SONY.

FM/AM
Compact Disc
Player

Operating Instructions

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-1300 Serial No. _____

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

COMPACT
disc
DIGITAL AUDIO

CDX-1300

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.

Welcome !

Thank you for purchasing the Sony Compact Disc Player. This unit lets you enjoy a variety of features.

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 panel and press the reset button with a pointed object, such as a ball-point pen.


Reset button

Notes
- *Pressing the reset button will erase the clock setting and some memorized program and memory functions.*
- *When you connect the power supply cord to the unit or reset the unit, wait for about 10 seconds before you insert a disc. If you insert a disc within these 10 seconds, the unit will not be reset, and you will have to press the reset button again.*

Detaching the front panel

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

1 Press (OFF).

2 Press (RELEASE), then slide the front panel a little to the left, and pull it off towards you.


(RELEASE)
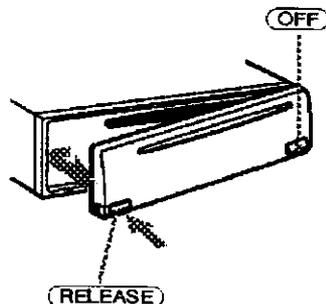
Notes
- *Be sure not to drop the panel when detaching it from the unit.*
- *If you detach the panel while the unit is still turned on, the power will turn off automatically to prevent the speakers from being damaged.*
- *When carrying the front panel with you, use the supplied front panel case.*

Attaching the front panel

Attach part Ⓐ of the front panel to part Ⓑ of the unit as illustrated and push the left side into position until it clicks.
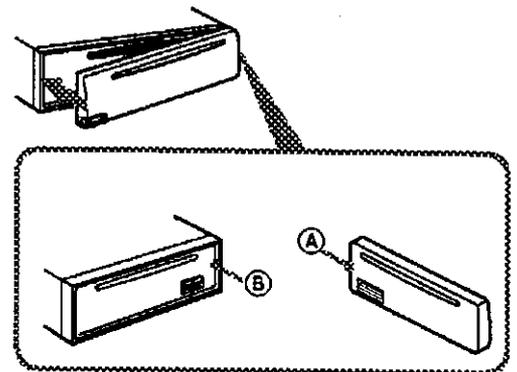

Notes
- *Be sure not to attach the front panel upside down.*
- *Do not press the front panel too hard against the unit when attaching it.*
- *Do not press too hard or put excessive pressure on the display window of the front panel.*
- *Do not expose the front panel to direct sunlight or heat sources 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 car ignition off 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.

3

Location of controls

CDX-1300
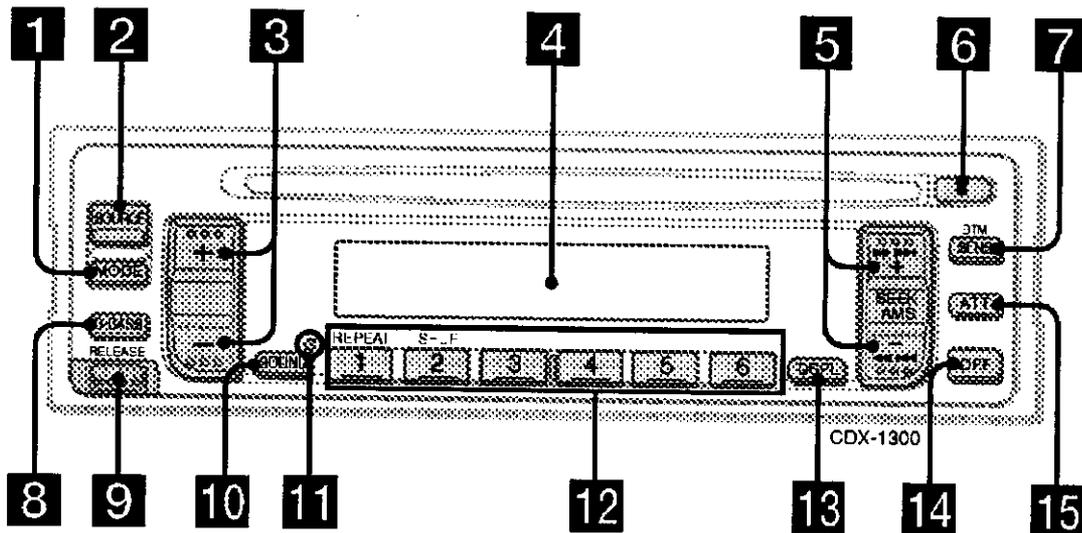
1 MODE (band select) button

2 SOURCE (source select) button

3 ⊕ ⊖ (volume/bass/treble/left-right/front-rear control) button

4 Display window

5 SEEK/AMS (seek/Automatic Music Sensor/manual search) button

6 ▲ (eject) button

7 SENS/BTM (sensitivity adjust/Best Tuning Memory) button

8 D-BASS button

9 RELEASE (front panel release) button

10 SOUND button

11 Reset button (located on the front side of the unit hidden by the front panel)

12 During radio reception:
Number buttons

During CD playback:
① REPEAT button
② SHUF button

13 DSPL (display mode change/time set) button

14 OFF button*

15 ATT (attenuate) button

***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.
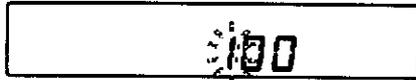When you press (OFF) momentarily, the clock display does not turn off and this causes battery wear.

4

Setting the clock

The clock has a 12-hour digital indication.

Example: To set the clock to 10:08

1 Press (DSPL) during operation.

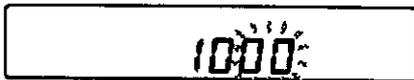**2** Press (DSPL) for two seconds.

: I9 0

The hour indication flashes.

❶ Set the hour.

To go forward

To go backward

:IO:00

❷ Press (SOUND).

IO:00:

The minute indication flashes.

❸ Set the minute.

To go forward

To go backward

IO:08:

3 Press (DSPL).

IO:08
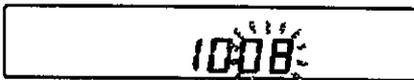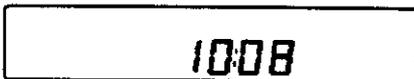
The clock starts.

Note
If the car has no accessory position on the ignition
key switch, the clock cannot be set unless the power
is turned on. Set the clock after you have turned on
the radio, or started CD playback.

Memorizing stations automatically
— Best Tuning Memory (BTM)

This 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 (FM I, FM II, FM III, and AM).

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 mode
changes as follows:
CD ←→ TUNER

2 Press (MODE) repeatedly to select the
band.
Each time you press (MODE), the band
changes as follows:

→ FM I ⟶ FM II ⟶ FM III ⟶ AM ⟶

3 Press (SENS/BTM) for two seconds.
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 store up to 6 stations on each band (a total of 18 for FM I, FM II, and FM III, and 6 for AM) in the order of your choice.

1 Press (SOURCE) repeatedly to select the tuner.

2 Press (MODE) repeatedly to select the band.

3 press and hold either side of (SEEK/AMS) to tune in the station that you want to store on the number button.

4 Press and hold the desired number button ((1) to (6)) 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 (SOURCE) 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.

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 (SENS/BTM) repeatedly until "LOCAL" (local seek mode) is displayed. Only the stations with relatively strong signals will be tuned in.

Tip
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

Press (SENS/BTM) repeatedly until "MONO" appears.
The sound improves, but becomes monaural ("STEREO" disappears).

To return to normal mode, press again until "MONO" disappears.

Changing the display item
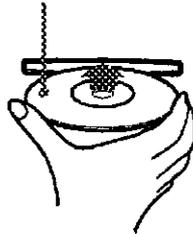Each time you press (DSPL), the item changes as follows:
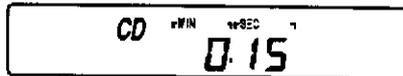
Frequency ←→ Clock

Listening to a CD

Insert a CD.
Playback starts automatically.

Label side up

If a CD is already inserted, press (SOURCE) repeatedly until "CD" appears to start playback.
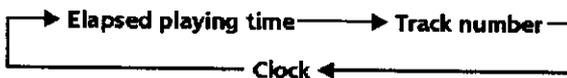
```
CD  mIN  SEC
     0. 15
```

Elapsed playing time

Note
To play back an 8 cm (3 in.) CD, use the optional Sony compact disc single adapter (CSA-8).

To	Press
Stop playback	▲ or (OFF)
Eject the CD	▲

Changing the display item

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

Elapsed playing time ⟶ Track number
Clock ⟵

Locating a specific track
— Automatic Music Sensor (AMS)

During CD playback, press either side of (SEEK/AMS) for each track you want to skip.
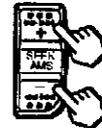
 To locate succeeding tracks

To locate preceding tracks

Locating a specific point in a track
— Manual Search

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

 To search forward

To search backward

Note
If "L L L L" or "7 7 7 7" 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

Playing tracks repeatedly
— Repeat Play

Press ① during playback.
"REPEAT" appears in the display.

When the current track is over, it will play again from the beginning.

To return to normal playback mode, press again.

Playing tracks in random order
— Shuffle Play

Press ② during playback.
"SHUF" appears in the display.

To return to normal playback mode, press again.

Adjusting the sound characteristics

You can adjust the bass, treble, balance, and fader. You can store the bass and treble levels. Each source can store the bass and treble level independently.

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

BAS (bass) → TRE (treble) →
BALANCE (left-right) → FADER (front-rear)
→ VOL (volume)

2 Adjust the selected item by pressing ⊕ or ⊖.
Adjust within three seconds after selecting the item. (After three seconds, the buttons function reverts to volume control buttons.)

Cancel the beep sound

Press ⑥ while pressing (SOUND).

To obtain the beep sound again, press these buttons again.

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

Boosting the bass sound
— D-bass

You can enjoy a clear and powerful bass sound. The D-bass function boosts the low frequency 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)
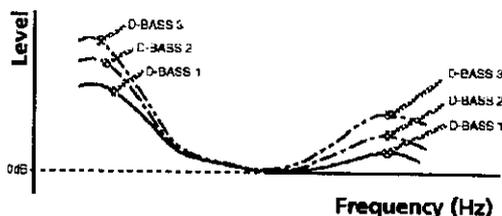
Adjusting the bass curve

Press (D-BASS) repeatedly to select the desired bass curve.
"D-BASS" appears in the display.
As the D-BASS number increases so does the effect.

D-BASS 1 → D-BASS 2 → D-BASS 3 →
D-BASS OFF

Note
The bass sound may distort at same volume. If the bass sound distorts, select less effective bass curve.

Attenuating the sound

Press (ATT).
"ATT" flashes.

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

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.	• Adjust the volume with ⊕. • Set the fader control to the center position for two-speaker systems.
The contents of the memory have been erased.	• The power cord or battery has been disconnected. • The reset button has been pressed. → Store the settings again into the memory.
No beep sound.	• An optional power amplifier is connected and you are not using the built-in amplifier. • The beep sound is cancelled.

CD playback

Problem	Cause/Solution
CD cannot be loaded.	• Another CD is already loaded. • The CD was forcibly inserted upside down.
Play does not begin.	Dirty disc.
CD is automatically ejected.	The ambient temperature exceeds 50°C (122°F).
CD will not eject. The operation buttons do not function.	Press the reset button.
The sound skips due to vibration.	• The unit is installed at an angle of more than 60°. • The unit is not installed in a sturdy part of the car.

Radio reception

Problem	Cause/Solution
Preset tuning is not possible.	• Memorize the correct frequency. • The broadcast signal is too weak.
Automatic tuning is not possible.	The broadcast signal is too weak. → Use manual tuning.
The stations cannot be received. The sound is hampered by noises.	Connect an power aerial control lead (blue) or accessory power supply lead (red) to the power supply lead of a car's aerial booster. (When your car has built-in FM/AM aerial in the rear/side glass only.)
The "STEREO" indication flashes.	• Tune in the frequency accurately. • The broadcast signal is too weak. → Set to the MONO mode.

Error displays

The following indications will flash for a while.

Display	Cause	Solution
E - 04	A CD is dirty or inserted upside down.	Clean or insert the CD correctly.
E - 99	The CD player cannot be operated because of some problem.	Press the reset button.

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

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 no sound comes from the speakers of a two-speaker system, set the fader control to the center position.
• 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.

Notes on handling CDs

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

Do not stick paper or tape on the labeled surface.
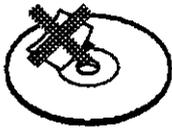
Do not expose the discs to direct sunlight or heat sources such as hot air-ducts, or leave them in a car parked in direct sunlight where there can be a considerable rise in temperature inside the car.
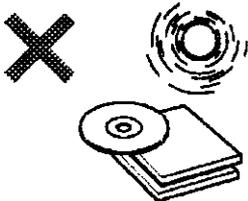
Before playing, clean the discs with an optional cleaning cloth. Wipe each disc from the center out.
Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog discs.

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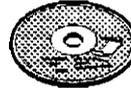
Do not use second-hand or rental CDs that have a sticky residue on the surface (for example from peeled-off stickers or from ink, or glue leaking from under the stickers).
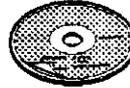
**There are paste residue
Ink is sticky**

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 moisture condensation

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

When you play 8 cm (3 in.) CDs

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

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.


Fuse (10 A)
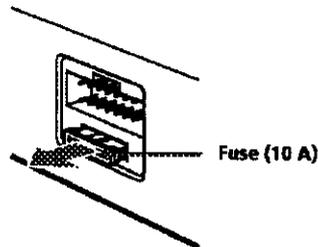
Warning

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 (RELEASE), 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.
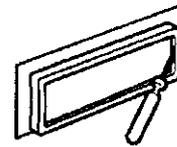

Main unit

Back of the front panel
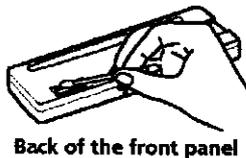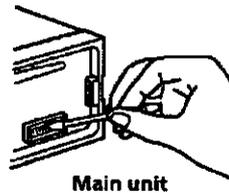
Notes
* *For safety, turn off the engine before cleaning the connectors and remove the key from the ignition switch.*
* *Never touch the connectors directly with your fingers or any metal device.*

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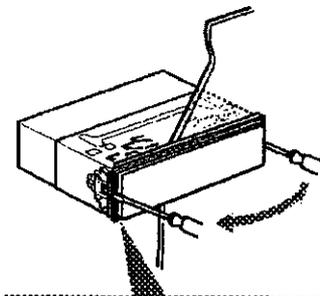
1 Press the clip inside the front cover with a thin screwdriver, and gently pry the front cover free.

2 Repeat step 1 on the left side.
The front cover is removed.
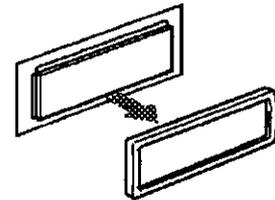
3 Insert a flathead screwdriver between the bracket and mounting spring. Gently pry the spring toward the unit while pulling the unit out a little. Repeat on the opposite side and remove the unit.

4 mm (³/₁₆ in.)
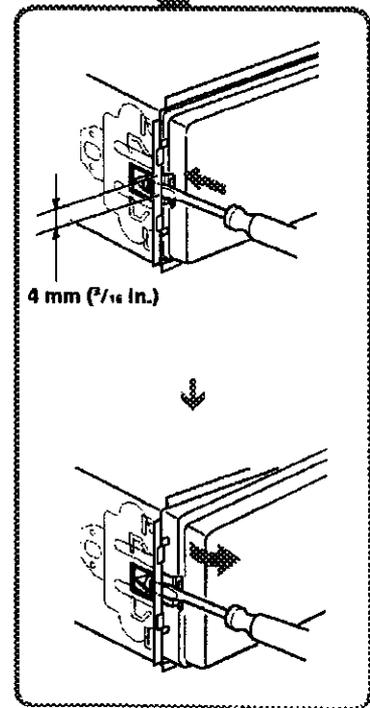
Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

18 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

CD player section

System	Compact disc digital audio system
Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit
Laser Diode Properties	
Material	GaAs + GaAlAs
Wavelength	785 – 815 nm (Typ.800 nm)
Emission Duration	Continuous
Laser output power	Less than 0.5 mW*

* This output is the value measured at a distance of 0.7 mm from the objective lens surface on the Optical Pick-up Block.

Tuner section

FM

Tuning range	87.5 – 107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	12 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	
	0.7 % (stereo), 0.5 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

AM

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 μV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	45 W × 4 (at 4 ohms)

General

Outputs	Audio output Power amplifier control Power antenna relay control
Tone controls	Bass +8 dB at 100 Hz. Treble ±8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178×50×178 mm (7 ^{1}/8 × 2 × 7 ^{1}/8 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 162 mm (7 ^{1}/4 × 2 ^{1}/8 × 6 ^{1}/2 in.) (w/h/d)
Mass	Approx. 1.2 kg (2 lb. 10 oz.)
Supplied accessories	Parts for installation and connections (1 set)
Optional accessories	Compact disc single adapter CSA-8

Design and specifications are subject to change without notice.