

FM/AM Compact Disc Player



# CDX-5040

## Operating Instructions

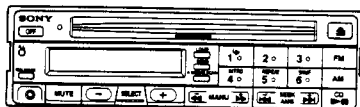
page 2

Before operating the unit, please read this manual thoroughly and retain it for future reference.

## Mode d'emploi

page 23

Avant la mise en service de cet appareil, prière de lire attentivement ce mode d'emploi que l'on conservera pour toute référence ultérieure.



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

En ce qui concerne l'installation et les connexions, se reporter au manuel d'installation/connexions, fourni.

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## For the Customers in the United States

### Owner's Record

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

Model No. CDX-5040 Serial No. \_\_\_\_\_

### CAUTION

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

### INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause 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:

- Relocate the receiving antenna.
- Relocate the equipment with respect to the receiver.
- Move the equipment away from the receiver.
- Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00346-4.

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\* WALKMAN is a trademark of Sony Corporation.

## Features

- DIN-sized mobile CD player and FM/AM tuner with a power amplifier
- CD section**
  - Provided with 6 times over-sampling digital filter for dynamic sound reproduction
  - Quick-recovery mechanism against sound skipping
  - When strong vibration causes sound skipping, the player quickly relocates the point where the play was interrupted.
  - A 3-inch (8 cm) CD can be played without an adapter.
- Tuner section**
  - Automatic memory function stores a total of 24 stations (18 FM and 6 AM stations) in memory.
  - Easy and quick tuning with preset buttons while driving
- Others**
  - Slider control for adjusting the volume of the front and rear speakers in 4-speaker system
  - WALKMAN IN jack for easily connecting a WALKMAN, etc.
  - Line outputs for connecting an optional power amplifier.
  - Two color variation (amber or green) for illumination

## Precautions

- Before operating the unit for the first time or after replacing the battery, press the reset button (page 6) with a ball-point pen, etc., then start operating the unit.
- If your car was parked in direct sunlight and there was a considerable rise in temperature inside the car, allow the unit to cool off before operating.
- If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
- If no sound comes from the speakers of a 2-speaker system, set the fader control to the center position.
- As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

### Notes on 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. In this case, remove the disc and wait for about an hour until the moisture evaporates.

If you have any question or problem concerning your unit that is not covered in this manual, please consult your nearest Sony dealer.

### Notes on discs

Handle the disc by its edges, and to keep the disc clean, do not touch the surface.



This way

Do not stick paper or tape.



Not this way

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

### Cleaning discs

Before playing, clean the disc with an optional cleaning cloth. Wipe the disc in the direction of the arrows.

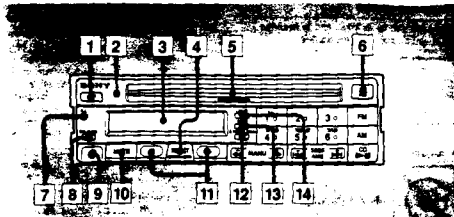


Do not use solvents such as benzene, thinner, commercially available cleaners or amtsatic spray intended for analog discs.

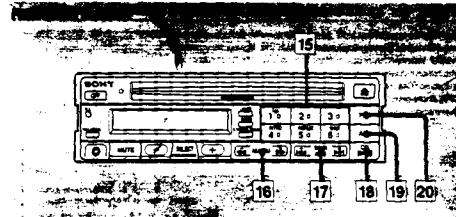
4

5

## Location of Controls — Refer to the page indicated in ①.



- |   |  |
|---|--|
| <p>1 OFF (power off) button ●</p> <p>2 Reset button ● ●</p> <p>3 Display window</p> <p>4 SELECT (volume/balance/bass/treble/fader select) button ●</p> <p>5 Disc insertion slot</p> <p>6 EJECT button ●</p> <p>7 ILL (illumination color change) button<br/>Press to change the color of illumination. Two colors, green and amber, are available.</p> <p>8 WALKMAN button ●</p> <p>9 WALKMAN IN jack ●</p> | <p>10 MUTE button<br/>Press to momentarily mute the sound. Press again to restore the same level as before.</p> <p>11 +/- button ●</p> <p>12 A.MEM/M.SCAN (automatic memory/memory scan) button ●</p> <p>13 SENS button ●</p> <p>14 LOUD (loudness) button<br/>Press to enhance bass and treble especially when listening at low volumes. To disengage the button, press it again.</p> |
|---|--|



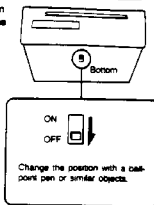
- | <p>15</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 50%;">During audio reception</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>↔ (slipping to the top) button ●</td> </tr> <tr> <td>2</td> <td>—</td> </tr> <tr> <td>3</td> <td>—</td> </tr> <tr> <td>4</td> <td>INTRO button ●</td> </tr> <tr> <td>5</td> <td>REPEAT button ●</td> </tr> <tr> <td>6</td> <td>SHUF (shuffle) button ●</td> </tr> </tbody> </table> <p>16 MANU ←/→ (manual search) button ●</p> <p>17 AME*MEM (seek) button ●</p> <p>18 CD → (disc play/pause) button ● ●</p> <p>19 AM (tuner on) button ●</p> <p>20 FM (tuner on/band select) button ●</p> |                                  | During audio reception | 1 | ↔ (slipping to the top) button ● | 2 | — | 3 | — | 4 | INTRO button ● | 5 | REPEAT button ● | 6 | SHUF (shuffle) button ● | <p>During audio reception</p> <p>MANU +/- (manual tuning) button ●</p> <p>SEEK +/- (automatic tuning) button ●</p> <p>(Automatic Music Search)</p> |
|--|----------------------------------|------------------------|---|----------------------------------|---|---|---|---|---|----------------|---|-----------------|---|-------------------------|--|
|  | During audio reception           |                        |   |                                  |   |   |   |   |   |                |   |                 |   |                         |  |
| 1  | ↔ (slipping to the top) button ● |                        |   |                                  |   |   |   |   |   |                |   |                 |   |                         |  |
| 2  | —                                |                        |   |                                  |   |   |   |   |   |                |   |                 |   |                         |  |
| 3  | —                                |                        |   |                                  |   |   |   |   |   |                |   |                 |   |                         |  |
| 4  | INTRO button ●                   |                        |   |                                  |   |   |   |   |   |                |   |                 |   |                         |  |
| 5  | REPEAT button ●                  |                        |   |                                  |   |   |   |   |   |                |   |                 |   |                         |  |
| 6  | SHUF (shuffle) button ●          |                        |   |                                  |   |   |   |   |   |                |   |                 |   |                         |  |

6

7

**If your car ignition key does not have the accessory position**

The illumination on the front panel is factory-set to be turned on even when not playing the unit. However, this setting may cause the car battery to run down when the unit is used in the car which has no accessory position. To avoid this when using the unit in such a car, set the selector located on the bottom to OFF, then press the reset button. You can make the illumination turned off when not playing the unit.



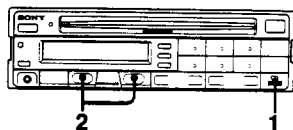
Controlling the volume/balance/bass/treble/fader



+/− button normally functions as the volume control. Adjust the level within three seconds after selecting the desired control mode with the SELECT button. Otherwise, the mode goes back to the volume control mode.

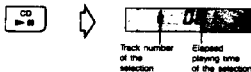
SELECT button	Display window	Control mode	(−) button	(+) button
Each time the SELECT button is pressed, the display indication will change as follows.		Bass	For less bass	For more bass
		Treble	For less treble	For more treble
		Balance	To decrease the right-speaker volume	To decrease the left-speaker volume
		Fader	To decrease the rear-speaker volume	To decrease the front-speaker volume
		Volume	For less volume	For more volume

Playing a Disc



The disc is loaded into the unit and play will start from the beginning of the disc.

When a disc is already inserted



2 Adjust the volume.



**Notes**

- Do not need a disc with the label surface down. Doing so may damage the unit.
- Do not try to insert another disc when one has been already inserted. Doing so may damage the unit.

At the end of the disc, the track number returns to 1 and play will be repeated from the beginning of the disc.

**Important**

Since the CD system offers a wide dynamic range, the peaks of the high level inputs are reproduced with high fidelity, and the noise level is very low. Do not turn up the volume when listening to a portion with no audio signals or very low level inputs. If you do, the speakers may be damaged when a peak level portion is played.

**To stop the disc play**

Press OFF. To restart playing from the same point, press the **SELECT** button.

**To pause the disc play**

Press **PAUSE**. The display when you press the **PAUSE** button is as follows:

Elapsed playing time

Blinking

Track number

To restart the play from the same point, press **PAUSE**.

**To resume the disc play**

Press **▶**. Even if you set the ignition key to the off position, you can remove the disc by pressing **▶**.

Note on a 3-inch (8 cm) CD: You can play a 3-inch (8 cm) CD without an adaptor.

If you press the **PAUSE** button during the disc play, the disc play will stop automatically and the radio sound will be heard.

Note on a 12 cm disc: If you leave the disc putting into the slot after pressing the **▶** button, the disc will be inserted automatically in fifteen seconds to protect the disc. If you press the **▶** button within the fifteen seconds, the disc play starts from the beginning of the disc.

Locating a Particular Selection

Locating a selection in sequence (Automatic Music Sensor) You can locate the beginning of a desired selection during play.

**To locate the beginning of the selected track** Press **▶** once.

**To locate the beginning of the disc starting** Press **▶▶** once.

Press repeatedly to locate previous selections or selections ahead.

Locating a Particular Point in a Selection

Locating a point in sequence (Manual Search) You can locate a particular point in a selection during play by monitoring the high-speed sound.

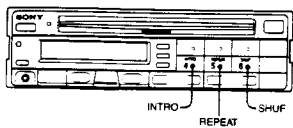
**To go back to high speed** Keep **◀** pressed.

**To go back to normal speed** Keep **▶▶** pressed.

Locating the Beginning of the Disc

Press **▶▶▶**. You can quickly locate the beginning of the disc being played.

Keeping the **▶▶** button pressed. The time counter displays "00" when you have passed the end of the disc. To return to a normal display, press **▶▶** or **▶▶▶** button.



### Playing the First Portions of Selections

**INTRO 4**

You can play the first ten seconds of each selection in order. If you find a desired selection, press the button to cancel the mode. The play continues.

### Playing Repeatedly—Repeat Play

**REPEAT 5**

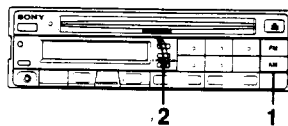
You can repeat a single selection. To cancel, press the button again.

### Playing in Random Order—Shuffle Play

**SHUF 6**

You can play the selections in random order. To cancel, press the button again.

If you press the INTRO button during the shuffle play, the first ten seconds of all selections will be played in random order.



You can memorize a total of 24 stations—6 stations on each band (FM1, FM2, FM3\* or AM), one on each preset button.

**1**

Press to select a desired band. The tuner turns on at the same time.

FM OR AM

**2**

Press for more than two seconds. The unit starts scanning the selected band and memorizes the tuned stations on the preset buttons 1 to 6 automatically.

A MEMO SCAN

### Surveying What is Being Broadcasted on the Preset Stations

**A MEMO SCAN**

Press lightly. Each memorized station will be scanned for five seconds in order. (When the broadcast of the memorized station is too weak, it cannot be received.)

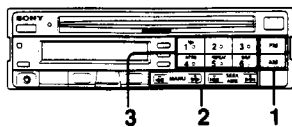
**In what order are stations memorized?**  
The unit scans the band from the lowest frequency to the highest frequency twice. At the first cycle, the unit scans only the stations with considerably strong signals. At the next cycle, the minimum level of the signal strength that can be tuned will be lowered.

\* Frequency range of the FM1, FM2 and FM3 bands is same.

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MEMO (OPTIONAL)

## Memorizing Only Desired Stations Manually



Use this method to memorize stations not memorized by the automatic memory function.

**1** Press to select a desired band. The tuner turns on at the same time.

FM OR AM

**2** Press to tune in a desired station (page 10 or 11).

MANU or SEEK

**3** Press for more than two seconds. Ex. To memorize on the preset button 1

1 FM 104.3

The number of the pressed preset button will be displayed and the station will be memorized.

**Important**  
Each preset button has only one memory for a band. The previously memorized station will be erased when you enter a new station of the same band on the same preset number button.

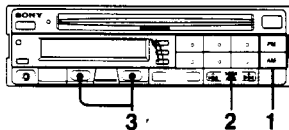
### Receiving the Preset Station

- 1 Select a desired band.
- 2 Press a desired preset button lightly.

14

MEMO (OPTIONAL)

## Tuning in Automatically



Use this method when you do not know the frequency of desired stations.

**1** Press to select a desired band. The tuner turns on at the same time.

FM OR AM

**2** Press to start scanning.

SEEK (FM) or SEEK (AM)

For lower frequencies For higher frequencies

The scanning automatically stops when a station is tuned in. Repeat the step until a desired station is tuned in.

**3** Press to adjust the volume.

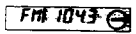
VOL

13

15

When there are too many stations and the scanning stops too frequently during automatic tuning

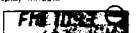
SENS  
Press **SENS** so that the LOCAL indicator appears on the display window.



Only the station with comparatively strong signals can be tuned in.


When the FM stereo program is too weak and noisy

SENS  
Press **SENS** so that the MONO indicator appears on the display window.



The noise will be reduced. The sound will be monaural instead.


When an FM stereo program of sufficient signal strength is tuned in




The STEREO indicator appears and the program is automatically received in stereo.

The SENS button functions as follows  
When receiving an FM station


↓ Press SENS



↓ Press SENS again




↓ Press SENS once again


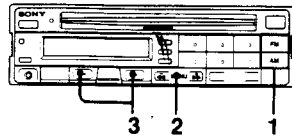


When receiving an AM station

↓ Press SENS



↓ Press SENS again

Press to select a desired band.  
The tuner turns on at the same time.

FM or AM

Press to select a desired station.

MANU

For lower frequencies      For higher frequencies

To change the frequency rapidly, keep the button pressed.

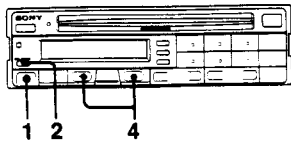
Press to adjust the volume.

SELECT

For your safety while driving keep your eyes on the road and use the automatic tuning or the memory preset tuning!


RECEIVING INFORMATION

Listening to a WALKMAN




To the WALKMAN IN jack, you can connect various sources equipped with headphones jack, such as a WALKMAN.

Connect the supplied connecting cord to the WALKMAN IN jack.



Supplied connecting cord

Press the WALKMAN button.



The AUX indicator appears on the display window.

Start playing the WALKMAN.

Press to adjust the volume.

SELECT

Caution  
• Place the WALKMAN where it would not interfere with normal driving function of a car.  
• Do not leave the WALKMAN in a location near heat source, in a place subject to direct sunlight, or especially not on the dashboard of a car.

Notes  
• Press the WALKMAN button after connecting the cord.  
• Make sure that the DBS (Dynamic Base Boost) switch on the WALKMAN is switched off and set the volume control on the WALKMAN side so as not to distort the sound.  
• Do not forget to stop playing the WALKMAN when making other operations, such as when you start playing a disc, or turn on the radio.  
• There are some WALKMAN models which cannot be connected to this unit.  
• When the WALKMAN is not connected to this unit, cover the WALKMAN IN jack with the supplied rubber cap.

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT and TOTAL HARMONIC DISTORTION 10 watts per channel minimum continuous average power into 4 ohms, both channels driven, from 40 – 15,000 Hz with no more than 1% total harmonic distortion.

Other Specifications

Power amplifier section	General
Output Speaker outputs (sure seal connectors)	WALKMAN IN jack 12 V DC car battery (negative ground)
Speaker impedance 4 – 8 ohms	900 mA (CD playback)
Maximum power output 25 W x 2 (at 4 ohms)* 9 W x 4 (at 4 ohms)* *Measured at 14.4 V	Current drain ± 4 during disc loading or eject
CD player section	Operating temperature -10°C to 50°C (15°F to 120°F)
System Compact disc digital audio system	Dimensions Approx. 180 x 50 x 163 mm (w/h/d) (7 1/8 x 2 x 5 1/2 in.) Approx. 1.8 kg (3 lb 15 oz) (Base ± 10 dB (100 Hz) Tape ± 10 dB (10 kHz)
Frequency response 10 – 20,000 Hz ± 3 dB	Weight Approx. 1.8 kg (3 lb 15 oz)
Signal-to-noise ratio 90 dB	Supplied accessories Mounting hardware (1 set) Connecting cord (1) Rubber cap for the WALKMAN IN jack (1)
Wow and flutter Below measurable limit	Optional accessories Mounting kit Cleaning cloth XP-CD1
Laser Diode Properties	
Material GaAlAs	
Wavelength 780 nm	
Emission duration Continuous	
Laser output power Less than 44.8 mW	
This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.	

Tuner section

	FM	AM
Tuning range	87.5 – 107.9 MHz	530 – 1,770 kHz
Antenna terminal	FM/AM external antenna connector	
Intermediate frequency	10.7 MHz	450 kHz
Usable sensitivity	12 dB (11 μVTS ohms)	35 μV
Selectivity	70 dB (monaural) 85 dB (stereo)	55 dB
Signal-to-noise ratio	0.2% (monaural) 0.5% (stereo)	0.2%
Harmonic distortion at 1 kHz	0.2% (monaural) 0.5% (stereo)	0.2%
Stereo separation	35 dB	—
Frequency response	30 Hz – 15,000 Hz ± 3 dB	—

Design and specifications subject to change without notice.

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be internal malfunction. In this case, consult your nearest Sony dealer.

**Warning**  
Use the specified ampere fuse only.  
Use of a higher ampereage fuse may cause serious damage.

The following checks will assist in the correction of most problems which you may encounter with your unit.

Before going through the checks listed below, first refer back to the connection and operating procedures.

**CD player section**

Trouble	Cause/Remedy
Play does not begin.	<ul style="list-style-type: none"> <li>The unit is in the pause mode ⇒ Press <b>▶</b> is</li> <li>Dusty or defective disc.</li> <li>The ambient temperature is more than 50°C (120°F).</li> </ul>
Disc cannot be loaded or jiffy disc is automatically ejected.	<ul style="list-style-type: none"> <li>A disc is already loaded.</li> <li>The disc is inserted with the label surface downwards.</li> </ul>
The operation buttons do not work.	The built-in microprocessor malfunctions. ⇒ Press the reset button.
The sound skips due to vibration.	<ul style="list-style-type: none"> <li>The unit is installed at an angle of more than 20°.</li> <li>The unit is not installed on the sturdy part of a car.</li> <li>Dusty or defective disc.</li> </ul>

**Tuner section**

Trouble	Cause/Remedy
Preset tuning is not possible.	<ul style="list-style-type: none"> <li>Memorizes the correct frequency.</li> <li>The broadcast is weak. ⇒ Use manual tuning.</li> </ul>
Automatic tuning is not possible.	The broadcast is weak. ⇒ Use manual tuning.
The STEREO indicator flickers.	<ul style="list-style-type: none"> <li>Tune in precisely.</li> <li>The broadcast is weak. ⇒ Press the SENS button to display the MONO indicator.</li> </ul>

When there is no sign of recovery after checking the unit following the list above, consult your nearest Sony dealer. If no sound is heard at all, the trouble may come from malfunction of the amplifier. In this case, please ask the dealer for checking also the amplifier. It is located at the rear of the unit and is easily detached by unscrewing one friction bolt.

**Troubleshooting Guide**

About the error code  
The following codes flicker for about five seconds.

Error code	Causes	Remedy
E-04	The disc is dirty or inserted upside-down. (In this case, the disc will be ejected automatically.)	<ul style="list-style-type: none"> <li>Clean the disc.</li> <li>Insert the disc correctly.</li> </ul>
E-66	A CD-ROM disc is inserted.	Remove the disc.
E-77	The temperature is too high and the protection circuit has been activated.	Wait until the unit cools off.

Carac  
Praca  
Empk  
Riege  
**Fon**  
Lect.  
Diffo  
**Rit**  
Mem  
Merr  
unq  
Acc  
Acc  
**Co**  
Eop  
Spe  
Pan  
Dac  
\* W  
St