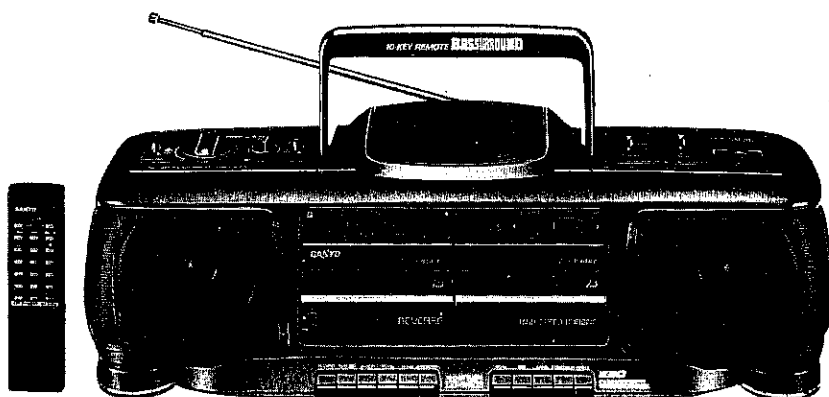


INSTRUCTION
MANUAL

SANYO

MCD-Z30F

**Portable CD/FM Stereo/AM/
Double Cassette Recorder**



CAUTION-USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THEN THOSE SPECIFIED IN THE OPERATING INSTRUCTIONS MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED PERSONNEL.

CONTROLS (Fig.1)

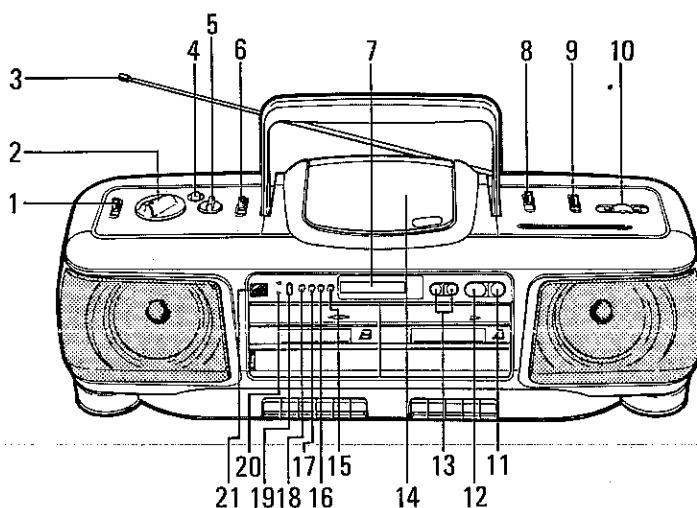


Fig. 1a

- | | |
|--|---|
| 1. Power/Timer switch (POWER/TIMER) | 11. Stop/Clear switch (STOP/CLEAR)* |
| 2. Volume control and indicator (VOLUME)* | 12. Play/Pause switch (PLAY/PAUSE)* |
| 3. Telescopic antenna | 13. Skip/Search switches (SKIP/SEARCH)* |
| 4. Bass expander/Headphones cassette player recording mode switch (BASSXPANDER/H.P REC MODE) | 14. CD compartment lid |
| 5. Tone control (TONE) | 15. Operation time switch (OPERATION) |
| 6. Function switch (FUNCTION) | 16. Minute switch (MINUTE) |
| 7. Compact disc/Clock/Timer multi display (CD/CLOCK/TIMER MULTI DISPLAY) | 17. Hour switch (HOUR) |
| 8. FM mode switch (FM MODE) | 18. Mode/Set switch (MODE/SET) |
| 9. Band switch (BAND) | 19. CD/Clock display switch (CD/CLOCK DISPLAY) |
| 10. Tuning control (TUNING) | 20. Tape B direction/Operation/Battery indicators (TAPE B DIR/OPR/BATT) |
| | 21. Infrared remote control sensor (IR SENSOR) |

NOTE:

The controls identified with the "*" mark are able to operated with the remote control unit.

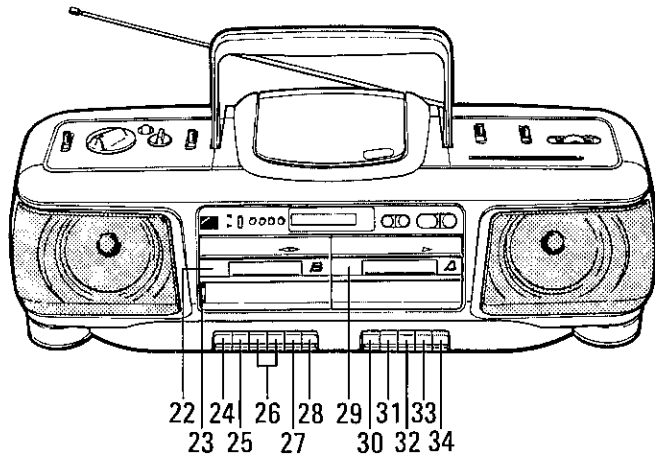
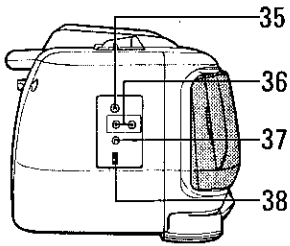


Fig. 1b

- | | |
|--|---------------------------------------|
| 22. Cassette compartment lid (TAPE B) | 29. Cassette compartment lid (TAPE A) |
| 23. Reverse mode lever (MODE) | 30. Play button (PLAY) |
| 24. Record button (RECORD) | 31. Rewind button (REW) |
| 25. Play/Tape direction button (PLAY/DIR) | 32. Fast forward button (FFWD) |
| 26. Rewind/Fast forward buttons (REW/FFWD) | 33. Stop/Eject button (STOP/EJECT) |
| 27. Pause button (PAUSE) | 34. Pause button (PAUSE) |
| 28. Stop/Eject button (STOP/EJECT) | |



- | |
|--|
| 35. External microphone socket (EXT MIC) |
| 36. Surround speakers sockets (SURROUND SPKRS) |
| 37. Stereo headphones socket (PHONES) |
| 38. Beat cancel switch (BEAT CANCEL) |

Fig. 1c

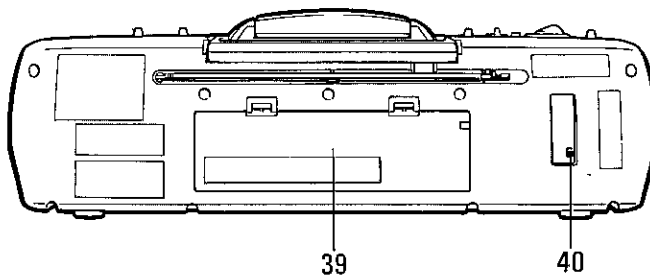


Fig. 1d

- | |
|---|
| 39. Battery/AC mains lead compartment lid |
| 40. AC/DC switch (AC/DC SELECTOR) |

POWER SUPPLY

AC power operation

1. Set the AC/DC switch to "AC".
2. Open the battery/AC mains lead compartment lid by pushing the tabs, and pull out the AC mains lead.
3. Connect the AC mains lead to an AC 240V 50Hz outlet. The clock will start. (Please refer to "CLOCK OPERATION")
4. Close the battery/AC mains lead compartment lid with the AC mains lead running through the slot in the lid.

NOTE:

Set the POWER/TIMER switch to "OFF" before connecting (or disconnecting) the AC mains lead.

Battery power operation

1. Set the AC/DC switch to "DC".
2. Open the battery/AC mains lead compartment lid.
3. Install 8 "D" size batteries (not supplied) into the battery compartment matching the polarity as shown on the back of the unit (Fig.2).
4. Close the lid.

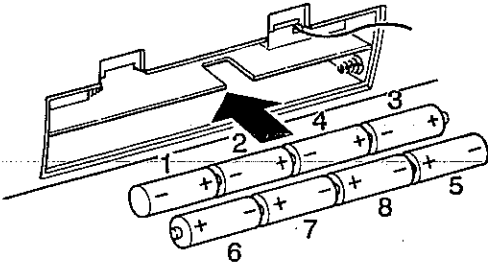


Fig. 2

Battery check

During battery operation, the TAPE B DIR/OPR/BATT indicator shows battery condition as follows:

bright

... the batteries are in good condition

dim or does not light

... the batteries are exhausted and must be replaced

CAUTION

WHEN INSTALLING BATTERIES

To prevent battery leakage, which may result in injury and damage to the unit or other objects, observe the following precautions:

1. All batteries must be installed with the proper polarity (see diagram on the back of the unit).
2. Do not mix new with old or used batteries.
3. Only use batteries of the same type and brand.
4. Remove the batteries when they are not to be used for a long period of time.

Clock/Computer battery (Power failure backup battery)

1. Open the battery/AC mains lead compartment.
2. Install 3 "AA" size batteries (not supplied) into the small battery compartment above the "D" size batteries, matching the polarity as shown on the back of the unit (Fig.3).
3. Close the lid.

NOTE:

- The batteries are only used to maintain the unit's clock and program memory when the AC power is disconnected, or when a power failure occurs.
- Replace the batteries once a year or when the digital clock fades or slows down.

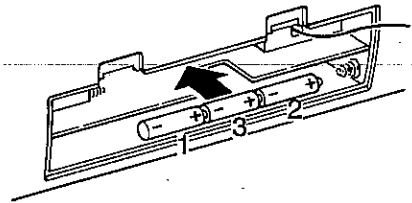


Fig. 3

REMOTE CONTROL UNIT

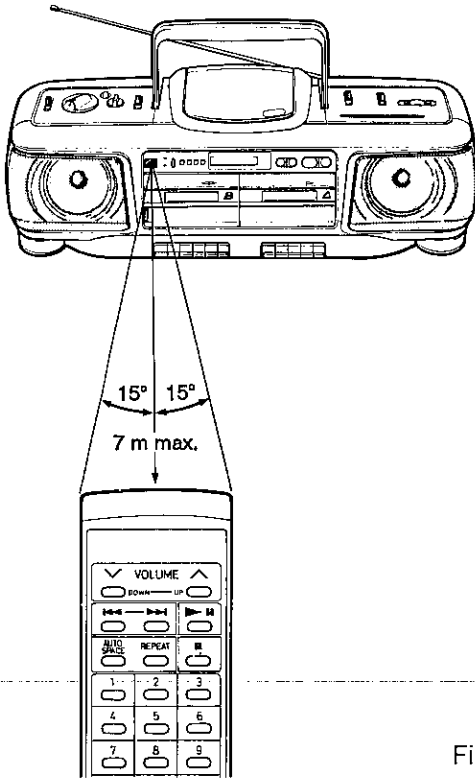


Fig.4

The MCD-Z30F can be operated from a distance of up to 7m by using the wireless remote control. Point the remote control straight at the unit (Fig.4) and press the desired switches.

The infrared beam from the remote control travels in a straight line. Make sure that there are no objects between the remote control unit and the MCD-Z30F that might block the beam.

NOTE:

The remote control may not operate when its batteries begin to wear out. If this happens, replace the batteries with new ones.

Controls (Fig.5)

1. Volume control (VOLUME)

Compact Disc Section

2. Play/Pause switch (▶||)
3. Stop/Clear switch (■)
4. Direct music switches (0-9, +10)
5. Memory switch (MEMORY)
6. Repeat switch (REPEAT)
7. Auto space switch (AUTO SPACE)
8. Skip/Search switches (◀◀, ▶▶)

9. Battery compartment lid

Point this end forward.

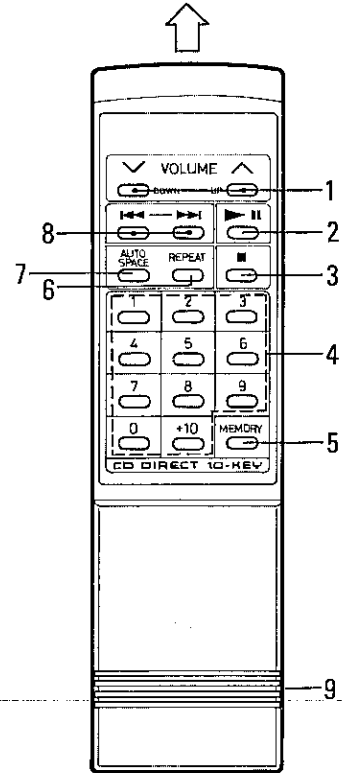


Fig. 5

Battery Installation

1. Open the battery compartment lid by pushing the tab as shown in Fig.6a.
2. Install 2 "AA" size batteries (not supplied) exactly as shown in the battery compartment (Fig.6b).
3. Close the battery compartment lid.

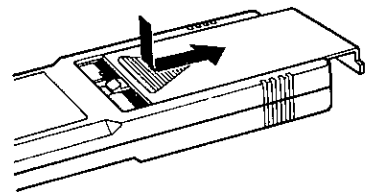


Fig. 6a

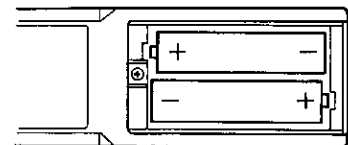


Fig. 6b

RADIO OPERATION

1. Set the POWER/TIMER switch to "ON".
2. Set the FUNCTION switch to RADIO.
3. Select the desired radio band with BAND switch.
4. Tune in a desired station by turning the TUNING control.
5. Adjust the VOLUME and TONE controls as desired.

Antennas

AM reception:

The built-in AM antenna is directional. For weak AM broadcasts, rotate the unit until the best possible reception is obtained.

FM reception:

Pull out the telescopic antenna. Adjust its position to obtain the best reception possible.

FM mode switch (FM MODE)

STEREO: For receiving FM stereo broadcasts.

MONO: For receiving FM mono and weak FM stereo broadcasts.

Bass expander/Headphones cassette player recording mode switch (BASSXPANDER/H.P REC MODE)

Press this switch to the "ON" position to activate the "BASSXPANDER".

If this switch is set to "ON" during recording, the expanded bass sound will be reproduced onto the recorded tape ("BASSXPANDER" effect recording).

Tape B direction/Operation/Battery indicator (TAPE B DIR/OPR/BATT)

This indicator shows the TAPE B playback and recording direction, and lights while the unit is in operation.

Volume control (VOLUME)

Adjust the right and left output volume levels manually. The built-in "AUTO LOUDNESS" circuit compensates for tonal response when the VOLUME control is reduced from "AUTO LOUDNESS" to "MIN".

Also, this volume control can be operated with the RB Z30 remote control.

- a) Press the "UP" VOLUME switch to raise the volume.
- b) Press the "DOWN" VOLUME switch to lower the volume.

Stereo headphones socket (PHONES)

For private listening, connect a pair of stereo headphones with a 32-ohm miniplug (not supplied) to the headphones socket (PHONES).

Surround speaker sockets (SURROUND SPKRS)

If you wish to obtain the "Live-stage" effect (Fig.7), or "Concert-hall" effect (Fig.8), connect the surround speakers (SX-SR650, optional) to the SURROUND SPKRS sockets (Fig.9).

NOTE:

- The surround effect can be activated while you are listening to a radio broadcast, CD sound, or tape sound in stereo.
- The surround effect cannot be recorded.
- Do not place the unit near a source of heat (60°C). The cabinet may be damaged and performance may deteriorate.
- To prevent damage to the speakers, do not turn up the volume so loud that the sound becomes distorted.
- Keep the unit at least 30cm away from a TV, or else the stray magnetic fields from the speakers may distort the TV's color purity.

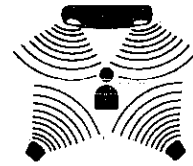


Fig. 7

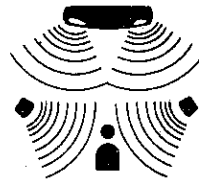


Fig. 8

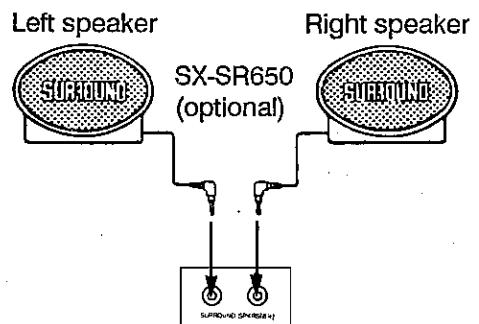


Fig. 9

COMPACT DISC OPERATION

- Both 8cm (3-inch) and 12cm (4.75-inch) discs can be played in this unit.
NOTE: Place only one disc at a time in the CD compartment.
- Only discs bearing the logo in Fig.10 can be played in this unit.



Fig. 10

Handling compact discs

- Always place the compact disc in the CD compartment with the label facing upward. Compact discs can be played on only one side.
- Fingerprints and dust should be carefully wiped off the disc's signal surface (opposite the labeled side) with a soft cloth. Gently wipe in a straight motion from the inside to the outside of the disc.
- Discs should be returned to their cases after use to avoid serious scratches that could cause the player to skip.
- Do not expose a disc to direct sunlight, high humidity, or high temperatures for extended periods of time to prevent warping the disc.
- Do not stick paper or write anything with a ballpoint pen on a disc.
- Do not use cleaners or antistatic sprays on discs, like those used for phonograph records.

LOADING AND UNLOADING DISCS

1. Set the POWER/TIMER switch to "ON".
2. Set the FUNCTION switch to CD. The display shows "Cd".
3. Press the "PUSH-OPEN" section on the CD compartment lid to open the lid (Fig.11). The display shows "OPEN".
4. Place a disc carefully in the compartment with the labeled side facing up (Fig.12).
5. Close the lid.
The total number of tracks on the disc and the disc's total playing time will be shown in the display.



Fig.11

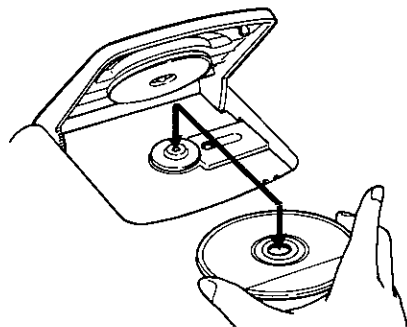


Fig. 12

NOTE:

- If a disc is loaded upside down, or if no disc is loaded, the CD player will not operate.
- Opening the CD compartment lid while a CD is playing could scratch the disc. Always press the STOP/CLEAR button and wait for the disc to stop rotating before opening the CD compartment lid.

NORMAL DISC PLAY

1. Press the PLAY/PAUSE switch. Disc play will begin from TRACK NO.1. The display will show the track's number and elapsed playing time. The PLAY indicator will light.
2. Adjust the VOLUME and TONE controls as desired.
3. Press the STOP/CLEAR switch to stop playback at any time.
When the last track has been played, the player will stop.

Direct music selection

Using the remote control, you can instantly start disc play at the desired track.

Press the direct music switch(es) (CD DIRECT 10-KEY) as follows:

example:

To start from TRACK No.5

-- Press "5".

To start from TRACK No.11

-- Press "+10" and "1".

To start from TRACK No.20

-- Press "+10" two times and "0" once.

To start from TRACK No.21

-- Press "+10" two times and "1" once.

NOTE:

Each time the "+10" switch is pressed, the TRACK NO. display will change as follows: "1-", "2-", "3-" -- "9-", "1-".

PROGRAMMED DISC PLAY

With programmed disc play, a disc's tracks can be played in any order. This unit can memorize up to 20 track numbers.

In this example, tracks 1-8 on a 10-track disc are entered into the unit's program memory, for disc play in the order shown in Fig. 13.

Example Program

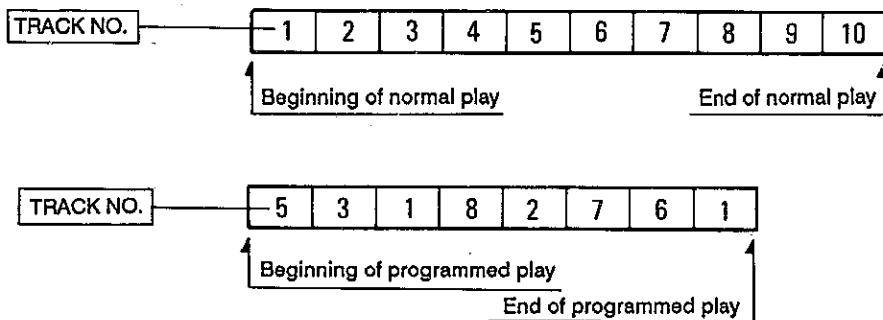


Fig. 13

1. Press the STOP/CLEAR (■) switch.

(From now on, use the remote control unit.)

2. Press the MEMORY switch. The PROG indicator will blink. (Fig. 13a)

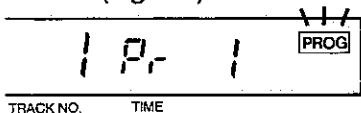


Fig. 13a

3. Press "5". The TRACK NO. display shows "5". (Fig. 13b)

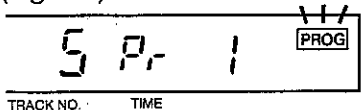


Fig. 13b

4. Press the MEMORY switch. The PROG indicator will remain "ON". (Fig. 13c)

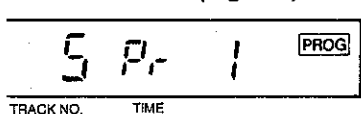


Fig. 13c

5. Press "3". The TRACK NO. display shows "3". The PROG indicator will blink. (Fig. 13d)

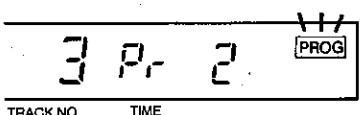


Fig. 13d

6. Press the MEMORY switch. The PROG indicator will remain "ON". (Fig. 13e)

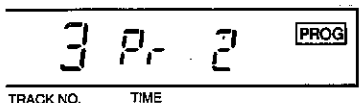


Fig. 13e

7. Repeat steps 3-4 to memorize tracks 1, 8, 2, 7, 6 and 1.

NOTE: A track number can be entered more than once.

8. Checking the program
After the last track number has been entered, press the MEMORY switch repeatedly to view the memorized track numbers, in the order they were entered.
9. Press the PLAY/PAUSE (▶||) switch. Programmed disc play will begin with the first programmed track.
10. When the last programmed track has finished playing, the unit will stop, unless the REPEAT switch has been pressed (see REPEAT DISC PLAY).

Changing the program

1. Press the STOP/CLEAR (■) switch ONCE to stop disc play.
2. Press the MEMORY switch until the number for the track to be changed is visible in the TRACK NO. display.
3. Press the direct music switch (0-9, +10) to select the new track number. The PROG indicator will blink.
4. Press the MEMORY switch to enter the new track number. The PROG indicator will remain "ON".

Adding track numbers to the program

1. Press the STOP/CLEAR switch ONCE to stop disc play.
2. Press the MEMORY switch until the display shows "-- --:--".
3. Press the direct music switch (0-9, +10) to select the new track number. The PROG indicator will blink.
4. Press the MEMORY switch to enter the new track number. The PROG indicator will remain "ON".

Ending programmed disc play

Press the STOP/CLEAR (■) switch twice (during programmed disc play), or once (during the STOP mode), to clear the program memory.

REPEAT DISC PLAY

During normal disc play

1. Press the REPEAT switch during disc play. The REP indicator will light, and all of the tracks on the disc will be played repeatedly.
2. To cancel repeat disc play, press the REPEAT switch again. The REP indicator will go "OFF".

NOTE:

If the STOP/CLEAR (■) switch is pressed twice, repeat disc play will be cancelled.

During programmed disc play

Press the REPEAT switch during programmed disc play. The REP indicator will light, and all of the programmed tracks will be played repeatedly.

PAUSE MODE

1. Press the PLAY/PAUSE (► ■) switch during disc play. Disc play will stop temporarily, and the PLAY indicator will blink.
2. Press the PLAY/PAUSE (► ■) switch again to end the PAUSE mode. The PLAY indicator will remain "ON".

TRACK SEARCH

1. Press and hold down the DOWN or UP (◀◀ or ▶▶) switch during disc play to lower the volume and quickly advance or return to any portion of a disc.
2. Release the DOWN or UP (◀◀ or ▶▶) switch to return the volume to normal and continue disc play.

NOTE:

If a DOWN or UP (◀◀ or ▶▶) switch is pressed during the PAUSE mode, no sound will be heard, and the PAUSE mode will continue when the switch is released.

TRACK SKIP

1. Press and release the DOWN or UP (◀◀ or ▶▶) switch repeatedly during disc play to quickly locate the beginning of a track.
2. The TRACK NO. display will show the number of the selected track. Disc play will continue from the beginning of the new track.

NOTE:

If a DOWN or UP (◀◀ or ▶▶) switch is pressed during the PAUSE mode, the PAUSE mode will continue when the switch is released.

IMPORTANT NOTE

If an abnormal display indication or an operating problem occurs, disconnect the AC mains lead and remove the "D" and "AA" size backup batteries. Wait at least 5 seconds, then reconnect the AC mains lead and reinstall the "D" and "AA" size batteries.

CASSETTE TAPE OPERATION

HELPFUL HINTS

Safeguards against accidental erasure (Fig. 14)

Whenever a recording is made, the sound previously recorded is automatically erased. To protect valuable recordings from accidental erasure, the unit and cassette are equipped with standard safety features. To keep recorded material permanently, break out the tab(s) on the back of the cassette with a screwdriver.

To protect side A (1) from accidental erasure, break out the right side tab (2). To protect side B from accidental erasure, break out the left side tab (3).

NOTE:

A cassette with its erase guard tabs removed cannot be used for recording. First cover the tab openings (4) with adhesive tape, then record normally.

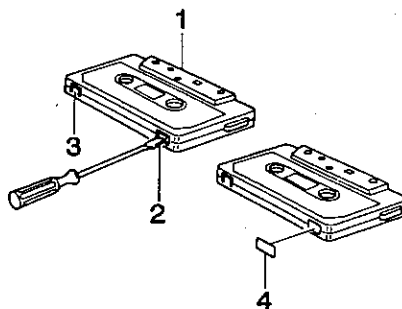


Fig. 14

PREPARATIONS FOR PLAYBACK AND RECORDING (DUBBING)

Pause (TAPE A and TAPE B)

Press the PAUSE button to temporarily stop tape during playback or recording. Press it again to resume operation.

Fast Forward and Rewind (TAPE A)

Press the FFWD or REW button to quickly wind the tape forward or in reverse. Press the STOP/EJECT button when the desired position has been reached.

When the end of the tape is reached, the tape will stop, and the FFWD or REW button will be automatically released.

Fast Forward and Rewind (TAPE B)

- Press the PLAY button. Note which the tape direction (TAPE B DIR REV ◀ or FWD ▶) indicator lights, then press the STOP/EJECT button to stop the tape.
- Press the REW/FFWD (◀◀ or ▶▶) button to quickly wind the tape in the desired direction. Press the STOP/EJECT button to stop the tape.
- When the end of the tape is reached, the tape will stop, and the REW/FFWD (◀◀ or ▶▶) button will be automatically released.

Cue and Review (TAPE B)

During playback, to advance or rewind the tape a short distance, press and hold the REW/FFWD (◀◀ or ▶▶) button. During the CUE or REVIEW mode, recorded portions of the tape produce a chattering sound, making them easy to locate. Release the button when the desired position is reached.

Full automatic stop (TAPE A and TAPE B)

Each deck has a full-release stop system, to protect the tape and prevent pinch roller wear. When the end of the tape is reached in playback, recording, fast winding or rewinding, the tape will stop automatically except in continuous playback (⌂) mode.

Reverse mode lever (TAPE B)

Deck B has an auto-reverse mechanism. Select the desired reverse mode as desired.

- ⌂ : For continuous playback (forward and reverse)
Playback will continue until the STOP/EJECT button is pressed.

When the RECORD button is pressed while setting the reverse MODE lever to the ⌂ position, the lever will move automatically to the ⌂ position.

- ⌂ : For one-cycle (forward to reverse) playback or recording
When the end of the second side (side B) of the tape is reached, the tape will stop. Then, the tape direction indicator will indicate "FWD ▶".
If the tab of the second side (side B) has been removed, recording cannot take place, and the automatic stop will be activated at the end of first side (side A).

- ⌂ : For one-way (forward or reverse) playback or recording
When the end of the tape is reached, the tape will stop.

Play/Tape direction button (TAPE B)

Press the PLAY/DIR button to change the playback tape direction during playback.

NOTE:

- Playback or recording will always start from forward (FWD ▶) direction.
- Tape direction cannot be changed in recording mode.

PLAYBACK

Preparation

- Set the POWER/TIMER switch to "ON".
- Insert prerecorded cassettes into both cassette compartments.
- Set the reverse MODE lever as desired for TAPE B.

A) Playback (TAPE A or TAPE B)

- Set the FUNCTION switch to TAPE.
- Press the PLAY button (TAPE A or TAPE B).

NOTE:

- If both PLAY buttons are pressed, the sounds from TAPE A and TAPE B will be mixed and heard at the same time.
- Adjust the VOLUME and TONE controls as desired.
 - Press the STOP/EJECT button to stop playback at any time. When the end of the tape is reached, the tape will automatically stop.

NOTE:

- **TAPE B playback:**
Playback will always start from forward (FWD ►) direction. Press the TAPE B PLAY button again to change the playback direction. Tape direction will be changed alternately whenever the TAPE B PLAY button is pressed in playback mode.
The TAPE B DIR/OPR/BATT indicator shows the battery condition and the TAPE B playback direction (REV ◀ or FWD ►).
- **TAPE A playback:**
The TAPE B DIR/OPR/BATT indicator shows the battery condition only, not the TAPE A playback direction.

B) Continuous playback (TAPE A to TAPE B)

1. Set the FUNCTION switch to TAPE.
2. Set the reverse MODE lever to "◁" or "▷".
3. Press the TAPE A PLAY button. TAPE A playback will begin.
4. Press the TAPE B PAUSE button.
5. Press the TAPE B PLAY button. TAPE B will enter the pause mode.
6. When the end of the tape of TAPE A is reached, the tape will stop, and TAPE B playback will begin.
7. When the end of the tape in TAPE B is reached, the tape will stop.

CAUTION:

While playing or recording with one deck, do not press the Fast Forward (FFWD) or Rewind (REW) button of the other deck, or the sound quality may deteriorate.

RECORDING (TAPE B)

Recording radio programs, records and compact discs or dubbing tapes is permissible only insofar as copyright or other rights of third parties are not violated.

Preparation for recording

1. Set the POWER/TIMER switch to "ON".
2. Press the STOP/EJECT button and insert a cassette.
3. Set the reverse MODE lever to "◁" or "▷".
4. Set the BASSXPANDER/H.P REC MODE switch to "OFF" position for normal recording or to "ON" position to add the "BASSXPANDER" effect to your recording. Now you can enjoy full bass sound with this tape through any other tape player.

NOTE:

For best results when listening to the recorded tape with the "BASSXPANDER" effect through your MCD-Z30F, Set the BASSXPANDER/H.P REC MODE switch to the "OFF" position.

ALC (Automatic Level Control) recording

The ALC circuit adjusts the recording input level automatically. No adjustments are required.

A) Recording from the built-in radio

1. Tune in a desired radio program as described in the "RADIO OPERATION" section.
2. Press the RECORD button. The PLAY button is engaged simultaneously. Recording will start from forward (FWD ►) direction.
3. During recording, the sound can be monitored through the speakers. The VOLUME and TONE controls will not affect the recording. Adjust them as desired.
4. To temporarily stop recording, press the PAUSE button.

CAUTION:

- When the STOP/EJECT button is pressed during recording in reverse (REV ◀) direction, the tape direction will be changed to forward (FWD ►) direction.
5. Press the STOP/EJECT button to stop recording.

Beat cancel switch (BEAT CANCEL)

When recording a radio program on the tape, an irritating beat sound may sometimes be heard. In this case, set the BEAT CANCEL switch to the position that gives the best result.

B) Recording from a compact disc**Synchronous recording
(CD-TAPE SYNCHRO RECORDING)**

This recording system starts disc play and cassette recording at the same time.

Recording from Track No.1

1. Set the FUNCTION switch to CD.
2. Load a disc into the CD player.
3. Press the RECORD button. Recording will start at the beginning of TRACK NO.1.
4. Press the STOP/EJECT button to stop recording.

When the end of the tape is reached, disc play and tape recording will automatically stop at the same time.

Recording during programmed disc play

1. Program the disc as described in the "PROGRAMMED DISC PLAY" section.
2. Press the RECORD button. Recording will start from the first programmed track.

NOTE:

- During One-cycle recording, if the tape changes direction in the middle of a track, the entire track will be repeated and re-recorded onto SIDE B of the tape (back-skip edit recording).
- A blank section about 8 seconds long will be left between the SIDE A and SIDE B recording.

Auto space function for CD recording

If you press the AUTO SPACE switch when the CD is stopped or in a recording condition, non-recorded passages of about 4 seconds will be created automatically at the beginning of the first track and between the subsequent tracks while recording takes place (auto space). The SPACE indicator will light.

c) Recording from an external microphone (mono recording)

1. Connect an external microphone (not supplied) to the EXT MIC socket.
2. Set the FUNCTION switch to TAPE.
3. Press the RECORD button.

Erasing

To erase the recorded tape without making a new recording,

1. Disconnect the external microphone.
2. Set the FUNCTION switch to TAPE.
3. Set the unit to the RECORD mode.

CAUTION:

When the STOP/EJECT button is pressed during recording in reverse (REV ◀) direction, the tape direction will be changed to forward (FWD ▶) direction.

SYNCHRO DUBBING (TAPE A to TAPE B)

NOTE:

If the BASSXPANDER/H.P REC MODE switch is "ON" during dubbing, the expanded bass sound will be recorded onto the dubbed copy. Now you can enjoy full bass sound with this copy through any other tape player. Set the BASSXPANDER/H.P REC MODE switch to "OFF" if you are using a tape recorded with the

"BASSXPANDER" effect as an original tape during dubbing.

Preparations

1. Set the FUNCTION switch to the desired dubbing speed:

NORM:

For normal speed dubbing while listening to the tape.

HIGH:

For high-speed dubbing (approximately twice the normal dubbing speed). Set the VOLUME control to MIN.

2. Insert a prerecorded tape into the TAPE A cassette compartment.
3. Set the cassette in TAPE A to the selection to be recorded.
4. Insert the tape for recording into the TAPE B cassette compartment.
5. Set the reverse MODE lever as desired for TAPE B.

⤵ : For one-cycle recording.

⤵ : For one-way recording.

NOTE:

During one-cycle recording nothing will be recorded onto a leader portion of TAPE B, just before TAPE B changes directions. For music recording one-way recording is recommended.

Synchro dubbing

1. Press the TAPE B PAUSE button.
2. Press the TAPE B RECORD button. TAPE B will enter the recording pause mode.
3. Press the TAPE A PLAY button. Dubbing will begin.
4. To stop dubbing, press both STOP/EJECT buttons.

NOTE:

Do not change the dubbing speed during the dubbing operation.

Automatic stop during dubbing

1. The TAPE A cassette is longer than the TAPE B cassette:
After the TAPE B cassette stops, TAPE A playback will continue at normal speed.
2. The TAPE B cassette is longer than the TAPE A cassette:
After the TAPE A cassette stops, TAPE B will be set to the erase mode. Press the TAPE B STOP/EJECT button immediately when the TAPE A cassette stops.

CLOCK OPERATION

SETTING THE TIME

In this example the clock is being set to 7:30 PM.

1. Press and hold down the MODE/SET switch until the clock display begins to blink (approximately 3 seconds). (Fig.15)



Fig. 15

2. Press the HOUR switch repeatedly to select the current hour (set to PM "7"). (Fig.16)

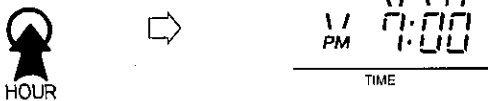


Fig. 16

3. Press the MINUTE switch to select the current minute (set to "30").

NOTE:

The hour setting will not change when the minute display changes from "59" to "00". (Fig.17)



Fig. 17

4. Press the MODE/SET switch a second time. The seconds will be set to "00" and the clock will start. (Fig.18)

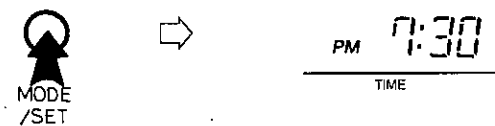


Fig. 18

CD/CLOCK DISPLAY switch

If the FUNCTION switch is set to CD, press the CD/CLOCK DISPLAY switch to change the compact disc display mode to the clock display mode.

Press the switch again to return to the compact disc display mode.

TIMER OPERATION

NOTE:

- The clock must be set before the timer can be set.
- Once set, the timer will operate at the same time each day as long as the POWER/TIMER switch is set to "TIMER".
- The clock and timer can be set with the POWER/TIMER switch set to "ON", "OFF", or "TIMER".

SETTING TIMER

In this example, TIMER is being set to operate the radio for one hour, starting at 7:40 AM.

1. Set the FUNCTION switch to RADIO.
2. Press and release the MODE/SET switch. The TIMER indicator will blink in the display. (Fig.19)



Fig. 19

3. Press the HOUR switch while the TIMER indicator is blinking (set to 7 AM).
4. Press the MINUTE switch while the TIMER indicator is blinking (set to 40 minutes). (Fig.20)

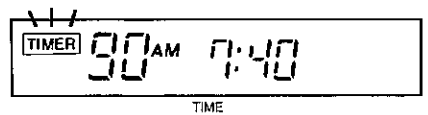


Fig. 20

5. Press the OPERATION switch while the TIMER indicator is blinking (set to 60 minutes). (Fig.21)

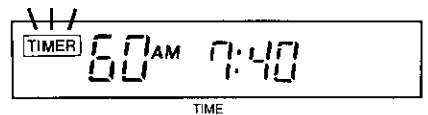


Fig. 21

NOTE:

The operation time indicator will change as follows when the OPERATION switch is pressed:

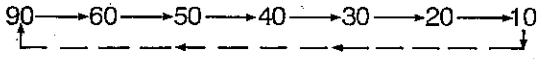
90 → 60 → 50 → 40 → 30 → 25 → 20 → 15

6. Set the POWER/TIMER switch to "TIMER". The clock display will appear, and the TIMER indicator will remain "ON", about 5 seconds after the POWER/TIMER switch is set to "TIMER".

SETTING THE SLEEP TIMER

The SLEEP timer will switch off the unit's power at the end of the selected time interval.

1. Set the POWER/TIMER switch to "SLEEP". The SLEEP indicator will blink in the display.
2. While the SLEEP indicator is blinking, press the OPERATION switch to select the desired operating time.



3. Set the FUNCTION switch as desired.

NOTE:

- If the tape function is selected, insert a tape into TAPE A and press the TAPE A PLAY button.
- Press the OPERATION switch to confirm the remaining sleep operation time. It displays for 5 seconds.

WAKE-UP TIMER

The RADIO, CD PLAYER or TAPE function can be used with the TIMER function as a wake-up timer.

Radio

1. Set the POWER/TIMER switch to "ON".
2. Set the FUNCTION switch to RADIO and tune in a station.
3. Follow steps 2-6 in "SETTING TIMER" section to set the wake-up time.

CD Player

1. Set the FUNCTION switch to CD and load a disc.
2. Follow steps 2-6 in "SETTING TIMER" section to set the wake-up time.

Tape

1. Set the FUNCTION switch to TAPE and insert a tape into TAPE B.
2. Follow steps 2-6 in "SETTING TIMER" section to set the wake-up time.
3. Press the TAPE B PLAY button.

TIMER RECORDING

1. Set the FUNCTION switch to RADIO and tune in a station.
2. Follow steps 2-6 in the "SETTING TIMER" section to set the TIMER.
3. Press the TAPE B RECORD button.

NOTE:

The power will be switched off at the end of the selected recording time.

GOING TO SLEEP

Radio

1. Set the POWER/TIMER switch to "ON".
2. Set the FUNCTION switch to RADIO and tune in a station.
3. Follow steps 1-2 in "SETTING THE SLEEP TIMER" section to set the desired sleep time.

CD Player

1. Set the FUNCTION switch to CD and load a disc.
2. Follow steps 1-2 in "SETTING THE SLEEP TIMER" section to set the desired sleep time.
3. Press the PLAY/PAUSE switch.

Tape

1. Set the FUNCTION switch to TAPE and insert a tape into TAPE A.
2. Follow steps 1-2 in "SETTING THE SLEEP TIMER" section to set the desired sleep time.
3. Press the TAPE A PLAY button.

GOING TO SLEEP AND WAKE-UP WITH RADIO

1. Tune in a desired station.
2. Set the wake-up time and the operation time by following the steps in the "SETTING TIMER" section.
3. Set the sleep operation time by following the steps in the "SETTING THE SLEEP TIMER".
4. Set the POWER/TIMER switch to "TIMER". The TIMER indicator will blink for 5 seconds and then remain on.
When the SLEEP and TIMER indicators are on, the sleep and wake-up timers are both set.

GOING TO SLEEP AND WAKE-UP WITH DISC PLAY

1. Play a compact disc. Adjust the VOLUME and TONE controls.
2. Set the wake-up time and the operation time by following the steps in the "SETTING TIMER" section.
3. Set the sleep operation time by following the steps in the "SETTING THE SLEEP TIMER".
4. Set the POWER/TIMER switch to "TIMER". The TIMER indicator will blink for 5 seconds and then remain on.
When the SLEEP and TIMER indicators are on, the sleep and wake-up timers are both set.

MAINTENANCE

Cleaning the unit

Do not use volatile chemicals on this unit (insecticides, etc.). Clean by lightly wiping with a soft cloth.

Cleaning the tape heads

To ensure the continued high performance of your unit, clean the heads, pinch rollers and capstans periodically whenever dust or a reddish-brown oxide has accumulated. Failure to clean these parts can result in inferior sound quality, distortion of recorded sound, deterioration of high frequency sound reproduction and inconsistent tape speed.

1. Open both cassette compartment lids by pressing both STOP/EJECT buttons.
2. Switch off the power.
3. Press both PLAY buttons.

Moisten a cotton swab (1) with isopropyl alcohol or special head cleaning fluid. Gently rub the face of each head (4, 7, 10) with alcohol. Also clean the capstans (2, 6, 8) and pinch rollers (3, 5, 9). Refer to Fig.22.

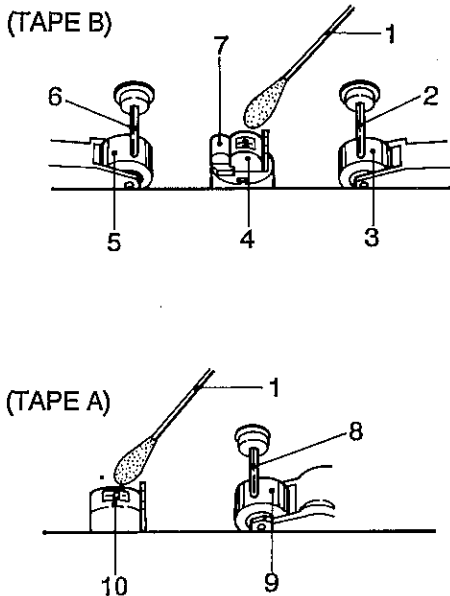


Fig. 22

Cleaning the CD player lens (Fig.23)

If dust is on the lens, blow the dust away by using a blower. (Please consult your dealer.)

The lens should never be touched. However, if a finger-print does get on the lens, wipe it gently by using a cotton swab moistened with Isopropyl alcohol. (Please consult your dealer.)

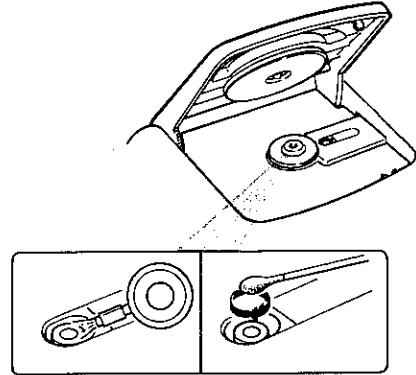


Fig. 23

CAUTION:

Do not apply excessive pressure; you might damage the lens.

Apply alcohol sparingly. Only a small amount is needed. Use of too much alcohol may cause some to enter the unit, which may cause damage.

If trouble occurs ...

To avoid electric shock hazard or any accidents to yourself or the unit, have the unit bench tested by a SANYO dealer. Do not remove the unit from its cabinet to attempt a repair yourself.

SPECIFICATIONS

(CASSETTE SECTION)

Recording system:
AC bias, 4 track stereo

Erasing system:
AC erase

Tape speed:
4.75cm/sec.

Fast forward and rewind time:
110sec. (C-60 tape) (TAPE A)
140sec. (C-60 tape) (TAPE B)

Frequency response:
40-14,000Hz (Normal tape)

(CD SECTION)

Channels:
2 channels

S/N ratio:
85dB

Wow & Flutter:
undetectable

Sampling frequency:
44.1kHz

Quantization:
16bits linear/ch

Pick up light source:
Semi-conductor laser

Pick up wave length:
790nm

(RADIO SECTION)

Tuning ranges:
AM: 530-1,710kHz
FM: 87.5-108MHz

Antennas:
Built-in ferrite bar and telescopic rod antennas

(GENERAL)

Output power:
6.5W x 2 (DC max.)

Speaker:
12cm x 2, 2.7ohms

Terminal impedance
EXT MIC: 1mV/3kohms
SURROUND SPKRS: 8ohms
PHONES: 32ohms

Power source:
AC: 240V, 50Hz
DC: 12V (8 "D" size batteries)
Clock/Computer battery:
DC 4.5V (3 "AA" size batteries)

Remote control unit:
DC 3V (2 "AA" size batteries)

Dimensions (approx.):
640 x 205 x 233 mm (W x H x D)

Weight (approx.):
6.3kg including batteries

Specifications subject to change without notice.

The SANYO logo features the word "SANYO" in a bold, sans-serif font. The letter "A" is stylized with several vertical lines of varying lengths passing through it, creating a distinctive graphic element.

SANYO Electric Co., Ltd.