# SONY.

# *FM/AM Compact Disc Player*

### Operating Instructions \_\_

US

### **Owner's Record**

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

Model No. \_\_\_\_\_ Serial No. \_

For installation and connections, see the supplied installation/connections manual.



CDX-4000X CDX-4005

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## 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.

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

### CAUTION

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

## **Precautions**

- If your car was parked in direct sunlight resulting in a considerable rise in temperature inside the car, allow the unit to cool off before operating it.
- If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
- If your car is equipped with a power antenna, it will extend automatically while the unit is operating.

If you have any questions or problems concerning your unit that are not covered in this manual, please consult your nearest Sony dealer.

### **Moisture Condensation**

On a rainy day or in a very damp area, moisture may condense on the lenses inside the unit. Should this occur, the unit will not operate properly. In such a case, remove the disc and wait for about an hour until the moisture has evaporated.

### To maintain high quality sound

If you have drink holders near your audio equipment, be careful not to splash juice or other soft drinks onto the unit and CD. Sugary residues on the unit or CD may contaminate the lenses inside the unit, reduce the sound quality, or prevent sound reproduction altogether.

### Welcome !

Thank you for purchasing the Sony Compact Disc Player. This unit lets you enjoy a variety of features using the following controller accessory:

### **Optional accessory**

Rotary commander RM-X4S

### **Notes on CDs**

A dirty or defective disc may cause sound dropouts while playing. To enjoy optimum sound, handle the disc as follows. Handle the disc by its edge. To keep the disc clean, do not touch the surface.



Do not stick paper or tape on the disc.

Do not expose the discs to direct sunlight or heat sources such as hot air-ducts, or leave them in a car parked in direct sunlight where there can be a considerable rise in temperature inside the car.



Before playing, clean the discs with an optional cleaning cloth. Wipe each disc from the center out.



Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog discs.

### Notes on discs

If you use the discs explained below, the sticky residue can cause the CD to stop spinning and may cause malfunction or ruin your discs.

Do not use second-hand or rental CDs that have a sticky residue on the surface (for example, from peeled-off stickers or from ink, or glue leaking from under the stickers).

There are paste residue. Ink is sticky.



Do not use rental CDs with old labels that are beginning to peel off.

Stickers that are beginning to peel away, leaving a sticky residue.



Do not use your CDs with labels or stickers attached.

Labels are attached.



### **Notes on CD-R discs**

- You can play CD-Rs (recordable CDs) on this unit. However depending on the conditions of the recording equipment or the CD-R disc itself, some CD-Rs cannot be played on this unit.
- You cannot play a CD-R that is not finalized (Finalization is necessary for a recorded CD-R disc to be played on the audio CD player).
- You cannot play CD-RWs (rewritable CDs) on this player.

### When you play 8 cm (3 in.) CDs

Use the optional Sony compact disc single adaptor (CSA-8) to protect the CD player from damage.

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## Location of controls



Refer to the pages listed for details.

- 1 Volume control dial
- **2** MENU button 7, 9, 10, 11, 12, 13, 16
- (eject) button (located on the front side of the unit behind the front panel)
   8
- DISC/PRST +/- (cursor up/down) buttons 7, 9, 10, 11, 12, 13, 16

During radio reception: Preset stations select 11

- 5 DSPL (display mode change) button 8, 9, 13
- 6 MODE button

During radio reception: BAND select 10

- SOURCE (TUNER/CD) button 7, 8, 9, 10, 11
- 8 Display window
- 9 OPEN button 6, 8, 17
- 10 D-BASS button 16
- 11 SOUND button 15
- Reset button (located on the front side of the unit behind the front panel) 6

- 18 OFF button\*1 6, 7, 8
- SEEK/AMS -/+ (cursor left/right) buttons
   7, 9, 11, 12, 15, 16
   Automatic Music Sensor 9
   Manual Search 9
   Seek 11

Frequency select switch (located on the bottom of the unit)\*<sup>2</sup> The AM (FM) tuning interval is factory-set to the 10 k (200 k) position. Make sure that the 9 k (50 k) position is selected.

- 16 ENTER button 7, 9, 10, 11, 12, 13, 16
- 17 Number buttons

During radio reception: Preset number select 11

During CD playback: 1 REP 10 2 SHUF 10

- \*' Warning when installing in a car without ACC (accessory) position on the ignition key switch Be sure to press OFF on the unit for two seconds to turn off the clock display after turning off the engine.
   When you press OFF momentarily, the clock display does not turn off and this causes battery wear.
- \*<sup>z</sup> CDX-4005 only



### **Resetting the unit**

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.

Remove the front pannel and press the reset button with a pointed object, such as a ballpoint pen.



Reset button

#### Note

Pressing the reset button will erase the clock setting and some memorized functions such as the station memo.

### **Detaching the front panel**

You can detach the front panel of this unit to protect the unit from being stolen.

- 1 Press OFF).
- 2 Press OPEN, then slide the front panel to the right side, and pull out the left side of the front panel.



#### Notes

- Do not put anything on the inner surface of the front panel.
- Be sure not to drop the panel when detaching it from the unit.
- If you detach the panel while the unit is still turned on, the power will turn off automatically to prevent the speakers from being damaged.
- When carrying the front panel with you, use the supplied front panel case.

### Attaching the front panel

Place the hole (A) in the front panel onto the spindle (B) on the unit as illustrated, then push the left side in.



#### Notes

- Be careful not to attach the front panel upside down.
- Do not press the front panel too hard against the unit when attaching it.
- Do not press too hard or put excessive pressure on the display window of the front panel.
- Do not expose the front panel to direct sunlight or heat sources such as hot air ducts, and do not leave it in a humid place. Never leave it on the dashboard of a car parked in direct sunlight or where there may be a considerable rise in temperature.

### **Caution alarm**

If you turn the ignition key switch to the OFF position without removing the front panel, the caution alarm will beep for a few seconds. If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.

## Turning the unit on/off

### **Turning on the unit**

Press (SOURCE) or insert a CD in the unit. For details on operation, refer to page 8 (CD player) and page 10 (radio).

### Turning off the unit

Press OFF) to stop CD/MD playback or FM/ AM reception (the key illumination and display remain on). Press OFF) for two seconds to completely turn the unit off.

### Note

If your car has no ACC position on the ignition key switch, be sure to turn the unit off by pressing OFF for two seconds to avoid car battery wear.

### How to use the menu

This unit is operated by selecting items from a menu.

To select, first enter the menu mode and choose up/down ((+)/(-) of (PRST)), or choose left/right ((-)/(+) of (SEEK/AMS)).



# Setting the clock

The clock uses a 12-hour digital indication.

Example: To set the clock to 10:08

Press (MENU), then press either side of (PRST) repeatedly until "CLOCK" appears.



Press (ENTER).



The hour indication flashes.

Press either side of (PRST) to set the hour.



**3** Press (+) side of (SEEK/AMS).



The minute indication flashes.

Press either side of (PRST) to set the minute.



2 Press (ENTER).



The clock starts.

After the clock setting is completed, the display returns to normal play mode.

### Note

In the initial setting, the clock indication appears while the unit is turned off. When the D.INFO mode is set to ON, the time is always displayed (page 16).



## Listening to a CD

**1** Press OPEN and insert the CD.



## 2 Close the front panel.

Playback starts automatically.

If a CD is already inserted, press (SOURCE) repeatedly until "CD" appears to start playback.



Track number

Elapsed playing time

# When the last track on the CD is over

The track number indication returns to "1," and playback restarts from the first track of the CD.

То	Press	_
Stop playback	OFF	
Eject the CD	OPEN) then	_

### Changing the display item

Each time you press (DSPL) during CD TEXT disc playback, the item changes as follows:



- \*1 If you play a CD TEXT disc, the artist name appears in the display after the disc name. (Only for CD TEXT discs with the artist name.)
- \*2 If the track name of a CD TEXT disc is not prerecorded, "TRACK" and "NO NAME" appear in the display.

After you select the desired item, the display will automatically change to the Motion Display mode after a few seconds. In the Motion Display mode, all the items are scrolled in the display one by one in order.

### Tip

The Motion Display mode can be turned off. (See "Changing the sound and display settings" on page 16.)

### Automatically scrolling a disc name — Auto Scroll

If the disc name, artist name, or track name on a CD TEXT disc exceeds eight characters and the Auto Scroll function is on, information automatically scrolls across the display as follows:

- The disc name appears when the disc has changed (if the disc name is selected as the display item).
- The track name appears when the track has changed (if the track name is selected as the display item).
- The disc or track name appears depending on the setting when you press (SOURCE) to select CD TEXT disc.

If you press (DSPL) to change the display item, the disc or track name of the CD TEXT disc is scrolled automatically whether you set the function on or off.

- **1** During playback, press (MENU).
- 2 Press either side of (PRST) repeatedly until "A.SCRL-OFF" appears.
- **3** Press the (+) side of <u>SEEK/AMS</u> to select "A.SCRL-ON."

### 4 Press (ENTER).

To cancel Auto Scroll, select "A.SCRL-OFF" in step 3.

### Note

For some CD TEXT discs with very many characters, the following cases may happen: --- Some of the characters are not displayed. --- Auto Scroll does not work.

### Locating a specific track

- Automatic Music Sensor (AMS)

During playback, press either side of (SEEK/AMS) momentarily for each track you want to skip.



### Locating a specific point in a track — Manual Search

During playback, press and hold either side of (SEEK/AMS). Release when you have found the desired point.



Note

If "LL LL" or "T T" appears in the display, you have reached the beginning or the end of the disc and you cannot go any further.

# Playing a CD in various modes

You can play CDs in various modes:

- REP (Repeat Play) repeats the current track.
- SHUF (Shuffle Play) plays all the tracks in random order.

### Playing tracks repeatedly

— Repeat Play

During playback, press (1) (REP).



Repeat Play starts.

To return to normal play mode, select "REP-OFF."

### Playing tracks in random order

- Shuffle Play

During playback, press 2 (SHUF).



Shuffle Play starts.

To return to normal play mode, select "SHUF-OFF."



# Memorizing stations automatically

### — Best Tuning Memory (BTM)

The unit selects the stations with the strongest signals and memorizes them in the order of their frequencies. You can store up to 6 stations on each band (FM1, FM2, FM3, AM1, and AM2).

### Caution

When tuning in stations while driving, use Best Tuning Memory to prevent accidents.

**1** Press (SOURCE) repeatedly to select the tuner.

Each time you press (SOURCE), the source changes as follows:

Tuner ↔ CD

2 Press (MODE) repeatedly to select the band.

Each time you press (MODE), the band changes as follows:

# → FM1 → FM2 → FM3 → FM3 → AM2 → AM1 → AM1

**3** Press (MENU), then press either side of (PRST) repeatedly until "BTM" appears.

### 4 Press (ENTER).

The unit stores stations in the order of their frequencies on the number buttons. A beep sounds when the setting is stored.

### Notes

- The unit does not store stations with weak signals. If only a few stations can be received, some number buttons will retain their former setting.
- When a number is indicated in the display, the unit starts storing stations from the one currently displayed.
- If a CD is not in the unit, only the tuner band appears even if you press (SOURCE).

# Memorizing only the desired stations

You can preset up to 18 FM stations (6 each for FM1, FM2, and FM3), up to 12 AM stations (6 each for AM1 and AM2) in the order of your choice.

- 1 Press (SOURCE) repeatedly to select the tuner.
- 2 Press (MODE) repeatedly to select the band.
- **3** Press either side of <u>SEEK/AMS</u> to tune in the station that you want to store on the number button.
- Press the desired number button (1) to
  (6) for two seconds until "MEM" appears.

The number button indication appears in the display.

#### Note

If you try to store another station on the same number button, the previously stored station will be erased.

# Receiving the memorized stations

- **1** Press <u>SOURCE</u> repeatedly to select the tuner.
- 2 Press (MODE) repeatedly to select the band.
- **3** Press the number button (1 to 6) on which the desired station is stored.

### Тір

Press either side of (PRST) to receive the stations in the order they are stored in the memory (Preset Search Function).

# If you cannot tune in a preset station

Press either side of (SEEK/AMS) to search for the station (automatic tuning). Scanning stops when the unit receives a station. Press either side of (SEEK/AMS) repeatedly until the desired station is received.

### Note

If the automatic tuning stops too frequently, press (MENU), then press either side of (PRST) repeatedly until "LOCAL" (local seek mode) is displayed. Then press the (+) side of (SEEK/AMS) to select "LOCAL-ON." Press (ENTER). Only the stations with relatively strong signals will be tuned in.

### Tips

- When you select the "LOCAL-ON" setting, "L.SEEK" appears while the unit is searching for a station.
- If you know the frequency of the station you want to listen to, press and hold either side of (SEEK/AMS) until the desired frequency appears (manual tuning).

### If FM stereo reception is poor

- Monaural Mode
- 1 During radio reception, press (MENU), then press either side of (PRST) repeatedly until "MONO-OFF" appears.
- 2 Press the (+) side of <u>SEEK/AMS</u> until "MONO-ON" appears. The sound improves, but becomes monaural ("ST" disappears).
- **3** Press (ENTER).

To return to normal mode, select "MONO-OFF" in step 2.

# Automatical reception frequency adjustment

### - IF AUTO function

If interference occurs, the "IF AUTO" function of this unit will automatically avoid noise and narrow the reception frequency. In such cases, some FM stereo broadcasts may become monaural. If you would like to hear such broadcasts in stereo, manually switch to the "WIDE" setting.

- 1 During radio reception, press (MENU), then press either side of (PRST) repeatedly until \*IF AUTO" appears.
- 2 Press the (+) side of <u>SEEK/AMS</u> until "WIDE" appears.
- **3** Press (ENTER).

### Note

When you widen the frequency signal reception setting ("WIDE" mode), some interference may occur.

# Storing the station names

### — Station Memo

You can assign a name to each radio station and store it in memory. The name of the station currently tuned in appears in the display. You can assign a name of up to eight characters for a station.

### Storing the station names

- Tune in a station whose name you want to store.
- 2 Press (MENU), then press either side of (PRST) repeatedly until "NAME EDIT" appears.
- 3 Press (ENTER).



4 Enter the characters. • Press the (+) side of (PRST)repeatedly to select the desired characters.  $(A \rightarrow B \rightarrow C \rightarrow \cdots Z \rightarrow 0 \rightarrow 1 \rightarrow 2 \rightarrow$   $\cdots 9 \rightarrow + \rightarrow - \rightarrow * \rightarrow / \rightarrow ) \rightarrow > \rightarrow <$  $\rightarrow . \rightarrow _)$ 

If you press the (-) side of (**PRST**) repeatedly, the characters appear in the reverse order. If you want to put a blank space between characters, select "\_" (underbar).

Press the (+) side of <u>SEEK/AMS</u> after locating the desired character. The next character flashes.



If you press the (-) side of (SEEK/AMS), the previous character flashes.

8 Repeat steps 1 and 2 to enter the entire name.

# 5 To return to the normal radio reception, press (ENTER).

Tip

To erase or correct a name, enter "\_" (under-bar) for each character.

### **Displaying the station name**

### Press (DSPL) during radio reception.



Each time you press **DSPL**, the item changes as follows:

### 

\* If the station name of a station is not stored, "NO NAME" appears in the display for one second.

### Erasing the station name

- 1 Tune in a station whose name you want to erase.
- 2 Press (MENU), then press either side of (PRST) repeatedly until "NAME DEL" appears.
- **3** Press (ENTER).
- 4 Press ENTER for two seconds. The name is erased. Repeat steps 1 through 4 if you want to erase other names.

### 5 Press (MENU) twice.

The unit returns to the normal radio reception mode.

### Note

When you erase all of the station names, "NO NAME" appears in step 4.



You can also control the unit with a rotary commander.

# Labeling the rotary commander

Depending on how you mount the rotary commander, attach the appropriate label as shown in the illustration below.



# Using the rotary commander

The rotary commander works by pressing buttons and/or rotating controls.

### By pressing buttons (the SOURCE and MODE buttons)



Each time you press (SOURCE), the source changes as follows: Tuner  $\rightarrow$  CD

Pressing (MODE) changes the operation in the following ways:

Tuner: FM1  $\rightarrow$  FM2  $\rightarrow$  FM3  $\rightarrow$  AM1  $\rightarrow$  AM2

# By rotating the control (the SEEK/AMS control)



# Rotate the control momentarily and release it to:

- Locate a specific track on a disc. Rotate and hold the control until you locate the specific point in a track, then release it to start playback.
- Tune in stations automatically. Rotate and hold the control to find a specific station.

# By pushing in and rotating the control (the PRESET/DISC control)



### Push in and rotate the control to:

• Receive the stations memorized on the number buttons.

### **Other operations**

Rotate the VOL control to adjust the volume.





Press DSPL to display the memorized names.

### Tip

If your car has no ACC (accessory) position on the ignition key switch, be sure to press (OFF) for two seconds to turn off the clock indication after turning off the engine.

### Changing the operative direction

The operative direction of controls is factoryset as shown below.



If you need to mount the rotary commander on the right hand side of the steering column, you can reverse the operative direction.



Press (SOUND) for two seconds while pushing the VOL control.

#### Tip

You can also change the operative direction of these controls with the unit (see "Changing the sound and display settings" on page 16).

# Adjusting the sound characteristics

You can adjust the bass, treble, balance, and fader.

You can store the bass and treble levels independently for each source.

# **1** Select the item you want to adjust by pressing (SOUND) repeatedly.

Each time you press (SOUND), the item changes as follows:

BAS (bass)  $\rightarrow$  TRE (treble)  $\rightarrow$  BAL (left-right)  $\rightarrow$  FAD (front-rear)

2 Adjust the selected item by pressing either side of (SEEK/AMS). When adjusting with the rotary commander, press (SOUND) and rotate the VOL control.

#### Note

Adjust within three seconds after selecting the item.

### Attenuating the sound

**Press** (ATT) on the rotary commander. "ATT-ON" flashes momentarily.

To restore the previous volume level, press (ATT) again.

Тір

When the interface cable of a car telephone is connected to the ATT lead, the unit decreases the volume automatically when a telephone call comes in (Telephone ATT function).

# Changing the sound and display settings

The following items can be set: **SET (setting)** 

- CLOCK (page 8)
- BEEP to turn the beeps on or off.
- RM (Rotary Commander) to change the operative direction of the controls of the rotary commander.
  - Select "NORM" to use the rotary commander as the factory-set position.
  - Select "REV" when you mount the rotary commander on the right side of the steering column.

### DIS (display)

- D.INFO (Dual Information) to display the clock and the play mode at the same time (ON).
- M.DSPL (Motion Display) to turn the motion display on or off.
- A.SCRL (Auto Scroll) (page 10)

### Note

If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be disabled.

**1** Press (MENU).

**2** Press either side of (PRST) epeatedly until the desired item appears.

Each time you press the (-) side of (PRST), the item changes as follows:

 $\begin{array}{l} \mathsf{CLOCK} \dashrightarrow \mathsf{BEEP} \twoheadrightarrow \mathsf{RM} \twoheadrightarrow \mathsf{D.INFO} \twoheadrightarrow \mathsf{M.DSPL} \\ \twoheadrightarrow \mathsf{A.SCRL} \end{array}$ 

### Note

The displayed item will differ depending on the source.

### Тір

You can easily switch among categories ("SET", "DIS", "P/M" (play mode), and "EDT" (edit mode)) by pressing either side of (PRST) for two seconds.

# **3** Press the (+) side of <u>SEEK/AMS</u> to select the desired setting (Example: ON or OFF).

### 4 Press (ENTER).

After the mode setting is complete, the display returns to normal play mode.

## Boosting the bass sound

### — D-bass

You can enjoy a clear and powerful bass sound.

The D-bass function boosts the low and high frequency signal with a sharper curve than conventional bass boost.

You can hear the bass line more clearly even while the vocal volume remains the same. You can emphasize and adjust the bass sound easily with the D-BASS control.



Frequency (Hz)

### Adjusting the bass curve

Press (D-BASS) repeatedly until the desired bass level (1, 2, or 3) appears in the display.

To cancel, select "D.BASS-OFF."

### Note

If the bass sound becomes distorted, select a less effective setting of "D.BASS" or adjust the volume.

# Additional Information

## Maintenance

### **Fuse replacement**

When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.



### Warning

Never use a fuse with an amperage rating exceeding the one supplied with the unit as this could damage the unit.

### **Cleaning the connectors**

The unit may not function properly if the connectors between the unit and the front panel are not clean. In order to prevent this, open the front panel by pressing <u>OPEN</u>, then detach it and clean the connectors with a cotton swab dipped in alcohol. Do not apply too much force. Otherwise, the connectors may be damaged.



Main unit



Back of the front panel

#### Notes

- For safety, turn off the engine before cleaning the connectors, and remove the key from the ignition switch.
- Never touch the connectors directly with your fingers or any metal device.

# **Dismounting the unit**

**1** Press the clip inside the front cover with a thin screwdriver, and gently pry the front cover free.



**2** Repeat step 1 on the left side. The front cover is removed.



**3** Use a thin screwdriver to push in the clip on the left side of the unit, then pull out the left side of the unit until the catch clears the mounting.



4 Repeat step 3 on the right side.



5 Slide the unit out of the mounting.



# Specifications

### **AUDIO POWER SPECIFICATIONS**

POWER OUTPUT AND TOTAL HARMONIC DISTORTION 19 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1% total harmonic distortion.

### **Other specifications**

Sensitivity

30 µV

SystemCompact disc digital audio, systemOutputsSpeaker impedance (sure seal connectors)Signal-to-noise ratio90 dB Prequency response10 - 20,000 Hz Below measurable limit Laser Diode PropertiesSpeaker impedance Matriat4 - 8 ohmsMateriatGaAlAs780 nmSpeaker impedance Matriat50 W × 4 (at 4 ohms)Wavelength780 nmContinuousSpeaker impedance MatriatAudio outputs* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.OutputsAudio outputsFMCDX-4000X 87.5 - 107.9 kHz CDX-4000 kHz switchableCDX-4000 kHz 87.5 - 107.9 kHz (at 200 kHz step) 87.5 - 107.9 kHz (at 200 kHz step) 72.4 dB (mono)Mass Approx. 182 k5 3 k162 mm (hz 400 kHz 80 ht 200 kHz 80 ht 200 kHz 80 ht 200 kHzAntenna terminal requency responseCDX-4000X 530 - 1.710 kHz (at 10 kHz step) 53	CD player section	n	<b>Power amplifier</b>	section
Signal-to-noise ratio       90 dB D - 20,000 Hz Below measurable limit       Speaker impedance Material       4 - 8 ohms Source         Material       GaAlAs         Wavelength       780 nn Continuous       Continuous         Laser output power       Less than 44.6 µW*         * This output is the value measured at a distance of 200 m from the objective lens surface on the Optical Pick-up Block.       Outputs       Audio outputs Power amplifier control lead         Tunner section       Trone controls       Bass 90 dB 1100 Hz Treble 90 dB at 10 Hz Treble 90 dB at 100 Hz Treble 90 dB at 100 Hz         Tuning range       CDX-4000X 87.5 - 107.9 kHz CDX 4005       Treble 90 dB at 100 Hz Treble 90 dB at 100 Hz         FM       Tuning interval: 50 kHz/200 kHz (at 50 kHz step)       Dimensions       Approx. 12 × 53 × 162 mm (7 1/x × 2 × 7 1/4 in) (w/h/d)         Antenna terminal Intermediate frequency Usable sensitivity       8 dB Sd at 400 kHz (at 200 kHz step)       Mass Supplied accessories       Optional accessories         Signal-to-noise ratio Intermediate frequency Intermediate interval: 9 kHz 1000 Hz	System		Outputs	
Frequency response       10 - 20,000 Hz         Wow and flutter       Below measurable limit         Laser Diode Properties       GALAs         Material       GALAs         Wavelength       780 nm         Emission Duration       Continuous         Laser output power       Less than 44.6 µW*         *       This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.       Outputs         Tunner section       CDX-4000X         FM       CDX-4000X         Tuning range       CDX-4000X         87.5 - 107.9 kHz       CDX-4000X         CDX-4000 kHz       Sto H12/200 kHz         So H12/200 kHz       So H12/200 kHz         Gato kHz step)       R7.5 - 107.9 kHz         CDX-4000 kHz       Sto H12/200 kHz         So H12/200 kHz       So H12/200 kHz         Gat SO kHz step)       Approx. 178 x 50 x 183 mm         R7.5 - 107.9 kHz       Gat Ado kHz         So kHz / 200 kHz       So H12/200 kHz         Material       Gat Ado kHz         So kHz / 200 kHz       Approx. 178 x 50 x 183 mm         Got kHz step)       Approx. 178 x 50 x 181 mm         Signal-to-noise ratio       66 dB (stereco),         0.3 % (	Signal-to-noise ratio		Speaker impedance	
Wow and flutter Laser Diode Properties Material     Below measurable limit       Laser Diode Properties Material     GaAlAs       Wavelength     780 nm       Continuous     Continuous       Laser output power     Less than 44.6 µW*       * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.     Outputs     Audio outputs Power annulfiler control lead       FM Tuning range     CDX.4000X 87.5 - 107.9 kHz CDX.4005     The control sease and at 100 Hz Treble ±9 dB at 100 Hz       FM Tuning range     CDX.4000X 87.5 - 107.9 kHz CDX.4005     Dimensions     Approx.178 × 50 × 183 mm (7/1/s × 22 × 1/s in.) (w/h/d)       Antenna terminal Intermediate frequency Usable sensitivity     Sto Hiz step) Signal-to-noise ratio Get dB (stereo), 72 dB (mono)     Mass Supplied accessories     Approx. 12 kg (2 lb. 10 oz.) Parts for installation and connections (1 set)       Amtenna terminal Intermediate frequency Usable sensitivity     St dB at 400 kHz Signal-to-noise ratio Get dB (stereo), 72 dB (mono)     Design and specifications are subject to change without notice.       Harmonic distortion at 1 kHz CDX-4005     St dB at 14 Hz Signal-to-noise ratio Get dB (stereo), 72 dB (mono)     St dB at 14 Hz Signal-to-noise ratio Get dB (stereo), 72 dB (mono)       Harmonic distortion at 1 kHz Frequency response     St dB at 14 Hz Signal-to-noise ratio Signal-to-noise ratio Signal-to-noise ratio Signal-to-noise ratio Signal-to-noise	Frequency response	10 - 20,000 Hz		50 W × 4 (at 4 ohms)
Material Wavelength Emission Duration Laser output power     GaAlAs (Continuous Less than 44.6 µW*     Outputs     Audio outputs Power antenna relay control lead       * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.     Outputs     Audio outputs Power antenna relay control lead       Tunner section     Turber section     Treble ±9 dB at 100 Hz Treble ±9 dB at 100 Hz Treble ±9 dB at 100 Hz CDX-4000X     Tone controls       FM Tuning range     CDX-4000X 87.5 - 107.9 kHz CDX-4005     Tone controls     Bass ±9 dB zt 100 Hz Treble ±9 dB at 10 kHz       FM Tuning range     CDX-4000X 87.5 - 107.9 kHz CDX-4005     Dimensions     Approx. 178 × 50 × 183 mm (71/*x 2 2 / x × 6 3 / z lin) (w/h/d)       Antenna terminal Intermediate frequency Usable sensitivity     87.5 - 107.9 MHz (at 20 kHz step) 87.5 - 107.9 MHz (at 20 kHz step)     Mass Approx. 12 kg (2 lb. 10 oz) 9 ron panel case (1)       Antenna terminal Intermediate frequency Usable sensitivity     6 dB (stereo), 0.3 % (mono)     Optional accessories     Rotary commander RM-X4S       AM Tuning range     CDX-4000X 530 - 1.710 kHz (at 9 kHz step)     530 - 1.710 kHz (at 9 kHz step)     Design and specifications are subject to change without notice.       AM Tuning range     CDX-4000X 530 - 1.710 kHz (at 9 kHz step)     Foot NHz       Sign -1.10 kHz (at 9 kHz step)     Sign -1.710 kHz (at 10 kHz step)     External antenna connector 72 dB (mono)       Ferquency response     Sign -1.710 kHz (at 10 kHz step)     External		Below measurable limit	· ·	
Material     Carl/MS       Wavelength     780 nm       Emission Duration     Continuous       Laser output power     Less than 44.6 µW*       *     This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.     Outputs       FM     Turner section       FM     Tuning range       CDX-4000X     87.5 - 107.9 kHz CDX-4005       FM tuning interval: 50 kHz/200 kHz     Outputs       6 kHz/200 kHz     Mounting dimensions       6 kHz/200 kHz     Mounting dimensions       6 kHz/200 kHz     Approx. 182 × 53 × 162 mm (7/1 x 2 2 7 × 10 i.n.) (w/h/d)       Antenna terminal     External antenna connector Incremediate frequency Usable sensitivity       Separation     5 dB at 400 kHz 20 (mono)       Separation     5 dB at 400 kHz 20 (mono)       Separation     5 dB at 400 kHz 20 (b do k)       Separation     5 dB at 400 kHz 20 (b do k)       Signal-to-noise ratio 13 g dHz/10 kHz     6 dB (sterco), 0.3 % (mono)       Separation     5 dB at 400 kHz 3 bit//10 kHz       Signal-to-noise ratio 13 kHz/10 kHz     6 dB (sterco), 0.3 % (mono)       Separation     5 dB at 1kHz       Frequency response     30 - 1.710 kHz       Signal-to-noise ratio     6 dB (sterco), 0.3 % (mono)       Signal-to-noise ratio     5 dB at 1kHz	Laser Diode Properties			
Emission Duration Laser output power       Continuous Less than 44.6 µW*       Power antenna relay control lead         * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.       Power antenna relay control lead         Tunner section       Tuning range       CDX-4000X 87.5 - 107.9 kHz CDX-4005       Tone controls         FM       CDX-400X 100 kHz/200 kHz switchable       Tone controls       Bass ±9 dB at 100 Hz Troble ±9 dB at 10 kHz         6 KHz/200 kHz switchable       CDX-400X 87.5 - 107.9 kHz CDX-4005       Tone controls       Bass ±9 dB at 10 kHz         6 KHz/200 kHz switchable       FM tuning interval: 50 kHz/200 kHz switchable       Mounting dimensions       Approx. 178 x 50 x 183 mm (T/1×z 2X 7 1/4 in.) (w/h/d)         Antenna terminal Intermediate frequency Usable sensitivity Signal-to-noise ratio       B dB fB dB (stereo), 2 dB (mono)       Mass Supplied accessories       Design and specifications are subject to change without notice.         Frequency response       0.3 % (mono) 35 dB at 1 kHz Frequency response       0.3 % (stereo), 2.3 % (mono) 35 dB at 1 kHz cDX-4005 AM tuning interval: 9 kHz/10 kHz kaf bK step) 30 - 1,710 kHz kaf bK step) 30 - 1,700 kHz       Fore transmetrial bK sterial antenna connector				
Laser output power Less than 44.6 µW* * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block. Tuning range CDX-4000X 87.5 - 107.9 kHz CDX-4005 FM tuning interval: 50 kHz/200 kHz tat 50 kHz/200 kHz tat 20 kHz step) Antenna terminal External antenna connector National connector Antenna terminal Laser output power Less than 44.6 µW* Control lead Power amplifier control lead Tome controls Bass ±9 dB at 100 Hz Treble ±9 dB at 10 kHz Power requirements 12 V DC car battery (negative ground) Dimensions Approx. 12 k 53 × 162 mm (7 <sup>1</sup> /4 × 2 × 1 <sup>1</sup> /4 in) Mass Approx. 12 kg (2 lb. 10 oz.) Supplied accessories Parts for installation and connections (1 set) front panel case (1) Optional accessories Rotary commander RM-X4S Design and specifications are subject to change without notice. Antenna terminal Frequency response 30 - 15,000 Hz AM Tuning range CDX-4000X Supplied accessories Sign and specifications are subject to change without notice.			Outputs	Audio outputs
<ul> <li>This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.</li> <li>Tunner Section</li> <li>FM</li> <li>Tuning range</li> <li>CDX-4000X 87.5 - 107.9 kHz CDX-4005</li> <li>FM tuning interval: 50 kHz/200 kHz switchable 87.5 - 107.9 kHz CDX-4005</li> <li>Antenna terminal</li> <li>Harmonic distortion at 1 kHz Frequency response</li> <li>CDX-4000X 80.5 - 107.9 kHz CDX-4005</li> <li>Antenna terminal</li> <li>CDX-4005 CDX-4005</li> <li>CDX-4005 Separation</li> <li>CDX-4005 AM tuning interval: 9 kHz/10 kHz (at 9 kHz step) 530 - 1.710 kHz (at 9 kHz step) 530 - 1.710 kHz (at 10 kHz step) 530 - 1.710 kHz (at 10 kHz step) 530 - 1.710 kHz (at 10 kHz step)</li> <li>CDX-4005 AM tuning interval: 9 kHz/10 kHz</li> <li>CD</li></ul>				Power antenna relay
Inits Output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.teadTunier sectionTelephone ATT control leadFMCDX-4000X $87.5 - 107.9$ kHz CDX-4005Tone controlsBass s9 dB at 100 Hz reble s9 dB at 10 kHz repaire ground)FMCDX-4005 $87.5 - 107.9$ kHz CDX-4005Tone controlsApprox. 178 x 50 x 183 mm ( $7^{1/4} \times 2 \times 7^{1/4}$ in.) ( $w^{1/6}$ )Antenna terminal Intermediate frequency Usable sensitivityExternal antenna connector 72 dB ind 00 kHz (at 50 kHz step)Mass 200 kHz (at 50 kHz step)Antenna terminal Intermediate frequency Usable sensitivityCDX-4000X (10.7 MHz/450 kHz (at 50 kHz step))Mass 200 kHz (at 50 kHz step)Antenna terminal Intermediate frequency (log all to-noise ratioExternal antenna connector 66 dB (stereo), 72 dB (mono)Design and specifications are subject to change without notice.AmCDX-4000X (at 10 kHz switchable S31 - 1.602 kHzConnector (at 10 kHz step)Design and specifications are subject to change without notice.AmCDX-4000X (at 10 kHz (at 10 kHz step)Sa0 - 1.710 kHz (at 10 kHz step)Design and specifications are subject to change without notice.AmCDX-4000X (at 10 kHz step) S30 - 1.710 kHz (at 10 kHz step)CDX-4005 (at 10 kHz step)Am (at 10 kHz step)Antenna terminalCDX-4000X (at 10 kHz step) S30 - 1.710 kHz (at 10 kHz step)CDX-4005 (at 10 kHz step)Am (at 10 kHz step)AmCDX-400X (at 10 kHz step)Sa0 - 1.710	Laser output power	Less than 44.6 µW*		
of 200 mm from the objective lens surface on the Optical Pick-up Block.       Telephone ATT control lead         Tunner section       Tunner section         FM       Tuning range       CDX-4000X 87.5 - 107.9 kHz CDX-4005       Tone controls       Bass 29 dB at 100 Hz Treble ±9 dB at 10 kHz         FM       CDX-4000X 87.5 - 107.9 kHz CDX-4005       Tone controls       Bass 29 dB at 100 Hz Treble ±9 dB at 10 kHz         FM       Tuning interval: switchable       Optional Approx.178 × 50 × 183 mm (71/x × 2/x 71/4 in.) (w/h/d)       Tone controls       Bass 29 dB at 100 Hz Treble ±9 dB at 10 kHz         Antenna terminal       FM tuning interval: switchable       Mass       Approx.12 × 50 × 183 mm (71/x × 2/x 71/4 in.) (w/h/d)         Antenna terminal       External antenna connector 10.7 MHz / 450 kHz       Mass       Approx.12 kg (2 lb. 10 oz.)         Intermediate frequency Usable sensitivity       8 dBf       Mass       Approx.12 kg (2 lb. 10 oz.)         Signal-to-noise ratio       6 dB (stereo), 72 dB (mono)       Optional accessories       Rotary commander RM-X4S         Tuning range       CDX-4000X 530 - 1,710 kHz (at 9 kHz / 10 kHz switchable       Si 31 - 1,602 kHz (at 9 kHz / 10 kHz switchable       Si 31 - 1,602 kHz (at 9 kHz / 10 kHz switchable       Si 31 - 1,602 kHz (at 10 kHz step)         Antenna terminal       External antenna connector       Si 30 - 1,710 kHz (at 10 kHz step)       Si 30 - 1,710 kHz (at 10 kHz step) <t< td=""><td>* This output is the vel</td><td>up many red at a distance</td><td></td><td>Power amplifier control</td></t<>	* This output is the vel	up many red at a distance		Power amplifier control
Interpretation of the control of the				
Tuning sectionFMCDX-4000XTuning rangeCDX-4000X $87.5 - 107.9 \text{ kHz}$ CDX-4005CDX-4005 $87.5 - 107.9 \text{ kHz}$ CDX-4005Antenna terminal Intermediate frequency Usable sensitivityCDX k12 step) $87.5 - 107.9 \text{ kHz}$ (at 20 kHz step)Tone controlsAntenna terminal Intermediate frequency Usable sensitivityCDX k100 kHz $87.5 - 107.9 \text{ kHz}$ (at 200 kHz step)Mass $87.5 - 107.9 \text{ kHz}$ (at 200 kHz step)Antenna terminal Intermediate frequency Usable sensitivityExternal antenna connectorArmonic distortion at 1 kHz Frequency responseCDX k4000X $33.0 - 1.710 \text{ kHz}$ $81.1 - 1.502 \text{ kHz}$ AmTuning rangeCDX k4000X $530 - 1.710 \text{ kHz}$ $81.1 - 1.502 \text{ kHz}$ $81.1 - 1.502 \text{ kHz}$ $81.1 - 1.502 \text{ kHz}$ $83.1 - 1.502 \text{ kHz}$ <b< td=""><td></td><td></td><td></td><td></td></b<>				
Tunier sectionTreble $\pm 9  dB  at 10  kHz$ FMTuning rangeCDX-4000X $87.5 - 107.9  kHz$ CDX-4005 FM tuning interval: $50  kHz  200  kHz$ $switchable$ $87.5 - 107.9  MHz$ $(at 50  kHz  200  kHz$ $switchable$ $87.5 - 107.9  MHz$ $(at 200  kHz  step)$ $87.5 - 107.9  MHz$ $(at 200  kHz  step)$ $(b  dB)$ (b $CDX - 4000  kHz$ $CDX - 400  kHz$ $CDX - 400  kHz$ $CDX - 4000  kZ$ Tuning rangeTreble $\pm 9  dB  at 10  kHz$ $CDX - 4000  kHz$ $(at 0  kHz  step)$ $33  dB  at 1  kHz$ $Frequency responseCDX - 4000  kHz$ $(at 0  kHz  step)$ $530 - 1.710  kHz$ $(at 0  kHz  step)$ $(at 0  kHz  step)$ <b< td=""><td>the Optical Fick-up bi</td><td></td><td><u> </u></td><td></td></b<>	the Optical Fick-up bi		<u> </u>	
FMTuning rangeCDX-4000X 87.5 - 107.9 kHz CDX-4005 FM tuning interval: 50 kHz/200 kHz switchable 87.5 - 109 MHz (at 50 kHz step) SelectivityPower requirements (12 V DC car battery (negative ground) Dimensions12 V DC car battery (negative ground) Approx. 178 × 50 × 183 mm (71/s × 2 × 71/4 in.) (w/h/d)Antenna terminal Intermediate frequency Usable sensitivity Signal-to-noise ratio Harmonic distortion at 1 kHz Frequency responseCDX-4000X 8 (stereo), 0.3 % (mono)Mass 40 kHz 2 (at 20 kHz 2 (b 20 kHz)Approx. 1.2 kg (2 lb. 10 oz.) Parts for installation and connections (1 set) Front panel case (1) Rotary commander RM-X4SAmCDX-4000X 5 30 - 1.710 kHz (at 9 kHz step) Signal - 1.602 kHz (at 9 kHz step) 30 - 1.710 kHz (cDX-4005 AM tuning interval: 9 kHz step) 5 30 - 1.710 kHz (at 10 kHz step) 5 30 - 1.710 kHz (at 10 kHz step) 5 30 - 1.710 kHz (cDX-4005 AM tuning interval: 9 kHz step) 5 30 - 1.710 kHz (at 10 kHz step) (at 10 kHz step) (cDX-4005Parts and specifications are subject to change without notice.			Tone controls	
Tuning rangeCDX-4000X 87.5 - 107.9 kHz CDX-4005Dimensions(negative ground) Approx. 178 × 50 × 183 mm (1'/x ≥ x 2'/x in) (w/h/d)Tuning range87.5 - 107.9 kHz CDX-4005DimensionsApprox. 178 × 50 × 183 mm (1'/x ≥ x 2'/x in) (w/h/d)Antenna terminal Intermediate frequency Usable sensitivity87.5 - 108 MHz (at 50 kHz step)Mass Supplied accessoriesApprox. 12 kg (2 lb. 10 oz.) Parts for installation and connections (1 set) Front panel case (1) Rotary commander RM-X4SAntenna terminal Intermediate frequency Usable sensitivity75 dB at 400 kHz 8 dBfOptional accessories without notice.Parts for installation and connections (1 set) Front panel case (1) Rotary commander RM-X4SAntenna terminal Isignal-to-noise ratio Separation Separation SeparationCDX-4000X 530 - 1.710 kHz CDX-4005 AM tuning interval: 9 kHz / 10 kHz switchable 530 - 1.710 kHz (at 9 kHz step)Design and specifications are subject to change without notice.AM Tuning rangeCDX-4000X 530 - 1.710 kHz (at 9 kHz step) 530 - 1.710 kHz (at 9 kHz step)Supplied accessories 8 dB fAntenna terminalExternal antenna connector 10.7 kHz (at 9 kHz step) 530 - 1.710 kHz (at 10 kHz step)Supplied accessories 8 dB f	Tuner section			
Tuning rangeCDA-4000A $87.5 - 107.9  \text{kHz}$ CDX-4005DimensionsApprox. $178 \times 50 \times 183  \text{mm}$ $(7^{1/8} \times 2 \times 7^{1/4} \text{in.})$ $(w/h/d)$ $50  \text{kHz}/200  \text{kHz}$ switchable $87.5 - 108  \text{MHz}$ $87.5 - 107.9  \text{MHz}$ $(at 50  \text{kHz}  \text{step})$ $87.5 - 107.9  \text{MHz}$ $(at 200  \text{kHz}  \text{step})$ $87.5 - 107.9  \text{MHz}$ $(at 200  \text{kHz}  \text{step})$ Mass $Approx. 128 \times 53 \times 162  \text{mm}$ $(7^{1/4} \times 2^{1/4} \times 6^{1/2} \text{in.})$ $(w/h/d)$ Antenna terminal Intermediate frequency Usable sensitivityBdB $B  \text{dB}$ Mass $Signal-to-noise ratioApprox. 12 kg (2 lb. 10 oz.)Steparation at 1  \text{kHz}0.6 \% (stereo),72  \text{dB} (mono)Design and specifications are subject to changewithout notice.Harmonic distortion at 1 kHzFrequency response0.6 \% (stereo),0.3 \% (mono)Design and specifications are subject to changewithout notice.AMTuning rangeCDX-4000X530 - 1.710  \text{kHz}switchable530 - 1.710  \text{kHz}(at 0  \text{kHz}  \text{step})530 - 1.710  \text{kHz}(at 0  \text{kHz}  \text{step})Antenna terminalExternal antenna connector$	FM		Power requirements	
Antenna terminal $87.5 - 107.9 \text{ kHz}$ CDX-4005DifferisionsApprox $102 \times 30 \times 105 \text{ mm}$ $(7 / 7a \times 20 \times 1^2 / 1 / 10.)$ $(w/h/d)$ Antenna terminal Intermediate frequency Usable sensitivity $87.5 - 107.9 \text{ MHz}$ $(at 50 \text{ kHz step})$ Mass Supplied accessoriesApprox. $128 \times 53 \times 162 \text{ mm}$ $(7 / 4x \times 1/a \times 6^{-1} / 2 \ln).)$ $(w/h/d)$ Antenna terminal Intermediate frequency Usable sensitivityBAT $0.7 \text{ MHz} / 450 \text{ kHz}$ $0.7 \text{ MHz} / 450 \text{ kHz}$ $0.7 \text{ MHz} / 450 \text{ kHz}$ $0.7 \text{ MHz} / 450 \text{ kHz}$ Mass $0.7 \text{ MHz} / 42 / (a \times 2 \cdot 1^{-1} / a).)$ $(w/h/d)$ Antenna terminal Intermediate frequency Usable sensitivity Signal-to-noise ratio $0.7 \text{ MHz} / 450 \text{ kHz}$ $0.6 % (stereo),$ $0.3 % (mono)$ Optional accessories $0.3 \% (mono)$ Besign and specifications are subject to change without notice.Design and specifications are subject to change without notice.AMTuning rangeCDX-4000X $530 - 1.710 \text{ kHz}$ $530 - 1.710 \text{ kHz}$ $(at 10 \text{ kHz step})$ $530 - 1.710 \text{ kHz}$ $(at 10 \text{ kHz step})Antenna terminalExternal antenna connectorAntenna terminalExternal antenna connector$	Tuning range	CDX-4000X	Discourse	
FM tuning interval: 50 kHz/200 kHz switchableMounting dimensions(w/h/d) Approx. 182 × 53 × 162 mm (7 1/4 × 2 1/4 × 6 1/2 in.) (w/h/d)87.5 - 108 MHz (at 50 kHz step)87.5 - 107.9 MHz (at 50 kHz step)Mass Supplied accessoriesApprox. 1.2 kg (2 lb. 10 oz.) Supplied accessoriesAntenna terminal Intermediate frequency Usable sensitivityExternal antenna connector 10.7 MHz/450 kHzMass (Doptional accessoriesApprox. 1.2 kg (2 lb. 10 oz.) (w/h/d)Signal-to-noise ratio T 2 dB (mono)66 dB (stereo), 72 dB (mono)Design and specifications are subject to change without notice.Harmonic distortion at 1 kHz Frequency response0.6 % (stereo), 0.3 % (mono)Design and specifications are subject to change without notice.AM Tuning rangeCDX-4000X S30 - 1,710 kHz (at 10 kHz step)CDX-4005 S30 - 1,710 kHz (at 10 kHz step)Antenna terminalAntenna terminalExternal antenna connectorAntenna terminalAntenna terminal	8 8		Dimensions	Approx. $1/8 \times 50 \times 183 \text{ mm}$
FM turning interval: soutcableMounting dimensionsApprox. 182 × 53 × 162 mm (T 1/× 2 1/s × 6 1/z in.) (w/h/d)87.5 - 108 MHz (at 50 kHz step) 87.5 - 107.9 MHz (at 200 kHz step)Mass Supplied accessoriesApprox. 1.2 kg (2 lb. 10 oz.) Parts for installation and connections (1 set) Front panel case (1)Antenna terminal Intermediate frequency Usable sensitivityExternal antenna connector 8 dBfMass Supplied accessoriesParts for installation and connections (1 set) Front panel case (1)Signal-to-noise ratio B dB df66 dB (stereo), 0.3 % (mono)Design and specifications are subject to change without notice.Harmonic distortion at 1 kHz Frequency response0.6 % (stereo), 0.3 % (mono)Design and specifications are subject to change without notice.AM Tuning rangeCDX-4000X 530 - 1,710 kHz (at 9 kHz step) 530 - 1,710 kHz (at 9 kHz step) 530 - 1,710 kHz (at 9 kHz step) 530 - 1,710 kHz (at 10 kHz step)Harmonic distortion at 1 kHz (at 9 kHz step) (at 9 kHz step) (at 9 kHz step)Antenna terminalExternal antenna connector		CDX-4005		
50 kHz/200 kHz       Mounting dimensions       Approx.162 x 33 x 102 limit         switchable       (1'+x 2 1'/x 2 1'/x 3 6 1'/z in.)       (w/h/d)         87.5 - 108 MHz       (at 50 kHz step)       (w/h/d)         Antenna terminal       External antenna connector       Mass       Approx.1.2 kg (2 lb. 10 oz.)         Antenna terminal       External antenna connector       Front panel case (1)       Rotary commander         Intermediate frequency       10.7 MHz/450 kHz       Optional accessories       Rotary commander         Signal-to-noise ratio       66 dB (stereo),       72 dB (mono)       Parts for installation and specifications are subject to change without notice.         Harmonic distortion at 1 kHz       0.6 % (stereo),       0.3 % (mono)       Design and specifications are subject to change without notice.         AM       CDX-4000X       530 - 1,710 kHz       Signal - 1,610 kHz       Signal - 1,610 kHz         Signal-to-noise ratio       6 dB kt 1 kHz       Signal - 1,710 kHz       Signal - 1,710 kHz         Frequency response       30 - 1,710 kHz       Signal - 1,710 kHz       Signal - 1,710 kHz         Signal - 1,602 kHz       (at 9 kHz step)       Signal - 1,710 kHz       Signal - 1,710 kHz         Signal - 1,602 kHz       (at 9 kHz step)       Signal - 1,710 kHz       Signal - 1,710 kHz         Signal - 1,1		FM tuning interval:	Mounting dimensions	
Switchable (at 50 kHz step) (at 50 kHz step) (at 50 kHz step) (at 200 kHz step)Mass (massApprox. 1.2 kg (2 lb. 10 oz.) Approx. 1.2 kg (2 lb. 10 oz.)Antenna terminal Intermediate frequency Usable sensitivity Signal-to-noise ratioExternal antenna connector 10.7 MHz/450 kHz 8 dBfMass Supplied accessories Parts for installation and Front panel case (1) Rotary commander RM-X4SHarmonic distortion at 1 kHz Frequency response0.6 % (stereo), 0.3 % (mono)Design and specifications are subject to change without notice.AMCDX-4000X 530 - 1,710 kHz (at 9 kHz step) 530 - 1,710 kHz (at 9 kHz step) 530 - 1,710 kHz (at 9 kHz step) (at 9 kHz step)Front panel case (1) Rotary commander RM-X4SAntenna terminalExternal antenna connector (10 kHz step)Design and specifications are subject to change without notice.AMCDX-4000X (10 kHz step) (2 kHz (at 9 kHz step)) (33 - 1,710 kHz (at 10 kHz step)Front panel case (1) Rotary commander RM-X4SAntenna terminalExternal antenna connectorApproximationAntenna terminalExternal antenna connectorFront panel case (1) Rotary commander RM-X4SAntenna terminalExternal antenna connector			Mounting dimensions	
87.5 - 108 MHz (at 50 kHz step)Mass Supplied accessoriesApprox. 1.2 kg (2 lb. 10 oz.) Parts for installation and connections (1 set)Antenna terminal Intermediate frequencyExternal antenna connector 10.7 MHz/450 kHzMass Supplied accessoriesApprox. 1.2 kg (2 lb. 10 oz.) Parts for installation and connections (1 set)Usable sensitivity Selectivity8 dBfOptional accessoriesRotary commander RM-X4SSignal-to-noise ratio Signal-to-noise ratio66 dB (sterec), 72 dB (mono)Design and specifications are subject to change without notice.Harmonic distortion at 1 kHz Frequency response0.6 % (stereo), 0.3 % (mono)Design and specifications are subject to change without notice.AM Tuning rangeCDX-4000X 530 - 1,710 kHz (at 9 kHz step)Sign - 1,602 kHz (at 9 kHz step)Forequency 530 - 1,710 kHz (at 9 kHz step)Antenna terminalExternal antenna connector		switchable		
(at 50 kHz step) 87.5 - 107.9 MHz (at 200 kHz step)Supplied accessoriesParts for installation and connections (1 set) Front panel case (1)Antenna terminal Intermediate frequency Usable sensitivityExternal antenna connector 10.7 MHz/450 kHz 8 dBfOptional accessoriesParts for installation and connections (1 set) Front panel case (1)Selectivity75 dB at 400 kHz 8 dBfDesign and specifications are subject to change without notice.Signal-to-noise ratio66 dB (stereo), 72 dB (mono)Design and specifications are subject to change without notice.Harmonic distortion at 1 kHz Frequency response0.6 % (stereo), 0.3 % (mono)Design and specifications are subject to change without notice.AM Tuning rangeCDX-4000X 530 - 1,710 kHz (at 9 kHz step) 530 - 1,710 kHz (at 9 kHz step)Supplied accessoriesAntenna terminalExternal antenna connector		87.5 - 108 MHz	Mass	
Antenna terminal Intermediate frequency Usable sensitivity       64.3 ± 10/1.9 MH2 (at 200 kHz step)       Optional accessories       connections (1 set) Front panel case (1) Rotary commander RM-X4S         Usable sensitivity       8 dBf       B       B       Rotary commander RM-X4S         Signal-to-noise ratio       66 dB (stereo), 72 dB (mono)       Design and specifications are subject to change without notice.         Harmonic distortion at 1 kHz       0.6 % (stereo), 0.3 % (mono)       Design and specifications are subject to change without notice.         Separation       35 dB at 1 kHz       Design and specifications are subject to change without notice.         AM       CDX-4000X       530 - 15,000 Hz         AM       CDX-4000X       AM tuning interval: 9 kHz/10 kHz         Sign - 1,710 kHz       CDX-4005         AM tuning interval: 9 kHz/10 kHz       530 - 1,710 kHz         (at 9 kHz step)       530 - 1,710 kHz         (at 9 kHz step)       530 - 1,710 kHz         (at 10 kHz step)       530 - 1,710 kHz				Parts for installation and
Antenna terminal Intermediate frequency Usable sensitivityExternal antenna connector 10.7 MHz/450 kHz 8 dBfOptional accessoriesFront panel case (1) Rotary commander RM-X4SSignal-to-noise ratio Signal-to-noise ratio Harmonic distortion at 1 kHz 0.6 % (stereo), 0.3 % (mono)Design and specifications are subject to change without notice.Harmonic distortion at 1 kHz Frequency response0.6 % (stereo), 0.3 % (mono)Design and specifications are subject to change without notice.AM Tuning rangeCDX-4000X 530 - 1,710 kHz CDX-4005 AM tuning interval: 9 kHz/10 kHz switchable 531 - 1,602 kHz (at 10 kHz step)Front panel case (1) Rotary commander RM-X4SAntenna terminalExternal antenna connectorFront panel case (1) Rotary commander RM-X4S		87.5 – 107.9 MHz	Supplied accessories	
Antenna terminal       External antenna connector         Intermediate frequency       10.7 MHz/450 kHz         Usable sensitivity       8 dBf         Selectivity       75 dB at 400 kHz         Signal-to-noise ratio       66 dB (stereo), 72 dB (mono)         Harmonic distortion at 1 kHz       0.6 % (stereo), 0.3 % (mono)         Separation       35 dB at 1 kHz         Frequency response       30 - 15,000 Hz         AM       CDX-4000X         530 - 1,710 kHz         CDX-4005         AM tuning interval:         9 kHz/10 kHz         switchable         531 - 1,602 kHz         (at 10 kHz step)         S30 - 1,710 kHz         cat 10 kHz step)         Antenna terminal		(at 200 kHz step)		
Intermediate requercy       10.7 MH2/430 KH2       RM-X4S         Usable sensitivity       8 dBf       Bf         Selectivity       75 dB at 400 kHz       Design and specifications are subject to change without notice.         Signal-to-noise ratio       66 dB (stereo), 72 dB (mono)       Design and specifications are subject to change without notice.         Harmonic distortion at 1 kHz       0.6 % (stereo), 0.3 % (mono)       Design and specifications are subject to change without notice.         Separation       35 dB at 1 kHz       Frequency response       30 - 15,000 Hz         AM       CDX-4000X       530 - 1,710 kHz       CDX-4005         AM tuning interval:       9 kHz/10 kHz       switchable         531 - 1,602 kHz       (at 9 kHz step)       530 - 1,710 kHz         Sign - 1,710 kHz       (at 10 kHz step)       530 - 1,710 kHz         Antenna terminal       External antenna connector       External antenna connector			Optional accessories	
Usable sensitivity       8 dBf         Selectivity       75 dB at 400 kHz         Signal-to-noise ratio       66 dB (stereo),         72 dB (mono)       72 dB (mono)         Harmonic distortion at 1 kHz       0.6 % (stereo),         0.3 % (mono)       0.3 % (mono)         Separation       35 dB at 1 kHz         Frequency response       30 - 15,000 Hz         AM       CDX-4000X         Tuning range       CDX-4000X         Sign and specifications are subject to change without notice.         AM         Tuning range       CDX-4000X         Sign and specifications are subject to change without notice.			optional accessiones	
Signal-to-noise ratio       66 dB (stereo), 72 dB (mono)       Design and spectrications are subject to change without notice.         Harmonic distortion at 1 kHz       0.6 % (stereo), 0.3 % (mono)       without notice.         Separation       35 dB at 1 kHz       Frequency response         So – 15,000 Hz       M         AM       CDX-4000X         Tuning range       CDX-4000X         Sign - 1,710 kHz       CDX-4005         AM tuning interval:       9 kHz/10 kHz         switchable       531 - 1,602 kHz         (at 9 kHz step)       530 - 1,710 kHz         (at 0 kHz step)       530 - 1,710 kHz         (at 10 kHz step)       530 - 1,710 kHz         (at 10 kHz step)       530 - 1,710 kHz         (at 10 kHz step)       530 - 1,710 kHz				
Signal-to-holse ratio       10 do db (stereo), 72 dB (mono)         Harmonic distortion at 1 kHz       0.6 % (stereo), 0.3 % (mono)         Separation       35 dB at 1 kHz         Frequency response       30 - 15,000 Hz         AM       CDX-4000X         Tuning range       CDX-4000X         Signal-to-holse ratio       530 - 1,710 kHz         CDX 4005       AM tuning interval: 9 kHz/10 kHz         switchable       531 - 1,602 kHz         (at 9 kHz step)       530 - 1,710 kHz         (at 10 kHz       (at 10 kHz step)         Antenna terminal       External antenna connector			Design and specification	s are subject to change
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	Antenna terminal			
	Intermediate frequency			

# **Troubleshooting guide**

The following checklist will help you remedy the problems you may encounter with your unit. Before going through the checklist below, check the connection and operating procedures.

### General

Problem	Cause/Solution	
No sound.	<ul> <li>Cancel the ATT function.</li> <li>Set the fader control to the center position for two-speaker system.</li> <li>Rotate the dial clockwise to adjust the volume.</li> </ul>	
The contents of the memory have been erased.	<ul> <li>The power cord or battery has been disconnected.</li> <li>The reset button has been pressed.</li> <li>→ Store again into the memory.</li> </ul>	
Indications do not appear in the display.	Remove the front panel and clean the connectors. See "Cleaning the connectors" (page 17) for details.	
No beep sound.	<ul> <li>The beep sound is cancelled (page 16).</li> <li>If you connect an optional amplifier and do not use the built- in amplifier, the beep sound will be deactivated.</li> </ul>	

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### **CD playback**

Problem	Cause/Solution	
A disc cannot be loaded.	<ul> <li>Another CD is already loaded.</li> <li>The CD is forcibly inserted upside down or in the wrong way.</li> </ul>	
Playback does not begin.	Defective dirty CD.	
A disc is automatically ejected.	The ambient temperature exceeds 50 °C (122 F).	
CD will not be ejected.	You have closed the front panel or pushed the disc forcibly into the unit while the unit was ejecting the disc after you pressed $\triangleq$ . $\rightarrow$ Press the reset button.	
The operation buttons do not function.	Press the reset button.	
The sound skips due to vibration.	<ul> <li>The unit is installed at an angle of more than 60 °.</li> <li>The unit is not installed in a sturdy part of the car.</li> </ul>	
The sound skips.	A dirty or defective disc.	

### **Radio reception**

Problem	<ul> <li>Cause/Solution</li> <li>Memorise the correct frequency.</li> <li>The broadcast signal is too weak.</li> <li>When your car has built-in FM/AM antenna in the rear/side glass, it is necessary to connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.</li> </ul>	
Preset tuning is not possible.		
Automatic tuning is not possible.	The broadcast signal is too weak. → Use manual tuning.	
The "ST" indication flashes.	<ul> <li>Tune in the frequency accurately.</li> <li>The broadcast signal is too weak.</li> <li>→ Set to the MONO mode (page 12).</li> </ul>	

If the above-mentioned solutions do not help improve the situation, consult your nearest Sony dealer.

