SONY

Micro HI-FI Component System

Operating Instructions

CMT-BX20i

COMPACT DISC DIGITAL AUDIO

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http://www.sony.net/

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To reduce the risk of fire, do not cover the ventilation opening of the apparatus with newspapers, tablecloths, curtains, etc.
Do not place the naked flame sources such as lighted candles on the apparatus.
To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing, and 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.
As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.

Do not expose batteries or apparatus with battery-installed to excessive heat such as sunshine, fire or the like.

CAUTION

The use of optical instruments with this product will increase eye hazard.

Except for customers in the U.S.A. and Canada

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. This marking is located on the rear exterior.

Except for the U.S.A., Canadian, Australian and New Zealand models

The nameplate is located on the bottom exterior.

Notice for the customers in the U.S.A.

CAUTION

The following CAUTION marking is located on the rear exterior.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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.

Owner's Record

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

Model No. _____
Serial No. _____

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.

The following FCC statement applies only to the version of this model manufactured for sale in the U.S.A. Other versions may not comply with FCC technical regulations.

NOTE:

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.
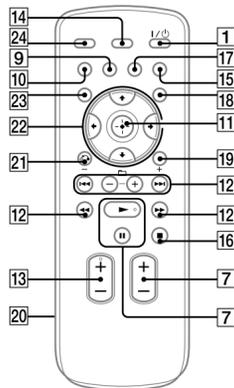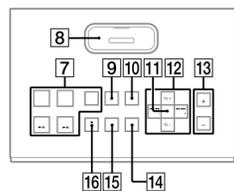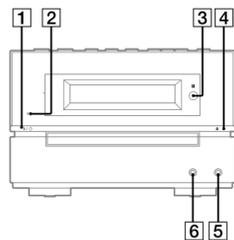
CAUTION

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

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

All other trademarks and registered trademarks are of their respective holders. In this manual, ™ and ® marks are not specified.
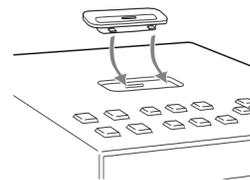
Hooking up the system securely

Antennas
Find a location and an orientation that provide good reception, and then set up the antenna. Keep the antennas away from the speaker cords and the power cord to avoid picking up noise.

AM loop antenna

ANTENNA
AM
COAXIAL

FM lead antenna (Extend it horizontally.)

SPEAKER

Speaker cord (Red/⊕)
Left speaker
Speaker cord (Black/⊖)
Right speaker

Speakers
Insert only the stripped portion of the cord.

White side for North American model

or

Brown side for other regions

VOLTAGE SELECTOR
230-240V
220V
120V

Power
For models with a voltage selector, set VOLTAGE SELECTOR to the local power line voltage.

Connect the power cord to a wall socket.
If the plug does not fit the wall socket, detach the supplied plug adaptor (only for models equipped with an adaptor).

Wall socket

When carrying this system

1 Remove a disc to protect the CD mechanism.
2 Press FUNCTION +/− (or FUNCTION on the unit) ⑦ repeatedly to select the CD function.
3 Hold down VOL + ⑬ and DSGX ⑮ on the unit, and press ⏏ ④ on the unit until "STANDBY" appears.
4 After "LOCK" appears, unplug the power cord.

Basic Operations

This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.

Before using the system

To use the remote
Slide and remove the battery compartment lid ⑳, and insert the two supplied R6 (size AA) batteries, ⊖ side first, matching the polarities shown below.

Notes on using the remote
• With normal use, the batteries should last for about six months.
• Do not mix an old battery with a new one or mix different types of batteries.
• If you do not use the remote for a long period of time, remove the batteries to avoid damage from battery leakage and corrosion.

To set the clock
Use buttons on the remote to set the clock.

1 Turn on the system.
   Press I/Ⓞ (power) ①.
2 Select the clock set mode.
   Press TIMER MENU ⑱. If the current mode appears on the display, press ♦/♦ ㉒ repeatedly to select "CLOCK SET?" and then press ⓞ (enter) ⑪.
3 Set the time.
   Press ♦/♦ ㉒ repeatedly to set the hour, and then press ⓞ (enter) ⑪. Use the same procedure to set the minutes.
   The clock settings are lost when you disconnect the power cord or if a power failure occurs.
   To display the clock when the system is off, press DISPLAY ⑭. The clock is displayed for about 8 seconds.

Playing a CD/MP3 disc

1 Select the CD function.
   Press FUNCTION +/− (or FUNCTION on the unit) ⑦ repeatedly.
2 Place a disc.
   Press ⏏ (open/close) ④ on the unit, and place a disc with the label side up on the disc tray.

To close the disc tray, press ⏏ (open/close) ④ on the unit.
Do not force the disc tray closed with your finger, as this may damage the unit.

3 Start playback.
   Press ► (play) (or CD ►II (play/pause) on the unit) ⑦.

To	Press
Pause playback	II (pause) (or CD ►II (play/pause) on the unit) ⑦. To resume play, press the button again.
Stop playback	■ (stop) (or ■/CANCEL on the unit) ⑯.
Select a folder on an MP3 disc	⌂ +/− (select folder) ⑫.
Select a track or file	I◄◄/►►I (go back/go forward) ⑫.
Find a point in a track or file	Hold down ◄◄/►► (rewind/ fast forward) ⑫ during playback, and release the button at the desired point.
Select Repeat Play	REPEAT ⑨ repeatedly until "REP" or "REP1" appears.

To change the play mode
Press PLAY MODE ⑩ repeatedly while the player is stopped. You can select normal play ("⌂") for all MP3 files in the folder on the disc, shuffle play ("SHUF" or "⌂ SHUF*"), or program play ("PGM").
* When playing a CD-DA disc, ⌂ (SHUF) Play performs the same operation as normal (shuffle) play.

Notes on Repeat Play
• All tracks or files on a disc are played repeatedly up to five times.
• "REP1" indicates that a single track or file is repeated until you stop it.

Notes on playing MP3 discs
• Do not save other types of tracks or files or unnecessary folders on a disc that has MP3 files.
• Folders that have no MP3 files are skipped.
• MP3 files are played back in the order that they are recorded onto the disc.
• The system can only play MP3 files that have a file extension of ".MP3".
• If there are files on the disc that have the ".MP3" file extension, but that are not MP3 files, the unit may produce noise or may malfunction.
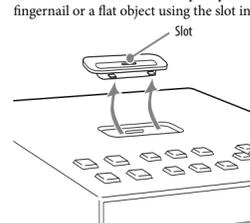
To use the iPod
Insert an iPod Dock Adapter into the unit's connector ⑧ before use.
For details on the supplied iPod Dock Adapters, refer to the instructions supplied with the Dock Adapters.

To remove the iPod Dock Adapter, pull it up with your fingernail or a flat object using the slot inside the adapter.

Slot

Notes on playing multisession discs
• If the disc begins with a CD-DA (or MP3) session, it is recognized as a CD-DA (or MP3) disc, and other sessions are not played back.
• A disc with a mixed CD format is recognized as a CD-DA (audio) disc.

Listening to the radio

1 Select "TUNER FM" or "TUNER AM."
   Press FUNCTION +/− (or FUNCTION on the unit) ⑦ repeatedly.
2 Select the tuning mode.
   Press TUNING MODE ⑩ repeatedly until "AUTO" appears.
3 Tune in the desired station.
   Press +/− (or TUNE +/− on the unit) ⑫. Scanning stops automatically when a station is tuned in, and then "TUNED" and "STEREO" (for stereo programs only) appear.

To stop automatic scanning
Press ■ (stop) (or ■/CANCEL on the unit) ⑯.

To tune in a station with a weak signal
If "TUNED" does not appear and the scanning does not stop, press TUNING MODE ⑩ repeatedly until "AUTO" and "PRESET" disappear, and then press +/− (or TUNE +/− on the unit) ⑫ repeatedly to tune in the desired station.

To reduce static noise on a weak FM stereo station
Press FM MODE ⑨ repeatedly until "MONO" appears to turn off stereo reception.

Adjusting the sound

To adjust the volume
Press VOLUME +/− (or VOL +/− on the unit) ⑬.

To add a sound effect

To	Press
Generate a more dynamic sound (Dynamic Sound Generator X-tra)	DSGX ⑮ on the unit.
Set the sound effect	EQ ⑮ repeatedly to select "BASS" or "TREBLE," and then press +/− ⑫ repeatedly to adjust the level.

Playing the iPod

1 Select the iPod function.
   Press FUNCTION +/− (or FUNCTION on the unit) ⑦ repeatedly.
2 Place the iPod.

3 Start playback.
   Press ► (play) (or iPod ►II (play/pause) on the unit) ⑦.

To control the iPod
You can control your iPod with the following buttons on the remote or unit.

To	Press
Pause playback	II (pause) (or iPod ►II (play/pause) on the unit) ⑦ or ■ (stop) ⑯.
Scroll up/down the iPod menus	♦/♦ ㉒. You can scroll up or down the iPod menus much like the Click Wheel operations of the iPod or the drag up-or-down operations of the iPod touch.
Select a track or chapter of audiobook/podcast	I◄◄/►►I (go back/go forward) ⑫. To fast-forward or fast-rewind, hold down the button.
Choose the selected item	ⓞ ㉒/ⓞ (enter) or ENTER on the unit) ⑪. You can choose the selected item much like the center button on the iPod or the touch operation of the iPod touch.
Find a point in a track or chapter of audiobook/podcast	◄◄/►► (fast rewind/fast forward) ⑫ during playback, and release the button at the desired point.
Return to the previous menu or select a menu	♦ ㉒/TOOL MENU ⑲/↩ (return) ㉑. You can return to the previous menu or select a menu much like the Menu button on the iPod or the touch operation of the iPod touch.

To use the system as a battery charger
You can use the system as a battery charger for the iPod when the system is both on and off.
The charging begins when the iPod is placed on the unit's connector ⑧. The charging status appears in the iPod display. For details, see the user's guide of your iPod.

To stop charging the iPod
Remove the iPod. If you stop charging the iPod when the system is off, press DISPLAY ⑭ until the clock disappears in the display.

Notes
• When placing or removing the iPod, handle the iPod in the same angle as that of the iPod connector ⑧ on the unit and do not twist or sway the iPod to prevent connector damage.
• Do not carry the unit with an iPod set on the connector. Doing so may cause a malfunction.
• When placing or removing the iPod, brace the unit with one hand and take care not to press the controls of the iPod by mistake.
• Before disconnecting the iPod, pause playback.
• While playing video, you cannot use ◄◄/►► ⑫. You can fast rewind (fast forward) by holding down I◄◄/►►I ⑫.
• To change the volume level, use VOLUME +/− (or VOL +/− on the unit) ⑬. The volume level does not change even if adjusted on the iPod.
• This system is designed for iPod only. You cannot connect any other portable audio players.
• To use an iPod, refer to the user's guide of your iPod.
• Sony cannot accept responsibility in the event that data recorded to iPod is lost or damaged when using an iPod with this unit.

Changing the display

To	Press
Change information on the display[1]	DISPLAY ⑭ repeatedly when the system is on.
Check the clock when the system is off[2]	DISPLAY ⑭ when the system is off[2]. The clock is displayed for 8 seconds.

[1] For example, you can view CD/MP3 disc information, such as;
   —track or file number during normal play.
   —track or file name ("♫") during normal play.
   —artist name ("👤") during normal play.
   —album or folder name ("⌂") during normal play.
   —total playing time while the player is stopped.
[2] The clock is displayed continuously while the iPod is being charged. To turn off the clock display, press DISPLAY ⑭ (See "To stop charging the iPod").
[3] The STANDBY indicator ② on the unit lights up when the system is off.

Notes on the display information
• Characters that cannot be displayed appear as "_".
• The following are not displayed:
   —total playing time for a CD-DA disc depending on the play mode.
   —total playing time and remaining playing time for an MP3 disc.
• The following are not displayed correctly:
   —folder and file names that do not follow either ISO9660 Level 1, Level 2 or Joliet in the expansion format.
• The following is displayed:
   —ID3 tag information for MP3 files when ID3 version 1 and version 2 tags are used (up to 62 characters).
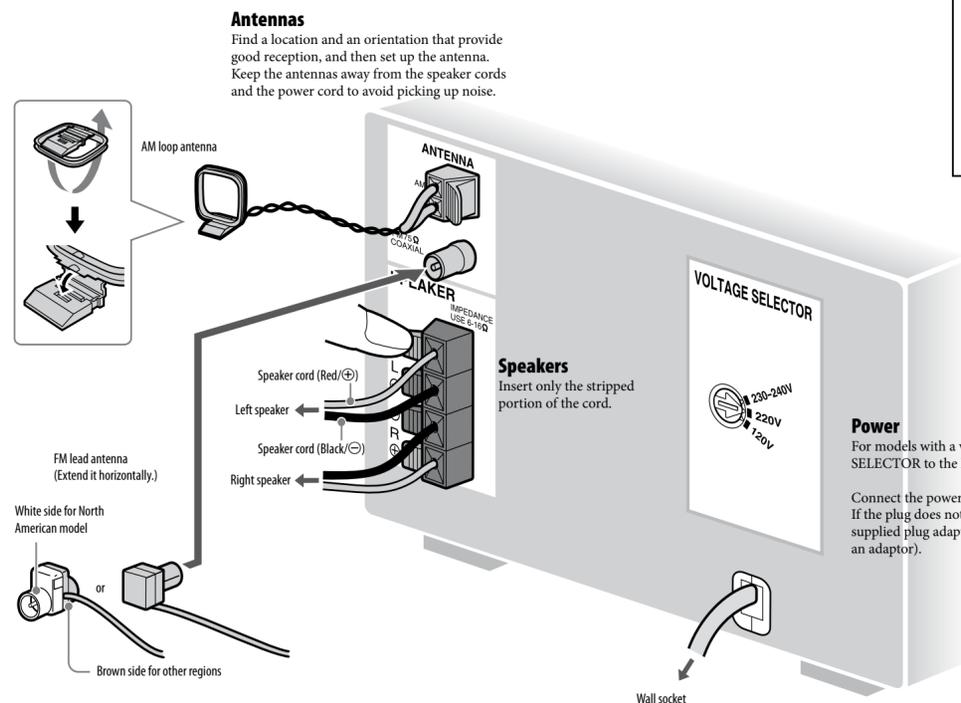
Using optional audio components

To connect an optional headphones
Connect headphones to the PHONES jack ⑥ on the unit.

To connect an optional component
Connect additional audio component to the AUDIO IN jack ⑤ on the unit using an audio analog cord (not supplied). Turn down the volume on the system, and then select the AUDIO IN function.

• The maximum number of:
   —folders is 255 (including the root folder).
   —MP3 files is 511.
   —MP3 files and folders that can be contained on a single disc is 512.
   —folder levels (the tree structure of files) is 8.
• Compatibility with all MP3 encoding/writing software, recording device, and recording media cannot be guaranteed. Incompatible MP3 discs may produce noise or interrupted audio or may not play at all.
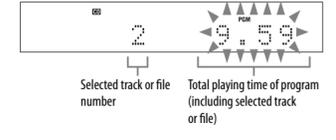
Other Operations

Creating your own program (Program Play)

1 Press FUNCTION +/− (or FUNCTION on the unit) [7] repeatedly to select the CD function.

2 Press PLAY MODE [10] repeatedly until "PGM" appears while the player is stopped.

3 Press �i◄◄/►►i [12] repeatedly until the desired track or file number appears.

When programming files, press ☐ +/− [12] repeatedly to select the desired folder, and then select the desired file.

Selected track or file number

Total playing time of program (including selected track or file)

4 Press ⊙ (or ENTER on the unit) [11] to add the track or file to the program.

"− −.− −" appears when the total program time exceeds 100 minutes for a CD, or when you select a CD track whose number is 21 or over, or when you select an MP3 file.

5 Repeat steps 3 through 4 to program additional tracks or files, up to a total of 25 tracks or files.

6 To play your program of tracks or files, press ► (or CD ►▌▌ on the unit) [7].

The program remains available until you open the disc tray. To play the same program again, press ► (or CD ►▌▌ on the unit) [7].

To cancel Program Play
Press PLAY MODE [10] repeatedly until "PGM" disappears while the player is stopped.

To delete the last track or file of the program
Press CLEAR [17] while the player is stopped.

Presetting radio stations

You can preset your favorite radio stations and tune them in instantly by selecting the corresponding preset number.

Use buttons on the remote to preset stations.

1 Tune in the desired station (See "Listening to the radio").

2 Press TUNER MEMORY [23].

Preset number

3 Press +/− [12] repeatedly to select your desired preset number.

If another station is already assigned to the selected preset number, the station is replaced by the new stations.

4 Press ⊙ [11].

5 Repeat steps 1 through 4 to store other stations.

You can preset up to 20 FM and 10 AM stations. The preset stations are retained for about half a day even if you disconnect the power cord or if a power failure occurs.

6 To call up a preset radio station, press TUNING MODE [10] repeatedly until "PRESET" appears, and then press +/− [12] repeatedly to select the desired preset number.

Using the Timers

The system offers two timer functions. If you use the Play Timer with the Sleep Timer, the Sleep Timer has priority. Use buttons on the remote to use the timer functions.

Sleep Timer:
You can fall asleep to music. This function works even if the clock is not set.
Press SLEEP [24] repeatedly. If you select "AUTO," the system automatically turns off after the current disc stops or in 100 minutes.

Play Timer:
You can wake up to CD, tuner or iPod at a preset time.
Make sure you have set the clock.

1 Prepare the sound source.

Prepare the sound source, and then press VOLUME +/− [13] to adjust the volume.
To start from a specific track or file, create your own program.

2 Press TIMER MENU [18].

3 Press ♦/♦ [22] repeatedly to select "PLAY SET?," and then press ⊙ [11].

"ON" appears, and the hour indication flashes.

4 Set the time to start playback.

Press ♦/♦ [22] repeatedly to set the hour, and then press ⊙ [11].

The minute indication flashes. Use the procedure above to set the minutes.

5 Use the same procedure as in step 4 to set the time to stop playback.

6 Select the sound source.

Press ♦/♦ [22] repeatedly until the desired sound source appears, and then press ⊙ [11]. The display shows the timer settings.

7 Press I/᪦ [1] to turn off the system.

The system turns on 15 seconds before the preset time. If the system is on at the preset time, the Play Timer will not play.

To activate or check the timer again

1 Press TIMER MENU [18].

"TIMER SEL?" flashes in the display.

2 Press ⊙ [11].

3 Press ♦/♦ [22] repeatedly to select "PLAY SEL?," then press ⊙ [11].

To cancel the timer
Repeat the same procedure as above until "TIMER OFF?" appears in step 3, and then press ⊙ [11].

To change the setting
Start over from step 1.

Note on the iPod touch user
The Play Timer may not be activated depending on the status of the connected iPod touch.

Tip
The Play Timer setting remains as long as the setting is not canceled manually.

Troubleshooting

1 Make sure the power cord and speaker cords are correctly and firmly connected.

2 Find your problem in the checklist below, and take the indicated corrective action.

If the issue persists, contact your nearest Sony dealer.

If the STANDBY indicator flashes

Immediately unplug the power cord, and check the following items.

- If your system has a voltage selector, is the voltage selector set to the correct voltage?
- Are you using only the supplied speakers?
- Is anything blocking the ventilation holes on the top or back of the system?
- Is the iPod connector [8] short-circuited?

After the STANDBY indicator [2] stops flashing, reconnect the power cord, and turn on the system. If the issue persists, contact your nearest Sony dealer.

General

Sound comes from one channel, or the left and right volumes are unbalanced.
- Place the speakers as symmetrically as possible.
- Connect only the supplied speakers.

Severe hum or noise.
- Move the system away from sources of noise.
- Connect the system to a different wall socket.
- Install a noise filter (available separately) to the power cord.

The remote does not function.
- Remove any obstacles between the remote and the remote sensor [3] on the unit, and position the unit away from fluorescent lights.
- Point the remote at the system's sensor.
- Move the remote closer to the system.

CD/MP3 player

The sound skips, or the disc will not play.
- Wipe the disc clean, and replace it.
- Move the system to a location away from vibration (for example, on top of a stable stand).
- Move the speakers away from the system, or place them on separate stands. At high volume, speaker vibration may cause the sound to skip.

Play does not start from the first track.
- Press PLAY MODE [10] repeatedly until both "PGM" and "SHUF" disappear to return to normal play.

Starting playback takes more time than usual.
- The following discs take a longer time to start playback.
  − a disc recorded with a complicated tree structure.
  − a disc recorded in multisession mode.
  − a disc that has not been finalized (a disc to which data can be added).
  − a disc that has many folders.

Tuner

Severe hum or noise, or stations cannot be received. ("TUNED" or "STEREO" flashes on the display.)
- Connect the antenna properly.
- Find a location and an orientation that provide good reception, and then set up the antenna again.
- Keep the antenna away from the speaker cords and the power cord to avoid picking up noise.
- Connect a commercially available external antenna.
- Consult your nearest Sony dealer if the supplied AM antenna has come off the plastic stand.
- Turn off nearby electrical equipment.

To change the AM tuning interval

The AM tuning interval is factory-preset to 9 kHz (or 10 kHz, for some areas).
Use buttons on the unit to change the AM tuning interval.

1 Tune in any AM station, and then turn off the system.

2 While holding down ENTER [11], press I/᪦ [1].

All the AM preset stations are erased. To reset the interval to the factory preset, repeat the procedure.

To improve tuner reception

Turn off CD player power by using the CD power management function. By default, CD power is turned on.

1 Press FUNCTION +/− (or FUNCTION on the unit) [7] repeatedly to select the CD function, and then turn off the system.

2 After "STANDBY" stops flashing, press I/᪦ [1] on the unit while holding down ▌/CANCEL [16] on the unit.

"CD POWER OFF" appears. With CD player power turned off, disc access time is increased. To turn on CD player power, repeat the procedure until "CD POWER ON" appears.

To reset the system to factory settings

If the system still does not operate properly, reset the system to factory settings.
Use buttons on the unit to reset the unit to its factory default settings.

1 Disconnect and reconnect the power cord, and then turn on the system.

2 Press I/᪦ [1], VOL + [13] and ▌/CANCEL [16] at the same time.

All user-configured settings, such as preset radio stations, timer, and the clock, are deleted.

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iPod

There is no sound.
- Make sure the iPod is connected securely.
- Make sure the iPod is playing music.
- Adjust the volume.

The sound is distorted.
- Turn down the volume.
- Set the "EQ" setting of the iPod to "Off" or "Flat."

The iPod cannot be charged.
- Make sure the iPod is connected securely.

Messages

CD Over: You have reached the end of the disc while pressing ►► [12] during playback or pause.
Complete: The preset operation ended normally.
LOCKED: The disc tray does not open. Contact your nearest Sony dealer.
No Disc: There is no disc in the system, or you have loaded a disc that cannot be played.
No Step: All of the programmed tracks or files have been erased.
Push STOP!: You pressed PLAY MODE [10] during playback.
Reading: The system is reading information of the disc. Some buttons are not available.
Step Full!: You tried to program more than 26 tracks or files (steps).
TIME NG!: The Play Timer start and end times are set to the same time.

Precautions

Discs that this system CAN play
- Audio CD
- CD-R/CD-RW (audio data/MP3 files)

Discs that this system CANNOT play
- CD-ROM
- CD-R/CD-RW other than those recorded in music CD format or MP3 format conforming to ISO9660 Level 1/Level 2, Joliet or multisession
- CD-R/CD-RW recorded in multisession that have not ended by "closing the session"
- CD-R/CD-RW of poor recording quality, CD-R/CD-RW that have scratches or are dirty, or CD-R/CD-RW recorded with an incompatible recording device
- CD-R/CD-RW which is finalized incorrectly
- Discs containing files other than MPEG 1 Audio Layer-3 (MP3) files
- Discs of non-standard shape (for example, heart, square, star)
- Discs that have adhesive tape, paper, or sticker attached to them
- Rental or used discs with attached seals where the glue extends beyond the seal
- Discs that have labels printed using ink that feels tacky when touched

Notes on discs
- Before playing, wipe the disc with a cleaning cloth from the center out to the edge.
- Do not clean discs with solvents, such as benzine thinner, or commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose discs to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

Note on DualDiscs
A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

Music discs encoded with copyright protection technologies
This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

On safety
- Completely disconnect the power cord (mains lead) from the wall socket (mains) if it is not going to be used for an extended period of time. When unplugging the unit, always grip the plug. Never pull the cord itself.
- Should any solid object or liquid get into the system, unplug the system, and have it checked by qualified personnel before operating it again.
- The AC power cord can be changed only by a qualified service facility.

On placement
- Do not place the system in an inclined position or in locations that are extremely hot, cold, dusty, dirty, or humid or lacking adequate ventilation, or subject to vibration, direct sunlight or a bright light.
- Be careful when placing the unit or speakers on surfaces that have been specially treated (for example, with wax, oil, polish) as staining or discoloration of the surface may result.
- If the system is brought directly from a cold to a warm location or is placed in a very damp room, moisture may condense on the lens inside the CD player, and cause the system to malfunction. In this situation, remove the disc, and leave the system turned on for about an hour until the moisture evaporates.

On heat buildup
- Heat buildup on the unit during operation is normal and is not cause for alarm.
- Do not touch the cabinet if it has been used continuously at a high volume because the cabinet may have become hot.
- Do not obstruct the ventilation holes.

On the speaker system
This speaker system is not magnetically shielded, and the picture on nearby TV sets may become magnetically distorted. In this situation, turn off the TV, wait 15 to 30 minutes, and turn it back on.
If there is no improvement, move the speakers far away from the TV.

Cleaning the cabinet
Clean this system 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 thinner, benzine, or alcohol.

Specifications

Main unit
AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
(The United States model only)
With 6 ohm loads, both channels driven, from 120 − 10,000 Hz; rated 25 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section
DIN power output (rated):
  18 + 18 W (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference): 25 + 25 W (6 ohms at 1 kHz, 10% THD)

Inputs
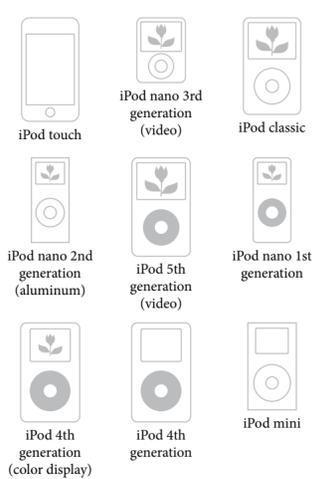AUDIO IN (stereo mini jack): voltage 250 mV, impedance 47 kilohms

Outputs
PHONES (stereo mini jack): accepts headphones of 8 ohms or more
SPEAKER: accepts impedance of 6 to 16 ohms

CD player section
System: Compact disc and digital audio system
Laser Diode Properties
  Emission Duration: Continuous
  Laser Output*: Less than 44.6μW
  * This output is the value measurement at a distance of 200mm from the objective lens surface on the Optical Pick-up Block with 7mm aperture.
Frequency response: 20 Hz − 20 kHz
Signal-to-noise ratio: More than 90 dB
Dynamic range: More than 90 dB

Tuner section
FM stereo, FM/AM superheterodyne tuner
FM tuner section:
  Tuning range:
  North American model: 87.5 − 108.0 MHz (100 kHz step)
  Other models: 87.5 − 108.0 MHz (50 kHz step)
  Antenna: FM lead antenna
  Antenna terminals: 75 ohms unbalanced
  Intermediate frequency: 10.7 MHz
AM tuner section:
  Tuning range:
  North American model:
  530 − 1,710 kHz (with 10 kHz tuning interval)
  531 − 1,710 kHz (with 9 kHz tuning interval)
  Australian model:
  531 − 1,710 kHz (with 9 kHz tuning interval)
  530 − 1,710 kHz (with 10 kHz tuning interval)
  Other models:
  531 − 1,602 kHz (with 9 kHz tuning interval)
  530 − 1,610 kHz (with 10 kHz tuning interval)
  Antenna: AM loop antenna, external antenna terminal
  Intermediate frequency: 450 kHz

iPod section
Compatible iPod models:

iPod touch

iPod nano 3rd generation (video)

iPod classic

iPod nano 2nd generation (aluminum)

iPod 5th generation (video)

iPod nano 1st generation

iPod 4th generation (color display)

iPod 4th generation

iPod mini

Speaker
Speaker system: Full-range, bass-reflex, 10 cm, cone type
Rated impedance: 6 ohms
Dimensions (w/h/d): Approx. 140 × 245 × 215 mm
Mass: Approx. 1.9 kg

General
Power requirements:
  North American model: 120 V AC, 60 Hz
  Australian model: 230 − 240 V AC, 50/60 Hz
  Other models: 120 V AC, 220 V, 230 − 240 V AC, 50/60 Hz, adjustable with voltage selector
Power consumption: 63 watts
Dimensions (w/h/d) (excl. speakers): Approx. 215 × 140 × 298 mm
Mass (excl. speakers): Approx. 3.9 kg

Supplied accessories: Remote Commander (1)/R6 (Size AA) batteries (2)/AM loop antenna (1)/FM lead antenna (1)/iPod Dock Adapters (1 set) (North American model only)

Design and specifications are subject to change without notice.

- Standby power consumption: 0.5 W
- Halogenated flame retardants are not used in the certain printed wiring boards.
- Halogenated flame retardants are not used in cabinets. (Except for the United States model)