2-592-136-12(1)

SONY

Home Theatre System

Operating Instructions

HT-SF800M HT-SS600

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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.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as

household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

About This Manual

- The instructions in this manual are for model HT-SF800M and HT-SS600. Check your receiver's model number by looking at the lower right corner of the front panel. In this manual, the model of area code CEL 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 31–34.

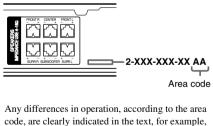
The HT-SF800M consists of:

Receiver	STR-KS600PM
Speaker system	
 Front speakers 	SS-MSP800
 Center speaker 	SS-CNP800
 Surround speakers 	SS-MSP800B
– Subwoofer	SS-WMSP600
The HT-SS600 consists o	of:

Receiver	STR-KS600P
Speaker system	
- Front speaker (left)	SS-MSP600L
- Front speaker (right)	SS-MSP600R
 Center speaker 	SS-CNP600
- Surround speaker (left)	SS-MSP600SL
 Surround speaker (right) 	SS-MSP600SR
– Subwoofer	SS-WMSP600

About area codes

The area code of the receiver you purchased is shown on the lower portion of the rear panel (see the illustration below).



"Models of area code AA only".

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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Getting Started

1: Check how to hookup your components

Steps 1a through 1b beginning on page 7 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 10).

Connectable components

Component to be connected	Page	
DVD player		
With digital audio output ^{a)}	7	
Satellite tuner		
With digital audio output ^{a)}	7	
With analog audio output only ^{b)}	7,9	
Super Audio CD/CD player		
With digital audio output ^{a)}	8	
With analog audio output only ^{b)}	9	
VCR	9	

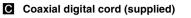
^{a)} Model with a DIGITAL OPTICAL OUTPUT or DIGITAL COAXIAL OUTPUT jack, etc.

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 (\mathbf{A} to \mathbf{C}) (not supplied unless indicated).

A Audio cord White (L) Red (R) B Optical digital cord



Orange

Notes

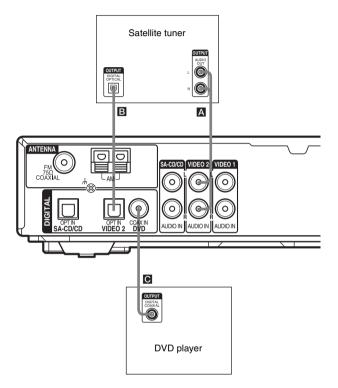
- Turn off the power to all components before making any connections.
- Be sure to make connections firmly to avoid hum and noise.
- When connecting an audio cord, be sure to match the color-coded pins to the appropriate jacks on the components: white (left, audio) to white; and red (right, audio) to 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

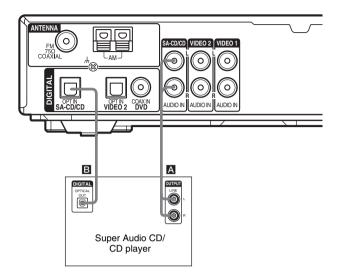
For details on the required cords $(\mathbf{A} - \mathbf{C})$, see page 6.

Connect the audio jacks.



Hooking up a Super Audio CD/CD player

For details on the required cords $(\mathbf{A} - \mathbf{C})$, see page 6.



Tip

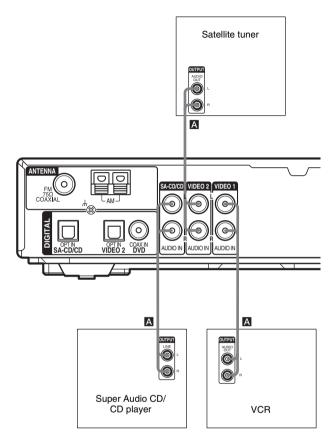
All the digital audio jacks are compatible with 32 kHz, 44.1 kHz, 48 kHz and 96 kHz sampling frequencies.

Note

The sound is not output when you play a Super Audio CD on the Super Audio CD player connected to the SA-CD/CD OPTICAL IN jack on this receiver. Connect to the analog input jacks (SA-CD/CD IN jacks). Refer to the operating instructions supplied with the Super Audio CD player.

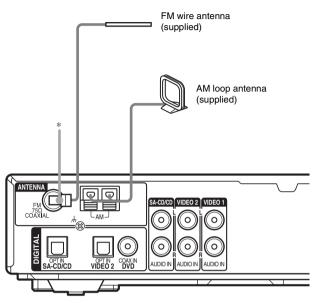
1b: Connecting components with only analog audio jacks

For details on the required cords $(\mathbf{A} - \mathbf{C})$, see page 6.



2: Connecting the antennas

Connect the supplied AM loop antenna and FM wire antenna.



* The shape of connector varies depending on the area code.

Notes

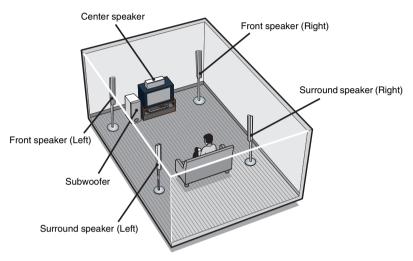
- To prevent noise pickup, keep the AM loop antenna away from the receiver and other components.
- Be sure to fully extend the FM wire antenna.
- After connecting the FM wire antenna, keep it as horizontal as possible.

3: Connecting speakers

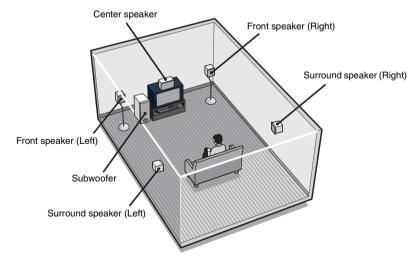
Connect your speakers to the receiver. This receiver allows you to use a 5.1 channel speaker system. To fully enjoy theater-like multi channel surround sound requires five speakers (two front speakers, a center speaker, and two surround speakers) and a subwoofer (5.1 channel).

Example of 5.1 channel speaker system configuration

HT-SF800M only



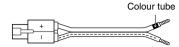
HT-SS600 only

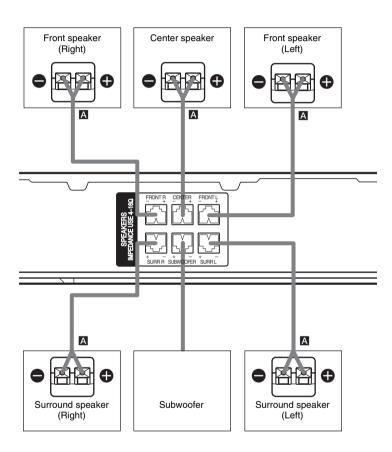


Required cords

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.





Note

(HT-SS600 only) Before you connect the speakers, attach the colour labels onto the speakers so that you can identify the speakers to be connected.

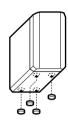
Tips

- Since the subwoofer does not emit highly directional signals, you can place it wherever you want.
- (Except for HT-SF800M) 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 HT-SF800M)

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



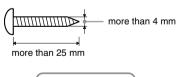
Note

Be sure to attach the supplied foot pads to the subwoofer as well.

Installing the speakers on the wall

You can install your front and surround speakers on the wall.

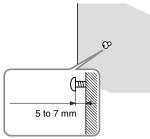
 Prepare screws (not supplied) that are suitable for the hole on the back of each speaker. See the illustrations below.





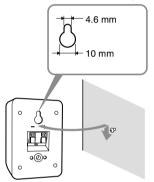
Hole on the back of the speaker

Fasten the screws to the wall. The screws should protrude 5 to 7 mm.



Hang the speakers on the screws.

Hole on the back of the speaker



Notes

3

- Use screws that are suitable for the wall material and strength. As a plaster board wall is especially fragile, attach the screws securely to a beam and fasten them to the wall. Install the speakers on a vertical and flat wall where reinforcement is applied.
- Contact a screw shop or installer regarding the wall material or screws to be used.
- Sony is not responsible for accident or damage caused by improper installation, insufficient wall strength or improper screw installation, natural calamity, etc.

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.

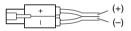


2 Pull the speaker cord from the connector.



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

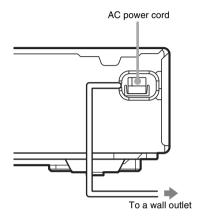
To avoid the speaker cord from coming off the speaker connector

- 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/\bigcirc to turn off the receiver.

2 Hold down I/\bigcirc 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/\bigcirc 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.

The setting is entered automatically.

5 Repeat steps 3 and 4 until you have set all of the items that follow.

Speaker setup parameters

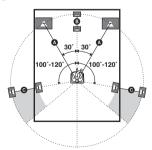
The initial setting is underlined.

■ 泣 遠 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 (O). 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).

■ 孏 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 ((()) to a distance 4.5 meters closer to your listening position (()).

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

Tip

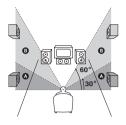
The receiver lets you to input the speaker position in terms of distance. However, it is not possible to set the center speaker further than the front speakers. Also, the center speaker cannot be set more than 1.5 meters closer than the front speakers.

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 1-2meters 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!

■ 藥 藥 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).



• <u>LOW</u>

Select if the height of your surround speakers corresponds to section \mathbf{A} .

• HIGH

Select if the height of your surround speakers corresponds to section **B**.

6: 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/\bigcirc 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) \rightarrow Center \rightarrow Front (right) \rightarrow Surround (right) \rightarrow Surround (left) \rightarrow Subwoofer

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 are shown in the display during adjustment.

4 Press TEST TONE again after adjustment.

The test tone turns off.

Amplifier Operation

Amplifier Operation

Selecting the component

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

To select the	Light up
VCR	VIDEO 1
Satellite tuner	VIDEO 2
DVD player	DVD
Super Audio CD or CD player	SA-CD/CD
Built-in tuner (FM/AM)	TUNER

2 Turn on the component and start playback.

Note

If you select any video components, 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 10).

Tip

The tuning scale differs depending on the area code as shown in the following table. For details on area codes, see page 3.

Area code	FM	AM	
CEL, CEK	50 kHz	9 kHz	
MX	50 kHz	10 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 $1 \Rightarrow 0 \Rightarrow 2 \Rightarrow 5 \Rightarrow 0$ Example 2: AM 1,350 kHz

Press $1 \Rightarrow 3 \Rightarrow 5 \Rightarrow 0$

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

(Models of area code CEL, CEK only)

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/\bigcirc to turn off the receiver.
- **2** Hold down INPUT SELECTOR and press I/\bigcirc 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 2character 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 autobetical operation, except I/U.
- 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.

Amplifier Operation

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

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

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

```
\rightarrow A1 \leftrightarrow A2 \leftrightarrow \dots \leftrightarrow A0 \leftrightarrow B1 \leftrightarrow B2 \leftrightarrow \dots \leftrightarrow B0 \leftarrow \\ \rightarrow C0 \leftrightarrow \dots \leftrightarrow C2 \leftrightarrow C1 \leftarrow \dots
```

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

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

\rightarrow A1 \leftrightarrow A2 \leftrightarrow ... \leftrightarrow A0 \leftrightarrow B1 \leftrightarrow B2 \leftrightarrow ... \leftrightarrow B0 \leftarrow

 $\rightarrow C0 \leftrightarrow ... \leftrightarrow C2 \leftrightarrow C1 \leftarrow$

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)

(Models of area code CEL, CEK only)

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 \rightarrow Frequency \rightarrow

Program Type indication^{a)} \rightarrow Radio Text indication^{b)} \rightarrow Current Time indication (in 24hour system) \rightarrow Sound field currently applied \rightarrow Volume level

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

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

Notes

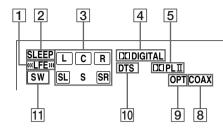
- If there is an emergency announcement by government authorities, "ALARM" flashes in the display.
- When the message consists of 9 characters or more, the message scrolls across the display.
- If a station does not provide a particular RDS service, "NO XXXX" (such as "NO TEXT") appears in the display.

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

Description
Programs where members of the public express their views by phone or in a public forum
Programs about travel. Not for announcements that are located by TP/TA
Programs on recreational activities such as gardening, fishing, cooking, etc.
Jazz programs
Country music programs
Programs featuring the popular music of the country or region
Programs featuring oldies music
Folk music programs
Investigative features
Any programs not defined above

About the indications in the display



- **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.
- **2 SLEEP:** Lights up when sleep timer is activated.
- 3 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.

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:

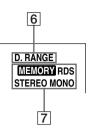
Recording format (Front /Surround): 3/2 Sound Field: A.F.D. AUTO



- 4 DD DIGITAL: Lights up when the receiver is decoding signals recorded in the Dolby Digital format.
- DD PLII: "DD PL" lights up when the receiver applies Pro Logic processing to 2 channel signals in order to output the center and surround channel signals. "DD PLII" lights up when the Pro Logic II Movie/Music decoder is activated.

Note

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



- **6 D.RANGE:** Lights up when dynamic range compression is activated (page 26).
- Tuner indicators: Lights up when using the receiver to tune in radio stations, etc. See pages 17–21 for tuner operations.

Note

"RDS" appears for models of area code CEL, CEK only.

- **B COAX:** Lights up when the source signal is a digital signal being input through the COAX terminal.
- OPT: Lights up when the source signal is a digital signal being input through the OPT terminal.
- **DTS:** Lights up when DTS signals are input.
- **SW:** Lights up when the audio signal is output from the SUBWOOFER jack.

Enjoying Surround Sound

Using only the front speakers and subwoofer

— 2CH STEREO

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

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

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 subwoofer.

Press 2CH 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 subwoofer.

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

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 A.F.D. 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.

■ MULTI ST. (MULTI STEREO)

Output the 2 channel left/right signals from all speakers.

Tip

You can also use DD 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 preprogrammed 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 MOVIE 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) DCS

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 MUSIC 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

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.

To turn off the surround effect

Press 2CH to select "2CH ST." or press A.F.D. repeatedly to select "A.F.D. AUTO".

Tips

- You can also use SOUND FIELD on the receiver to select the sound field you want.
- 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
 - DC[DOLBY SURROUND] : Dolby Surround encoded programs
 - dts : DTS Digital Surround encoded programs

Note

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

Advanced Adjustments and Settings 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 **↑** or **↓** repeatedly to select the parameter you want to adjust.

For details, see "LEVEL 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 parameters.

LEVEL menu parameters

The initial setting is underlined.

■ 泣 遠 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 (Subwoofer 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.

• <u>OFF</u>

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 in 3 levels – MIN (minimum effect), STD (standard effect) and MAX (maximum effect).

Note

This parameter is valid only when you use a sound field selected with the MOVIE or MUSIC buttons.

Resetting sound fields to the initial settings

Use the buttons on the receiver for the operation.

- **1** Press I/\bigcirc to turn off the power.

"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 speakers 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 ♠ or ♥ repeatedly to select the parameter you want to adjust.

For details, see "SET UP menu parameters" below.

3 Press ← or → 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.

■ VD2-XXXX (Audio input mode for VIDEO 2 input)

Lets you select the audio input mode for VIDEO 2 input.

• <u>AUTO</u>

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 VIDEO 2 OPT IN jack.

• ANLG

Specifies the analog audio signals input to the VIDEO 2 AUDIO IN (L/R) jacks.

CD-XXXX

(Audio input mode for SA-CD/CD input)

Lets you select the audio input mode for SA-CD/CD input.

• <u>AUTO</u>

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 SA-CD/CD OPT IN jack.

• ANLG

Specifies the the analog audio signals input to the SA-CD/CD AUDIO IN (L/R) jacks.

A.V.SYNC. X (Time alignment)

• Y (Yes) (Delay time: 68 ms)

The audio output is delayed so that the time gap between the audio output and visual display is minimized.

• <u>N (No)</u> (Delay time: 0 ms) The audio output is not delayed.

Notes

- This parameter is useful when you use a large LCD or plasma monitor or a projection TV.
- This parameter is valid when you use a sound field selected with the 2CH or A.F.D. button except when PCM 96 kHz signals are input.

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.

• <u>M (Main)</u>

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 VIDEO 2 and "DEC. PCM" for DVD and SA-CD/CD.

• 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".

Other Operations

Using the Sleep Timer

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

Press SLEEP while the power is on.

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

 $2\text{-}00\text{-}00 \longrightarrow 1\text{-}30\text{-}00 \longrightarrow 1\text{-}00\text{-}00 \longrightarrow 0\text{-}30\text{-}00 \longrightarrow 0\text{-}50\text{-}00$

The display dims after you have specified the time.

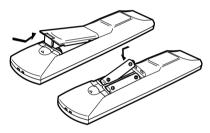
Tip

To check the remaining time before the receiver turns off, press SLEEP. The remaining time appears in the display. If you press SLEEP again, the sleep timer will be canceled. You can use the remote RM-AAU002 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 \square on the receiver.



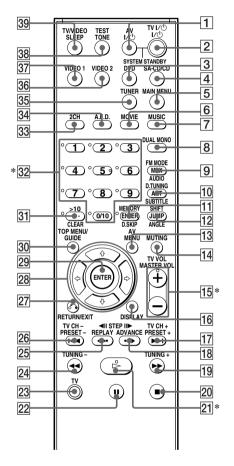
Tip

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 MASTER VOL +, numeric button 5 and buttons have a tactile dot. Use the tactile dot as a reference when operating the receiver and other audio/video components.

button.		
Remote Button	Operations	Function
A.F.D. 34	Receiver	Selects the decoding mode for audio sound.
ANGLE	DVD player	Selects viewing angle or changes the angles.
ANT 10	VCR/ Satellite tuner	Selects output signal from the antenna terminal: TV signal or VCR program.
AUDIO 9	DVD player/ Satellite tuner	Changes the sound to Multiplex or Bilingual or Multi channel TV sound.
AV MENU 13	VCR/ DVD player/ Satellite tuner	Displays menu.
AV I∕Ů 1	VCR/ CD player/ DVD player/ Satellite tuner/ MD deck	Turns the audio and video components on or off.
CLEAR 31	DVD player/ Satellite tuner	Clears a mistake when you press the incorrect numeric buttons or returns to continuous playback etc.
DISPLAY 16	Receiver/ CD player/ VCR/ DVD player/ Satellite tuner/ MD deck	Selects information displayed on the TV screen.
D.SKIP 11	CD player/ DVD player	Skips discs (multi-disc changer only).
D.TUNING	Receiver	Enters direct tuning mode.
DUAL MONO 8	Receiver	Selects the language you want during digital broadcast.
DVD 3	Receiver	To watch DVD.
ENTER 11	TV/VCR/ Satellite tuner	After selecting a channel, disc or track using the numeric buttons, press to enter the value.

Remote Button	Operations	Function
ENTER 29	Receiver/ VCR/ DVD player/ Satellite tuner/ CD player/ MD deck	Enters the selection.
FM MODE 9	Receiver	Selects FM monaural or stereo reception.
JUMP 12	Satellite tuner	Toggles between the previous and the current channels.
MAIN MENU 5	Receiver	Selects the menu of the receiver.
MASTER VOL +/- 15	Receiver/TV	Adjusts the master volume of the receiver.
MEMORY	Receiver	Stores the radio stations.
MOVIE 6	Receiver	Selects the pre- programmed sound fields for movie.
MPX 9	VCR	Select main or sub language.
MUSIC 7	Receiver	Selects the pre- programmed sound fields for music.
MUTING 14	Receiver	Mutes the sound from the receiver.
PRESET +/- 17 26	Receiver	Selects preset stations.
	TV/VCR/ Satellite tuner	Select preset channel.
RETURN/ EXIT 27	DVD player	Returns to the previous menu or exits the menu.
	Satellite tuner	Exits the menu.
SA-CD/CD	Receiver	To listen to Super Audio CD or compact disc.
SHIFT 12	Receiver	Selects a memory page for presetting radio stations or tuning to preset stations.

Remote	Operations	Function
Button	-	
SLEEP 39	Receiver	Activates the sleep function and the duration which the receiver turns off automatically.
SUBTITLE 10	DVD player	Changes the subtitles.
SYSTEM STANDBY (Press AV I/() 1 and I/() 2 at the same time)	Receiver/ TV/VCR/ CD player/ DVD player/ Satellite tuner/ MD deck	Turns off the receiver and other Sony audio/ video components.
TEST TONE 38	Receiver	Outputs test tone.
TOP MENU/ GUIDE 30	DVD player	Displays DVD title.
	Satellite tuner	Display guide menu.
TUNER 35	Receiver	To listen to radio programs.
TUNING+/- 19 24	Receiver	Scans radio station.
TV 23	TV	To watch TV programs.
TV CH +/- 17 26	TV	Selects preset TV channels.
TV/VIDEO 39	TV	Selects input signal: TV input or video input.
TV VOL +/- 15	TV	Adjusts the volume of the TV.
TV I∕Ů 2	TV	Turns the TV on or off.
VIDEO 1 37	Receiver	To watch VCR. (VTR mode 3)
VIDEO 2 36	Receiver	To watch VCR. (VTR mode 1)

Remote	Operations	Function
Button 1-9 and 0/10 32	Receiver	Use with SHIFT to preset radio station or tuning to preset stations and with D.TUNING for
	CD player/ DVD player/ MD deck TV/VCR/ Satellite tuner	direct tuning. Selects track numbers. 0/10 selects track 10. Selects channel numbers.
2CH 33	Receiver	Selects 2CH STEREO mode.
>10 31	VCR/ CD player/ DVD player/ Satellite tuner/ MD deck	Selects track numbers over 10.
-/ 31	TV	Selects the channel entry mode, either one or two digit.
I/Ů 2	Receiver	Turns the receiver on or off.
 ◄ II STEP II► REPLAY ← ·/ ADVANCE · → 25 18 	VCR/ DVD player	Replay the previous scene or fast forward the current scene.
I ⊲⊲ / ►►I 26 17	VCR/ CD player/ DVD player	Skips tracks.
44/>> 24 19	DVD player	Searches tracks in the forward or backward direction.
	VCR/ CD player/ MD deck/ Tape deck	Fastforwards or rewinds.
▷ 21	VCR/ CD player/ DVD player/ MD deck/ Tape deck	Starts playback.

Remote Button	Operations	Function
11 22	VCR/ CD player/ DVD player/ MD deck/ Tape deck	Pauses playback or recording. (Also starts recording with components in recording standby.)
■ 20	VCR/ CD player/ DVD player/ MD deck/ Tape deck	Stops playback.
ð • 27	DVD player	Returns to the previous menu or exits the menu.
≜/ ₹ 28	Receiver	Selects a menu item.
←/ → 28	Receiver	Adjusts or changes the setting.
★////	VCR/ Satellite tuner/ DVD player	Selects a menu item.

Notes

- 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.
- When you press input buttons (VIDEO 1, VIDEO 2 or DVD), the input mode of the TV might not switch to the corresponding input mode that you want. In this case, press TV/VIDEO button to switch the input mode of the TV.
- To activate the buttons with orange printing, press TV and the button you want simultaneously.

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, 5 CD player).

The following buttons are assigned to select the input:

To operate	Press
VCR (command mode VTR 3*)	1
VCR (command mode VTR 2*)	2
DVD player or DVD recorder	3
(command mode DVD 1)	
DVD recorder	4
(command mode DVD 3)	
CD player	5
MD deck	6
Tape deck B	7
Tuner (this receiver)	8
DSS (Digital Satellite Receiver)	9
DCS (Digital CS Tuner)	0/10
BSD (Digital BS Tuner)	-/

*Sony VCRs are operated with a VTR 2 or 3 setting. These correspond to 8 mm 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/\bigcirc , TEST TONE 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 front and center speakers and the subwoofer 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. As the surround speakers are not magnetically shielded, we recommend that you place the surround speakers slightly further away from a TV set (page 11).

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.

- Select a CINEMA STUDIO EX mode (page 24).
- Adjust the speaker level (page 16).

There is no sound from the subwoofer.

• Check that the subwoofer is connected correctly and securely.

The surround effect cannot be obtained.

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

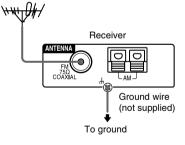
Dolby Digital or DTS multi channel sound is not reproduced.

- 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.

Outdoor FM antenna



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.

* Models of area code CEL, CEK only.

Remote control

The remote does not function.

- The DISPLAY button on the remote is available for TUNER input only.*
- 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 TV and the button you want simultaneously.
- 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.

* Models of area code CEL, CEK only.

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 14). 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 14
Customized sound fields	page 27

Specifications

Amplifier section

Power Output ¹⁾			
Models of area code CEL, CEK, MX			
(4 ohms 1 kHz, THD 0.7%)			
F	FRONT ²⁾ : 70 W/ch		
	CENTER ²⁾ : 70 W		
S	SURR ²⁾ : 70 W/ch		
(4 ohms 100 Hz, THD 0.7%))		
S	SUBWOOFER ²⁾ : 70 W		
(4 ohms 1 kHz, THD 10%)			
F	FRONT ²⁾ : 100 W/ch		
C	CENTER ²⁾ : 100 W		
S	SURR ²⁾ : 100 W/ch		
(4 ohms 100 Hz, THD 10%)			
S	SUBWOOFER ²⁾ : 100 W		

1) Measured under the following conditions:

Area code	Power requirements
CEL, CEK	230 V AC, 50 Hz
MX	127 V AC, 60 Hz

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

Inputs (Analog)

SA-CD/CD, VIDEO 1, 2	Sensitivity: 1 V Impedance: 50 kiloohms
Inputs (Digital)	
DVD (Coaxial)	Sensitivity: – Impedance: 75 ohms
VIDEO 2, SA-CD/CD (Optical)	Sensitivity: – Impedance: –

Reproduction frequency range: 28 – 20,000 Hz

Tone

Gain levels

FM tuner section

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

±6 dB, 1 dB step

AM tuner section

Tuning range	
Models of area code CEL,	CEK
With 9-kHz tuning scale:	531 - 1,602 kHz
Models of area code MX	
With 10-kHz tuning scale:	530 - 1,610 kHz
Antenna	Loop antenna
Intermediate Frequency	450 kHz

General

Power requirements

Area code	Power requirements
CEL, CEK	230 V AC, 50/60 Hz
MX	127 V AC, 60 Hz

Power consumption

Area code	Power consumption
CEL, CEK, MX	110 W

Power consumption (during standby mode)	
	0.3 W
Dimensions (w/h/d) (Approx.)	
	$430 \times 64 \times 337 \text{ mm}$
	including projecting parts
	and controls
Mass (Approx.)	3.3 kg

Speaker section

HT-SF800M only

- Front speakers (SS-MSP800)
- Center speaker (SS-CNP800)

• Surround speakers (SS-MSP800B)

Front/center speakers	Full range, magnetically
	shielded
Surround speakers	Full range
Speaker units	
Front/surround speakers	70×100 mm cone type,
	25 mm Nano Fine Dome
	Tweeter
Center speaker	55×110 mm cone type,
	25 mm Nano Fine Dome
	Tweeter
Enclosure type	Bass reflex
Rated Impedance	4 ohms
Dimension (w/h/d) (Approx.)	
Front/surround speakers	$265 \times 1,108 \times 265 \text{ mm}$
Center speaker	300 × 76 × 116 mm
Mass (Approx.)	
Front/surround speakers	3.5 kg
Center speaker	1.2 kg

HT-SS600 only

- Front speakers (SS-MSP600L/ SS-MSP600R)
- Center speaker (SS-CNP600)
- Surround speakers (SS-MSP600SL/ SS-MSP600SR)

Front/center speakers	Full range, magnetically shielded
Surround speakers	Full range
Speaker units	57 mm cone type
Enclosure type	Bass reflex
Rated Impedance	4 ohms
Dimension (w/h/d) (Approx.)	
Front/surround speakers	83 × 180 × 98 mm
Center speaker	$250 \times 85 \times 98 \text{ mm}$
Mass (Approx.)	
Front speakers	0.6 kg
Center speaker	0.7 kg
Surround speakers	0.5 kg

Subwoofer (SS-WMSP600)

Speaker system	Magnetically shielded
Speaker unit	160 mm cone type
Enclosure type	Bass reflex
Dimensions (w/h/d) (Approx.)	
	$200 \times 379 \times 335 \text{ mm}$
	including front panel
Mass (Approx.)	6 kg

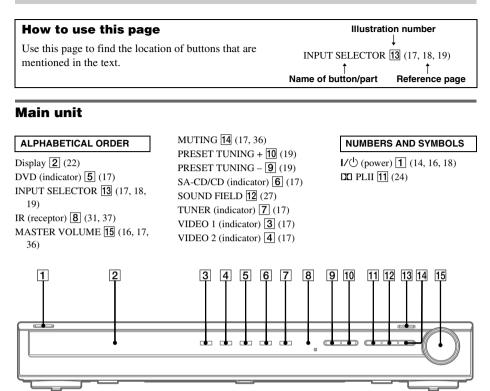
Supplied accessories

- FM wire antenna (1) AM loop antenna (1) Speaker connecting cord (5) Coaxial digital cord (1) Foot pads (speakers) • HT-SS600 (20) Foot pads (subwoofer) (4) Remote commander (1) R6 (size-AA) batteries (2) Speakers • Front speakers (2)
- Center speaker (1)
- Surround speakers (2)
- Subwoofer (1)

For details on the area code of the component you are using, see page 3.

Design and specifications are subject to change without notice.

List of button locations and reference pages



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