻抗: - 信噪比: 100 dB (A, 20 kHz LPF)

输出

MD/TAPE (OUT), VIDEO 1 (AUDIO OUT)	电压: 500 mV 阻抗: 10 千欧
SUB WOOFER	电压: 2 V 阻抗: 1 千欧

音调

增益电平: ±6 dB, 1 dB 步进

FM 调谐器部分

调谐范围	87.5 - 108.0 MHz
天线端子	75 欧, 不平衡
中频	10.7 MHz
灵敏度	
Mono (单声道):	18.3 dBf, 2.2 μV/75 欧
Stereo (立体声):	38.3 dBf, 22.5 μV/75 欧
有效灵敏度	11.2 dBf, 1 μV/75 欧

S/N (信噪比)

Mono (单声道):	76 dB
Stereo (立体声):	70 dB

1 kHz 时的谐波失真

Mono (单声道):	0.3 %
Stereo (立体声):	0.5 %

分离

1 kHz 时为 45 dB

频率响应

30 Hz - 15 kHz,
+0.5/-2 dB

选择性

400 kHz 时为 60 dB

[接下页](#)

规格 (续)

AM 调谐器部分

调谐范围	531 - 1602 kHz
天线	环形天线
中频	450 kHz
有效灵敏度	50 dB/m (1,000 kHz 或 999 kHz 时)
S/N (信噪比)	54 dB (50 mV/m 时)
谐波失真	0.5 % (50 mV/m, 400 Hz)
选择性	9 kHz 时: 35 dB

视频 (录影) 部分

输入
视频: 1 V_{p-p}, 75 欧

单片视频
Y: 1 V_{p-p}, 75 欧
P_B/B-Y: 0.7 V_{p-p}, 75 欧
P_R/R-Y: 0.7 V_{p-p}, 75 欧

输出
视频: 1 V_{p-p}, 75 欧

单片视频
Y: 1 V_{p-p}, 75 欧
P_B/B-Y: 0.7 V_{p-p}, 75 欧
P_R/R-Y: 0.7 V_{p-p}, 75 欧

一般规格

电源 220-230 V AC, 50/60 Hz

电力消耗 210 W

电力消耗 (备用模式中) 0.3 W

尺寸 430 × 145 × 298 mm
包含凸起部分和控制器

质量 (大约值) 7.5 kg

附带附件:

FM 电线天线 (1)
AM 环形天线 (1)
RM-U306A 遥控器 (1)
R6 (AA 号) 电池 (2)

有关您使用的组成机的地区码详情, 请参看第 4 页。

设计和规格有所变更时, 恕不另行奉告。

使用 MAIN MENU 按钮的设定一览表

您可用 MAIN MENU, MENU 和 -/+ 按钮进行各项设定。以下桌表说明这些按钮可作的各项设置。

反复按 MAIN MENU 以选择	转动 MENU 以选择	转动 -/+ 以选择	页数
<SET UP>	XXXX SET	EASY, NORM	16
	SP.PAT.X-X	5-1, 5-0, 4-1, 3-1, 3-0, 2-1, 2-0	
	(SUB WOOFER) S.W.XXX	YES, NO	
	(FRONT) XXXXX	LARGE, SMALL	
	(CENTER) XXXXX	LARGE, SMALL, NO	
	(SURROUND) XXXXX	LARGE, SMALL, NO	
	DIST.X.X m	在 1.0 米和 7.0 米之间 (0.1 米步进)	
	DIST.X.X m	在 DIST. 和 1.5 米之间 (0.1 米步进)	
	DIST.X.X m	在 DIST. 和 4.5 米之间 (0.1 米步进)	
PL.XXXX	LOW, HIGH	<LEVEL>	
BAL.L/R XX	L +8 到 R +8 (1 步进)		
CTR XXX dB	-10 dB 到 +10 dB (1 dB 步进)		
SUR.L.XXX dB	-10 dB 到 +10 dB (1 dB 步进)		
SUR.R.XXX dB	-10 dB 到 +10 dB (1 dB 步进)		
S.W.XXX dB	-10 dB 到 +10 dB (1 dB 步进)		
COMP.XXX	OFF, STD, MAX		
EFCT.XXX	因声场而异 (MIN, STD, MAX)	<TONE>	
BASS XX dB	-6 dB 到 +6 dB (1 dB 步进)		
TREB.XX dB	-6 dB 到 +6 dB (1 dB 步进)	<CUSTOM>	
DEC.XXXX	AUTO, PCM		
DIMMER	3 步进的亮度		

各声场的可调整参数

所调整的 BASS 和 TREB. 参数适用于各声场中。

	TONE	
	< BASS	> TREB.
2CH ST.	●	●
A.F.D.AUTO	●	●
DOLBY PL	●	●
PLII MOV	●	●
PLII MUS	●	●
C.ST.EX A	●	●
C.ST.EX B	●	●
C.ST.EX C	●	●
HALL	●	●
JAZZ	●	●
CONCERT	●	●
MULTI CH IN		
PCM 96K		

所调整的 LEVEL 参数适用于所有的声场除了 EFCT. 参数以外。对于 EFCT. 参数，此设定为每个声场单独储存。

	LEVEL						
	FRONT BAL	CENTER LEVEL	SUR.L. LEVEL	SUR.R. LEVEL	S.W. LEVEL	D.RANGE COMP ¹⁾	EFCT. LEVEL
2CH ST.	●					●	
A.F.D.AUTO	●	●	●	●	●	●	
DOLBY PL	●	●	●	●	●	●	
PLII MOV	●	●	●	●	●	●	
PLII MUS	●	●	●	●	●	●	
C.ST.EX A	●	●	●	●	●	●	●
C.ST.EX B	●	●	●	●	●	●	●
C.ST.EX C	●	●	●	●	●	●	●
HALL	●	●	●	●	● ²⁾	●	●
JAZZ	●	●	●	●	● ²⁾	●	●
CONCERT	●	●	●	●	● ²⁾	●	●
MULTI CH IN	●	●	●	●	●		
PCM 96K	●						

¹⁾ 视信号源或所作的调整而定，这些参数可能不起作用。请参看“调整电平参数”（第 27 页）的各项目以获取详情。

²⁾ 当选取这些声场，如果前扬声器的尺寸被设定为“LARGE”，则重低音扬声器将不会输出声音。但是，如果数字输入信号含有 LFE 信号，声音即从重低音扬声器输出。