

## Precautions

### On safety

- As the laser beam used in the CD player section is harmful to the eyes, do not attempt to disassemble the casing. Refer servicing to qualified personnel only.
- Should any solid object or liquid fall into the player, unplug the player, and have it checked by qualified personnel before operating it any further.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this player. Attempting to do so may damage the player. Do not use such discs.

### Cleaning the cabinet

- Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzine.

### On power sources

- For AC operation, check that the player's operating voltage is identical with your local power supply (see "Specifications") and use the supplied mains lead; do not use any other type.
- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- For battery operation, use six R20 (size D) batteries.
- When the batteries are not to be used, remove them to avoid damage that can be caused by battery leakage or corrosion.
- The nameplate indicating operating voltage, power consumption, etc. is located at the bottom.

### On placement

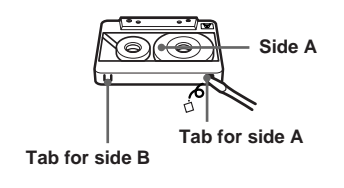
- Do not leave the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Do not place the player on an inclined or unstable place.
- Do not place anything within 10 mm of the side of the cabinet. The ventilation holes must be unobstructed for the player to operate properly and prolong the life of its components.
- If the player is left in a car parked in the sun, be sure to choose a location in the car where the player will not be subjected to the direct rays of the sun.
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the player to prevent possible damage from the magnet.

### On operation

- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the CD player section. Should this occur, the player will not operate properly. In this case, remove the CD and wait about an hour for the moisture to evaporate.
- If the player has not been used for a long time, set it in the playback mode to warm it up for a few minutes before inserting a cassette.

### Notes on cassettes

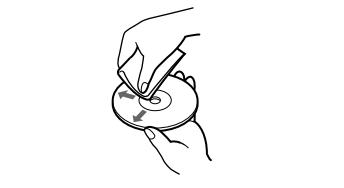
- Break off the cassette tab from side A or B to prevent accidental recording. If you want to reuse the tape for recording, cover the broken tab with adhesive tape.



- The use of a cassette with more than 90 minutes of play time is not recommended except for long, continuous recording or playback.

### Notes on CDs

- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.



- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
  - Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in temperature inside the car.
  - Do not stick paper or sticker on the CD, nor scratch the surface of the CD.
  - After playing, store the CD in its case.
- If there is a scratch, dirt or fingerprints on the CD, it may cause tracking error.

### About CD-Rs/CD-RWs

This player can play CD-Rs/CD-RWs recorded in the CD-DA format\*, but playback capability may vary depending on the quality of the disc and the condition of the recording device.

\* CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for Audio CDs.

### Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

## Troubleshooting

### General

**The power does not come on.**

- Make sure the batteries are inserted correctly.
- Replace all the batteries with new ones if they are weak.
- You cannot turn on the player with the remote when you operate the player on batteries.

**The power is not on, and "bAttErY" and "Error" are displayed alternately.**

- Make sure the batteries are inserted correctly.
- Replace all the batteries with new ones if they are weak.

**There is no audio.**

- Adjust the volume.
- Unplug the headphones when listening through speakers.

**Noise is heard.**

- Someone is using a portable telephone or other equipment that emits radio waves near the player. →Move the portable telephone, etc., away from the player.

#### CD Player

**The CD does not play or "no DISC" lights in the display even when a CD is in place.**

- Place the CD with the label surface up.
- Clean the CD.
- Take out the CD and leave the CD compartment open for about an hour to dry moisture condensation.
- The CD-R/CD-RW was not finalized. Finalize the CD-R/CD-RW with the recording device.
- There is a problem with the quality of the CD-R/CD-RW, recording device or application software.
- The CD-R/CD-RW is blank.
- Replace all the batteries with new ones if they are weak.

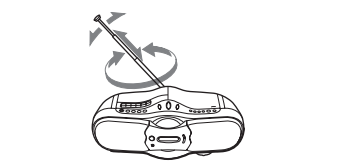
**The sound drops out.**

- Reduce the volume.
- Clean the CD, or replace it if the CD is badly damaged.
- Place the player in a location free from vibration.
- Clean the lens with a commercially available blower.
- The sound may drop out or noise may be heard when using poor quality CD-Rs/CD-RWs or if there is a problem with the recording device or application software.

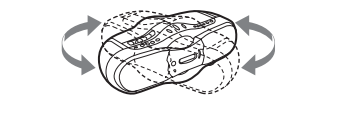
#### Radio

**Reception is poor.**

- Reorient the aerial to improve FM reception.



- Reorient the player itself to improve AM or MW/LW reception.



**The audio is weak or has poor quality.**

- Replace all the batteries with new ones if they are weak.
- Move the player away from the TV.

**The picture of your TV becomes unstable.**

- If you are listening to an FM programme near the TV with an indoor aerial, move the player away from the TV.

#### Tape Player

**The tape does not move when you press an operation button.**

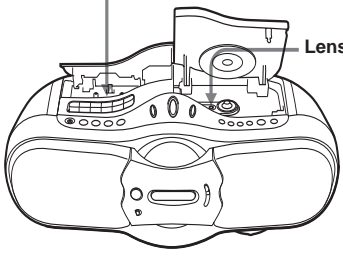
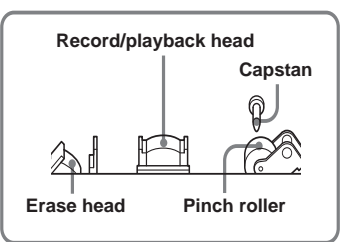
- Close the cassette compartment securely.

**The ● button does not function or the tape does not play or record.**

- Make sure the safety tab on the cassette is in place.

**Poor or distorted playback, recording or erasing quality.**

- Clean the heads, pinch roller and capstan with a cleaning swab slightly moistened with cleaning fluid or alcohol.
- Replace all the batteries with new ones if they are weak.
- TYPE II (high position) or TYPE IV (metal) tape is being used. Use TYPE I (normal) tape only.
- Demagnetize the heads using a commercially available tape head demagnetizer.



#### Remote

**The remote does not function.**

- Replace all the batteries in the remote with new ones if they are weak.
- Make sure that you are pointing the remote at the remote sensor on the player.
- Remove any obstacles in the path of the remote and the player.
- Make sure the remote sensor is not exposed to strong light such as direct sunlight or fluorescent lamp light.
- Move closer to the player when using the remote.

After trying the above remedies, if you still have problems, unplug the mains lead and remove all the batteries. After all the indications in the display disappear, plug the mains lead and insert the batteries again. If the problem persists, please consult your nearest Sony dealer.

## Specifications

#### CD player section

System

Compact disc digital audio system

Laser diode properties

Material: GaAlAs

Wave length: 780 nm

Emission duration: Continuous

Laser output: Less than 44.6 μW

(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

Spindle speed

200 r/min (rpm) to 500 r/min (rpm)

(CLV)

Number of channels

2

Frequency response

20 - 20 000 Hz +1/-2 dB

Wow and flutter

Below measurable limit

#### Radio section

Frequency range

**CFD-F10**

FM 87.5 - 108 MHz

AM 531 - 1 611 kHz (9 kHz step)

530 - 1 710 kHz (10 kHz step)

**CFD-F10L**

FM 87.5 - 108 MHz

MW 531 - 1 611 kHz (9 kHz step)

530 - 1 610 kHz (10 kHz step)

LW 153 - 279 kHz

IF

FM: 10.7 MHz

AM/MW/LW: 450 kHz

Aerials

FM: Telescopic aerials

AM/MW/LW: Built-in ferrite bar aerials

#### Cassette-corder section

Recording system

4-track 2 channel stereo

Fast winding time

Approx. 110 s (sec.) with Sony cassette C-60

Frequency response

TYPE I (normal): 80 - 13 000 Hz

### General

Speaker

Full range: 10 cm dia., 6 Ω, cone type (2)

Tweeter: 2 cm dia. (2)

Passive Radiator: 10 cm dia. (1)

Input

LINE IN jack (stereo minijack) (CFD-F10L only):

Minimum input level 330 mV

Outputs

Headphones jack (stereo minijack):

For 16 - 68 Ω impedance headphones

OPTICAL DIGITAL OUT (CD) (Optical output connector) (CFD-F10L only):

Wavelength: 630 - 690 nm

Maximum Power output

8 W

Power requirements

For CD radio cassette-corder:

Argentine model: 220 - 230 V AC, 50 Hz

Other models: 230 V AC, 50 Hz

9 V DC, 6 R20 (size D) batteries

For remote control:

3 V DC, 2 R03 (size AAA) batteries

Power consumption

AC 25 W

Battery life

For CD radio cassette-corder:

<b>FM recording</b>
Sony R20P: approx. 3.5 h
Sony alkaline LR20: approx. 10 h
<b>Tape playback</b>
Sony R20P: approx. 1.5 h
Sony alkaline LR20: approx. 5 h
<b>CD playback</b>
Sony R20P: approx. 1 h
Sony alkaline LR20: approx. 4 h

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Dimensions

Approx. 515 × 201 × 287 mm (w/h/d) (20 ¼ × 8 × 11 ½ inches)(incl. projecting parts)

Mass

Approx. 5.1 kg (11 lb. 4 oz) (incl. batteries)

Supplied accessory

Mains lead (1)

Remote control (1)

Design and specifications are subject to change without notice.

#### Optional accessories

Sony MDR headphone series

## SONY®

# CD Radio Cassette-Corder

### Operating Instructions

### Operating Instructions

### CFD-F10

### CFD-F10L

## CFD-F10

## CFD-F10L

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3-264-046-12 (1)

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http://www.sony.net/

## Power Sources

Connect the mains lead **A** or insert six R20 (size D) batteries (not supplied) into the battery compartment **B**.

### Notes

- Replace the batteries when the OPR/BATT indicator dims or when the player stops operating. Replace all the batteries with new ones. Before you replace the batteries, be sure to take out the CD from the player.
- To use the player on batteries, disconnect the mains lead from the player.
- When you operate the player on batteries, you cannot turn on the player using the remote.

### Preparing the remote **C**

Insert two R03 (size AAA) batteries (not supplied).

### Replacing batteries

With normal use, the batteries should last for about six months. When the remote no longer operates the player, replace all the batteries with new ones.

#### English

### WARNING

**To prevent fire or shock hazard, do not expose the player to rain or moisture.**

**To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.**

**WARNING**

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the appliance.

**Notice for customers in the United Kingdom**

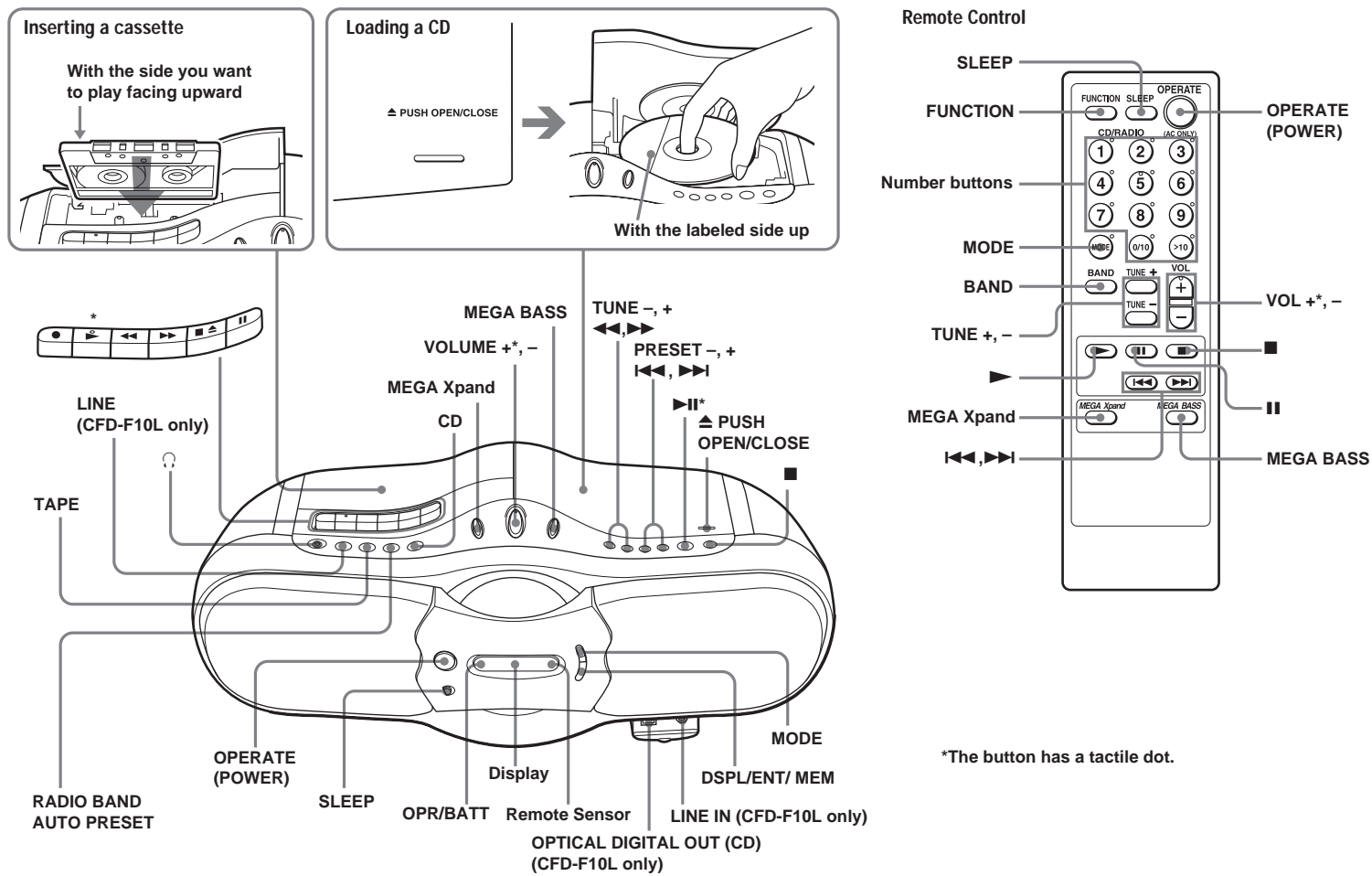
A moulded plug complying with BS 1363 is fitted to this equipment for your safety and convenience.

Should the fuse in the plug supplied need to be replaced, same rating fuse approved by ASTA or BSI to BS 1362, (i.e. marked with ⚡ or ⚡ mark) must be used.

If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.

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## Location of controls



### To turn on/off the power

CFD-F10L: Press OPERATE.

CFD-F10: Press POWER.

### To adjust the volume

Press VOLUME +, - (VOL +, - on the remote).

### To listen through headphones

Connect the headphones to the (headphones) jack.

## Adjusting the sound emphasis

### To reinforce the bass sound

Press MEGA BASS.

“MEGA BASS” appears in the display.

To return to normal sound, press the button again.

### To get the MEGA Xpand effect

Press MEGA Xpand.

“MEGA Xpand” appears in the display.

You can get the effect of expansion of the sound field.

To return to normal sound, press the button again.

## Playing a CD

- Press CD (direct power-on).  
(On the remote, press OPERATE (or POWER) and then press FUNCTION repeatedly until “Cd” appears in the display.)
- Load a CD in the CD compartment.
- Press to close the CD compartment.
- Press on the remote).  
The player plays all the tracks once.

To	Press
stop playback	
pause playback	(   on the remote) Press the button again to resume play after pause.
go to the next track	
go back to the previous track	
remove the CD	
locate a point while listening to the sound	(forward) or  (backward) while playing until you find the point ( or  on the remote)
locate a point while observing the display	(forward) or  (backward) in pause until you find the point ( or  on the remote)
locate a specific track directly*	a number button of the track on the remote

\* You cannot locate a specific track if “SHUF” or “PGM” is lit in the display. Turn off the indication by pressing .

### Tip

To locate a track numbered over 10, press >10 first, then the corresponding number buttons on the remote.

Example: To play track number 23, press >10 first, then 2 and 3.

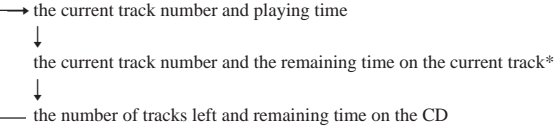
## Using the display

### To check the total track number and playing time

Press DSPL/ENT/MEM in stop mode (see fig. ).

### To check the remaining time

Press DSPL/ENT/MEM repeatedly while playing a CD. The display changes as follows:



\* For a track whose number is more than 20, the remaining time appears as “-:--” in the display.

## Selecting the play mode

Press MODE until “REP 1” “REP ALL” “SHUF” “SHUF REP” “PGM” “PGM REP” appears in the display. Then proceed as follows:

To	Select	Then do this
repeat a single track	“REP 1”	Press  or  to select the track that you want to repeat, then press .
repeat all tracks	“REP ALL”	Press .
shuffle play	“SHUF”	Press .
repeat tracks in random order	“SHUF REP”	Press .
programme play	“PGM”	Press  or  then press DSPL/ENT/MEM for the tracks you want to programme in the order you want up to 20 tracks (see fig. ). Then press .
repeat programmed tracks	“PGM REP”	Press  or  then press DSPL/ENT/MEM for the tracks you want to programme in the order you want up to 20 tracks. Then Press .

### On the remote

When you’ve selected “PGM” or “PGM REP”, press the number buttons for the track you want up to 20 tracks, then press .

### To cancel selected play mode

Press MODE repeatedly until the selected mode disappears from the display.

### To check the programmed track and playing order in the display

To check the order of tracks before play, press DSPL/ENT/MEM.

Every time you press the button, the track number appears in the programmed order.

### To change the current programme

Press once if the CD is stopped and twice if the CD is playing. The current programme will be erased. Then create a new programme following the programming procedure.

### Tips

- You can play the same programme again, since the programme is saved until you open the CD compartment.
- You can record your own programme. After you’ve created the programme, insert a blank tape and press to start recording.

## Listening to the radio

- Press RADIO BAND•AUTO PRESET until the band you want appears in the display (direct power-on).  
Each time you press the button, the indication changes as follows:  
CFD-F10: “FM” → “AM”  
CFD-F10L: “FM” → “MW” → “LW”
- Hold down TUNE + or – until the frequency digits begin to change in the display.  
The player automatically scans the radio frequencies and stops when it finds a clear station.  
If you can’t tune in a station, press the button repeatedly to change the frequency step by step.

### Tip

If the FM broadcast is noisy, press MODE repeatedly until “Mono” appears in the display and the radio will play in monaural.

### Changing the AM/MW tuning interval

The AM/MW tuning interval is preset to 9 kHz at the factory.

If you need to change the AM/MW tuning interval, do the following:

- While keeping the RADIO BAND•AUTO PRESET button and TAPE button pressed, disconnect the mains lead from the mains.
- While keeping the RADIO BAND•AUTO PRESET button and TAPE button pressed, reconnect the mains lead to the mains. The tuning interval is changed and “AM 9” “MW 9” or “AM 10” “MW 10” appears in the display for 2 seconds.

After changing the tuning interval, you need to reset your preset radio stations.

## Presetting radio stations

You can store radio stations into the player’s memory. You can preset up to 30 radio stations (CFD-F10), 20 for FM and 10 for AM in any order, or 40 radio stations (CFD-F10L), 20 for FM, 10 for MW and 10 for LW in any order.

- Press RADIO BAND•AUTO PRESET to select the band.
- Hold down RADIO BAND•AUTO PRESET for 2 seconds until “AUTO” flashes in the display.
- Press DSPL/ENT/MEM.  
The stations are stored in memory from the lower frequencies to the higher ones.

### If a station cannot be preset automatically

You need to preset a station with a weak signal manually.

- Press RADIO BAND•AUTO PRESET to select the band.
- Tune in a station you want.
- Hold down DSPL/ENT/MEM for 2 seconds until the preset number flashes in the display.
- Press PRESET + or – until the preset number you want for the station flashes in the display.
- Press DSPL/ENT/MEM.

The new station replaces the old one.

### On the remote

- Press BAND until the band you want appears in the display.
- Tune in a station you want.
- Hold down the number buttons that you want to preset the new station on for about 2 seconds.  
To select the preset number over 10, press >10 first, then the corresponding number buttons. You need to hold down the last number button to enter for about 2 seconds.  
(Example: To select 12, press >10 and 1 first, then hold down 2 for about 2 seconds.)

### Tip

The preset radio stations remain in memory even if you unplug the mains lead or remove the batteries.

## Playing preset radio stations

- Press RADIO BAND•AUTO PRESET to select the band.
- Press PRESET + or – to tune in the stored station.

### On the remote

- Press BAND.
- Press the number buttons to tune in the stored station.  
To tune in a preset station over 10, press >10 first, then corresponding number buttons.  
(Example: To tune in a preset station 12, press >10 and 1 first, and then press 2.)

## Playing a tape

- Press TAPE (direct power-on).  
(On the remote, press OPERATE (or POWER) and then press FUNCTION repeatedly until “TAPE” appears in the display.)
- Press to open the tape compartment and insert a recorded tape. Close the compartment. Use TYPE I (normal) tape only.
- Press .

To	Press
stop playback	
fast-forward or rewind the tape	or
pause playback	 Press the button again to resume play after pause.
eject the cassette	

## Recording

- Press to open the tape compartment and insert a blank tape. Use TYPE I (normal) tape only.
- Select the programme source you want to record.  
**To record from the CD player**  
Press CD and insert a CD (See “Playing a CD”).  
**To record from the radio**  
Press RADIO BAND•AUTO PRESET and tune in the station you want (See “Listening to the radio”).
- Press to start recording.  
( is depressed automatically.)

To	Press
stop recording	
pause recording	 Press the button again to resume recording.

### Tips

- Adjusting the volume or the audio emphasis will not affect the recording level.
- CFD-F10L only: If the AM or MW/LW programme makes a whistling sound after you’ve pressed in step 3, press MODE to select the position of ISS (Interference Suppress Switch) that most decreases the noise.
- For the best results, use the AC power as a power source for recording.
- To erase a recording, proceed as follows:
  - Insert a tape with the recording you want to erase.
  - Press TAPE.
  - Press .

## Connecting optional components (CFD-F10L only)

You can record a CD on a MiniDisc and enjoy the sound from other components, such as portable MD, CD player and TV, VCR through the speakers of this player.

Be sure to turn off the power of each component before making connections. For details, refer to the instructions of the component to be connected.

## Recording a CD on a MiniDisc recorder or DAT recorder

- Connect the OPTICAL DIGITAL OUT (CD) jack of this player with the digital input jack of MiniDisc and DAT using the digital connecting cable\* (not supplied).

\* Select a connecting cable depending on the type of the digital input jack of the recorder to be connected. For details, refer to the instruction manual of the component to be connected. The OPTICAL DIGITAL OUT (CD) jack of this player is square-shaped jack.

The type of the jack of the component to be connected	Model number of the connecting cable
Optical miniplug (MiniDisc recorder, etc.)	POC-15AB
Square-shaped optical connector (MiniDisc recorder, DAT recorder, etc.)	POC-15A

- Turn on the power of this player and the connected component.
- Make the connected component ready for recording.
- Press to start playing a CD.

## Listening to the sound from the connected component

- Connect the LINE IN jack of this player with the line output jack or headphones jack of other component using the audio connecting cable\* (not supplied).  
\* For MiniDisc recorder: a cable with a stereo-mini plug on both ends.  
\* For TV, VCR: a cable with a stereo-mini plug on one end and two phono plugs on the other end.

- Press LINE to display “LInE”.
- Play the optional component connected to the LINE IN jack of the player.

### Tip

You can record the sound from the connected component. Insert a blank tape into the tape compartment, and press .

### Note

Connect the cords firmly to avoid any malfunction.



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