



FM/AM Compact Disc Player

CDX-4040

POWER OUTPUT AND TOTAL HARMONIC DISTORTION 9 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

Output Speaker outputs (sure seal connections)
Speaker impedance 4–8 ohms
Maximum power output 20 W x 2 (at 4 ohms)
Measured at 1 kHz V

CD player section

System Compact disc digital audio system
Frequency response 10–20,000 Hz ± 3 dB
Signal-to-noise ratio 90 dB
Wow and flutter Below measurable limit
Laser Diode Properties
Material GaAlAs
Wavelength 780 nm
Emission duration Continuous
Laser output power Less than 445 μ W
This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

General

Input WALKMAN IN jack
Power requirements 12 V DC car battery (negative ground)
Current drain 800 mA (CD playback)
2 A (during disc loading or eject)
Operating temperature –10°C to 50°C (15°F to 120°F)
Dimensions Approx. 180 x 50 x 155 mm (width) (7 1/8 x 2 x 6 1/8 in.)
Weight Approx. 1.5 kg (3 lb 5 oz)
Tone controls Bass ± 10 dB (100 Hz)
Treble ± 10 dB (10 kHz)
Supplied accessories Mounting hardware (1 set)
Power connecting cord (1)
Rubber cap for the WALKMAN IN jack (1)
Optional accessories Mounting kit
Cleaning cloth XP-CD1

Tuner section

	FM	AM
Tuning range	87.5–107.9 MHz	530–1710 kHz
Antenna terminal	FM/AM external antenna connector	
Intermediate frequency	10.7 MHz	450 kHz
Usable sensitivity	12 dBf (1.1 μ V/75 ohms)	35 μ V
Selectivity	75 dB at ± 400 kHz 70 dB (monaural) 65 dB (stereo)	55 dB
Signal-to-noise ratio	0.3% (monaural) 0.5% (stereo)	0.3%
Harmonic distortion at 1 kHz	0.3% (monaural) 0.5% (stereo)	0.3%
Stereo separation	35 dB	—
Frequency response	30 Hz–15,000 Hz ± 3 dB	—

Design and specifications subject to change without notice.

Troubleshooting Guide

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

Before going through the check list below, first refer back to the connection and operating procedures.

CD player section

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

Tuner section

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

About the error code

The following codes flash for about five seconds.

Error code	Cause	Solution
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"> Clean the disc. Insert the disc correctly.
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.

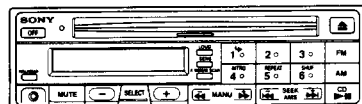
Operating Instructions

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

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 them whenever you call upon your Sony dealer regarding this product.

Model No. CDX-4040 Serial No. _____



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

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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:

Reorient 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. 004-000-00345-4.

Features

DIN-sized mobile CD player and FM/AM tuner with a power amplifier.

CD section

- Provided with 8 times over-sampling digital filter for dynamic sound reproduction.
- Quick-recovery mechanism against sound skipping.
- When strong vibration causes sound skipping, the player quickly relocate the point where the play was interrupted.
- A 3-inch (8 cm) CD can be played without an adaptor.

Tuner section

- Automatic memory function stores a total of 24 stations (16 FM and 8 AM stations) in memory.
- Easy and quick tuning with preset buttons while driving.

Others

- Fader control for adjusting the volume of the front and rear speakers in a 4-speaker system.
- WALKMAN IN jack for easily connecting a WALKMAN, etc.
- Line output for connecting an optional power amplifier.

Precautions

- Before operating the unit for the first time or after replacing the battery, press the **reset** button 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.

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

Note on fuse replacement

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 this case, consult your nearest Sony dealer.

Warning

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

Disc cleaning

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



This way



Not this way

Do not stick paper or tape

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

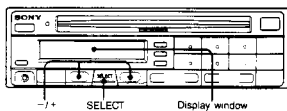
Before playing, clean the disc with an optional cleaning cloth. Wipe the disc in the direction of the arrows.



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

Adjusting a Sound

Controlling the volume control mode

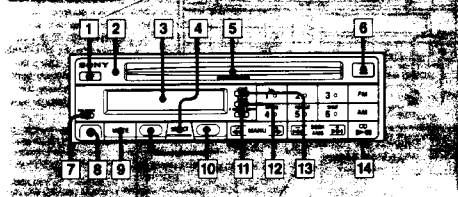


-/+ button normally functions as the volume control. Adjust the level within three seconds after selecting the desired control mode with the **SELECT** button. Otherwise, the mode goes back to the volume control mode.

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

Location of Controls

General location



1 OFF (power off) button

2 Reset button

3 Display window

4 SELECT (volume/balance/bass/treble/fader select) button

5 Disc insertion slot

6 Eject button

7 WALKMAN button

8 WALKMAN in jack

9 MUTE button

Press to momentarily mute the sound. Press again to restore the same level as before.

10 -/+ button

11 A.MEM/M.SCAN (automatic memory/memory scan) button

12 SENS (sensitivity) button

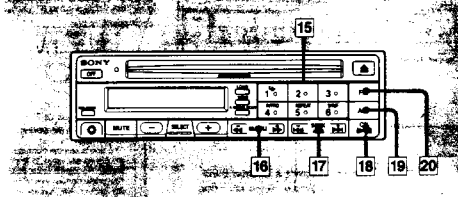
13 LOUD (loudness) button

Press to reinforce bass and treble especially when listening at low volume. To disengage the button, press it again.

14 Power Select switch (located on the bottom of the unit)

For the detailed information, see the supplied installation/connections manual.

Function buttons



Number	During disc play	During radio reception
1	L _o (skipping to the top) button	
2	—	
3	—	
4	INTRO button	Preset number buttons
5	REPEAT button	
6	SHUF (shuffle) button	

Number	During disc play	During radio reception
16	MANU <</> (manual search) button	MANU -/+ (manual tuning) button
17	AMS* <</> button	SEEK -/+ (automatic tuning) button

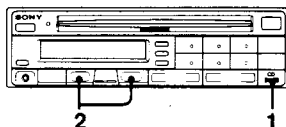
18 CD >> (disc play/pause) button

19 AM (tuner on) button

20 FM (tuner on/band select) button

* Automatic Music Sensor

Playing a Disc



- Label surface up

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

When a disc is already inserted

CD 1

Track number of the selection

Elapsed playing time of the selection
- Press to adjust the volume.

To stop the disc play Press the OFF button.

To restart playing from the same point, press the CD button.

To reuse the disc Press **REPEAT**. The display when you press **REPEAT** is as follows:

Elapsed playing time

Flashing

Track number

To restart playing from the same point, press the CD button.

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

Locating a Particular Selection

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

To locate the beginning of the selection being played Press **INTRO** once.

To locate the beginning of the next selection Press **INTRO** once.

Press repeatedly to locate the 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 the play by monitoring the high-speed sound.

To go back at high speed Keep **←** pressed.

To go ahead at high speed Keep **→** pressed.

Locating the Beginning of the Disc

Press **1**.

You can quickly locate the beginning of the disc being played.

Notes

- Do not insert 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 the 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 recorded with high fidelity, and the noise level is very low. Do not turn up the volume while listening to a portion with no audio signals or very low level inputs. If you do so, the speakers may be damaged when a peak level portion is played.

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

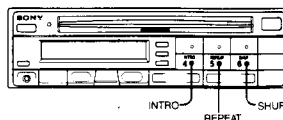
If you press the FM or AM button during the disc play
The play will stop automatically and the radio sound will be heard.

Note on a 12 cm disc
If you leave the disc putting into the slot after pressing **STOP**, the disc will be inserted automatically in fifteen seconds to protect the disc.

If you press the CD button within fifteen seconds, the disc will be inserted and the play starts from the beginning of the disc.

If you keep pressing **1**
The time counter display will flash when you have passed the end of the disc. To return to a normal display, press **1** or **2**.

Enjoying the Variety of CD Playing Modes



Playing the First Portions of Selections

— Intro Scan

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.

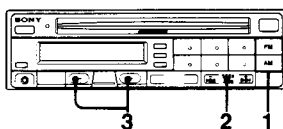
Playing in Random Order — Shuffle Play

SHUF 6

You can play the selections in random order.

To cancel Press the button again.

Tuning in Automatically



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

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

FM OR AM
- Press to start scanning.

SEEK 7

For lower frequencies

For higher frequencies

The scanning automatically stops when a station is tuned in. Repeat this step until a desired station is tuned in.
- Press to adjust the volume.

← →

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

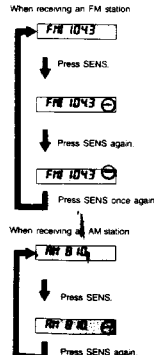
Press **SENS** so that the MONO indicator appears on the display window.

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

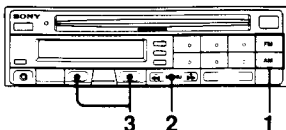
When the FM stereo program of sufficient signal strength is tuned in

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

The SENS button functions as follows:



Tuning in Manually



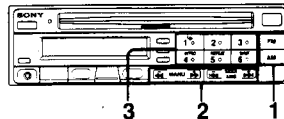
- 1 Press to select a desired band.**
The tuner turns on at the same time.
- 2 Press to select a desired station.**

For lower frequencies

For higher frequencies
To change the frequency rapidly, keep the button pressed.
- 3 Press to adjust the volume.**

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

Memorizing Only Desired Stations Manually



Use this method to
memorize stations which
cannot be memorized by
the automatic memory
function.

- 1 Press to select a desired band.**
The tuner turns on at the same time.
- 2 Press to tune in a desired station.**
 OR
 OR
- 3 Press for more than two seconds.**
Ex. To memorize on the preset button 1

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.

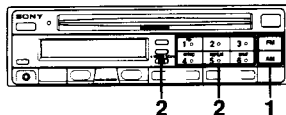
Note
If you keep pressing "MANU" preset
button for more than two
seconds, the currently received
station will be memorized.
To receive the previously
memorized station, press the
preset button lightly.

Receiving the Preset Station

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

Memorizing the Stations Automatically

(Automatic
Memory Function)



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

Surveying What is Being Broadcasted on the Preset Stations

Press lightly.

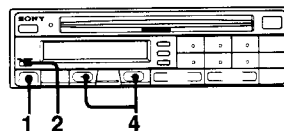
Each memorized station will be scanned for
five seconds in order. (When the broadcast
of the memorized station is too weak, it
cannot be received.)

In what order are stations memorized?

The unit scans the band from
the lowest frequency to the
highest frequency index. 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.

Listening to a WALKMAN



To the WALKMAN IN jack,
you can connect various
sources equipped with
headphones jack, such as
a WALKMAN. In this case,
please use the WALKMAN
with batteries. Using the
WALKMAN with car battery
through car battery cord
may cause alternate noise.

- 1 Connect the connecting cord to the WALKMAN IN jack.**

Connecting cord
(not supplied)
- 2 Press the WALKMAN button.**

The AUX indicator appears
on the display window.
- 3 Start playing the WALKMAN.**
- 4 Press to adjust the volume.**

Caution
• Place the WALKMAN where
it would not interfere with
normal driving function of a
driver.
• Do not leave the WALKMAN
near heat sources, 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 Bass Boost) switch
on the WALKMAN is
switched off and set the
volume control on the
WALKMAN appropriately 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 the unit,
cover the WALKMAN IN
jack with the supplied
rubber cap.