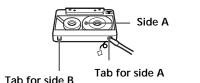
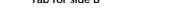


То	Press
adjust the volume	VOLUME +, - (VOL +, - on the remote, CFD-S32/S32L only)
stop playback	
fast-forward or rewind the tape	► or ◄◄
pause playback	Press the button again to resume play after pause.
eject the cassette	
turn on/off the player	OPERATE (or POWER)

Notes on cassettes

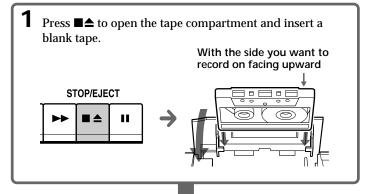
• Break off the cassette tab from side A or B to prevent accidental recording. If you want to reuse the tape for recording, cover the broken tab with adhesive tape.





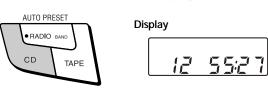
• The use of a cassette with more than 90 minutes of play time is not recommended except for long, continuous recording or playback.

Recording

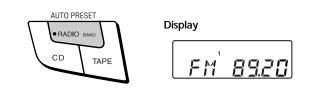


Use TYPE I (normal) tape only

- Z Select the program 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").

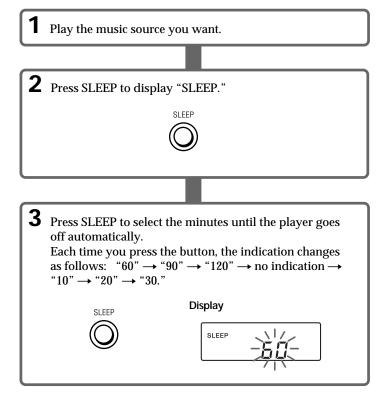


 3 Press ● to start recording. (► is depressed automatic 	cally.)
REC	
L	

То	Press
stop recording	
pause recording	II Press the button again to resume recording.
turn on/off the player	OPERATE (or POWER)

- · Adjusting the volume or the audio emphasis will not affect the recording level
- CFD-S22L/S32L/922L only: If the MW/LW program makes a whistling sound after you've pressed ● in step 3, press PLAY MODE• MONO/ST ISS (Interference Suppress Switch) repeatedly until the noise is at a minimum
- For the best results, use the AC power as a power source for recording.
- To erase a recording, proceed as follows:
- 1 Insert a tape with the recording you want to erase.
- 2 Press TAPE
- 3 Press ●.

Falling asleep to music



To cancel the sleep function

Press OPERATE (or POWER) to turn off the power.

- When you are playing a tape using this function:
- If the tape length of one side is longer than the set time, the player will not go off until the tape reaches the end.

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
- 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.

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 voltage selector is located at
- the bottom of the player (for Brazilian model only) 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.

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

Troubleshooting

General

The power does not come on.

- Connect the mains lead securely.
- 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 (CFD-S32/ S32L only).
- 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 • Replace all the batteries with new ones if they are weak. ones if they are weak. • TYPE II (high position) or TYPE

There is no audio.

- Make sure the function you want to use appears in the display.
- 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. \rightarrow 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.

- Make sure that the CD compartment is closed.
- 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.
- Make sure "Cd" appears in the display

The sound drops out.

- · Reduce the volume
- Clean the CD, or replace it if the
- CD is badly damaged. • Remove any obstacles in the path • Place the player in a location free
- from vibration. • Clean the lens with a
- commercially available blower. • The sound may drop out or noise
- lamp light. may be heard if the CD is • Move closer to the player when recorded using a personal using the remote. computer(CD-R,etc.).

Radio

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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 ΤV

The picture of your TV becomes unstable.

• If you are listening to an FM program near the TV with an indoor antenna, move the player away from the TV.

Tape Player

securely.

or record.

display.

The tape does not move when you

The REC

button does not

Poor or distorted playback,

recording or erasing quality.

cassette is in place.

fluid or alcohol.

demagnetizer.

Erase head

function or the tape does not play

• Make sure "TAPE" appears in the

• Clean the heads, pinch roller and

slightly moistened with cleaning

IV (metal) tape is being used. Use

commercially available tape head

Capstar

(Addie)

Pinch roller

— Lens

TYPE I (normal) tape only.

• Demagnetize the heads using a

Record/playback head

 $\neg \cdots \neg P$

Remote (CFD-S32/S32L only)

The remote does not function.

• Replace all the batteries in the

weak.

the player.

remote with new ones if they are

the remote at the remote sensor on

• Make sure that you are pointing

After trying the above remedies, if

mains lead and remove all the

the display disappear, plug the

you still have problems, unplug the

batteries. After all the indications in

power cord and insert the batteries

again. If the problem persists, please

consult your nearest Sony dealer.

capstan with a cleaning swab

• Make sure the safety tab on the

press an operation button Close the cassette compartment

CD player section

- Compact disc digital audio system Laser diode properties
- Material: GaAlAs

Specifications

- Wave length: 780 nm Emission duration: Continuo
- 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 optica pick-up block with 7 mm aperture.
- Spindle speed 200 r/min (rpm) to 500 r/min (rpm)

Number of channels

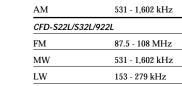
- Frequency response $20 - 20\,000 \,\text{Hz} + 1/-2 \,\text{dB}$ Wow and flutter
- Below measurable limit

Radio section

Frequency range

FM

CFD-S22/S32 87.5 - 108 MHz or 87.6 - 108 MHz



- FM: 10.7 MHz AM/MW/LW: 450 kHz
- FM: Telesconic aerial AM/MW/LW: Built-in ferrite bar

Cassette-corder section

- Recording system 4-track 2 channel stereo
- Fast winding time
- Approx. 120 s (sec.) with Sony cassette C-60
- requency response TYPE I (normal): 70 - 10,000 Hz

General Speake

- Full range: 10 cm dia 32 ohms cone
- Headphones jack (stereo minijack) For 16 - 68 ohms impedance headphones
- ximum power output 2.3 W + 2.3 W
- of the remote and the player. er requirements Make sure the remote sensor is For CD radio cassette-corder not exposed to strong light such Brazilian model: as direct sunlight or fluorescent 110 - 120V, 220 - 240V AC
 - selectable, 50/60 Hz Other models: 230 V AC 50 Hz
 - 9 V DC, 6 R20 (size D) batteries
 - or remote control (CFD-S32/S32L only): 3 V DC. 2 R6 (size AA) batteries
 - AC 20 W

Battery life

For CD radio cassette-corder FM recording

Sony R20P approx 13.5 h

Sony alkaline LR20: approx. 20 h Tape playback

Sony R20P: approx, 7.5 h

Sonv R20P: approx. 2.5 h

CD playback

Sony alkaline LR20: approx. 15 h

Sony alkaline LR20: approx. 7 h



Approx. $420 \times 165 \times 256$ mm (w/h/d)

Remote control (1) (CFD-S32/S32L only)

 $(16^{5/8} \times 6^{1/2} \times 10^{1/8} \text{ inches})$ (incl.

Approx. 4.1 kg (9 lb. 1 oz) (incl.

Design and specifications are subject to

projecting parts)

batteries)

Supplied accessory

Mains lead (1)

change without notice.

Optional accessories

Sony MDR headphone series

CD Radio Cassette-Corder

Operating Instructions

CFD-S22 CFD-S22L *CFD-S32* CFD-S32L CFD-922L

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3-043-356-31(1)

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.

Information For customers in Europe



This Compact Disc player is classified as a CLASS 1 LASER product

The CLASS 1 LASER PRODUCT label is located on the bottom exterior

WARNING

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

Notice for customers in the United Kinadom

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 \mathfrak{V} 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.

About this manual

The instructions in this manual are for the CFD-S22, CFD-S22L, CFD-S32, CFD-S32L and CFD-922L. Before you start reading, check vour model number. The CFD-S32I is the model used for illustration purposes.

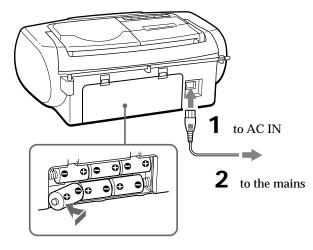
The name of the switch to turn on/ off this player is indicated as below: "OPERATE": CFD-S22L/S32L/ 922L "POWER": CFD-S22/S32



Choosing Power Sources

Connecting the mains lead

Insert one end of the supplied mains lead to the AC IN socket located at the rear of the player, and the other end to the mains.



Brazilian model only: Adjusting the voltage

Be sure to set the VOLTAGE SELECTOR (at the bottom) to your local power supply.



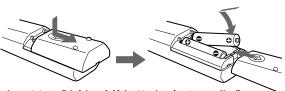
220-240V VOLTAGE SELECTOR

Using the player on batteries

Insert six R20 (size D) batteries (not supplied) into the battery compartment.

- 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

Inserting batteries into the remote (CFD-S32/S32L only)



Insert two R6 (size AA) batteries (not supplied)

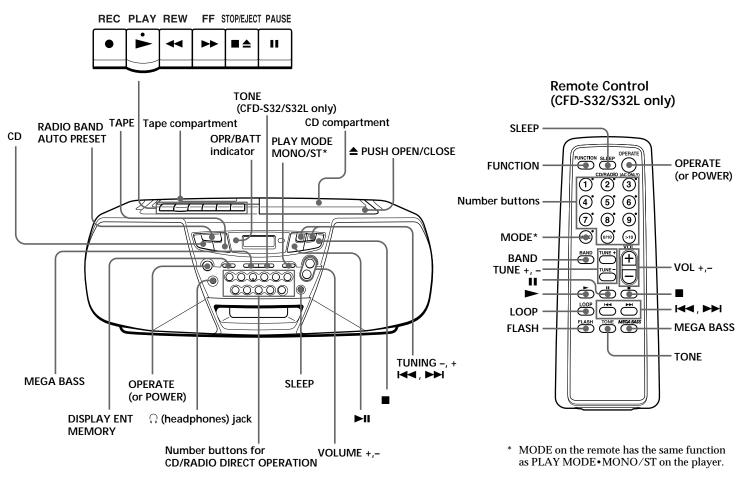
Replacing batteries

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.

When you operate the player on batteries, you cannot turn on the player using the remote

Only for the customers supplied with an AC plug adaptor: Use the supplied AC plug adaptor if the plug of the main lead does not match your outlet.

Location of controls



* The name of this button is PLAY MODE • MONO/ST for CFD-S22/S32. PLAY MODE • MONO/ST ISS for CFD-S22L/S32L/922L.

To listen through headphones, connect the headphones to the (headphones) jack.

Adjusting the sound emphasis (MEGA BASS/TONE)

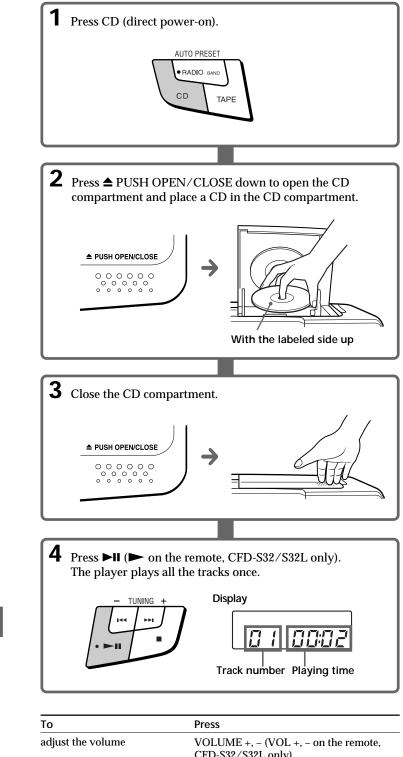
Reinforcing the bass sound

Press MEGA BASS. "MEGA BASS" appears in the display. To return to normal sound, press the button again.

Adjusting the tone (CFD-S32/S32L only)

Press TONE.	
To enhance	Display
the high tone	HI
the low tone	LO

Playing a CD



adjust the volume	VOLUME +, - (VOL +, - on the remote, CFD-S32/S32L only)
stop playback	
pause playback	►II (II on the remote, CFD-S32/S32L only) Press the button again to resume play after pause.
go to the next track	
go back to the previous track	
remove the CD	▲ PUSH OPEN/CLOSE
turn on/off the player	OPERATE (or POWER)

Using the display

Checking the total track number and playing time Press DISPLAY ENT • MEMORY in stop mode.

> Total track number

Total playing time

Checking the remaining time

Press DISPLAY ENT•MEMORY while playing a CD.

To display	Press DISPLAY ENT•MEMORY
the current track number and the remaining time on the current track*	once
the number of tracks left and remaining time on the CD	twice
the current track number and playing time	three times

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

Locating a specific track

To locate	Press
a specific track directly	a number button of the track.
a point while listening to the sound	►► (forward) or I ◄◄ (backward) while playing until you find the point.
a point while observing the display	►► (forward) or I◄◀ (backward) in pause until you find the point.

When you locate a track numbered over 10, press >10 first, then the corresponding number buttons. Example:To play track number 23, press >10 first, then 2 and 3.

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

Repeat Play

1 Press CD.

2 Proceed as follows:

To repeat	Do this
a single track	1 Press PLAY MODE•MONO/ST until "REP 1" appears.
	2 Press the number button for the track you want to repeat.
all the tracks	1 Press PLAY MODE•MONO/ST until "REP ALL" appears.
	2 Press ►II.
tracks in random order	1 Press PLAY MODE•MONO/ST until "SHUF REP" appears.
	2 Press ►II.
programmed tracks	1 Press PLAY MODE•MONO/ST until "PGM REP" appears.
	2 Press the number buttons for the tracks you want to programme in the order you want up to 20 tracks.
	3 Press ►II.

Shuffle Play

1 Press CD.

- **2** Press PLAY MODE MONO/ST until "SHUF" appears in the display.
- **3** Press ►II to start shuffle play.

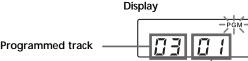
To cancel Shuffle Play

Press PLAY MODE • MONO/ST until "SHUF" disappears from the display.

Programme Play

```
1 Press CD.
```

- **2** Press PLAY MODE MONO/ST until "PGM" appears in the
- **3** Press the number buttons for the tracks you want to programme in the order you want. You can arrange the playing order of up to 20 tracks.





4 Press **▶II** to start program play.

To cancel Programme Play

Press PLAY MODE • MONO/ST until "PGM" disappears from the display.

To check the order of tracks before play

Press DISPLAY ENT • MEMORY.

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

To change the current programme

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

Tips

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

Enjoying Sound effects (LOOP/FLASH) (CFD-S32/S32L only)

You can repeat part of a CD (LOOP) and can "flash" the CD sound (FLASH) during playback.

1 Play a CD.

2 Press and hold LOOP or FLASH at the point you want to start the function.

То	Press and Hold
repeat a selected part of a CD	LOOP on the remote
"flash" the CD sound	FLASH on the remote

To cancel the LOOP or FLASH function

Release the button. The player returns to normal play.

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.

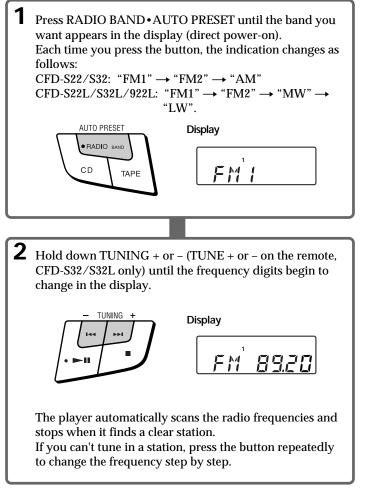
If there is a scratch, dirt or fingerprints on the CD, it may cause tracking

To cancel Repeat Play

Press PLAY MODE • MONO/ST until "REP" disappears from the display.

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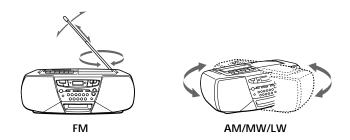
Listening to the radio



То	Press
adjust the volume	VOLUME +, - (VOL +, - on the remote, CFD-S32/S32L only)
turn on/off the radio	OPERATE (or POWER)

To improve broadcast reception

Reorient the antenna for FM. Reorient the player itself for AM or MW/LW

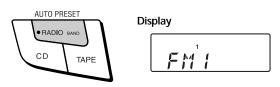


- The "FM1" and "FM2" bands have the same functions. You can store the stations you want separately in "FM1" and "FM2".
- If the FM broadcast is noisy, press PLAY MODE MONO/ST until "Mono" appears in the display and the radio will play in monaural.

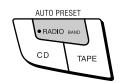
Presetting radio stations

You can store radio stations into the player's memory. You can preset up to 30 radio stations (CFD-S22/S32) or 40 radio stations (CFD-S22L/S32L/ 922L), 10 for each band in any order.

1 Press RADIO BAND•AUTO PRESET to select the band.



2 Hold down RADIO BAND•AUTO PRESET for 2 seconds until "AUTO" flashes in the display.





3 Press DISPLAY ENT•MEMORY. The stations are stored in memory from the lower frequencies to the higher ones.

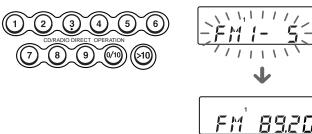
If you automatically preset the "FM1" or "FM2" band, 10 radio stations are stored in "FM1" band and 10 more radio stations are stored in "FM2" band

If a station cannot be preset automatically

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

- 1 Press RADIO BAND AUTO PRESET to select the band.
- **2** Tune in a station you want.
- **3** Hold down the number buttons that you want to preset the new station on for about 2 seconds.

Display



The new station replaces the old one.

Playing preset radio stations

- **1** Press RADIO BAND AUTO PRESET to select the band.
- **2** Press the number buttons to tune in the stored station



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