

FM Stereo FM-AM Receiver

Operating instructions

STR-DE135

WARNING

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



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.

IMPORTANT

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 change or modifications 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 the 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.

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. STR-DE135

Serial No. _____

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.
- 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.
- Should the AC power cord need to be changed, have it done at a qualified service shop only.

On placement

- Place the receiver in a location with adequate ventilation to prevent heat build-up 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.

On operation

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

On cleaning

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

For detailed safety precautions, see the "IMPORTANT SAFEGUARDS" leaflet.

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

About This Manual

The instructions in this manual is for model STR-DE135. Check your model number by looking at the upper right corner of the front panel.

Conventions

The instructions in this manual describe the controls on the receiver. You can also use the controls on the remote if they have the same or similar names as those on the receiver.

- A "Quick Reference Guide" is supplied on page 17.
- The "Remote Button Descriptions" section on page 16 provides an overview of the remote buttons.
- The following icons are used in this manual:



Indicates that you can use only the remote to do the task.



Indicates hints and tips for making the task easier.

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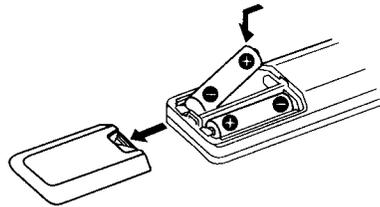
Unpacking

Check that you received the following items with the receiver:

- FM wire antenna (1)
- AM loop antenna (1)
- Remote commander (remote) (1)
- Size AA (R6) batteries (2)

Inserting batteries into the remote

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



When to replace batteries

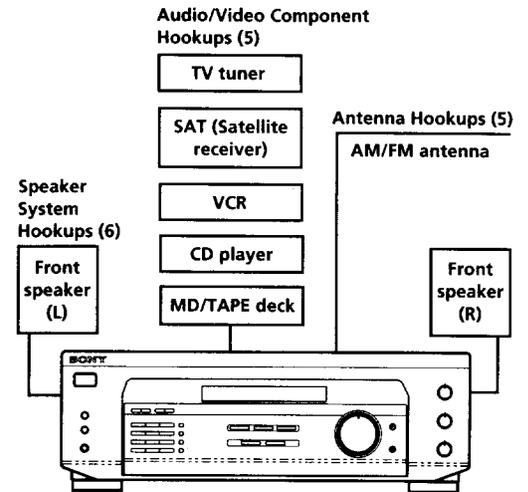
Under normal use, the batteries should last for about 6 months. When the remote no longer operates the receiver, replace both batteries with new ones.

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.

Hookup Overview

The receiver allows you to connect and control the following audio/video components. Follow the hookup procedures for the components that you want to connect to the receiver on the pages specified. To learn the locations and names of each jack, see "Rear Panel Descriptions" on page 15.



Before you get started

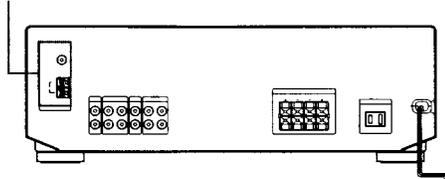
- Turn off the power to all components before making any connections.
- Do not connect the AC power cords until all of the connections are completed.
- Be sure to make connections firmly to avoid hum and noise.
- When connecting an audio/video cable, be sure to match the color-coded pins to the appropriate jacks on the components: White (left, audio) to White; and Red (right, audio) to Red.

Antenna Hookups

Overview

This section describes how to connect AM and FM antennas to the receiver. If you want to receive radio broadcasts with the receiver, complete these connections first, then go to the following pages. For specific locations of the terminals, see the illustration below.

ANTENNA



What antennas will I need?

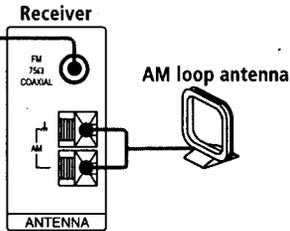
- FM wire antenna (supplied) (1)
- AM loop antenna (supplied) (1)



Hookups

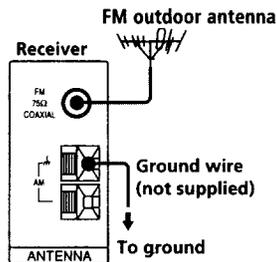
FM wire antenna

After connecting the wire antenna, keep it as horizontal as possible.



💡 If you have poor FM reception

Use a 75-ohm coaxial cable (not supplied) to connect the receiver to an outdoor FM antenna as shown below.



💡 If you have poor AM reception

Connect a 20 to 50 ft. (6 to 15-meter) insulated wire (not supplied) to the AM antenna terminal in addition to the AM loop antenna. Try to extend the wire outdoors and keep it horizontal.

Connecting a ground wire

If you connect the receiver to an outdoor antenna, ground it against lightning as shown in the illustration in the left column. To prevent a gas explosion, do not connect the ground wire to a gas pipe.

Where do I go next?

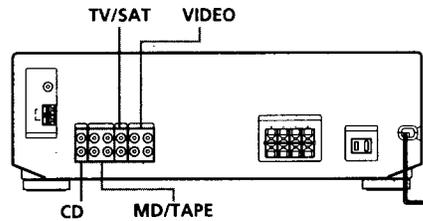
If you want to connect other components, go on to the next section. If you're only planning to use the receiver to listen to the radio, go to "Speaker System Hookups" on pages 6 and 7.

Audio/Video Component Hookups

Overview

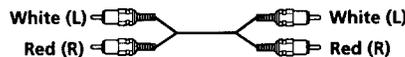
This section describes how to connect your audio and video (audio signal only) components to the receiver. If you want to use the receiver as an amplifier, complete these connections.

For specific locations of the jacks, see the illustration below.



What cords will I need?

Audio cords (not supplied) (1 for each CD player, TV tuner or Satellite receiver; 2 for each MD recorder or tape deck or VCR)

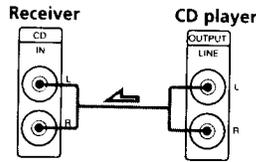


(continued)

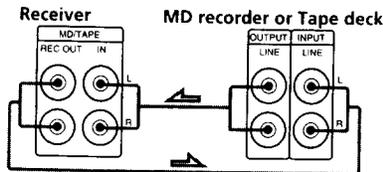
Hookups

The arrow \Rightarrow indicates signal flow.

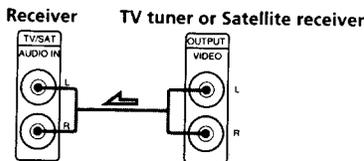
CD player



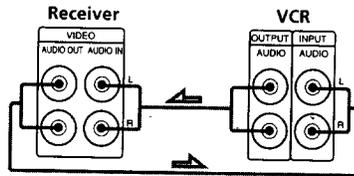
MD recorder or Tape deck



TV/SAT



VCR



Use the function buttons (TV/SAT, CD, MD/TAPE etc) to select the VIDEO AUDIO OUT signal. You can record this audio signal by connecting a recording component such as a cassette deck (to the VIDEO AUDIO OUT jack).

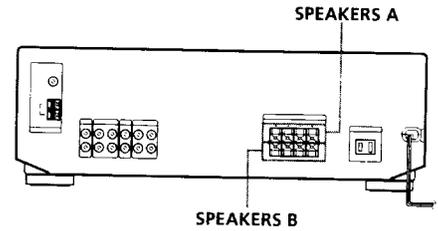
Where do I go next?

Go on to the next section to connect the speakers.

Speaker System Hookups

Overview

This section describes how to connect your speakers to the receiver. For specific locations of the terminals, see the illustration below.



What cords will I need?

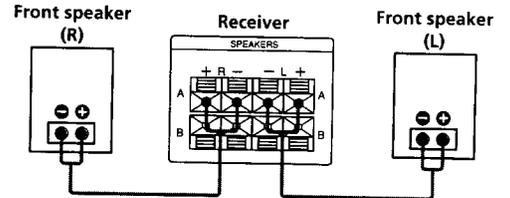
Speaker cord (not supplied) (1 for each speaker)



Twist the stripped ends of the cord about 2/3 inch (15 mm). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and - to -. If the cords are reversed, the sound will be distorted and will lack bass.

Hookups

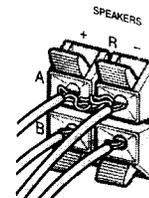
Front speakers



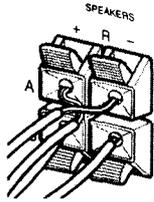
To avoid short-circuiting the speakers

Short-circuiting of the speakers may damage the receiver. To prevent this, make sure to take the following precautions when connecting the speakers. Make sure the stripped ends of each speaker cord does not touch another speaker terminal or the stripped end of another speaker cord.

Examples of poor conditions of the speaker cord:



Stripped speaker cord is touching another speaker terminal.



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

💡 If you have an additional front speaker system
Connect them to the SPEAKERS B terminals.

Selecting the speaker system

To drive the speakers, select the speaker system as follows:

| To drive | Depress SPEAKERS button |
|--|-------------------------|
| Speaker system A (connected to the SPEAKERS A terminals) | A |
| Speaker system B (connected to the SPEAKERS B terminals) | B |
| Both speaker systems A and B (series connection) | A+B |

Note
No sound is heard when you press SPEAKERS A+B without connecting speaker system B.

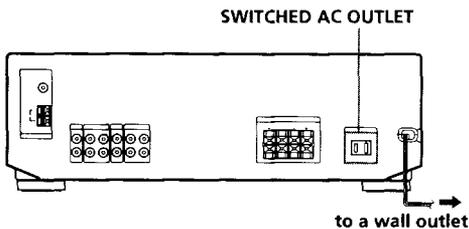
Where do I go next?

Go on to the next section to connect the AC power cord.

AC Hookups

Connecting the AC power cord

Connect the AC power cord from this receiver and from your audio/video components to a wall outlet. If you connect other audio components to the SWITCHED AC OUTLET on the receiver, the receiver can supply power to the connected components so you can turn on/off the whole system when you turn on/off the receiver.



Caution
Make sure that the power consumption of the component connected to the receiver's AC outlet does not exceed 120 watts. Do not connect high-wattage electrical home appliances such as electric irons, fans, or TVs to this outlet.

Where do I go next?

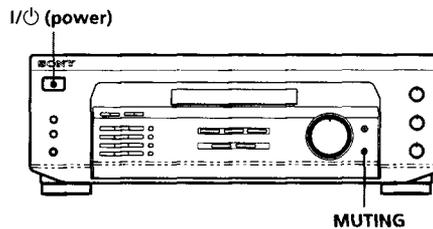
Before you use the receiver, go to the next section to make sure that all the controls are set to the appropriate positions.

Before You Use Your Receiver

Before turning on the receiver, make sure that you have:

- Turned VOLUME to the leftmost position (0).
- Selected the appropriate speaker system. (See "Selecting the speaker system" on this page.)
- Set BALANCE to the center position.

Before you use your receiver for the first time or when you want to clear the receiver's memory, do the procedure below:



- 1 Turn off the receiver.
- 2 Press I/⏻ (power) for more than 4 seconds. "INITIAL" appears in the display and the items including the following are reset or cleared:
 - All preset stations are reset to their factory settings.

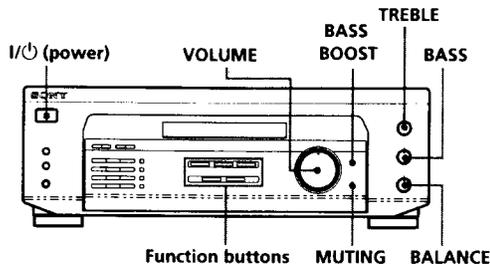
Turn on the receiver and check the following indicator.

- Press MUTING or MUTING on the remote if the MUTING indicator turns on.

Selecting a Component

To listen to or watch a connected component, first select the function on the receiver or with the remote. Before you begin, make sure you have:

- Connected all components securely and correctly as indicated on pages 5 to 7.
- Turned VOLUME to the leftmost position (0) to avoid damaging your speakers.



- 1 Press I/⏻ (power) to turn on the receiver.
- 2 Press a function button to select the component you want to use:

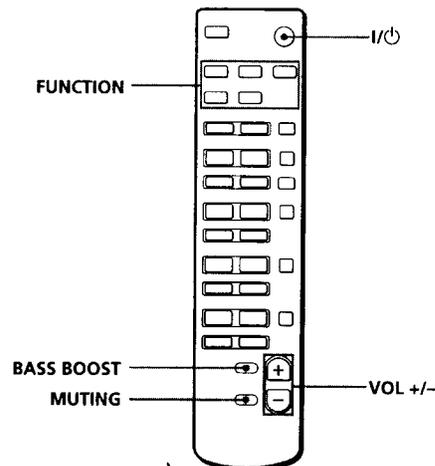
| To listen to or watch | Press |
|-----------------------------------|---------|
| Radio programs | TUNER |
| Compact discs (CD) | CD |
| MiniDiscs (MD) or Audio tapes | MD/TAPE |
| TV programs or Satellite receiver | TV/SAT |
| Video tapes | VIDEO |
- 3 Turn on the component, for example, a CD player, and then start playing.
To tune in radio stations on this receiver, see "Receiving Broadcasts" on page 9.
- 4 Turn VOLUME or press VOL +/- on the remote to adjust the volume.
To adjust the volume of the TV's speakers, use the volume control on the TV.

| To | Do this |
|-------------------------|---|
| Mute the sound | Press MUTING or MUTING on the remote. Press again to restore the sound. |
| Reinforce the bass | Press BASS BOOST or BASS BOOST on the remote to turn on the BASS BOOST indicator. |
| Adjust the balance | Turn the BALANCE control left or right. |
| Adjust the tone quality | Adjust the BASS and TREBLE controls. |

When you listen with headphones
Connect the headphones to the PHONES jack and set the SPEAKERS buttons to OFF.

Using the remote

The remote lets you operate the receiver and the Sony components that are connected to it.



- Press one of the FUNCTION buttons to select the component you want to use. The FUNCTION buttons on the remote are factory-set as follows:

| To listen to or watch | Press |
|-------------------------------|---------------------------|
| Radio programs | TUNER |
| Compact discs (CD) | CD |
| MiniDiscs (MD) or audio tapes | MD/TAPE (INITIAL-MD MODE) |
| TV programs | TV |
| VHS Video tapes (VTR-3 mode) | VIDEO |

The receiver and the selected component turn on.

If the component does not turn on

Press the power switch on the component.

- Start playing. Refer to "Remote Button Descriptions" on page 16 for details.

To turn off the components

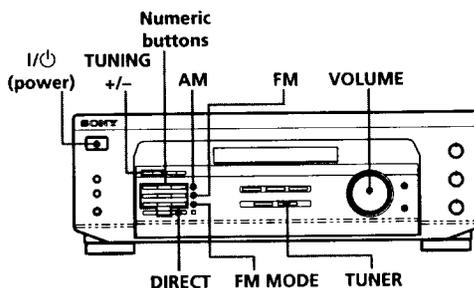
Press I/⏻. You can turn off the video and audio components connected to the SWITCHED AC OUTLET at the same time.

Receiving Broadcasts

This receiver lets you enter a station's frequency directly by using the numeric buttons (direct tuning). If you don't know the frequency of the station you want, see "Receiving broadcasts by scanning stations (automatic tuning)" on page 10.

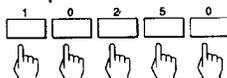
Before you begin, make sure you have:

- Connected an FM or AM antenna to the receiver as indicated on page 5.
- Selected the appropriate speaker system. (See "Selecting the speaker system" on page 7.)



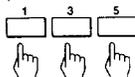
- Press I/⏻ (power) to turn on the receiver.
- Press TUNER. The last received station is tuned in.
- Press FM or AM to select FM or AM stations.
- Press DIRECT.
- Press the numeric buttons to enter the frequency.

Example 1: FM 102.50 MHz

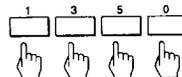


Example 2: AM 1350 kHz

(10 kHz interval)



(9 kHz interval)



- When you tune in AM stations, adjust the direction of the AM loop antenna for optimum reception.

(continued)

Receiver Operations

To receive other stations

Repeat Steps 3 to 5.

💡 If the STEREO indicator remains off
Press FM MODE when an FM stereo broadcast is received.

💡 If an FM stereo program is distorted
The STEREO indicator flashes. Press FM MODE to change to monaural (MONO). You will not have the stereo effect but the distortion will be reduced. To return to stereo mode, press this button again.

💡 If you cannot tune in a station and the entered numbers are flashing
Make sure you've entered the right frequency. If not, press DIRECT and re-enter the frequency you want. If the entered numbers still flash, the frequency is not used in your area.

💡 To watch FM simulcast TV programs
Make sure that you tune in the simulcast program both on the TV (or the VCR) and on the receiver.

💡 If you enter a frequency not covered by the tuning interval
The entered value is automatically rounded up or down to the closest covered value.

Tuning intervals for direct tuning are:
FM: 50 kHz intervals
AM: 9 kHz / 10kHz intervals (see page 14)

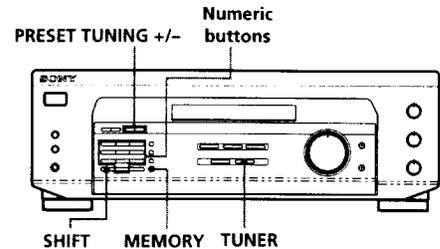
Receiving broadcasts by scanning stations (automatic tuning)

If you don't know the frequency of the radio station you want, you can have the receiver scan all the receivable stations to locate the one you want.

- 1 Press TUNER.
The last received station is tuned in.
- 2 Press FM or AM to select FM or AM.
- 3 Press TUNING + or -.
Press the + button for a higher frequency; press the - button for a lower one. When you tune past either end of the band, the receiver automatically jumps to the opposite end. Every time a station is received, the receiver stops scanning. To continue scanning, press the button again.

Presetting Radio Stations

You'll most likely want to preset the receiver with the radio stations you listen to often so that you don't have to tune in the station every time. The receiver can store a total of 30 FM or AM stations. You can store the stations on preset numbers combining 3 characters (A, B, C) and numbers (0 - 9). For example, you can store a station as preset number A1, B6 or C9, etc.



- 1 Press TUNER.
The last received station is tuned in.
- 2 Tune in the station you want.
If you are not familiar with how to tune in a station, see "Receiving Broadcasts" on the previous page.
- 3 Press MEMORY.
"MEMORY" appears for a few seconds.
Do steps 4 and 5 before "MEMORY" goes out.
- 4 Press SHIFT to select a character (A, B or C).
Each time you press SHIFT, the letter "A," "B" or "C" appears in the display.
If "MEMORY" disappears, start again from step 3.
- 5 While MEMORY is displayed, press the number you want to use (0 to 9).
- 6 Repeat Steps 2 to 5 to preset other stations.

To change a preset station

Preset a new station on the number you want to change.

Note

If the AC power cord is disconnected for about one week, the preset stations will be cleared from the receiver's memory, and you will have to preset the stations again.

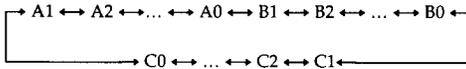
Tuning preset stations (preset tuning)

You can tune directly to a preset station by entering its preset number. If you don't know which stations are preset on which numbers, you can tune by scanning the preset stations.

- 1** Press TUNER.
The last received station is tuned in.
- 2** Press SHIFT to select a character (A, B or C), then press the number.
For example, select A and then press 7 to tune in the station preset as A7.

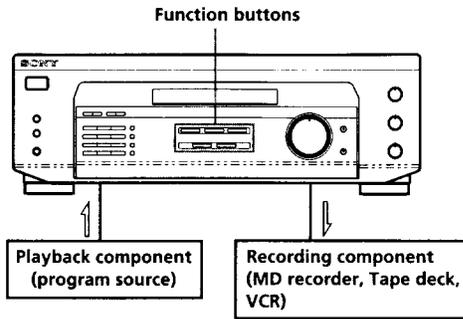
You can tune by scanning the preset stations

First press TUNER and then press PRESET TUNING + or - to select the station you want. Each time you press the buttons, the preset numbers change as follows:



Recording

This receiver makes it easy to record to and from the components connected to the receiver. You don't have to connect playback and recording components directly: once you select a program source on the receiver, you can record and edit as you normally would using the controls on each component. Before you begin, make sure you've connected all components properly.



⇒: Audio signal flow

Recording on a MiniDisc or audio tape

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

- 1** Press one of the function buttons to select the program source.
- 2** Set the component to be ready for playing.
For example, insert a CD into the CD player.
- 3** Insert a blank disc or tape into the recording deck and adjust the recording level, if necessary.
- 4** Start recording on the recording deck and then start playing the component.

(continued)

Recording on a video tape

You can record from a TV or a satellite receiver using the receiver. You can also add audio from a variety of audio sources when editing a video tape. See your VCR's instruction manual if you need help.

- 1 Press TV/SAT to select the program source.
- 2 Set the component to be ready for playing. For example, turn on the TV and TV tuner.
- 3 Insert a blank video tape into the VCR for recording.
- 4 Start recording on the VCR.



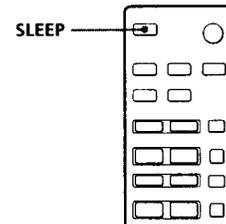
You can replace audio while editing a video tape

At the point you want to start adding different sound, press another function button (for example, CD) and start playback. The sound from the selected component will be recorded over the original audio.

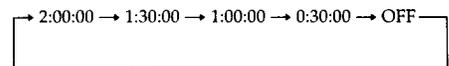
To resume recording the original sound, press the TV/SAT function button.

Using the Sleep Timer

You can set the amplifier to turn off automatically at a time you specify.



Press SLEEP on the remote while the power is on. Each time you press SLEEP, the time changes as shown below.



The display dims after you specify the time.



You can check the time remaining before the amplifier turns off

Press SLEEP on the remote. The remaining time appears in the display.

Troubleshooting

If you experience any of the following difficulties while using the receiver, use this troubleshooting guide to help you remedy the problem. Should any problem persist, consult your nearest Sony dealer.

There's no sound or only a very low-level sound is heard.

- ➔ Check that the speakers and components are connected securely.
- ➔ Make sure you select the correct component on the receiver.
- ➔ Make sure you set the SPEAKERS selector correctly. (see page 7).
- ➔ Press MUTING or MUTING on the remote if the MUTING indicator turns on.
- ➔ The protective device on the receiver has been activated because of a short circuit ("PROTECT" flashes). Turn off the receiver, eliminate the short-circuit problem and turn on the power again.

The left and right sounds are unbalanced or reversed.

- ➔ Check that the speakers and components are connected correctly and securely.
- ➔ Adjust the BALANCE control.

Severe hum or noise is heard.

- ➔ 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 (10 feet) away from a TV set or fluorescent light.
- ➔ Place your TV away from the audio components.
- ➔ Make sure you connect a ground wire to the antenna ground terminal.
- ➔ The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.

Radio stations cannot be tuned in.

- ➔ Check that the antennas are connected securely. Adjust the antennas and connect an outdoor antenna if necessary.
- ➔ The signal strength of the stations is too weak (when you tune in with automatic tuning). Use direct tuning.
- ➔ Make sure you set the tuning interval correctly (when you tune in AM stations with automatic tuning) (see pages 9 and 14).
- ➔ No stations have been preset or the preset stations have been cleared (when you tune in with scanning preset stations). Preset the stations (see page 10).

No picture or an unclear picture is seen on the TV screen.

- ➔ Select the appropriate function on the receiver.
- ➔ Place your TV away from the audio components.

Recording cannot be made.

- ➔ Check that the components are connected correctly.

The remote does not function.

- ➔ Point the remote at the remote sensor  on the receiver.
- ➔ Remove the obstacles in the path of the remote and the receiver.
- ➔ Replace both batteries in the remote with new ones if they are weak.
- ➔ Make sure you select the correct function on the remote.

Specifications

Audio power specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20 - 20,000 Hz, rated 100 watts per channel minimum RMS power, with no more than 0.09 % total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

| | |
|---------------------------|---|
| Stereo mode | (8 ohms at 20 Hz - 20 kHz less than 0.09% total harmonic distortion) 100W + 100W |
| Frequency response | TV/SAT, CD, MD/TAPE, VIDEO, 10 Hz - 50 kHz ± 1 dB |

Inputs

| | Sensitivity | Impedance | S/N |
|----------------------------|-------------|------------|-------|
| CD, MD/TAPE, TV/SAT, VIDEO | 150 mV | 50 kilohms | 78 dB |

| | |
|----------------|---|
| Outputs | MD/TAPE REC OUT: Voltage: 150 mV, Impedance: 10 kilohms VIDEO AUDIO OUT: Voltage: 150 mV, Impedance: 10 kilohms PHONES: Accepts low and high impedance headphones |
|----------------|---|

Muting Full mute

BASS BOOST +10 dB at 70 Hz

TONE ± 8 dB at 100 Hz and 10 kHz

Tuner Section

FM Stereo, FM/AM superheterodyne tuner

FM tuner section

| | |
|-------------------------------------|---|
| Tuning range | 87.5 - 108.0 MHz |
| Antenna terminals | 75 ohms, unbalanced |
| Intermediate frequency | 10.7 MHz |
| Sensitivity | Mono: 18.3 dBf, 4.5 μ V Stereo: 38.3 dBf, 45 μ V |
| Usable sensitivity | 11.2 dBf, 2 μ V (IHF) |
| S/N | Mono: 76 dB Stereo: 70 dB |
| Harmonic distortion at 1 kHz | Mono: 0.3 % Stereo: 0.5 % |
| Separation | 45 dB at 1 kHz |
| Frequency response | 30 Hz - 15 kHz $^{+0.5}_{-2}$ dB |
| Selectivity | 60 dB at 400 kHz |

AM tuner section

| | |
|---------------------|--|
| Tuning range | 10 kHz interval* 530 - 1710 kHz 9 kHz interval 531 - 1710 kHz |
|---------------------|--|

Antenna Loop antenna

Intermediate frequency 450 kHz

Usable sensitivity 50 dB/m (at 1,000 kHz)

S/N 54 dB (at 50 mV/m)

Harmonic distortion 0.5 % (50 mV/m, 400 Hz)

Selectivity At 10 kHz: 40 dB
At 9 kHz: 35 dB

* You can change the AM tuning interval between 9 kHz and 10 kHz. After tuning in any AM station, turn off the receiver. Hold down the PRESET TUNING + button and press the I/⏻ (power) button. All preset stations will be erased when you change the interval. To reset the interval, repeat the procedure.

General

| | |
|-----------------------------|--|
| System | Tuner section: PLL quartz-locked digital synthesizer system Preamplifier section: Low-noise NF type equalizer Power amplifier section: Pure-complementary SEPP |
| Power requirements | 120 V AC, 60 Hz |
| Power consumption | 155 W |
| AC outlets | 1 switched, total 120 W/1A Max |
| Dimensions | 430 x 144 x 306 mm (17 x 5 7/8 x 12 1/8 inches) |
| Mass (Approx.) | 8.1 kg (17 lb 13 oz) |
| Supplied accessories | FM wire antenna (1) AM loop antenna (1) Remote commander (remote) (1) Size AA (R6) batteries (2) |

Design and specifications are subject to change without notice.

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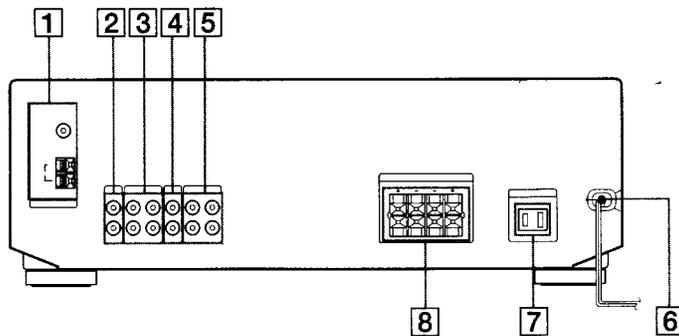
T

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Rear Panel Descriptions



- | | | |
|-------------------|-----------------|----------------------|
| 1 ANTENNA (AM/FM) | 4 TV/SAT | 7 SWITCHED AC OUTLET |
| 2 CD | 5 VIDEO | 8 SPEAKERS (A/B) |
| 3 MD/TAPE | 6 AC power cord | |

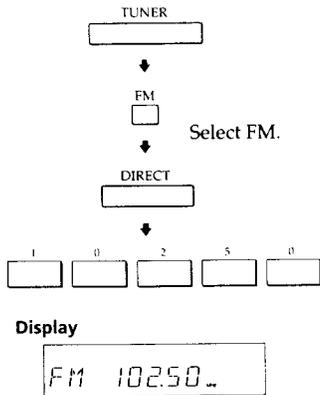
Remote Button Descriptions

For buttons not described on previous pages and buttons with names different from the buttons on the main unit.

| Remote Button | Operates | Function |
|---------------|-------------------------------------|--|
| PRESET +/- | Receiver | Scans and selects preset stations. |
| D. SKIP | CD player | Skips discs (CD player with multi-disc changer only). |
| ⏮/⏭ | Tape deck | Fastforwards or rewinds. |
| ⏮/⏭ | CD player/ MD deck | Skips tracks. |
| ⏸ | CD player/ MD deck | Pauses play or record. (Also starts recording with components in record standby). |
| ▶ | CD player/ MD deck/ Tape deck | Starts play. |
| ■ | CD player/ MD deck/ Tape deck | Stops play. |
| ◀ | Tape deck/ | Starts play on the reverse side. |

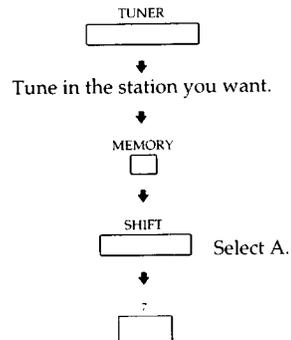
Receiving Broadcasts
(direct tuning)

Example: Receiving FM
102.50 MHz



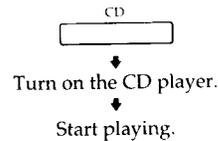
Presetting Radio Stations

Example: Presetting a station as A7



Selecting a Component

Example 1: Playing a CD

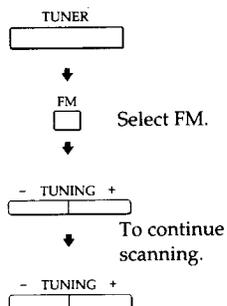


Example 2: Watching a video tape



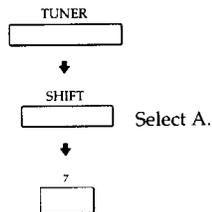
Scanning Radio Stations
(automatic tuning)

Example: Scanning FM stations



Receiving Preset Stations

Example: Receiving the station number A7



Scanning Preset Stations

