

SONY[®]

3-858-494-11 (1)

FM/AM Compact Disc Player

Operating Instructions _____

EN

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



CDX-3107

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Actual total number:

Sony CDX-3107 (E) 3-858-494-11 (1)

Features

General

- **Detachable-front panel** enables you to take the front panel away with you when you leave your car (page 4).
- **Caution alarm** will be activated if you turn off the ignition key without removing the front panel from the unit.
- **12-hour digital clock** provided (page 5).
- **Built-in power amplifier (max. output: 30 W × 4 ch.)** enables you to enjoy 4-speaker systems.
- Line outputs for connecting an optional power amplifier.

CD player section

- **1 bit DAC** (Digital-to-Analog Converter) for clear sound reproduction.
- **Quick recovery mechanism** for preventing sound skipping.
- Convenient functions such as the **Intro Scan Function** for locating a desired track, the **Repeat Play Function** for playing a track repeatedly, and the **Shuffle Play Function** for playing tracks in random order.

Tuner section

- Up to 24 stations can be preset: 18 FM stations and 6 AM stations .
- **Automatic Memory function** stores a total of 24 stations in memory quickly and easily (page 8).

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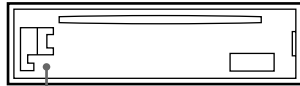
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Precautions

- Before operating the unit for the first time or after replacing the car battery, press the reset button with a ballpoint pen etc., then operate the unit.



Reset button

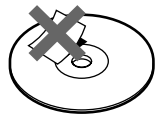
- If your car was parked in direct sunlight resulting in a considerable rise in temperature inside the car, allow the unit to cool off before operating it.
- If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
- If no sound comes from the speakers in 2-speaker systems, set the fader control to the centre position.

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

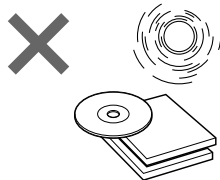
Notes on CDs



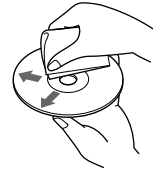
A dirty or defective disc may cause sound dropouts during playback. To enjoy optimum sound, handle the disc as follows. Handle the disc by its edge to keep the disc clean. Do not touch the surface.



Do not stick paper or tape on the labelled surface.



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



Before playing, clean the discs with an optional cleaning cloth. Wipe each disc from the centre of the disc outward.

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

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 has evaporated.

When you play 8 cm CDs

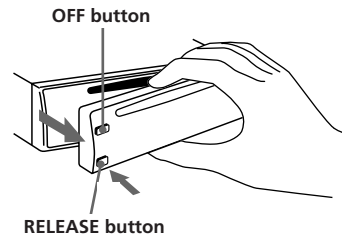
To use the optional Sony compact disc single adapter (CSA-8) to protect the CD player from damage.

Detaching and Attaching the Front Panel

The front panel of this unit can be detached in order to prevent the unit from being stolen.

Detaching the Front Panel

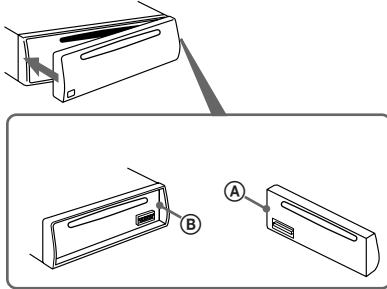
Before detaching the front panel, be sure to press the OFF button first. Then press the RELEASE button to open up the front panel and detach the panel by pulling it towards you as illustrated.



Be sure not to drop the panel after detaching it from the unit.

Attaching the Front Panel

Apply the right side of the front panel to the unit by attaching part (A) of the front panel to part (B) of the unit as illustrated, then swing the left side into the unit until it clicks.



Notes

- Make sure that the front panel is the right way up when attaching it to the unit as it cannot be attached upside down.
- Do not press the front panel hard against the unit when attaching it to the unit. It can easily be attached by pressing it lightly against the unit.
- When you carry the front panel with you, put it in the supplied front panel case.
- Do not press hard or give excessive pressure to the display window of the front panel.
- Before removing the front panel, be sure to turn the power off. However, if you press the RELEASE button to detach the panel while the unit is still turned on, the power will automatically turn off in order to protect the speakers from being damaged.
- Do not expose the front panel to direct sunlight, heat sources such as hot air ducts or leave it in a humid place. Never leave it on the dashboard etc. of a car parked in direct sunlight where there may be a considerable rise in temperature inside the car.

Caution Alarm

If you turn the ignition key switch to the OFF position without removing the front panel, the caution alarm will be activated, and a beep tone will be heard for a few seconds (only for cars with an accessory position on the ignition key switch).

Setting the Clock

The clock has a 12-hour digital indication.

For example, setting it to 10:08

1 Display the time.

(Press the **OFF** or **DSPL** button during unit operation.)

2 Press the **DSPL** button for more than two seconds.

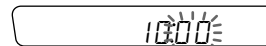


The hour digit(s) blinks.

Set the hour digits.

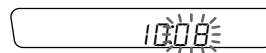


3 Press the SEL button momentarily.



The minute digits blink.

Set the minute digits.



4 Press the **DSPL** button momentarily.

The clock activates.

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.

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CD Player Operation

Playing a CD

After inserting the CD, playback will start from the first track automatically.

Label side up

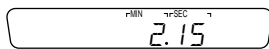


If an CD is already inserted, press the CD button to start playback.

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When the unit starts CD playback, the elapsed playing time will be displayed.

To display the elapsed playing time and the track number alternately, press the **DSPL** button.



Elapsed playing time

When the last track on the CD is over,

the track number indication will return to "1", and playback will continue from the first track of the CD.

Note

To play a 8 cm CD, use the optional Sony compact disc single adapter (CSA-8).

To stop playback,

eject the CD by pressing the **EJECT** button or press the **OFF** button. Playback stops also when you select another source (radio) by pressing the FM/AM button.

Ejecting the CD

Press the **EJECT** button.

Note

If you leave the ejected disc in the disc insertion slot after you have pressed the **EJECT** button, the disc will automatically retract into the unit after about 15 seconds in order to protect it.

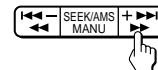
Locating the Beginnings of Tracks

— AMS (Automatic Music Sensor) Function

During playback, press either side of the **SEEK/AMS/MANU** button once for each track you wish to skip.



To locate previous tracks



To locate succeeding tracks

Locating the Desired Part of a Track — Manual Search Function

During playback, press and hold either side of the **SEEK/AMS/MANU** button for more than two seconds. Release the button when you have found the desired part.



To reverse



To forward

If you reverse to the beginning of the disc, " _ _ " appears on the display. Forwarding to the end of the disc causes " _ _ " to be displayed.

In either case, you can neither proceed to the previous nor the following track.

Searching for the Desired Track — Intro Scan Function

Press the **INTRO 1** button during playback. → "INTRO" appears on the display.

The first 10 seconds of all the tracks are played. When you find the desired track, press the button once more. The unit returns to normal playback mode.


Playing Tracks Repeatedly

— Repeat Play Function

Press the **REPEAT 2** button during playback. → "REPEAT" appears on the display.

When the currently played track is over, it will be played again from the beginning. To cancel this mode, press the button again.

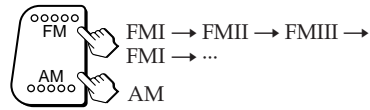
Playing Tracks in Random Order — Shuffle Play Function

Press the  button during playback. → "SHUF" appears on the display. All tracks on the currently selected disc are played in random order.

Radio Reception

Searching for Stations Automatically — Automatic Tuning

1 Select the desired band.



2 Press either side of the SEEK/AMS/MANU button once to search for the next station (automatic tuning).

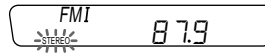


For lower frequencies


For higher frequencies

The scanning stops when a station is received. Press either side of the SEEK/AMS/MANU button repeatedly until the desired station is received.

When an FM stereo programme with sufficient signal strength is tuned in,



the "STEREO" indication appears.

To keep the automatic tuning from stopping on stations too frequently (local seek mode), press the  button momentarily to get the "LOCAL" indication.

Only the stations with relatively strong signals will be tuned in. The local seek mode functions only when automatic tuning is in operation.

If FM Stereo Reception is Poor — Monaural Mode

Press the  button momentarily. → "MONO" appears on the display. The sound will improve, but it will be monaural.

By pressing the  button, you can change the displayed items as follows:



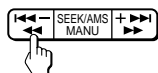
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CD Player Operation/Radio Reception

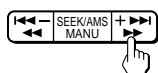
7

Tuning in by Adjusting the Frequency — Manual Tuning

- 1 Select the desired band (page 7).
- 2 Press and hold either side of the SEEK/AMS/MANU button.
Release the button when the desired station is received.



For lower frequencies



For higher frequencies

PREVENT ACCIDENTS!

When tuning in during driving, use automatic tuning.

Memorising Stations Automatically

— Automatic Memory Function

Stations with the clearest reception are automatically searched and memorised on each band (FMI, FMII, FMIII and AM). Up to 6 stations on each band can be stored on the preset number buttons 1 to 6 in the order of band frequency.

- 1 Select the desired band (page 7).
- 2 Press the **A.MEM** button for more than two seconds.
The unit will start scanning the selected band and memorise the tuned stations on the preset number buttons 1 through 6 automatically.

Memorising Only the Desired Stations

- 1 Select the desired band (page 7).
- 2 Tune in the station which you wish to store on a preset number button.
- 3 Press and hold the desired preset number button (**1** to **6**) for about two seconds until you hear a beep tone.

The number of the pressed preset number button appears in the display window.

Up to 6 stations on each band (FMI, FMII, FMIII and AM) can be stored on the preset number buttons in the order of your choice. Therefore, 18 stations can be memorised on FM.

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

Receiving the Memorised Stations

- 1 Select the desired band (page 7).
- 2 Press momentarily the preset number button (**1** to **6**) on which the desired station is stored.

Note

If you press the preset number button for more than two seconds, the currently received station will be memorised. To receive the previously memorised station, make sure that the preset number button is pressed only momentarily.

Other Functions

Adjusting the Sound Characteristics

- 1 Select the item you want to adjust by pressing the SEL button repeatedly.

VOL (volume) → BAS (bass) → TRE (treble) → BALANCE (balance) → FADER (fader) → VOL (volume) → ...

- 2 Adjust the selected item by pressing either side of the +/- button.

Adjust within three seconds after selecting. (After three seconds the buttons will again serve as volume control buttons.)

Enjoying Bass and Treble at Low Volume

— Loudness Function

Press the  button while pressing SEL button. → "LOUD" will appear on the display.

The bass and treble will be boosted. To cancel, press again.


Muting the Sound Quickly

— Mute Function

Press the  button. → The "MUTE" indication flashes.

The sound is muted at once. To restore the previous volume level, press again.

This function will be also cancelled when:

- + side of the +/- or OFF button is pressed.
- ejecting a CD by pressing the  button during CD playback.

Muting the Beep Tone

Press the  button while pressing the SEL button.

To reactivate the beep tone again, press these buttons once more.

Note

When connecting an optional power amplifier to the LINE OUT, the beep tone is disabled.

Turning on the Clock Display — Power Select Function

Only for cars with accessory position on the ignition key switch.

To turn the Power Select Function ON Press the  button while pressing the SEL button.

The Power Select Function ties the clock display power to the accessory position on the ignition key switch.

To avoid battery wear, the clock is not displayed while the unit is initializing.

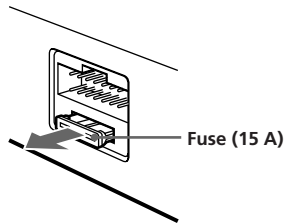
EN

Radio Reception/Other Functions

Maintenance

Fuse Replacement

When replacing the fuse, be sure to use one matching the amperage rating stated on the 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.



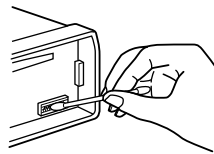
Warning

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

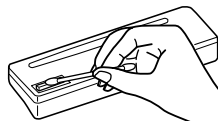
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Cleaning the Connectors

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 the RELEASE button, 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.



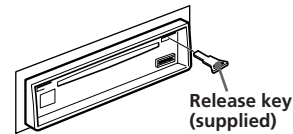
Main unit



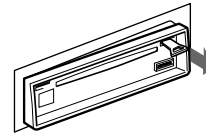
Back of the front panel

Dismounting the Unit

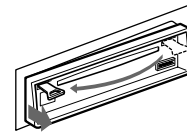
1



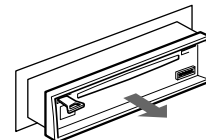
2



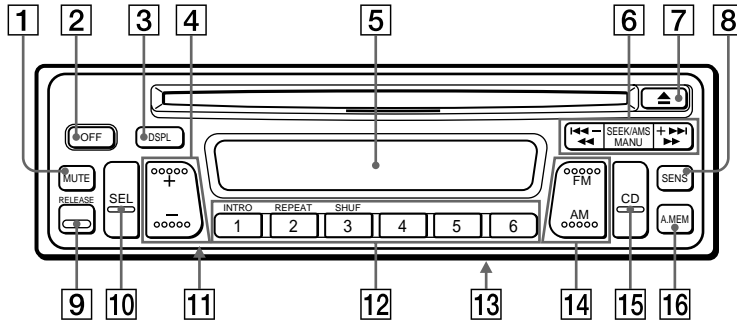
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4



Location of Controls



Refer to the pages in ● for details.

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- 1 MUTE button ●
- 2 OFF button ●●●●●
- 3 DSPL (display mode change/time set) button ●●
- 4 +/- (volume/bass/treble/balance/fader control) button ●●
- 5 Display window
- 6 SEEK/AMS/MANU (automatic music sensor/automatic tuning/manual search) button ●●●●
- 7 ▲ (eject) button ●●
- 8 SENS (sensitivity adjust) button ●
- 9 RELEASE (front panel release) button ●●
- 10 SEL (control mode select) button ●●
- 11 Reset button (located on the front side of the unit hidden by the front panel) ●
- 12 During radio reception:
Preset number buttons ●
- During CD playback:
 - 1 INTRO (intro scan) button ●
 - 2 REPEAT (repeat play) button ●
 - 3 SHUF (shuffle play) button ●
- 13 Frequency Select switch (located on the bottom of the unit)
See "Frequency Select switch" in the Installation/Connections manual.
- 14 FM/AM (radio on/band select) button ●●
- 15 CD (CD play) button ●
- 16 A.MEM (Automatic Memory function) button ●

When the position of switch 13 have been changed, be sure to press the reset button after connecting power.

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

Tuner section

FM

Tuning range	FM tuning interval: 50 kHz/200 kHz switchable 87.5 – 108.0 MHz (at 50 kHz step) 87.5 – 107.9 MHz (at 200 kHz step)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	13 dBf
Selectivity	70 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	0.5 % (stereo), 0.3 % (mono)
Separation	33 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

AM

Tuning range	AM tuning interval: 9 kHz/10 kHz switchable 531 – 1,602 kHz (at 9 kHz step) 530 – 1,710 kHz (at 10 kHz step)
Antenna terminal	External antenna connector
Intermediate frequency	450 kHz
Sensitivity	32 μ V

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	30 W \times 4 (at 4 ohms)

General

Output lead	Power antenna control lead/Power amplifier control lead
Tone controls	Bass \pm 10 dB at 100 Hz Treble \pm 10 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 \times 58 \times 180 mm (w/h/d)
Mounting dimension	Approx. 183 \times 53 \times 158 mm (w/h/d)
Mass	Approx. 1.3 kg
Supplied accessories	Parts for installation and connections (1 set) RCA pin cord RC-63 (1 m), RC-64 (2 m), RC-65 (5 m) Cleaning cloth XP-CD1 Compact disc single adapter CSA-8
Optional accessories	

Design and specifications are subject to change without notice.

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Troubleshooting Guide

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

Before going through the checklist below, refer to the connection and operating procedures.

General

Problem	Cause/Solution
No sound.	<ul style="list-style-type: none">• Adjust the volume with + side of the +/- button.• Set the fader control to the centre position for 2-speaker systems.
The contents of the memory have been erased.	<ul style="list-style-type: none">• The power cord or battery has been disconnected.• The reset button has been pressed. → Store stations into the memory again.
Indications do not appear on the display.	Remove the front panel and clean the connectors. See "Cleaning the Connectors" of "Maintenance" for details.
No beep tone.	<ul style="list-style-type: none">• An optional power amplifier is connected to the LINE OUT.• The beep tone is muted (page 9).

CD playback

Problem	Cause/Solution
CD cannot be loaded.	<ul style="list-style-type: none">• Another CD is already loaded.• The CD is forcibly inserted upside down.
Play does not begin.	Dusty disc.
CD is automatically ejected.	The ambient temperature is more than 50°C.
CD will not eject.	Press the ▲ button for more than two seconds.
The operation buttons do not function.	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 in a sturdy part of the car.

Radio reception

Problem	Cause/Solution
Preset tuning is not possible.	<ul style="list-style-type: none">• Memorise the correct frequency.• The broadcast is too weak.
Automatic tuning is not possible.	The broadcast is too weak. → Use manual tuning.
The "STEREO" indication flashes.	<ul style="list-style-type: none">• Tune in precisely.• The broadcast is too weak. → Press the (SENS) button to enter the MONO mode.

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Error displays

The following indications will flash for about five seconds.

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

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

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Sony Corporation Printed in South Africa

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Actual total number:

Sony CDX-3107 (E) 3-858-494-11 (1)