

Home Theatre System

Operating Instructions

HTP-2000
HTP-1200

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.

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



Don't throw away batteries with general house waste; dispose of them correctly as chemical waste.

About This Manual

- The instructions in this manual are for model HTP-2000 and HTP-1200. Check your model number by looking at the lower right corner of the front panel. In this manual, HTP-1200 is used for illustration purposes unless stated otherwise.
- The instructions in this manual describe the controls on the remote. You can also use the controls on the receiver if they have the same or similar names as those on the remote. For details on the use of your remote, see pages 30–33. For details on the use of your DVD player, refer to separate operating instructions supplied with the DVD player.

The HTP-2000 consists of:

- Receiver STR-KSL700
- Speaker system
 - Front speakers SS-SLP701
 - Center speaker SS-CNP501
 - Surround speakers SS-MSP501
 - Sub woofer SA-WMSP501
- DVD player DVP-NS585P

The HTP-1200 consists of:

- Receiver STR-KSL500
- Speaker system
 - Front/Surround speakers SS-MSP501
 - Center speaker SS-CNP501
 - Sub woofer SA-WMSP501
- DVD player DVP-NS355

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.

Note for the supplied remote

For RM-U700

The AUX button on the remote is not available for receiver operation.

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1: Check how to hookup your components

Steps 1a through 1b beginning on page 6 describe how to hook up your components to this receiver. Before you begin, refer to “Connectable components” below for the pages which describe how to connect each component.

After hooking up all your components, proceed to “2: Connecting the antennas” (page 9).

Connectable components

Component to be connected	Page
DVD player	
With digital audio output ^{a)}	6–7
With analog audio output only ^{b)}	6–7
TV monitor	
With composite video input only	7, 8
Satellite tuner	
With digital audio output ^{a)}	6
With analog audio output only ^{b)}	6
VCR	8

^{a)} Model with a DIGITAL OPTICAL OUTPUT or DIGITAL COAXIAL OUTPUT jack, etc.

^{b)} Model equipped only with AUDIO OUT L/R jacks, etc.

Required cords

The hookup diagrams on the subsequent pages assume the use of the following optional connection cords (**A** to **E**) (not supplied unless indicated).

A Audio cord

White (L)
Red (R)



B Audio/video cord

Yellow (video)
White (L/audio)
Red (R/audio)



C Video cord

Yellow



D Optical digital cord



E Coaxial digital cord (supplied)

Orange



Notes

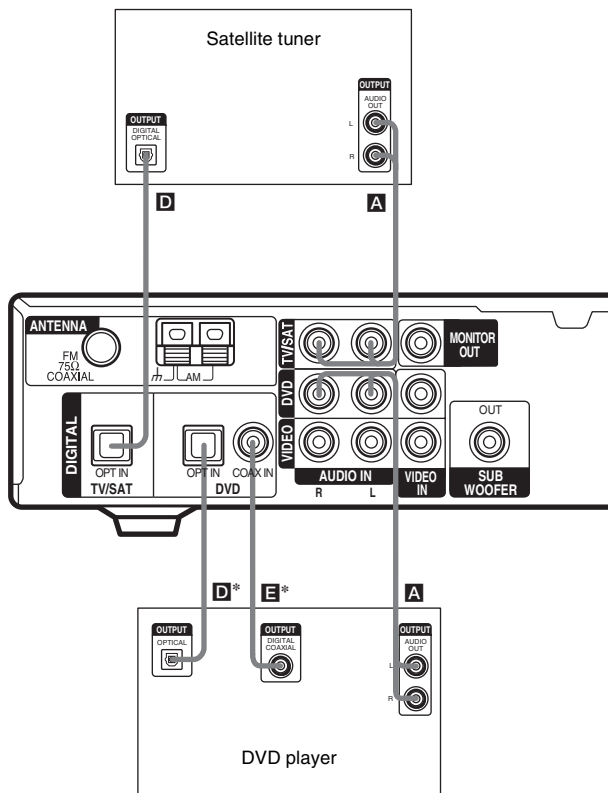
- Turn off the power to all components before making any connections.
- Be sure to make connections firmly to avoid hum and noise.
- When connecting an audio/video cord, be sure to match the color-coded pins to the appropriate jacks on the components: yellow (video) to yellow; white (left, audio) to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

1a: Connecting components with digital audio output jacks

Hooking up a DVD player or satellite tuner

For details on the required cords (**A**–**E**), see page 5.

1 Connect the audio jacks.

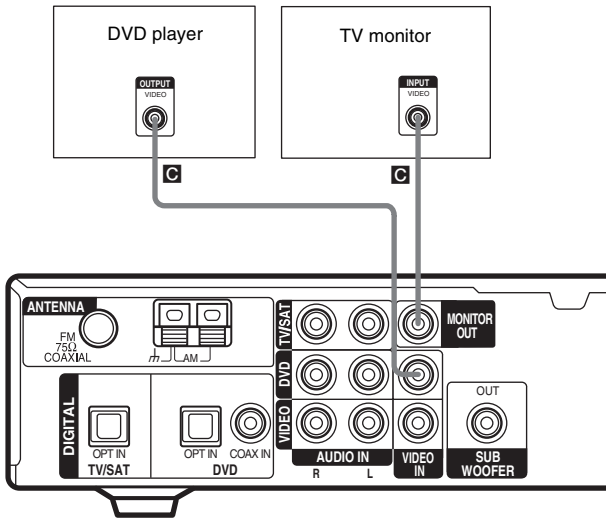


* Connect to either the COAX IN or OPT IN jack. We recommend making connections to the COAX IN jack.

Tip

All the digital audio jacks are compatible with 32 kHz, 44.1 kHz, 48 kHz and 96 kHz sampling frequencies.

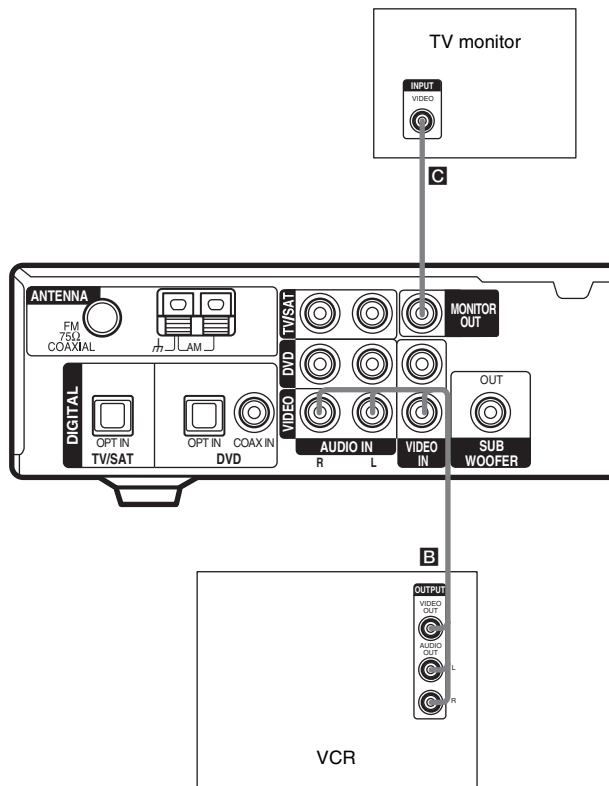
2 Connect the video jacks.



1b: Connecting components with only analog audio jacks

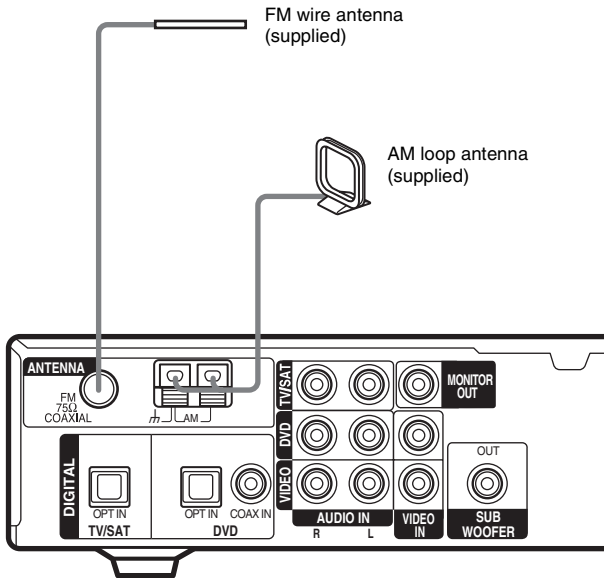
Hooking up video components

If you connect your TV to the MONITOR OUT jack, you can watch the video from the selected input (page 17). For details on the required cords (**A**–**E**), see page 5.



2: Connecting the antennas

Connect the supplied AM loop antenna and FM wire antenna.



Notes

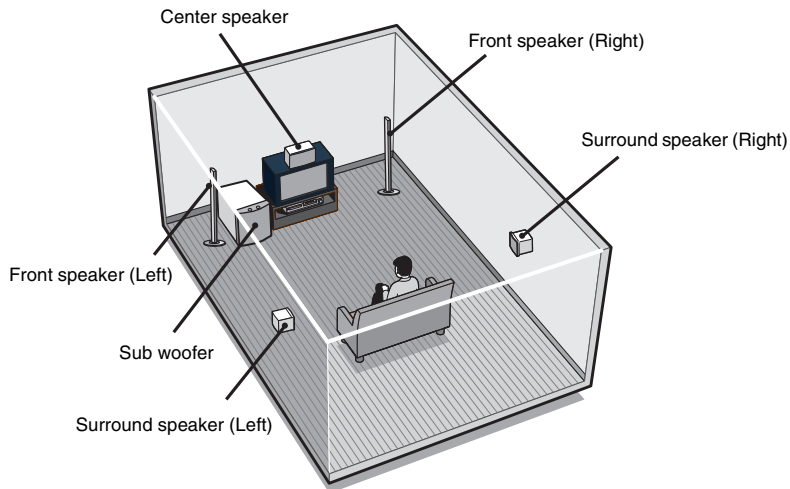
- To prevent noise pickup, keep the AM loop antenna away from the receiver and other components.
- Be sure to fully extend the FM wire antenna.
- After connecting the FM wire antenna, keep it as horizontal as possible.

3: Connecting speakers

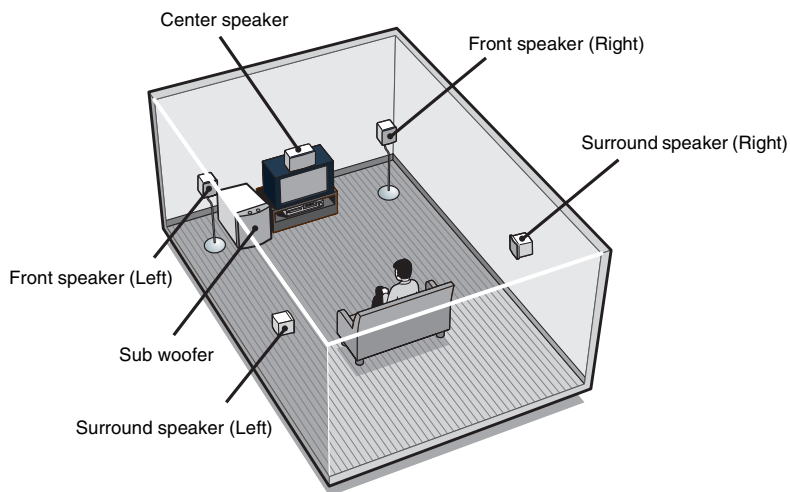
Connect your speakers to the receiver. This receiver allows you to use a 5.1 channel speaker system. To fully enjoy theater-like multi channel surround sound requires five speakers (two front speakers, a center speaker, and two surround speakers) and a sub woofer (5.1 channel).

Example of 5.1 channel speaker system configuration

HTP-2000 only



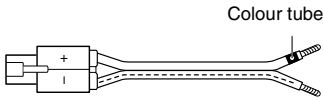
HTP-1200 only



Required cords

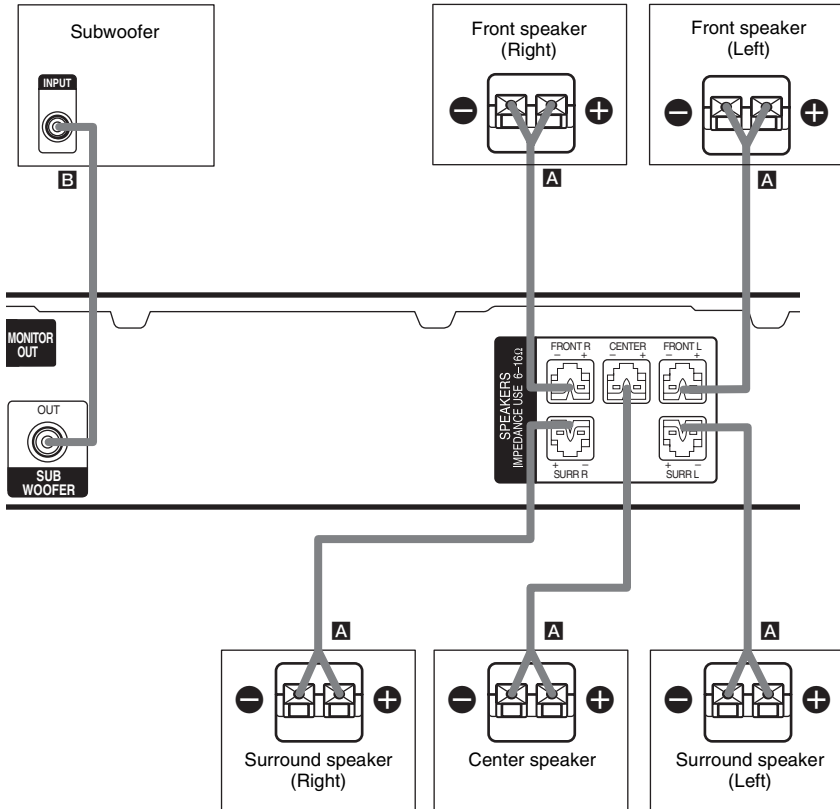
A Speaker cords (supplied)

The connector and the colour tube of the speaker cords are the same colour as the speaker terminal to be connected.



B Monaural audio cord (supplied)

Black



Note

Before you connect the speakers, attach the colour labels onto the speakers so that you can identify the speakers to be connected.

continued

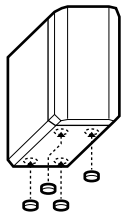
Tips

- Since the sub woofer does not emit highly directional signals, you can place it wherever you want.
- (Except for the front speaker of HTP-2000) For greater flexibility in the positioning of the speakers, use the optional WS-FV11 or WS-FV10D floor stand (available only in certain countries).

Attaching foot pads

(Except for the front speaker of HTP-2000)

To prevent speaker vibration or movement, attach the supplied foot pads to the speaker as shown in the illustration below.



Note

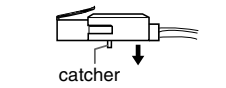
Be sure to attach the supplied foot pads to the sub woofer as well.

To change the speaker cord

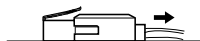
If you want to change the speaker cord, you can detach the supplied speaker cord from the connector.

1 Press the connector onto a flat surface.

Make sure that the catcher is facing the flat surface.

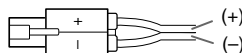


2 Pull the speaker cord from the connector.



3 Twist the stripped ends of the speaker cord you want about 10 mm and insert the speaker cord into the connector.

Make sure that the speaker cord is inserted according to its polarity : + to + and - to -. Otherwise the sound will be distorted and will lack bass.



4 Remove the connector from the flat surface.

Note

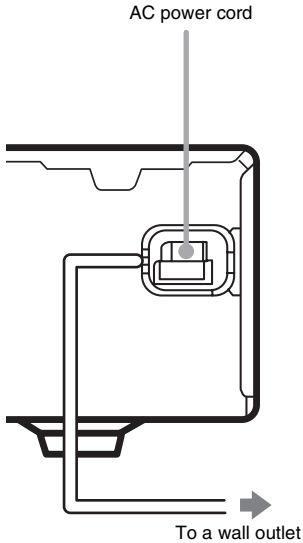
To avoid the speaker cord from coming off the speaker connector

- do not use a smaller-size speaker cord. We recommend that you use the AWG#18 to AWG#24 speaker cords.
- use the same speaker cord size for all the speaker connectors.
- twist the stripped ends of the speaker cords.
- insert the speaker cord completely into the speaker connector.

4: Connecting the AC power cord

Connecting the AC power cord

Connect the AC power cord to a wall outlet.



Performing initial setup operations

Before using the receiver for the first time, initialize the receiver by performing the following procedure.

This procedure can also be used to return settings you have made to their factory defaults.

Use the buttons on the receiver for the operation.

1 Press I/⏻ to turn off the receiver.

2 Hold down I/⏻ for 5 seconds.

“INITIAL” appears in the display.

The following are reset to their factory settings.

- All settings in the SET UP, LEVEL and TONE menus.
- The sound field memorized for each input and preset station.
- All sound field parameters.
- All preset stations.
- MASTER VOLUME is set to “VOL MIN”.

5: Setting up the speakers

You can use the SET UP menu to set the distance and location of the speakers connected to this receiver.

- 1 Press I/⏻ to turn on the receiver.
- 2 Press MAIN MENU repeatedly to select “<SET UP>”.
- 3 Press ↑ or ↓ repeatedly to select the parameter you want to adjust.
For details, see “Speaker setup parameters” below.

Note

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

- 4 Press ← or → repeatedly to select the setting you want.
The setting is entered automatically.
- 5 Repeat steps 3 and 4 until you have set all of the items that follow.

Speaker setup parameters

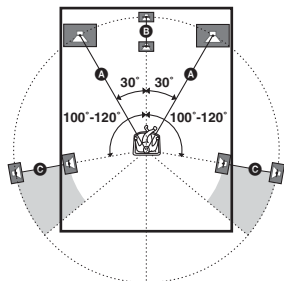
The initial setting is underlined>.

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

Initial setting: 3.0 m

Lets you set the distance from your listening position to the front speakers (A). You can adjust from 1.0 meter to 7.0 meters in 0.1 meter steps.

If both front speakers are not placed an equal distance from your listening position, set the distance to the closest speaker.



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

Initial setting: 3.0 m

Lets you 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) to a distance 1.5 meters closer to your listening position (B).

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

Initial setting: 3.0 m

Lets you 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) to a distance 4.5 meters closer to your listening position (C).

If both surround speakers are not placed an equal distance from your listening position, set the distance to the closest speaker.

Tip

The receiver lets 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 cannot 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 the enjoyment of surround sound.

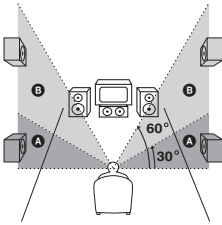
Please note that, setting the speaker distance closer than the actual location of the speakers will cause a delay in the output of the sound from that speaker. In other words, the speaker will sound like it is further away.

For example, setting the center speaker distance 1–2 meters 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!

■   PL. XXXX
(Surround speaker placement)

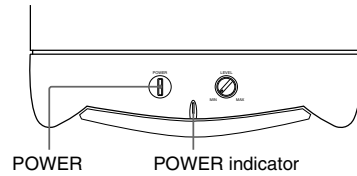
Lets you specify the height of your surround speakers for proper implementation of the surround effects of the Cinema Studio EX modes (page 24).



- **LOW**
Select if the height of your surround speakers corresponds to section **A**.
- **HIGH**
Select if the height of your surround speakers corresponds to section **B**.

6: Setting up the sub woofer

Listening to the sub woofer



Before playing the program source, set the volume to minimum on the receiver.

- 1 Turn on the receiver.**
- 2 Press input buttons (e.g., DVD) to select the program source (e.g., DVD player).**

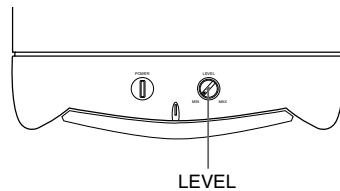
Tip

You can also use INPUT SELECTOR on the receiver to select the program source.

- 3 Press POWER on the sub woofer.**
The POWER indicator on the sub woofer lights up.
- 4 Play the program source.**

Adjusting the level

Slight adjustments to the system can enhance your sound enjoyment.



Turn LEVEL to adjust the volume.

Set the volume level to best suit your preference according to the program source.

Note

Do not set the volume of the sub woofer to maximum. Extraneous noise may be heard.

7: Adjusting the speaker levels and balance

— TEST TONE

Adjust the speaker levels and balance while listening to the test tone from your listening position.

Tip

The receiver employs a test tone with a frequency centered at 800 Hz.

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

2 Press **TEST TONE**.

“T. TONE” appears in the display and the test tone is output from each speaker in sequence.

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

3 **Adjust the speaker levels 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 settings, see page 26.

Tips

- To adjust the level of all speakers at the same time, press MASTER VOL +/- on the remote or turn MASTER VOLUME on the receiver.
- The adjusted value is shown in the display during adjustment.

4 **Press TEST TONE again after adjustment.**

The test tone turns off.

Selecting the component

- 1 Press **INPUT SELECTOR** on the receiver to select the component you want to use.

To select the	Light up
VCR	VIDEO
DVD player	DVD
Satellite tuner	TV/SAT
Built-in tuner (FM/AM)	TUNER

- 2 Turn on the component and start playback.

Note

If you select the VCR or DVD player, set the TV's video input to match the component you selected.

- 3 Turn **MASTER VOLUME** on the receiver to adjust the volume.

Note

To avoid damaging your speakers, make sure that you turn down the volume before you turn off the receiver.

To mute the sound

Press **MUTING**.

The muting function will be canceled when you do the following.

- Press **MUTING** again.
- Turn the power off.
- Increase the volume.

Listening to FM/AM radio

You can listen to FM and AM broadcasts through the built-in tuner. Before operation, make sure you have connected the FM and AM antennas to the receiver (see page 9).

Tip

The tuning scale is:

FM: 50 kHz

AM: 9 kHz

Automatic tuning

If you do not know the frequency of the station you want, you can let the receiver scan all available stations in your area.

- 1 Press **TUNER** repeatedly to select the **FM or AM band**.

The last received station is tuned in.

Tip

You can also use **INPUT SELECTOR** on the receiver.

- 2 Press **TUNING +** or **TUNING -**.

Press **TUNING +** to scan from low to high; press **TUNING -** to scan from high to low.

The receiver stops scanning whenever a station is received.

Tip

If "STEREO" flashes in the display and the FM stereo reception is poor, press **FM MODE** to change to monaural (MONO). You will not be able to enjoy the stereo effect, but the sound will be less distorted. To return to stereo mode, press **FM MODE** again.

Direct tuning

You can enter the frequency of the station you want directly.

1 Press TUNER repeatedly to select the FM or AM band.

The last received station is tuned in.

2 Press D.TUNING.

3 Press the numeric buttons to enter the frequency.

Example 1: FM 102.50 MHz

Press 1 → 0 → 2 → 5 → 0

Example 2: AM 1,350 kHz

Press 1 → 3 → 5 → 0

If you have tuned in an AM station, adjust the direction of the AM loop antenna for optimum reception.

If you cannot tune in a station and the entered numbers flash

Make sure you have entered the right frequency. If not, repeat steps 2 and 3. If the entered numbers still flash, the frequency is not used in your area.

Storing FM stations automatically

— AUTOBETICAL

This function lets you store up to 30 FM and FM RDS stations in alphabetical order without redundancy. Additionally, it only stores the stations with the clearest signals.

If you want to store FM or AM stations one by one, see “Presetting radio stations”.

Use the buttons on the receiver for the operation.

1 Press I/⏻ to turn off the receiver.

2 Hold down INPUT SELECTOR and press I/⏻ to turn the receiver back on.

“AUTO-BETICAL SELECT” appears in the display and the receiver scans and stores all the FM and FM RDS stations in the broadcast area.

For RDS stations, the tuner first checks for stations broadcasting the same program, then stores only the one with the clearest signal. The selected RDS stations are sorted alphabetically by their Program Service name, then assigned a 2-character preset code. For more details on RDS, see page 20.

Regular FM stations are assigned 2-character preset codes and stored after the RDS station.

When done, “FINISH” appears in the display momentarily and the receiver returns to the normal operation.

Notes

- Do not press any button on the receiver or supplied remote during autobetrical operation, except I/⏻.
- If you move to another area, repeat this procedure to store stations in your new area.
- For details on tuning the stored stations, see “Tuning to preset stations”.
- If you move the antenna after storing stations with this procedure, the stored settings may no longer be valid. If this happens, repeat this procedure to store the stations again.

Presetting radio stations

You can preset up to 30 FM or AM stations. Then you can easily tune in the stations you often listen to.

Presetting radio stations

1 Press TUNER repeatedly to select the FM or AM band.

The last received station is tuned in.

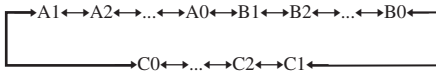
2 Tune in the station that you want to preset using Automatic Tuning (page 17) or Direct Tuning (page 18).

3 Press MEMORY.

“MEMORY” appears in the display for a few seconds. Do steps 4 to 5 before the display goes out.

4 Press PRESET/CH/D.SKIP + or PRESET/CH/D.SKIP – repeatedly to select a preset station number.

Each time you press the button, you can select the preset station number as follows:



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

Tips

- You can also use PRESET TUNING + or PRESET TUNING – on the receiver.
- You can also press SHIFT repeatedly to select a memory page (A, B or C) and then press the numeric buttons to select a preset number.

5 Press MEMORY again.

The station is stored to the selected preset number.

If “MEMORY” goes out before you press MEMORY, start again from step 3.

6 Repeat steps 2 to 5 to preset another station.

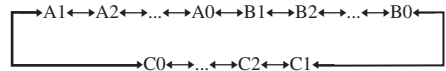
Tuning to preset stations

1 Press TUNER repeatedly to select the FM or AM band.

The last received station is tuned in.

2 Press PRESET/CH/D.SKIP + or PRESET/CH/D.SKIP – repeatedly to select the preset station you want.

Each time you press the button, you can select the preset station as follows:



Using the receiver

1 Press INPUT SELECTOR repeatedly to select FM or AM.

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

To select the preset station directly

Press the numeric buttons.

The preset station of the selected number in the current memory page is tuned in. Press SHIFT repeatedly on the remote to change the memory page.

Using the Radio Data System (RDS)

This receiver also allows you to use RDS (Radio Data System), which enables radio stations to send additional information along with the regular program signal. You can also display RDS information.

Notes

- RDS is operable only for FM stations.
- Not all FM stations provide RDS service, nor do they provide the same types of services. If you are not familiar with the RDS services in your area, check with your local radio stations for details.

Receiving RDS broadcasts

Simply select a station on the FM band using Automatic tuning (page 17), Direct tuning (page 18), or preset tuning (page 19).

When you tune in a station that provides RDS services, the RDS indicator lights up and the program service name appears in the display.

Note

RDS may not work properly if the station you tuned to is not transmitting the RDS signal properly or if the signal strength is weak.

Displaying RDS information

While receiving an RDS station, press DISPLAY repeatedly.

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

Program Service name → Frequency → Program Type indication^{a)} → Radio Text indication^{b)} → Current Time indication (in 24-hour system) → Sound field currently applied → Volume level

^{a)} Type of program being broadcast (see page 20).

^{b)} Text messages sent by the RDS station.

Notes

- If there is an emergency announcement by government authorities, “ALARM” flashes in the display.
- When the message consists of 9 characters or more, the message scrolls across the display.
- If a station does not provide a particular RDS service, “NO XXXX” (such as “NO TEXT”) appears in the display.

Description of program types

Program type indication	Description
NEWS	News programs
AFFAIRS	Topical programs that expand on current news
INFO	Programs offering information on a wide spectrum of subjects, including consumer affairs and medical advice
SPORT	Sports programs
EDUCATE	Educational programs, such as “how-to” and advice programs
DRAMA	Radio plays and serials
CULTURE	Programs about national or regional culture, such as language and social concerns
SCIENCE	Programs about the natural sciences and technology
VARIED	Other types of programs such as celebrity interviews, panel games, and comedy
POP M	Popular music programs
ROCK M	Rock music programs
EASY M	Easy Listening
LIGHT M	Instrumental, vocal, and choral music
CLASSICS	Performances of major orchestras, chamber music, opera, etc.
OTHER M	Music that does not fit into any categories above, such as Rhythm & Blues and Reggae
WEATHER	Weather information
FINANCE	Stock market reports and trading, etc.
CHILDREN	Programs for children
SOCIAL	Programs about people and the things that affect them
RELIGION	Programs of religious content

Program type indication	Description
PHONE IN	Programs where members of the public express their views by phone or in a public forum
TRAVEL	Programs about travel. Not for announcements that are located by TP/TA
LEISURE	Programs on recreational activities such as gardening, fishing, cooking, etc.
JAZZ	Jazz programs
COUNTRY	Country music programs
NATION M	Programs featuring the popular music of the country or region
OLDIES	Programs featuring oldies music
FOLK M	Folk music programs
DOCUMENT	Investigative features
NONE	Any programs not defined above

About the indications in the display



- 1 **DIGITAL:** Lights up when the receiver is decoding signals recorded in the Dolby Digital format.
- 2 **DTS:** Lights up when DTS signals are input.
- 3 **SW:** Lights up when the audio signal is output from the SUB WOOFER jack.
- 4 **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.
- 5 **ST MEMORY:** Lights up when the receiver is in the ST (Stereo Test) or MEMORY mode.
- 6 **COAX:** Lights up when the source signal is a digital signal being input through the COAX terminal.
- 7 **D.RANGE:** Lights up when dynamic range compression is activated (page 26).
- 8 **OPT:** Lights up when the source signal is a digital signal being input through the OPT terminal.
- 9 **LFE:** Lights up when the disc being played back contains the LFE (Low Frequency Effect) channel and the LFE channel signal is actually being reproduced.
- 10 **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 the Pro Logic II Movie/Music decoder is activated.

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

Sound Field: A.F.D. AUTO



- 5 **Tuner indicators:** Lights up when using the receiver to tune in radio stations, etc. See pages 17–21 for tuner operations.
- 6 **D.RANGE:** Lights up when dynamic range compression is activated (page 26).
- 7 **COAX:** Lights up when the source signal is a digital signal being input through the COAX terminal.

Note

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

Enjoying Surround Sound

Using only the front speakers and sub woofer

— 2CH STEREO

In this mode, the receiver outputs the sound from the front left/right speakers and sub woofer only.

When multi channel surround formats are input, the signals are downmixed to 2 channel with bass frequencies being output from the sub woofer.

When standard 2 channel stereo sources are input, the receiver's bass redirection circuitry will be activated. The front channel bass frequencies will be output from the sub woofer.

Press SOUND FIELD + or SOUND FIELD – repeatedly to select “2CH ST.”.

The receiver switches to the 2CH STEREO mode.

Enjoying higher fidelity sound

Decoding the input audio signal automatically (AUTO FORMAT DIRECT)

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

Press A.F.D.

“A.F.D. AUTO” appears in the display.

The receiver automatically detects the type of audio signal being input and performs the proper decoding if necessary.

Enjoying stereo sound in multi channel (2 channel decoding mode)

This mode lets you specify the type of decoding for 2 channel audio sources. This receiver can reproduce 2 channel sound in 5 channels through Dolby Pro Logic II or 4 channels through Dolby Pro Logic.

Press \square PL/PLII repeatedly to select the 2 channel decoding mode.

The selected type of decoding appears in the display.

■ DOLBY PL (PRO LOGIC)

Performs Dolby Pro Logic decoding. The source recorded in 2 channel is decoded into 4.1 channels.

■ PLII MOV (PRO LOGIC II MOVIE)

Performs Dolby Pro Logic II Movie mode decoding. This setting is ideal for movies encoded in Dolby Surround. In addition, this mode can reproduce sound in 5.1 channel when watching videos of overdubbed or old movies.

■ PLII MUS (PRO LOGIC II MUSIC)

Performs Dolby Pro Logic II Music mode decoding. This setting is ideal for normal stereo sources such as CDs.

Tip

You can also use \square PLII on the receiver to select “DOLBY PL”, “PLII MOV” or “PLII MUS”.

Note

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

Selecting a sound field

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.

Selecting a sound field for movies

Press SOUND FIELD + or SOUND FIELD – repeatedly to select the sound field you want.

The selected sound field appears in the display.

Sound field	Display
CINEMA STUDIO EX A DCS	C.ST.EX A
CINEMA STUDIO EX B DCS	C.ST.EX B
CINEMA STUDIO EX C DCS	C.ST.EX C

About DCS (Digital Cinema Sound)

Sound fields with **DCS** marks use DCS technology.

DCS is the concept name of the surround technology for home theater developed by Sony. DCS uses the DSP (Digital Signal Processor) technology to reproduce the sound characteristics of an actual cinema cutting studio in Hollywood.

When played at home, DCS will create a powerful theater effect that mimics the artistic combination of sound and action as envisioned by the movie director.

■ C.ST.EX A (CINEMA STUDIO EX A) **DCS**

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 movies.

■ C.ST.EX B (CINEMA STUDIO EX B) **DCS**

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 films where orchestra music is featured in the soundtrack.

About CINEMA STUDIO EX modes

CINEMA STUDIO EX modes are suitable for watching motion picture DVDs (etc.), with multi channel surround effects. You can reproduce the sound characteristics of Sony Pictures Entertainment's dubbing studio in your home.

The CINEMA STUDIO EX modes consist of the following three elements.

- **Virtual Multi Dimension**
Creates 5 sets of virtual speakers from a single pair of actual surround speakers.
- **Screen Depth Matching**
Creates the sensation that the sound is coming from inside the screen like in theaters.
- **Cinema Studio Reverberation**
Reproduces the type of reverberation found in theaters.

The CINEMA STUDIO EX modes integrate these three 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 a sound field for music

Press **SOUND FIELD +** or **SOUND FIELD –** repeatedly to select the sound field you want.

The selected sound field appears in the display.

Sound field	Display
HALL	HALL
JAZZ CLUB	JAZZ
LIVE CONCERT	CONCERT
GAME	GAME

■ HALL

Reproduces the acoustics of a classical concert hall.

■ JAZZ (JAZZ CLUB)

Reproduces the acoustics of a jazz club.

■ CONCERT (LIVE CONCERT)

Reproduces the acoustics of a 300-seat live house.




■ GAME

Obtains maximum audio impact from video game software.

To turn off the surround effect

Press **SOUND FIELD +** or **SOUND FIELD –** repeatedly to select "2CH ST." or press **A.F.D.** to select "A.F.D. AUTO".

Tips

- The receiver lets you apply the last selected sound field to an input whenever it is selected (Sound Field Link). For example, if you select HALL for the DVD input, then change to a different input and then return to DVD, HALL will automatically 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

Note

Sound fields do not function for the signals with a sampling frequency of more than 48 kHz.

Customizing sound fields

By adjusting the LEVEL menu, you can customize the sound fields to suit your particular listening situation.

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 menu

You can adjust the balance and level of each speaker. These settings are applied to all sound fields except for the effect level parameter. The effect level parameter settings are stored individually for each sound field.

- 1 Start playing a source encoded with multi channel surround effects (DVD, etc.).**
- 2 Press MAIN MENU repeatedly to select “<LEVEL>”.**
- 3 Press \uparrow or \downarrow repeatedly to select the parameter you want to adjust.**
For details, see “LEVEL menu parameters” below.
- 4 While monitoring the sound, press \leftarrow or \rightarrow repeatedly to select the setting you want.**
The setting is entered automatically.
- 5 Repeat steps 3 and 4 to adjust the other parameters.**

LEVEL menu parameters

The initial setting is underlined>.

■ **BAL. L/R XX** (Front speaker balance)

Initial setting: BALANCE (0)

Lets you adjust the balance between front left and right speakers. You can adjust in the range of BAL. L (+1 to +8), BALANCE (0), BAL. R (+1 to +8) in 17 steps.

■ **CTR XXX dB** (Center speaker level)

■ **SUR.L. XXX dB** (Surround speaker (left) level)

■ **SUR.R. XXX dB** (Surround speaker (right) level)

■ **S.W. XXX dB** (Sub woofer level)

Initial setting: 0 dB

You can adjust from -10 dB to +10 dB in 1 dB steps.

■ **COMP. XXX** (Dynamic range compressor)

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.

- **OFF**
The dynamic range is not compressed.
- **STD**
The dynamic range is compressed as intended by the recording engineer.
- **MAX**
The dynamic range is compressed dramatically.

Tip

Dynamic range compressor lets you compress the dynamic range of the soundtrack based on the dynamic range information included in the Dolby Digital signal. We recommend using the “MAX” setting. This greatly compresses the dynamic range and lets you view movies late at night at low volumes. Unlike analog limiters, the levels are predetermined and provide a very natural compression.

Note

Dynamic range compression is possible with Dolby Digital sources only.

■ **EFCT. XXX (Effect level)**

Initial setting: STD

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

Resetting sound fields to the initial settings

Use the buttons on the receiver for the operation.

- 1** Press I/⏻ to turn off the power.
- 2** While holding down SOUND FIELD, press I/⏻.
“SF. CLR.” appears in the display and all sound fields are reset to the initial setting.

Adjusting the tone

You can adjust the tonal quality (bass, treble level) of the front speaker using the TONE menu.

- 1** Start playing a source encoded with multi channel surround effects (DVD, etc.).
- 2** Press MAIN MENU repeatedly to select “<TONE>”.
- 3** Press ↑ or ↓ repeatedly to select the parameter you want to adjust.
For details, see “TONE menu parameters” below.
- 4** While monitoring the sound, press ← or → repeatedly to select the setting you want.
The setting is entered automatically.
- 5** Repeat steps 3 and 4 to adjust the other items.

Notes

- You cannot adjust the tone when the receiver is decoding signals with a sampling frequency of more than 48 kHz.
- You also cannot adjust the tone when you select a sound field for movies and music (page 24, 25).

TONE menu parameters

■ BASS XX dB
(Front speaker bass level)

■ TREB. XX dB
(Front speaker treble level)

Initial setting: 0 dB

You can adjust from -6 dB to +6 dB in 1 dB steps.

Advanced settings

Using the SET UP menu to adjust the receiver

You can adjust various receiver settings using the SET UP menu.

- 1 Press MAIN MENU repeatedly to select “<SET UP>”.**
- 2 Press \uparrow or \downarrow repeatedly to select the parameter you want to adjust.**
For details, see “SET UP menu parameters” below.
- 3 Press \leftarrow or \rightarrow repeatedly to select the setting you want.**
The setting is entered automatically.
- 4 Repeat steps 2 and 3 to adjust the other items.**

SET UP menu parameters

The initial setting is underlined.

■ DVD-XXXX (Audio input mode for DVD input)

Lets you select the audio input mode for DVD input.

- AUTO
Gives priority to digital signals when there are both digital and analog connections. If there are no digital signals, analog is selected.
- OPT
Specifies the digital audio signals input to the DIGITAL DVD OPT IN jack.
- COAX
Specifies the digital audio signals input to the DIGITAL DVD COAX IN jack.
- ANLG
Specifies the analog audio signals input to the DVD AUDIO IN (L/R) jacks.

■ TV-XXXX (Audio input mode for TV/SAT input)

Lets you select the audio input mode for TV/SAT input.

- AUTO
Gives priority to digital signals when there are both digital and analog connections. If there are no digital signals, analog is selected.
- OPT
Specifies the digital audio signals input to the DIGITAL TV/SAT OPT IN jack.
- ANLG
Specifies the the analog audio signals input to the TV/SAT AUDIO IN (L/R) jacks.

■ DUAL XXX (Digital broadcast language selection)

Lets you select the language you want to listen to during digital broadcast. This feature only functions for Dolby Digital sources.

- M/S (Main/Sub)
Sound of the main language will be output through the front left speaker and sound of the sub language will be output through the front right speaker simultaneously.
- M (Main)
Sound of the main language will be output.
- S (Sub)
Sound of the sub language will be output.
- M+S (Main + Sub)
Mixed sound of both the main and sub languages will be output.

■ DEC. XXXX (Digital audio input decoding priority)

Lets you specify the input mode for the digital signal input to the DIGITAL IN jacks.

The initial setting is “DEC. AUTO” for TV/SAT and “DEC. PCM” for DVD.

- AUTO
Automatically switches the input mode between DTS, Dolby Digital, or PCM.
- PCM
PCM signals are given priority (to prevent the interruption when playback starts). Even when other signals are input, the sound is output. However, this receiver cannot decode DTS-CD when set to “DEC. PCM”.

Note

When set to “DEC. AUTO” and the sound from the digital audio jacks (for CD, etc.) is interrupted when playback starts, set to “DEC. PCM”.

Using the Sleep Timer

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

- 1 Press ALT to light up the button.**
- 2 Press SLEEP while the power is on.**

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

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

The display dims after you have specified the time.

Tip


To check the remaining time before the receiver turns off, press ALT to light up the button (page 30), then press SLEEP. The remaining time appears in the display. If you press SLEEP again, the sleep timer will be canceled.

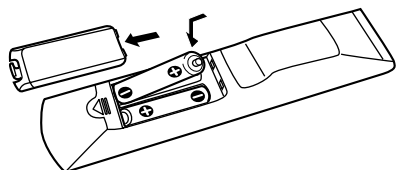
Operations Using the Remote RM-U700

You can use the remote RM-U700 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.



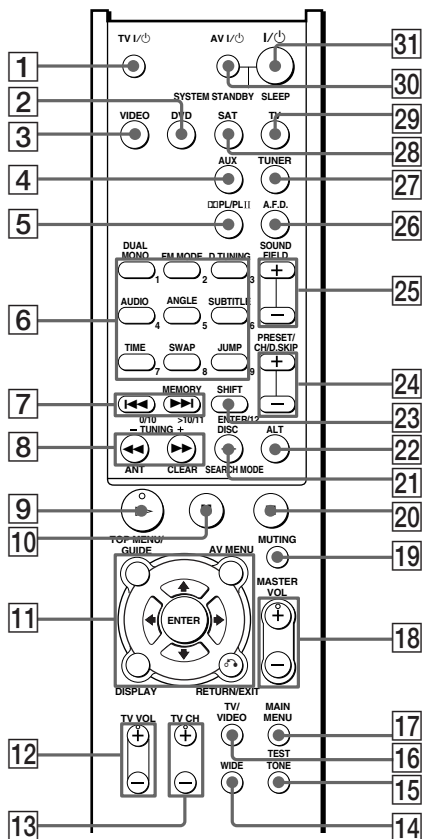
Tip

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
A.F.D. 26	Receiver	Selects A.F.D. AUTO.
ALT 22	Remote	When ALT button lights up, it changes the remote key function to activate those buttons with orange printing.







Remote Button	Operations	Function
ANGLE [6]	DVD player	Selects viewing angle or changes the angles.
ANT [8]	VCR	Selects output signal from the antenna terminal: TV signal or VCR program.
AUDIO [6]	TV/VCR/ DVD player	Changes the sound to Multiplex or Bilingual or Multi Channel TV Sound.
AUX [4]	Receiver	To listen to an audio equipment.
AV MENU [11]	VCR/ satellite tuner/ DVD player	Displays menu.
AV I/⏻ [30]	TV/VCR/ CD player/ DVD player	Turns the audio and video components on or off.
CLEAR [8]	DVD player	Press if you make a mistake when you press the numeric button or press to return to continuous play etc.
DISC [21]	CD player	Selects a disc directly (multi-disc changer only).
DISPLAY [11]	TV/VCR/ DVD player	Selects information displayed on the TV screen.
D.TUNING [6]	Receiver	Enters direct tuning mode.
DUAL MONO [6]	Receiver	Selects the language you want during digital broadcast.
DVD [2]	Receiver	To watch DVD.

Remote Button	Operations	Function
ENTER [11]	Receiver/ VCR/ satellite tuner/ DVD player	Enters the selection.
ENTER/12 [23]	TV/VCR/ satellite tuner	Enters the selection.
FM MODE [6]	Receiver	Selects FM monaural or stereo reception.
JUMP [6]	TV	Toggles between the previous and the current channels.
MAIN MENU [17]	Receiver	Selects the menu of the receiver.
MASTER VOL +/- [18]	Receiver	Adjusts the master volume of the receiver.
MEMORY [7]	Receiver	Stores the radio stations.
MUTING [19]	Receiver	Mutes the sound from the receiver.
PRESET/	Receiver	Selects preset stations.
CH/D.SKIP +/- [24]	TV/VCR/ satellite tuner CD player/ DVD player	Selects preset channel. Skips discs (multi-disc changer only).
RETURN/ EXIT/⏻ [11]	DVD player Satellite tuner	Returns to the previous menu or exits the menu. Exits the menu.
SAT [28]	Receiver	To watch satellite tuner.
SEARCH MODE [21]	DVD player	Selects searching mode. Press to select the unit for search (track, index, etc.)

Remote Button	Operations	Function
SHIFT 23	Receiver	Selects a memory page for presetting radio stations or tuning to preset stations.
SLEEP 31	Receiver	Activates the sleep function and the duration which the receiver turns off automatically.
SOUND FIELD +/- 25	Receiver	Selects sound fields.
SUBTITLE 6	DVD player	Changes the subtitles.
SWAP* 6	TV	Swaps the small and large picture.
SYSTEM STANDBY (Press AV I/⏻ 30 and I/⏻ 31 at the same time)	Receiver/ TV/VCR/ satellite tuner/ CD player/ DVD player	Turns off the receiver and other Sony audio/video components.
TEST TONE 15	Receiver	Outputs test tone.
TIME 6	CD player/ DVD player	Shows the time or displays the playing time of disc, etc.
TOP MENU/ GUIDE 11	DVD player Satellite tuner	Displays DVD title. Displays guide menu.
TUNER 27	Receiver	To listen to radio programs.
TUNING -/+ 8	Receiver	Scans radio stations.
TV 29	Receiver	To watch TV programs.
TV CH +/- 13	TV	Selects preset TV channels.

* Only for Sony TVs with the picture-in-picture function.

Remote Button	Operations	Function
TV/VIDEO 16	TV	Selects input signal: TV input or video input.
TV VOL +/- 12	TV	Adjusts the volume of the TV.
TV I/⏻ 1	TV	Turns the TV on or off.
VIDEO 3	Receiver	To watch VCR.
WIDE 14	TV	Selects the wide picture mode.
1-9 6 and 0/10 7	Receiver	Use with SHIFT to preset radio station or tuning to preset stations and with D.TUNING for direct tuning.
	CD player	Selects track numbers. 0/10 selects track 10.
	TV/VCR/ satellite tuner	Selects channel numbers.
>10/11 7	CD player	Selects track numbers over 10.
-/- 21	TV	Selects the channel entry mode, either one or two digit.
I/⏻ 31	Receiver	Turns the receiver on or off.
□□PL/PLII 5	Receiver	Selects DOLBY PL, PLII MOV or PLII MUS.
⬆/⬇ 11	Receiver	Selects a menu item.
⬅/➡ 11	Receiver	Adjusts or changes the setting.
⬆/⬇/⬅/➡ 11	VCR/ satellite tuner/ DVD player	Selects a menu item. Press to enter the selection.

Remote Button	Operations	Function
 7	VCR/ CD player/ DVD player	Skips tracks.
 8	CD player/ DVD player	Searches tracks in the forward or backward direction.
	VCR	Fastforwards or rewinds.
 9	VCR/ CD player/ DVD player	Starts playback.
 10	VCR/ CD player/ DVD player	Pauses playback or record. (Also starts recording with components in recording standby.)
 20	VCR/ CD player/ DVD player	Stops playback.

Notes

- The AUX button on the remote is not available for receiver operation.
- When you press the input buttons (VIDEO, 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.
- To activate the buttons with orange printing, press ALT first before pressing the buttons.
- Some functions explained in this section may not work depending on the model.
- 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 button

If the factory settings of the input buttons do not match your system components, you can change them. For example, if you have a CD player and you do not have a DVD player, you can assign the DVD button to your CD player.

- 1 Hold down the input button whose input you want to change (for example, DVD).**
- 2 Press the corresponding button of the component you want to assign to the input button (for example, 1 – CD player).**

The following buttons are assigned to select the input:

To operate	Press
CD player	1
VCR (command mode VTR 2*)	2
VCR (command mode VTR 3*)	3
DVD player	4
TV	5
DSS (Digital Satellite Receiver)	6
Tuner (this receiver)	7
DCS (Digital CS Tuner)	8
BSD (Digital BS Tuner)	9
Tuner (Component tuner)	0/10

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

Now you can use the DVD button to control the CD player.

To reset a button to its factory setting

Repeat the above procedure.

To reset all the input buttons to their factory setting

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

Additional Information

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 receiver, 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 receiver 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 receiver heats up during operation, this is not a malfunction. If you continuously use this receiver 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 receiver or speakers 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.

If you encounter color irregularity on a nearby TV screen

The speakers and the sub woofer are magnetically shielded to allow it to be installed near a TV set. However, color irregularities may still be observed on certain types of TV sets.

If color irregularity is observed...

Turn off the TV set once, then turn it on again after 15 to 30 minutes.

If color irregularity is observed again...

Place the speaker further away from the TV set.

If howling occurs

Reposition the speakers or turn down the volume on 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.

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 you have selected the correct component on the receiver.
- Check that MASTER VOLUME on the receiver is not set at “VOL MIN”.
- Press MUTING to cancel the muting function.

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.

- 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.

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 speakers.

- Make sure the sound field function is on (press SOUND FIELD + or SOUND FIELD -).
- Select a CINEMA STUDIO EX mode (page 24).
- Adjust the speaker level (page 16).

There is no sound from the sub woofer.

- Check that the sub woofer is connected correctly and securely.

The surround effect cannot be obtained.

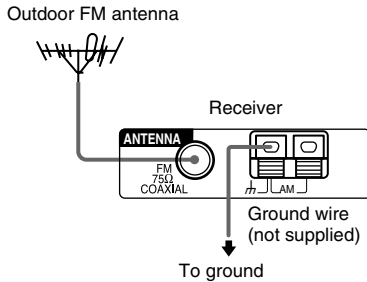
- Make sure the sound field function is on (press SOUND FIELD + or SOUND FIELD -).
- Sound fields do not function for the signals with a sampling frequency of more than 48 kHz.

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.

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 19).

RDS does not work.

- Make sure that you are tuned to an FM RDS station.
- Select a stronger FM station.

The RDS information that you want does not appear.



- Contact the radio station and find out whether they actually provide the service in question. If so, the service may be temporarily out of order.

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

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

Remote control

The remote does not function.

- The AUX button on the remote is not available for receiver operation.
 - Point the remote at the remote sensor  on the receiver.
 - Remove any obstacles in the path between the remote and the receiver.
 - Replace all the batteries in the remote with new ones, if they are weak.
 - Make sure you select the correct input on the remote.
 - To activate the buttons with orange printing, press ALT first before pressing the buttons.
 - Before you use the  button for receiver operation, press MAIN MENU. To operate other components, press TOP MENU/GUIDE or AV MENU after pressing the function button.
-

Error message

If there is a malfunction, the display shows a message.

PROTECT

Irregular current is output from the speakers. The receiver will automatically turn off after a few seconds. Check the speaker connection and turn on the power again. If this problem persists, consult your nearest Sony dealer.

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

Clearing the receiver's memory may remedy the problem (page 13). 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 persist

Consult your nearest Sony dealer.

Reference sections for clearing the receiver's memory

To clear	See
All memorized settings	page 13
Customized sound fields	page 27

Specifications

Amplifier section

Power Output

(6 ohms 1 kHz, THD 0.7%)¹⁾

FRONT²⁾: 40 W/ch

CENTER²⁾: 40 W

SURR²⁾: 40 W/ch

(6 ohms 1 kHz, THD 10%)¹⁾

FRONT²⁾: 60 W/ch

CENTER²⁾: 60 W

SURR²⁾: 60 W/ch

1) Measured under 230 V AC, 50 Hz

2) Depending on the sound field settings and the source, there may be no sound output.

Inputs (Analog)

TV/SAT, DVD, VIDEO	Sensitivity: 500 mV Impedance: 50 kilohms
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Inputs (Digital)

DVD (Coaxial)	Sensitivity: – Impedance: 75 ohms
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DVD, TV/SAT (Optical)	Sensitivity: – Impedance: –
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Outputs (Analog)

SUB WOOFER	Voltage: 2 V Impedance: 1 kilohms
------------	--------------------------------------

Reproduction frequency range:
28 – 20,000 Hz

Tone

Gain levels	±6 dB, 1 dB step
-------------	------------------

FM tuner section

Tuning range	87.5 - 108.0 MHz
Antenna	FM wire antenna
Antenna terminals	75 ohms, unbalanced
Intermediate Frequency	10.7 MHz

AM tuner section

Tuning range	
With 9-kHz tuning scale:	531 - 1,602 kHz
Antenna	Loop antenna
Intermediate Frequency	450 kHz

Video section

Inputs/Outputs

Video: 1 V_{p-p}, 75 ohms

General

Power requirements 230 V AC, 50/60 Hz

Power consumption 170 W

Power consumption (during standby mode)
0.3 W

Dimensions (w/h/d) (Approx.)

430 × 352 × 64 mm
including projecting parts
and controls

Mass (Approx.) 5.5 kg

Speaker section

Front speakers

• HTP-2000 (SS-SLP701)

• HTP-1200 (SS-MSP501)

Center speaker (SS-CNP501)

Surround speakers (SS-MSP501)

Speaker system Full range, magnetically shielded

Speaker units

SS-SLP701 40 × 70 mm cone type

SS-MSP501/SS-CNP501 55 × 110 mm cone type

Enclosure type Bass reflex

Rated Impedance 6 ohms

Dimension (w/h/d) (Approx.)

SS-SLP701 246 × 1053 × 246 mm

SS-CNP501 280 × 82 × 106 mm

SS-MSP501 76 × 162 × 106 mm

Mass (Approx.)

SS-SLP701 4.0 kg

SS-MSP501 0.8 kg

SS-CNP501 1.0 kg

Sub woofer (SA-WMSP501)

Speaker system Active subwoofer, magnetically shielded

Speaker unit 200 mm cone type

Enclosure type Acoustically loaded bass reflex

RMS output 120 W (6 ohms, 100 Hz, 10% THD)

Frequency range: 30 Hz – 200 Hz

Input LINE IN (input pin jacks)

Power requirements 230 V AC, 50/60 Hz

Power consumption 95 W

Dimensions (w/h/d) (Approx.)

270 × 325 × 398 mm
including front panel

Mass (Approx.) 9 kg

Supplied accessories

FM wire antenna (1)

AM loop antenna (1)

Speaker connecting cord (5)

Monaural connecting cord (1)

Coaxial digital cord (1)

Foot pads (speakers)

- HTP-2000 (12)

- HTP-1200 (20)

Foot pads (subwoofer) (4)

Remote commander (1)

R6 (size-AA) batteries (2)

Speakers

- Front speakers (2)

- Center speaker (1)

- Surround speakers (2)

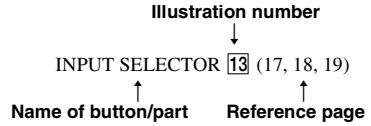
- Sub woofer (1)

Design and specifications are subject to change without notice.

List of button locations and reference pages

How to use pages 39

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



Main unit

ALPHABETICAL ORDER

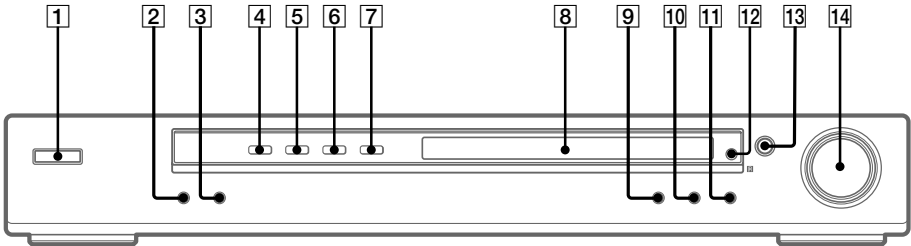
Display **8** (20)
 DVD (indicator) **5** (17)
 INPUT SELECTOR **13** (17, 18, 19)
 IR (receptor) **12** (30, 36)
 MASTER VOLUME **14** (16, 17, 35)

MUTING **11** (17, 35)
 PRESET TUNING + **3** (19)
 PRESET TUNING - **2** (19)
 SOUND FIELD **10** (27)
 TUNER (indicator) **7** (17)
 TV/SAT (indicator) **6** (17)
 VIDEO (indicator) **4** (17)

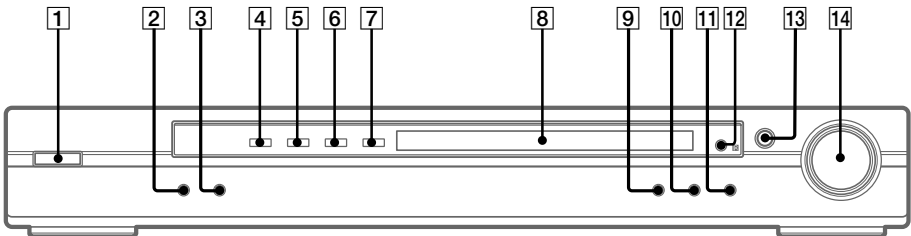
NUMBERS AND SYMBOLS

I/⏻ (power) **1** (13, 16, 18)
 □ PLII **9** (24)

HTP-2000



HTP-1200



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