Playing a tape

Use TYPE I (normal) tape only.

1 Press TAPE (direct power-on).

AUTO PRESET
•RADIO BAND
CD   TAPE

Display

TAPE

2 Press ■▲ to open the tape compartment and insert a recorded tape. Close the compartment.

With the side you want to play facing upward

STOP/EJECT
►► ■▲ ll

3 Press ►.

PLAY
● ► ◄◄

To	Press
adjust the volume	VOLUME +, – (VOL +, – on the remote, CFD-S32/S32L only)
stop playback	■▲
fast-forward or rewind the tape	►► or ◄◄
pause playback	ll 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.

Side A

Tab for side B

Tab for side A

• 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.

1 Press ■▲ to open the tape compartment and insert a blank tape.

STOP/EJECT
►► ■▲ ll

With the side you want to record on facing upward
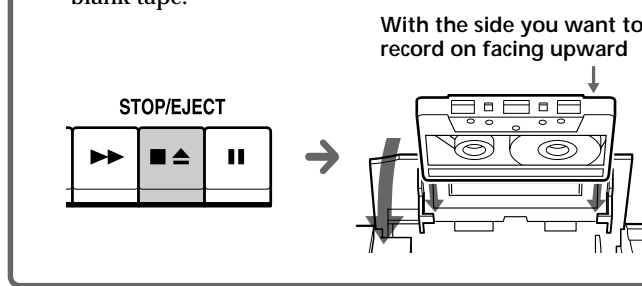
2 Select the program source you want to record.

To record from the CD player
Press CD and insert a CD (See "Playing a CD").

AUTO PRESET
•RADIO BAND
CD   TAPE

Display

12 55:27
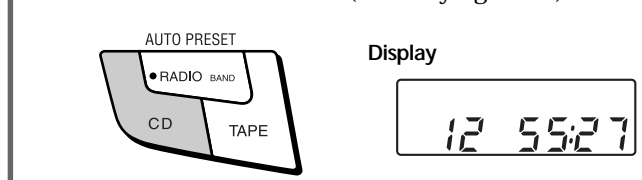
To record from the radio
Press RADIO BAND•AUTO PRESET and tune in the station you want (See "Listening to the radio").

AUTO PRESET
•RADIO BAND
CD   TAPE

Display

FM 89.20
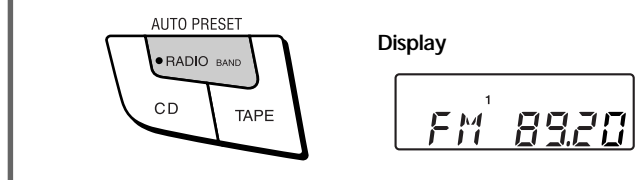
3 Press ● to start recording.
(► is depressed automatically.)

REC
● ► ◄◄
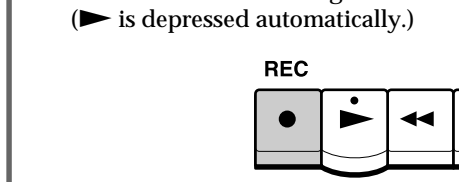
To	Press
stop recording	■▲
pause recording	ll Press the button again to resume recording.
turn on/off the player	OPERATE (or POWER)

Tips
• 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

1 Play the music source you want.

2 Press SLEEP to display "SLEEP."

SLEEP

3 Press SLEEP to select the minutes until the player goes off automatically.
Each time you press the button, the indication changes as follows: "60" → "90" → "120" → no indication → "10" → "20" → "30."

SLEEP

Display

SLEEP
60

To cancel the sleep function
Press OPERATE (or POWER) to turn off the power.

Note
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 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.

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 dealer.

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 ones if they are weak.

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. →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.
• 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 if the CD is recorded using a personal computer(CD-R,etc.).

Radio
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 program near the TV with an indoor antenna, 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 REC ● button does not function or the tape does not play or record.
• Make sure the safety tab on the cassette is in place.
• Make sure "TAPE" appears in the display.

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.

Record/playback head   Capstan

Erase head   Pinch roller

Lens

Remote (CFD-S32/S32L only)
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 power cord 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-S22/S32		
FM	87.5 - 108 MHz or 87.6 - 108 MHz	
AM	531 - 1,602 kHz	

CFD-S22L/S32L/922L		
FM	87.5 - 108 MHz	
MW	531 - 1,602 kHz	
LW	153 - 279 kHz	

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

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

General
Speaker
   Full range: 10 cm dia., 3.2 ohms, cone type (2)
Outputs
   Headphones jack (stereo minijack)
   For 16 - 68 ohms impedance headphones
Maximum power output
   2.3 W + 2.3 W
Power requirements
   For CD radio cassette-corder:
   Brazilian model:
      110 - 120V, 220 - 240V AC
      selectable, 50/60 Hz
   Other models:
      230 V AC, 50 Hz
      9 V DC, 6 R20 (size D) batteries
   For remote control (CFD-S32/S32L only):
   3 V DC, 2 R6 (size AA) batteries
Power consumption
   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	
Sony alkaline LR20: approx. 15 h	
CD playback	
Sony R20P: approx. 2.5 h	
Sony alkaline LR20: approx. 7 h	

Dimensions
   Approx. 420 × 165 × 256 mm (w/h/d)
   (16 ⅝ × 6 ½ × 10 ⅛ inches) (incl. projecting parts)
Mass
   Approx. 4.1 kg (9 lb. 1 oz) (incl. batteries)
Supplied accessory
   Mains lead (1)
   Remote control (1) (CFD-S32/S32L only)

Design and specifications are subject to change without notice.

Optional accessories
Sony MDR headphone series

SONY®

CD Radio Cassette-Corder

Operating Instructions

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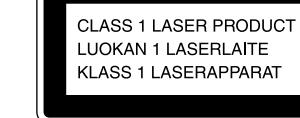CFD-922L

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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

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

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.

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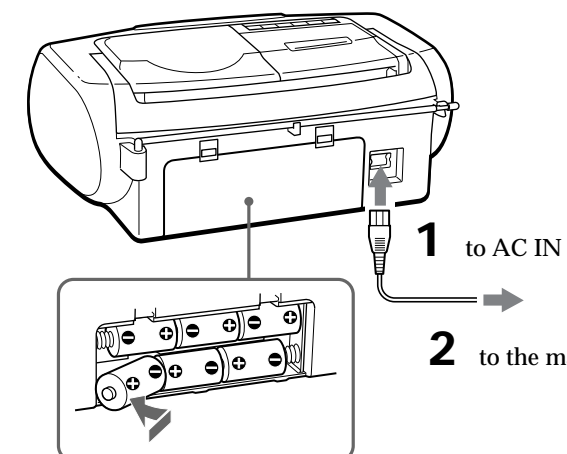"POWER": CFD-S22/S32

Sony online
http://www.world.sony.com/
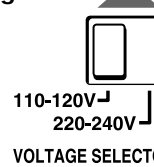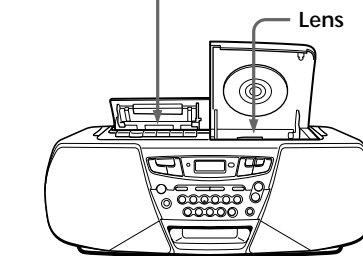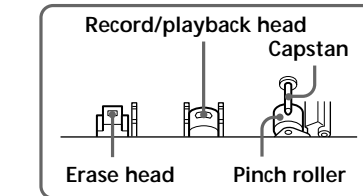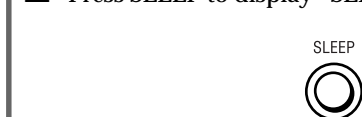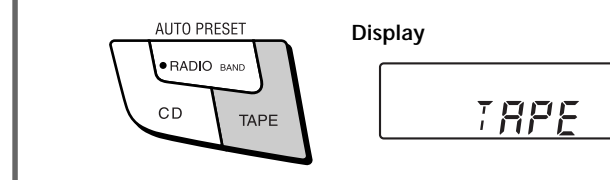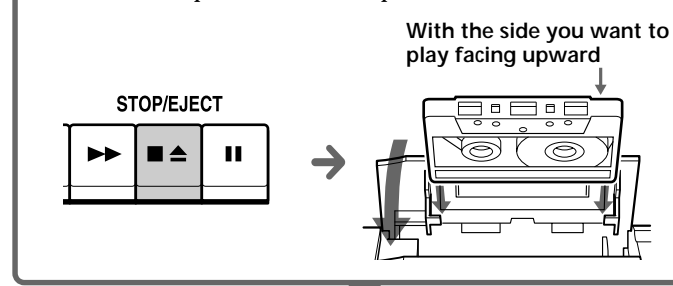
Choosing Power Sources

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.

1 to AC IN

2 to the mains

Brazilian model only: Adjusting the voltage
Be sure to set the VOLTAGE SELECTOR (at the bottom) to your local power supply.

110-120V
220-240V

VOLTAGE SELECTOR

Tip
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.

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

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.

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.

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

Location of controls

REC PLAY REW FF STOP/EJECT PAUSE

TONE
(CFD-S32/S32L only)
CD compartment

RADIO BAND
AUTO PRESET
CD
TAPE
Tape compartment
OPR/BATT
indicator
PLAY MODE
MONO/ST*
⏏ PUSH OPEN/CLOSE

Remote Control
(CFD-S32/S32L only)

SLEEP
FUNCTION
Number buttons
MODE*
BAND
TUNE +, –
LOOP
FLASH
OPERATE
(or POWER)
TONE
VOL +,–
MEGA BASS

MEGA BASS
OPERATE
(or POWER)
SLEEP
TUNING –, +

DISPLAY ENT
MEMORY
⌂ (headphones) jack
VOLUME +,–
Number buttons for
CD/RADIO DIRECT OPERATION

* MODE on the remote has the same function
as PLAY MODE•MONO/ST on the player.

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

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

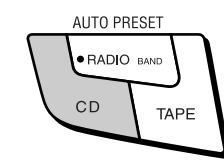## Adjusting the sound emphasis (MEGA BASS/TONE)

Reinforcing the bass sound
Press MEGA BASS.
"MEGA BASS" appears in the display.
To return to normal sound, press the button again.
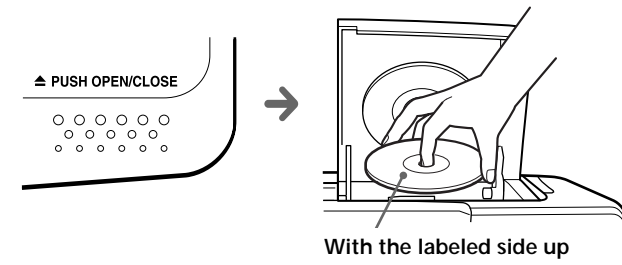
Adjusting the tone (CFD-S32/S32L only)
Press TONE.

To enhance	Display
the high tone	HI
the low tone	LO

Playing a CD

1 Press CD (direct power-on).

AUTO PRESET
RADIO
CD TAPE

2 Press ⏏ PUSH OPEN/CLOSE down to open the CD
compartment and place a CD in the CD compartment.

⏏ PUSH OPEN/CLOSE

With the labeled side up

3 Close the CD compartment.

⏏ PUSH OPEN/CLOSE
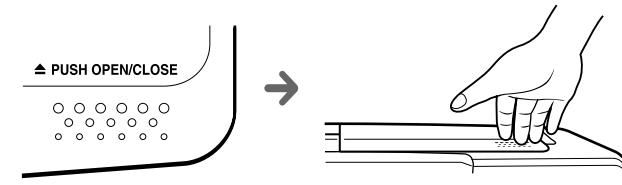
4 Press ►❚❚ (► on the remote, CFD-S32/S32L only).
The player plays all the tracks once.

– TUNING +

Display
`01 00:02`
Track number Playing time
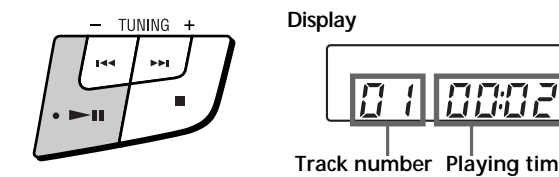
To	Press
adjust the volume	VOLUME +, – (VOL +, – on the remote, CFD-S32/S32L only)
stop playback	■
pause playback	►❚❚ (❚❚ on the remote, CFD-S32/S32L only) Press the button again to resume play after pause.
go to the next track	►►❙
go back to the previous track	❙◄◄
remove the CD	⏏ PUSH OPEN/CLOSE
turn 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
`12 55:27`
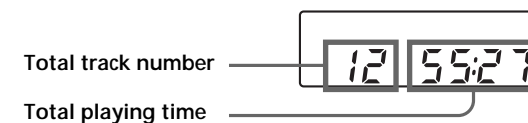
Checking the remaining time
Press DISPLAY ENT•MEMORY while playing a CD.

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 ❙◄◄ (backward) while playing until you find the point.
a point while observing the display	►►❙ (forward) or ❙◄◄ (backward) in pause until you find the point.

Tip
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.

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

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 ►❚❚.
tracks in random order	1 Press PLAY MODE•MONO/ST until "SHUF REP" appears. 2 Press ►❚❚.
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 ►❚❚.

To cancel Repeat Play
Press PLAY MODE•MONO/ST until "REP" disappears from the display.

Shuffle Play

1 Press CD.

2 Press PLAY MODE•MONO/ST until "SHUF" appears in the
display.

3 Press ►❚❚ to start shuffle play.

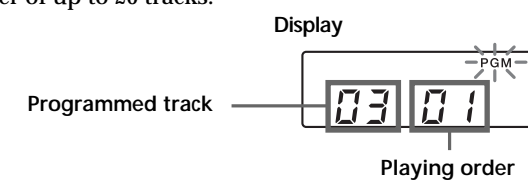**To cancel Shuffle Play**
Press PLAY MODE•MONO/ST until "SHUF" disappears from the display.

Programme Play

1 Press CD.

2 Press PLAY MODE•MONO/ST until "PGM" appears in the
display.

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.

Display
PGM
`03 01`
Programmed track
Playing order

4 Press ►❚❚ 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 ● to start recording.

Listening to the radio

1 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-S22/S32: "FM1" → "FM2" → "AM"
CFD-S22L/S32L/922L: "FM1" → "FM2" → "MW" →
"LW".

AUTO PRESET
RADIO
CD TAPE
Display
`FM 1`

2 Hold down TUNING + or – (TUNE + or – on the remote,
CFD-S32/S32L only) until the frequency digits begin to
change in the display.

– TUNING +

Display
`FM 89.20`

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.

To	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.

FM
AM/MW/LW

Tips
• 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.

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.

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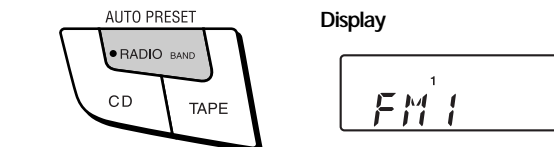• Before playing, clean the CD with a cleaning cloth. Wipe the CD from the
center out.

• 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
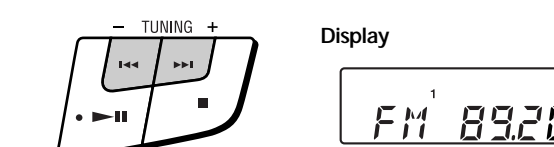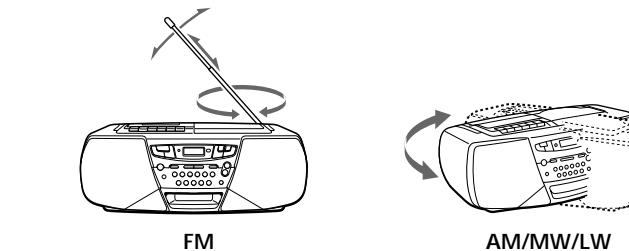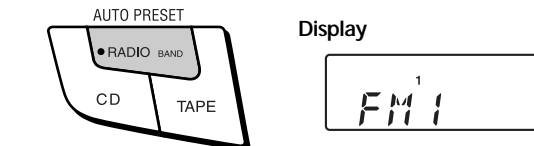error.

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.

AUTO PRESET
RADIO
CD TAPE
Display
`FM 1`

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

AUTO PRESET
RADIO
CD TAPE
Display
`AUTO`
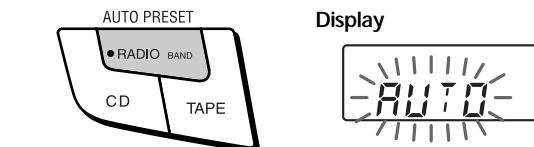
3 Press DISPLAY ENT•MEMORY.
The stations are stored in memory from the lower frequencies
to the higher ones.

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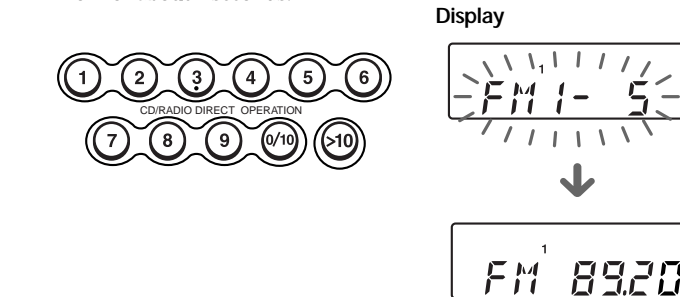are stored in "FM1" band and 10 more radio stations are stored in
"FM2" band.

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
`FM 1- 5`
↓
`FM 89.20`

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.