

Home Theatre System

Operating Instructions

Owner's Record

The model and serial numbers are located on the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

HT-DDW665

WARNING

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

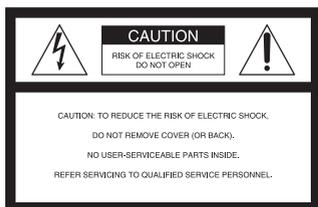
To prevent fire, do not cover the ventilation of the apparatus with newspapers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.

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.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

You are cautioned that any changes or modification not expressly approved in this manual could void your authority to operate this equipment.

Note to CATV system installer:

This reminder is provided to call CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



ENERGY STAR[®] is a U.S. registered mark. As an ENERGY STAR[®] partner, Sony Corporation has determined that this product meets the ENERGY STAR[®] guidelines for energy efficiency.

About This Manual

- The instructions in this manual are for model HT-DDW665. Check your model number by looking at the lower right corner of the front panel.
- The instructions in this manual describe the controls on the receiver. You can also use the controls on the supplied remote if they have the same or similar names as those on the receiver. For details on the use of your remote, see pages 25–27.

The HT-DDW665 consists of:

- Receiver STR-K665P
- Speaker system
 - Front speaker (left) SS-MSP66L
 - Front speaker (right) SS-MSP66R
 - Center speaker SS-CNP66
 - Surround speaker (left) SS-MSP66SL
 - Surround speaker (right) SS-MSP66SR
 - Sub woofer SS-WMSP66

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-U665

The >10/11 button on the remote is not available.

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1: Connecting your components

Required cords

The hookup diagram on page 6 assume the use of the following optional connection cords (A to C) (not supplied unless indicated).

A Audio cord

White (L)
Red (R)



C Optical digital cord



B Coaxial digital cord (supplied)

Orange

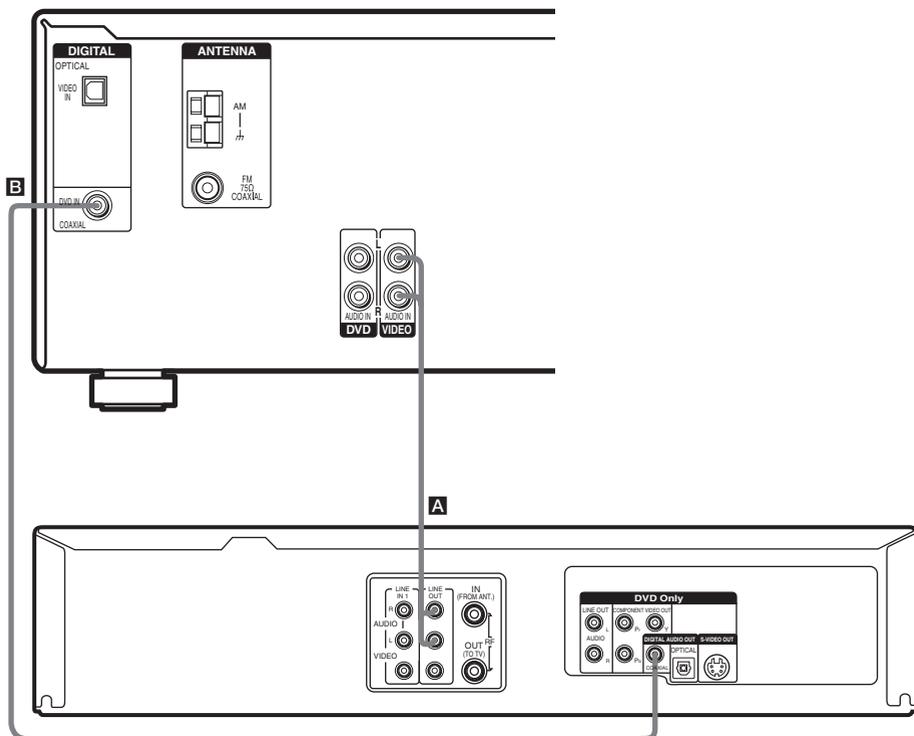


Notes

- 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 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.

Hooking up your DVD player and VCR

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

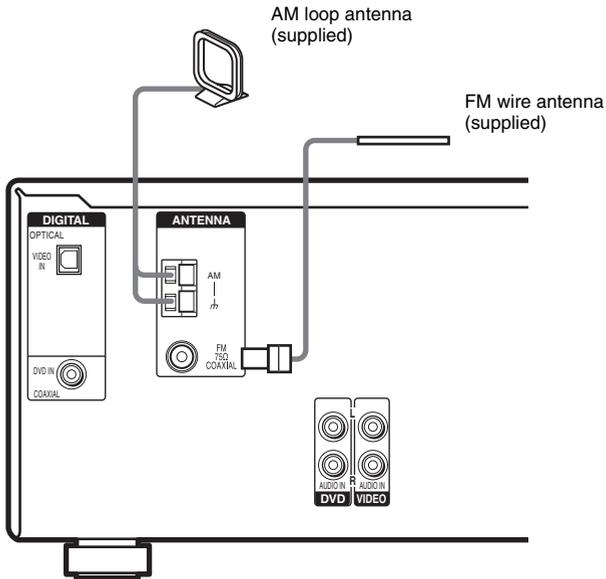


Note

If you connect other components, use the remote and operating instructions supplied with the connected components for operation.

2: Connecting the antennas

Connect the supplied AM loop antenna and FM wire antenna.



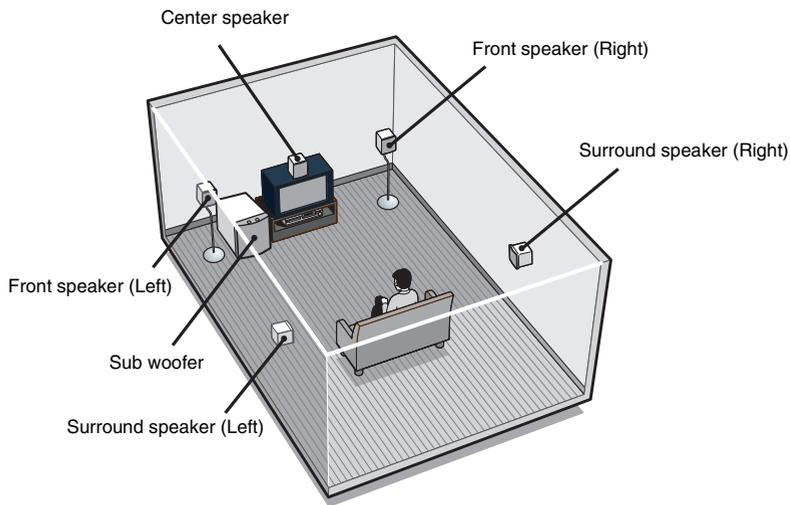
Notes

- 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



Tips

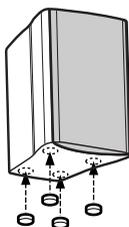
- Since the sub woofer does not emit highly directional signals, you can place it wherever you want.
- For greater flexibility in the positioning of the speakers, use the optional WS-FV11 or WS-FV10D floor stand (available only in certain countries).

Note

Connect the long speaker connecting cords to the surround speaker terminals and the short speaker connecting cords to the front and center speaker terminals.

Attaching foot pads

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



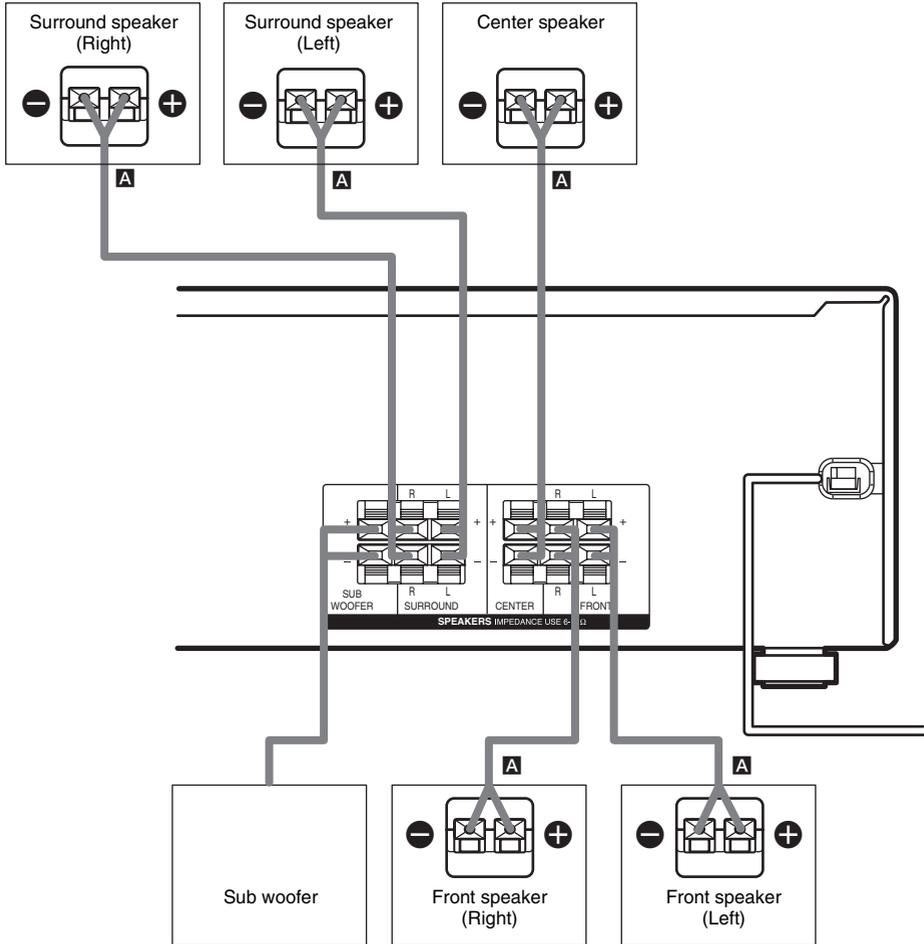
Note

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

Required cord

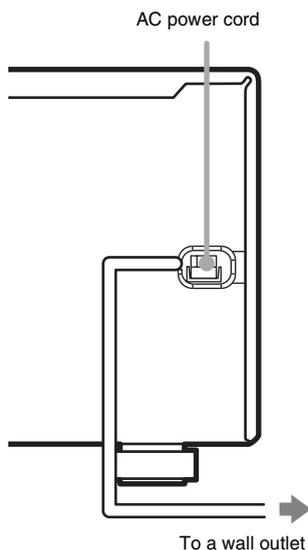
A Speaker cords (supplied)

(+)
(-)



4: 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.

“PUSH” and “ENTER” appears in the display alternately.

3 Press ENTER.

“CLEARING” appears in the display for a while, then “CLEARED” appears.

The following are reset to their factory settings.

- All settings in the SET UP, LEVEL, TONE and CUSTOMIZE menus.
- The sound field memorized for each input and preset station.
- All sound field parameters.
- All preset stations.
- All index names for inputs and 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/O 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

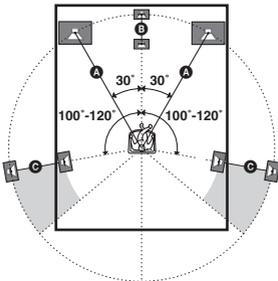
The initial setting is underlined>.

- DIST. XX ft.
(Front speaker distance)

Initial setting: 10 ft.

Lets you set the distance from your listening position to the front speakers (A). You can adjust from 3 to 23 feet in 1 foot steps.

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



- DIST. XX ft.
(Center speaker distance)

Initial setting: 10 ft.

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 5 feet closer to your listening position (E).

- DIST. XX ft.
(Surround speaker distance)

Initial setting: 10 ft.

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 15 feet 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 5 feet 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 15 feet 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.

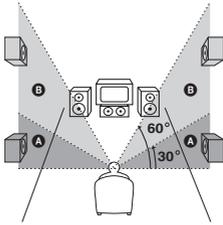
For example, setting the center speaker distance 3–6 feet closer than the actual speaker position will create a fairly realistic sensation of being “inside” the screen. If you cannot obtain a satisfactory surround effect because the surround speakers are too close, setting the surround speaker distance 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!

continued

(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 18).



• 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: Adjusting the speaker levels and balance

— TEST TONE

Adjust the speaker levels and balance while listening to the test tone from your listening position. Use the remote for the operation.

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 20.

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.

Notes

- Although these adjustments can also be made via the front panel using the **LEVEL** menu (when the test tone is output, the receiver switches to the **LEVEL** menu automatically), we recommend you follow the procedure described above and adjust the speaker levels from your listening position using the remote.
- The bass redirection circuitry is always active, so you may hear some sound output from the sub woofer when test tone is output from other speakers. However, this is not a malfunction.

Amplifier Operation

Selecting the component

1 Press input buttons to select the input.

| To select the | Press |
|------------------------|----------|
| VCR | VIDEO |
| DVD player | DVD |
| Built-in tuner (FM/AM) | FM or AM |

The selected input appears in the display.

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 +/- 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 on the remote.

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

- Press MUTING on the remote again.
- Turn the power off.
- Increase the volume.

To use the headphones

Connect the headphones to the PHONES jack.

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

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 7).

Tip

The tuning scale is:

FM: 100 kHz

AM: 10 kHz*

* The AM tuning scale can be changed (see page 32).

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 FM or AM to select the FM or AM band.

The last received station is tuned in.

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. Use the remote for the operation.

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

The last received station is tuned in.

Tip

You can also use FM or AM on the receiver.

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

(You do not have to enter the last “0” when the tuning scale is set to 10 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.

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 FM or AM to select the FM or AM band.

The last received station is tuned in.

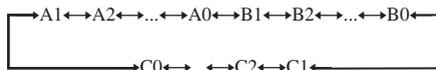
2 Tune in the station that you want to preset using Automatic Tuning (page 13) or Direct Tuning (page 14).

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 TUNING + or PRESET TUNING – 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.

Tip

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

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.

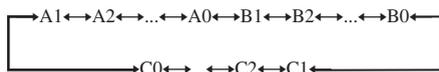
Tuning to preset stations

- 1 Press FM or AM to select the FM or AM band.

The last received station is tuned in.

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

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



Using the remote

- 1 Press FM or AM to select the FM or AM band.
- 2 Press CH/PRESET/TRACKING +/- repeatedly to select the preset station you want.

To select the preset station directly

Press the numeric buttons on the remote.

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.

Changing the display

Changing the information in the display

You can check the sound field etc. by changing the information in the display.

Press DISPLAY repeatedly.

Each time you press DISPLAY, the display will change cyclically as follows.

Index name of the input* → Selected input → Sound field currently applied

When the tuner is selected

Preset station name* → Frequency → Sound field currently applied

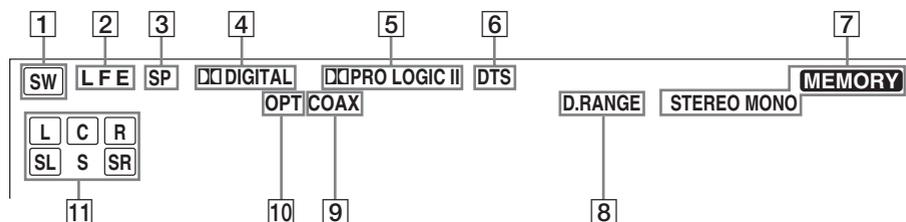
* Index name appears only when you have assigned one to the input or preset station (page 24). Index name does not appear when only blank spaces have been entered, or it is the same as the input name.

Adjusting the brightness of the display

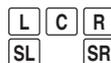
Press DIMMER repeatedly.

The brightness of the display will change in 3 steps.

About the indications in the display



- 1 SW:** Lights up when audio signal is output from the SUB WOOFER jack.
- 2 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.
- 3 SP:** Lights up when you turn on the receiver. Turns off when you connect headphones to the PHONES jack.
- 4 DIGITAL:** Lights up when the receiver is decoding signals recorded in the Dolby Digital format.
- 5 PRO LOGIC II:** “ PRO LOGIC” lights up when the receiver applies Pro Logic processing to 2 channel signals in order to output the center and surround channel signals. “ PRO LOGIC II” lights up when 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 DTS:** Lights up when DTS signals are input.
- Note**
When playing a DTS format disc, be sure that you have made digital connections and that INPUT MODE is not set to “ANALOG” (page 20).
- 7 Tuner indicators:** Lights up when using the receiver to tune in radio stations, etc. See pages 13–15 for tuner operations.
- 8 D.RANGE:** Lights up when dynamic range compression is activated (page 21).
- 9 COAX:** Lights up when the source signal is a digital signal being input through the COAXIAL terminal.
- 10 OPT:** Lights up when the source signal is a digital signal being input through the OPTICAL terminal.
- 11 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



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 2CH.

"2CH ST." appears in the display and the receiver switches to the 2CH STEREO mode.

Enjoying higher fidelity sound

— AUTO FORMAT DIRECT

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

| A.F.D. mode (Display) | Decoding mode |
|-------------------------------|--------------------|
| A.F.D. AUTO (A.F.D. AUTO) | As encoded |
| PRO LOGIC (DOLBY PL) | Dolby Pro Logic |
| PRO LOGIC II MOVIE (PLII MOV) | Dolby Pro Logic II |
| PRO LOGIC II MUSIC (PLII MUS) | |

Decoding the input audio signal automatically

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. 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.

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 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.

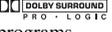
■ CONCERT (LIVE CONCERT)

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

- 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.

Advanced Adjustments and Settings

Switching the audio input mode for digital components

— INPUT MODE

You can switch the audio input mode for components which have digital audio input jacks.

- 1 Press input buttons to select the input.**
- 2 Press INPUT MODE repeatedly to select the audio input mode.**

The selected audio input mode appears in the display.

Audio input modes

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

Note

When signals with a sampling frequency of more than 48 kHz is input, the tone and sound field cannot be used.

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.

-   **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 2CH, 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.**

Note

You cannot adjust the tone when the receiver is decoding signals with a sampling frequency of more than 48 kHz.

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 CUSTOMIZE menu to adjust the receiver

You can adjust various receiver settings using the CUSTOMIZE menu.

- 1 Press MAIN MENU repeatedly to select “<CUSTOM>”.**
- 2 Press < or > repeatedly to select the parameter you want to adjust.**
For details, see “CUSTOMIZE 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.**

CUSTOMIZE menu parameters

The initial setting is underlined>.

■ **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 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”.

■ 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.

■ NAME IN

(Naming preset stations and inputs)

Lets you set the name of preset stations and inputs selected with input buttons. For details, see “Naming preset stations and inputs” on page 24.

Naming preset stations and inputs

You can enter a name of up to 8 characters for preset stations and inputs selected with input buttons, and display it in the receiver's display.

1 To index a preset station

Press FM or AM to select the FM or AM band, then tune in the preset station you want to create an index name for (page 15).

To index an input

Press the input button to select the input you want to create an index name for.

2 Press MAIN MENU repeatedly to select "<CUSTOM>".

3 Press < or > repeatedly to select "NAME IN".

4 Press ENTER.

The cursor flashes and you can select a character.

5 Use < or > and + or – to create an index name.

Press + or – repeatedly to select a character, then press > to move the cursor to the next position.

Tips

- You can select the character type as follows by pressing + or – repeatedly.
Alphabet (upper case) → Numbers → Symbols
- To enter a blank space, press + or – repeatedly until a blank space appears in the display.
- If you made a mistake, press < or > repeatedly until the character you want to change flashes, then press + or – repeatedly to select the correct character.

6 Press ENTER to store the index name.

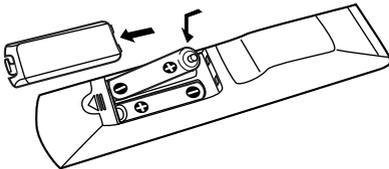
Operations Using the Remote RM-U665

You can use the remote RM-U665 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.



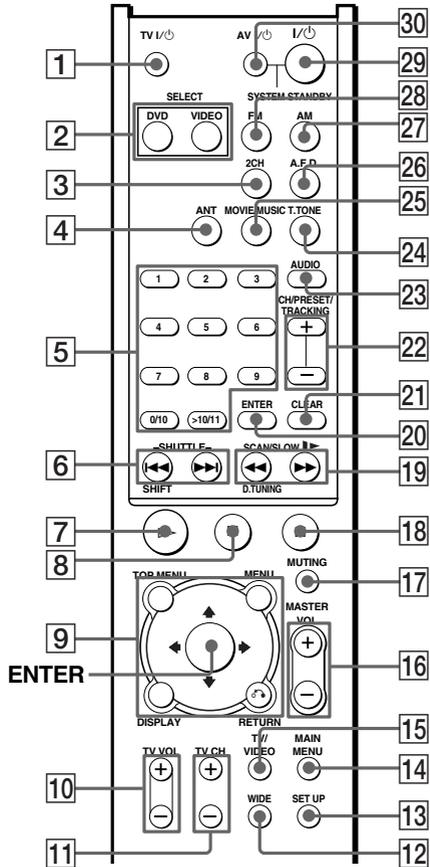
Tip

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



Other Operations/Operations Using the Remote RM-U665

The tables below show the settings of each button.

| Remote Button | Operations | Function |
|------------------|------------|--|
| A.F.D. 26 | Receiver | Selects the decoding mode for audio sound. |

continued

| Remote Button | Operations | Function |
|--------------------------------------|--|--|
| AM 27 | Receiver | To select the AM band. |
| ANT 4 | DVD PLAYER/ VIDEO CASSETTE RECORDER (VIDEO mode) | Selects output signal from the antenna terminal: TV signal or VCR program. |
| AUDIO 23 | DVD PLAYER/ VIDEO CASSETTE RECORDER | Changes the sound to Multiplex or Bilingual. |
| AV I/⏻ 30 | DVD PLAYER/ VIDEO CASSETTE RECORDER | Turns the audio and video components on or off. |
| CH/ | Receiver | Selects preset stations. |
| PRESET/ TRACKING +/- 22 | DVD PLAYER/ VIDEO CASSETTE RECORDER (VIDEO mode) DVD PLAYER/ VIDEO CASSETTE RECORDER (VIDEO mode) | Selects preset channel. Adjusts the tracking when distortion occurs. |
| CLEAR 21 | DVD PLAYER/ VIDEO CASSETTE RECORDER (DVD mode) | Press if you make a mistake when you press the numeric button or press to return to continuous play etc. |
| DISPLAY 9 | DVD PLAYER/ VIDEO CASSETTE RECORDER | Selects information displayed on the TV screen. |
| D.TUNING 19 | Receiver | Enters direct tuning mode. |
| DVD 2 | Receiver | To watch DVD PLAYER/VIDEO CASSETTE RECORDER (DVD mode). |
| ENTER 9 | Receiver/ DVD PLAYER/ VIDEO CASSETTE RECORDER | Enters the selection. |

| Remote Button | Operations | Function |
|--|--|---|
| ENTER/12 20 | DVD PLAYER/ VIDEO CASSETTE RECORDER | Enters the selection. |
| FM 28 | Receiver | To select the FM band. |
| MAIN MENU 14 | Receiver | Selects the menu of the receiver. |
| MASTER VOL +/- 16 | Receiver | Adjusts the master volume of the receiver. |
| MENU 9 | DVD PLAYER/ VIDEO CASSETTE RECORDER | Displays menu. |
| MOVIE/ MUSIC 25 | Receiver | Selects the pre-programmed sound fields for movie and music. |
| MUTING 17 | Receiver | Mutes the sound from the receiver. |
| RETURN/ ↶ 9 | DVD PLAYER/ VIDEO CASSETTE RECORDER (DVD mode) | Returns to the previous menu or exits the menu. |
| SCAN/ SLOW ▶ 19 | DVD PLAYER/ VIDEO CASSETTE RECORDER | Playback in slow motion. |
| SET UP 13 | DVD PLAYER/ VIDEO CASSETTE RECORDER | Selects the SET UP MENU. |
| SHIFT 6 | Receiver | Selects a memory page for presetting radio stations or tuning to preset stations. |
| SHUTTLE 6 | DVD PLAYER/ VIDEO CASSETTE RECORDER | Changes the playback speed. |
| SYSTEM STANDBY (Press AV I/⏻ 30 and I/⏻ 29 at the same time) | Receiver/TV/ DVD PLAYER/ VIDEO CASSETTE RECORDER | Turns off the receiver and other Sony audio/video components. |
| T.TONE 24 | Receiver | Outputs test tone. |

| Remote Button | Operations | Function |
|------------------|--|--|
| TOP MENU [9] | VIDEO CASSETTE RECORDER (DVD mode) | Displays DVD title. |
| TV CH +/- [11] | TV | Selects preset TV channels. |
| TV/VIDEO [15] | TV | Selects input signal: TV input or video input. |
| TV VOL +/- [10] | TV | Adjusts the volume of the TV. |
| TV I/⏻ [1] | TV | Turns the TV on or off. |
| VIDEO [2] | Receiver | To watch DVD PLAYER/VIDEO CASSETTE RECORDER (VIDEO mode). |
| WIDE [12] | TV | Selects the wide picture mode. |
| I/⏻ [29] | Receiver | Turns the receiver on or off. |
| 2CH [3] | Receiver | Selects 2CH STEREO mode. |
| ⬆/⬇ [9] | Receiver | Selects a menu item. |
| ⬅/➡ [9] | Receiver | Makes adjustment or change the setting. |
| ⬆/⬇/⬅/➡ [9] | DVD PLAYER/ VIDEO CASSETTE RECORDER | Selects a menu item. |
| 1-9 and 0/10 [5] | Receiver | Use with SHIFT to preset radio station or tuning to preset stations and with D.TUNING for direct tuning. |
| | DVD PLAYER/ VIDEO CASSETTE RECORDER (VIDEO mode) | Selects channel numbers. |

| Remote Button | Operations | Function |
|---------------|--|--|
| ⏮/▶▶ [6] | DVD PLAYER/ VIDEO CASSETTE RECORDER | Skips tracks. |
| ⏮/▶▶ [19] | DVD PLAYER/ VIDEO CASSETTE RECORDER (DVD mode) | Searches tracks in the forward or backward direction. |
| | DVD PLAYER/ VIDEO CASSETTE RECORDER (VIDEO mode) | Fastforwards or rewinds. |
| ▶ [7] | DVD PLAYER/ VIDEO CASSETTE RECORDER | Starts playback. |
| ⏸ [8] | DVD PLAYER/ VIDEO CASSETTE RECORDER | Pauses playback or record. (Also starts recording with components in recording standby.) |
| ■ [18] | DVD PLAYER/ VIDEO CASSETTE RECORDER | Stops playback. |

Notes

- 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 or 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.
- The >10/11 is not available.

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.
- (Models of area code U only)
One blade of the plug is wider than the other for the purpose of safety and will fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- 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 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. As the surround speakers are not magnetically shielded, we recommend that you place the surround speakers slightly further away from TV set (page 8).

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 $-/+$ is not set at “VOL MIN”.
- Check that the headphones are not connected.
- Press MUTING on the remote 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.

- Connect a pair of headphones to the PHONES jack to verify that sound is output from the headphones. If only one channel is output from the headphones, the component may not be connected to the receiver correctly. Check that all the cords are fully inserted into the jacks on both the receiver and the component. If both channels are output from the headphones, the front speaker may not be connected to the receiver correctly. Check the connection of the front speaker which is not outputting any sound.

There is no sound from analog 2 channel sources.

- Check that the INPUT MODE is not set to “COAX IN” or “OPT IN” (page 20).

There is no sound from digital sources (from COAXIAL or OPTICAL input jack).

- Check that the INPUT MODE is not set to “ANALOG” (page 20). Check that the INPUT MODE is not set to “COAX IN” for the sources from OPTICAL input jack, or set to “OPT IN” for the sources from COAXIAL input jack.

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 A.F.D., MOVIE or MUSIC).
- Select a CINEMA STUDIO EX mode (page 18).
- Adjust the speaker level (page 12).

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 A.F.D., MOVIE or MUSIC).
- Sound fields do not function for the signals with a sampling frequency of more than 48 kHz.

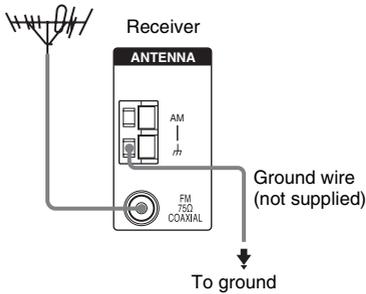
Dolby Digital or DTS multi channel sound is not reproduced.

- 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 14).
 - Press DISPLAY repeatedly so that the frequency appears in the display.
-

Remote control

The remote does not function.

- 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 or AV MENU after pressing the input 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 10). However, note that all memorized settings will be reset to their factory settings and you will have to readjust all settings on the receiver.

If the problem persists

Consult your nearest Sony dealer.

Reference sections for clearing the receiver's memory

| To clear | See |
|-------------------------|---------|
| All memorized settings | page 10 |
| Customized sound fields | page 21 |

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6 ohm loads, both channels driven, from 120 – 20,000 Hz; rated 55 watts per channel minimum RMS power, with no more than 0.7% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Power Output¹⁾

(6 ohms 1 kHz, THD 10%)

FRONT²⁾: 85 W/ch

CENTER²⁾: 85 W

SURR²⁾: 85 W/ch

(6 ohms 100 Hz, THD 10%)

SUB WOOFER²⁾: 85 W

1) Measured under the following conditions:

120 V AC, 60 Hz

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

Inputs (Analog)

| | |
|------------|--|
| DVD, VIDEO | Sensitivity: 800 mV Impedance: 50 kilohms |
|------------|--|

Inputs (Digital)

| | |
|-----------------|--------------------------------------|
| DVD (Coaxial) | Sensitivity: – Impedance: 75 ohms |
| VIDEO (Optical) | Sensitivity: – Impedance: – |

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 10-kHz tuning scale: 530 - 1,710 kHz³⁾

With 9-kHz tuning scale: 531 - 1,710 kHz³⁾

Antenna Loop antenna

Intermediate Frequency 450 kHz

- 3) You can change the AM tuning scale to 9 kHz or 10 kHz. After tuning in any AM station, turn off the receiver. While holding down PRESET TUNING + or TUNING +, press I/⏪. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

General

Power requirements 120 V AC, 60 Hz

Power consumption 160 W

Power consumption (during standby mode)
0.3 W

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

430 × 145 × 301.5 mm
(17 × 5 6/8 × 11 7/8 inches)
including projecting parts
and controls

Mass (Approx.) 6.5 kg (14 lb 6 oz)

Speaker section

Front speakers (SS-MSP66L/SS-MSP66R)

Center speaker (SS-CNP66)

**Surround speakers (SS-MSP66SL/
SS-MSP66SR)**

Front/center speakers Full range, magnetically
shielded

Surround speakers Full range

Speaker units 80 mm cone type

Enclosure type Bass reflex

Rated Impedance 6 ohms

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

120 × 122 × 100 mm
(4 6/8 × 4 7/8 × 4 inches)

Mass (Approx.)

Front/center speakers 0.8 kg (1 lb 13 oz)

Surround speakers 0.6 kg (1 lb 6 oz)

Sub woofer (SS-WMSP66)

Speaker system Magnetically shielded

Speaker unit 200 mm cone type

Enclosure type Acoustically loaded bass
reflex

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

270 × 325 × 333 mm
(10 6/8 × 12 7/8 × 13 1/8
inches) including front
panel

Mass (Approx.) 6.0 kg (13 lb 4 oz)

Supplied accessories

FM wire antenna (1)

AM loop antenna (1)

Speaker connecting cord, long (2)

Speaker connecting cord, short (3)

Coaxial digital cord (1)

Foot pads (speakers) (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.

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