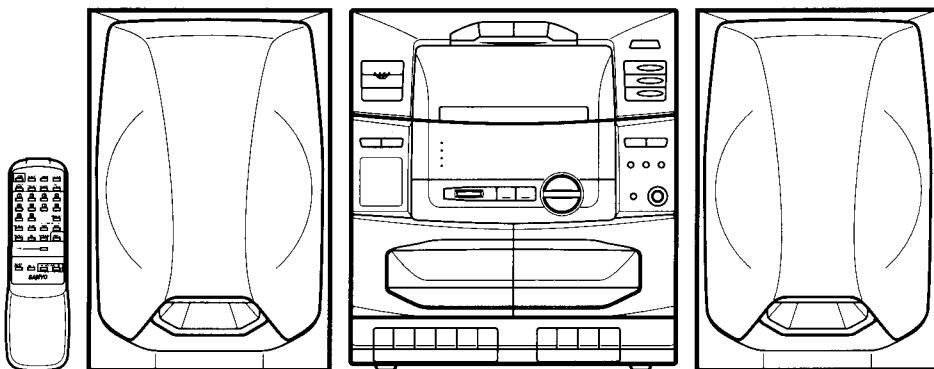




INSTRUCTION MANUAL

DC-F210

Mini Component System



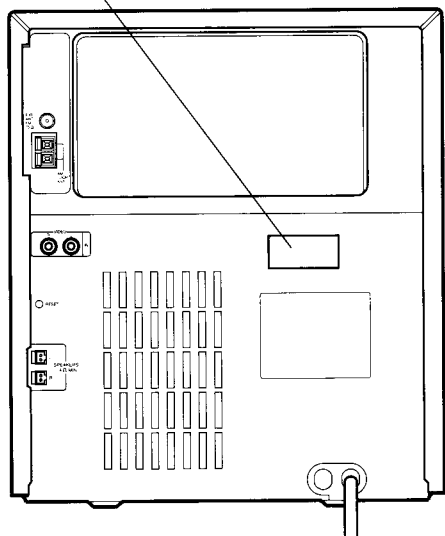
(For AU)

CAUTION - INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL - USYNLIG LASER STRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION, UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARNING - OSYNLIG LASER STRÅLNING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.
VORSICHT - UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITVERRIEGELUNG ÜBERBRÜCKT IST. NICHT, DEM STRAHL AUSSETZEN.
VARO - AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

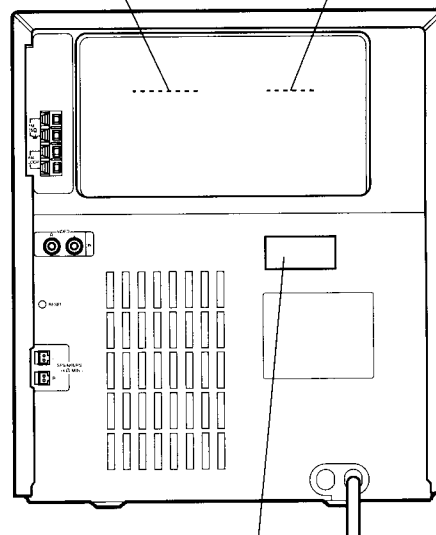


(For UK)

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT



CAUTION
THIS PRODUCT CONTAINS A LOW POWER LASER DEVICE, TO ENSURE CONTINUED SAFETY DO NOT REMOVE ANY COVERS OR ATTEMPT TO GAIN ACCESS TO THE INSIDE OF THE PRODUCT.
REFER ALL SERVICING TO QUALIFIED PERSONNEL.



CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

CAUTION - USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN 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.

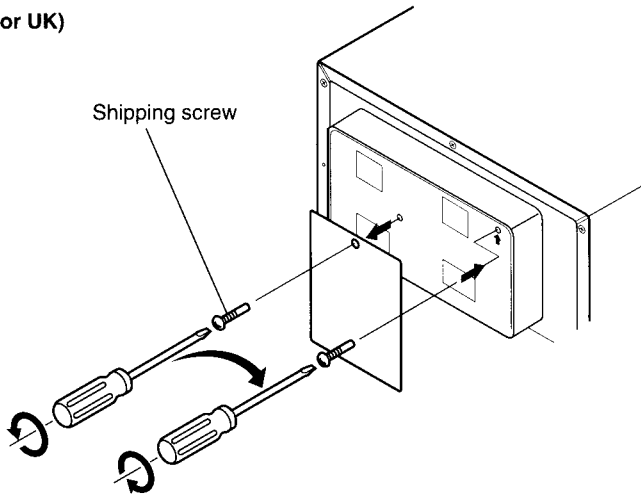
PRECAUTIONS

- If water should enter the unit, electrical shock or malfunction may result. Always use it in a place where there is low humidity and little dust.
- Do not use where there are extremes of temperature (below 5°C or exceeding 35°C) or where direct sunlight may strike it.
- Because of the CD player's extremely low noise and wide dynamic range, there might be a tendency to set the volume on the amplifier unnecessarily high. Doing so may produce an excessively large output from the amplifier which could damage your speakers.
- Sudden changes in the ambient temperature may cause condensation to form on the optical lens inside the unit. If this happens, take out the disc, leave the unit for about 1 hour, and then proceed to operate.
- **When carrying the unit, be sure to remove any discs which may be inside and turn the power off. The STANDBY indicator lights. Then unplug the mains lead from the AC outlet. Carrying the unit with any discs inside may damage the discs and/or the unit.**
- The system's speakers use powerful magnets. Do not place timepieces, credit cards, cassette tapes or video tapes, etc. near the speakers.

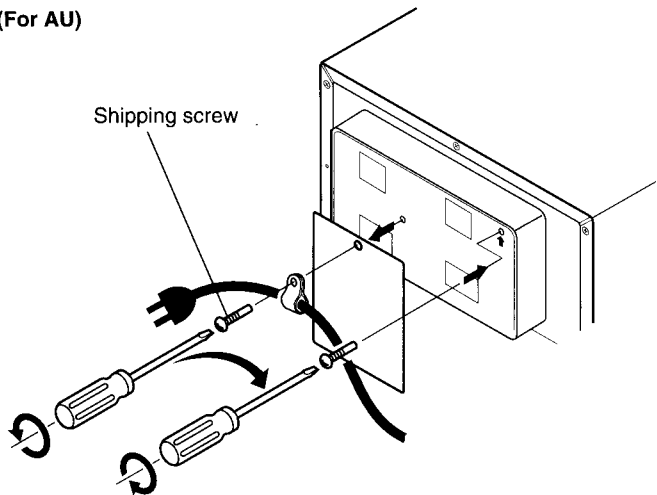
Before use

Remove the shipping screw from the rear of the unit as shown in figure. This screw is used to secure the CD mechanism during shipment and should be retained for future use as shown in figure.

(For UK)



(For AU)



(For UK)


IMPORTANT

If the plug supplied with this equipment is not suitable for the socket outlets in your home it should be cut off and replaced with the correct type.

Disposal of Plug

If the non rewirable plug is to be cut off, the removed plug should be disposed of carefully as there is a shock hazard should the plug be inserted into a live socket.

Replacing Fuse

The detachable fuse cover must be replaced after changing the fuse. Only a 3A fuse should be used and should comply with BS1362 and should carry the ASTA mark .

The wires in the mains lead are coloured in accordance with the following code;

Blue	Neutral
Brown	Live

The wires in the mains lead must be connected to the terminals in the plug as follows;

Wire colour	Plug terminal marking
Blue	N or Black or Blue
Brown	L or Red or Brown

Do not connect either wire to the earth terminal.

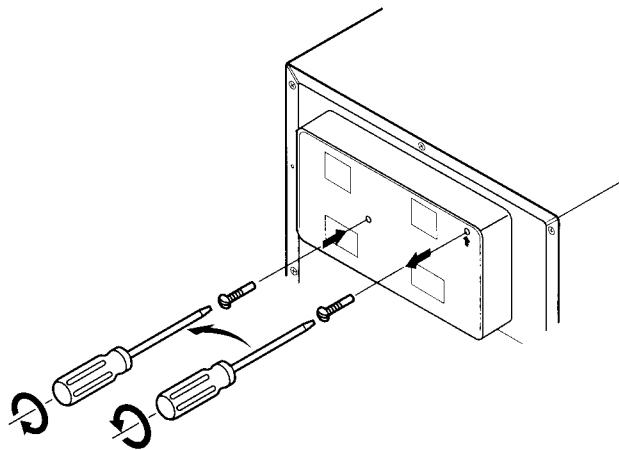
If the mains plug contains a fuse this should be 3A, if a plug without a fuse is used the distribution board fuse should not be greater than 5A.

The unit is not disconnected from the mains unless it is unplugged from the AC outlet.

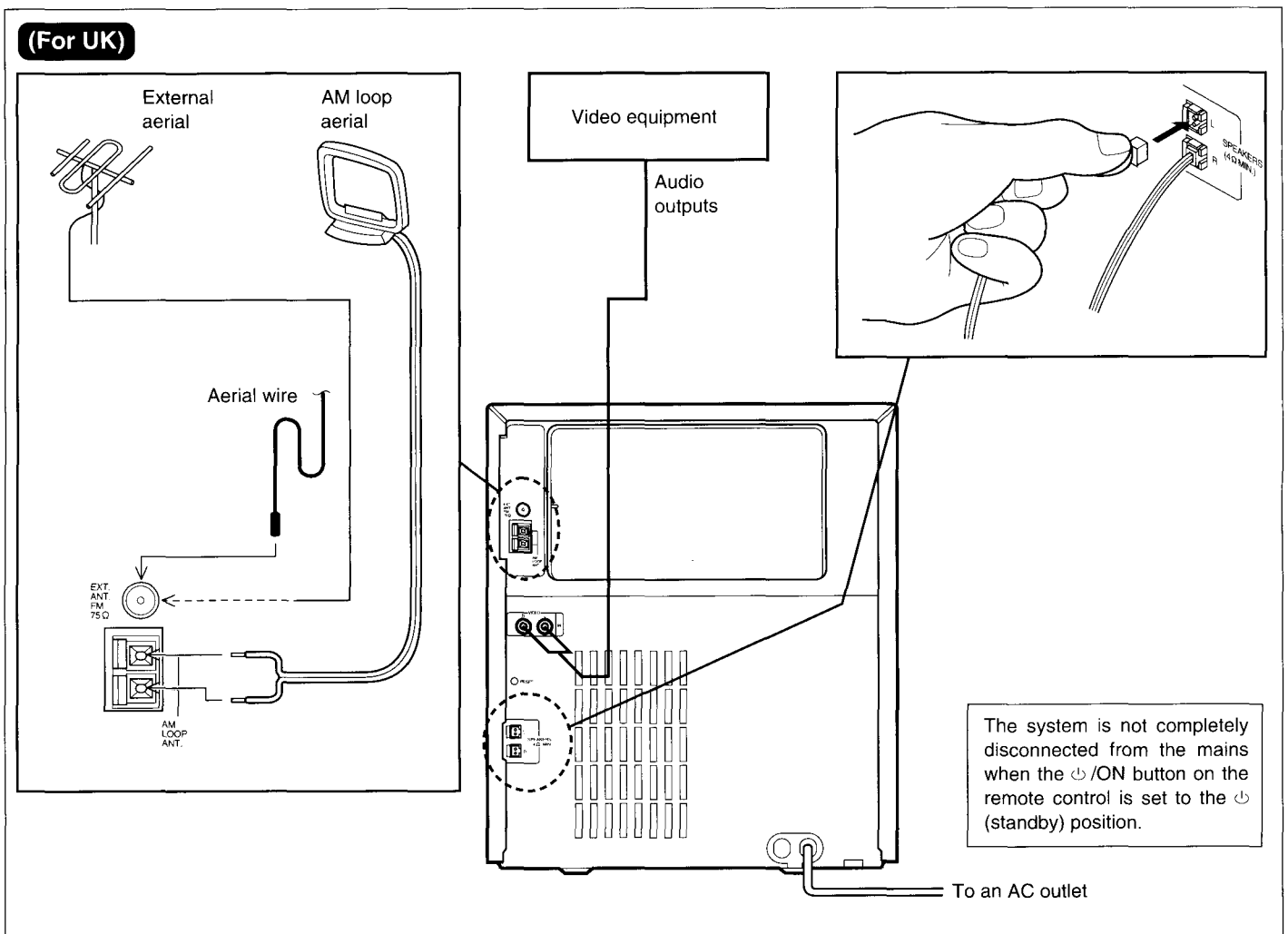
Do not install this equipment in a confined space, such as a book case or built in cabinet.

Before transportation

1. Turn on the power and remove all discs from the unit.
2. Turn the power off. The STANDBY indicator lights.
3. Then unplug the mains lead from the AC outlet.
4. Reinstall the shipping screw as shown in figure.



CONNECTIONS



Note:
Do not connect the mains lead to an AC outlet until all connections have been made.

When the unit is first connected, the display switches automatically to the demonstration mode. To cancel this mode, turn the power on.

Speakers

Connect the connector of the left speaker lead to the "L" SPEAKERS socket and the connector of the right speaker lead to the "R" socket. If you have difficulty inserting the speaker lead connector, turn it over and reinsert it.

Aerials (For UK)

In areas close to a transmitter the simple indoor aerial is sufficient to receive broadcasts. Extend the aerial wire as straight as possible and, while listening to the sound from the system, secure it in a position which yields minimal distortion and noise.

In fringe areas or where reception is distorted or noisy, an external aerial (not supplied) should be connected instead of the simple indoor aerial. Consult your dealer.

FM aerial (For AU)

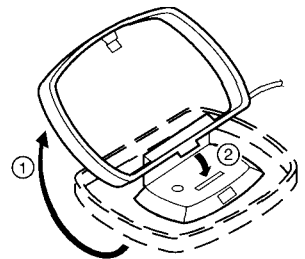
The FM indoor aerial is sufficient to receive most local FM broadcasts and should be connected to the FM 75 ohm terminal. Extend the aerial wire as straight as possible and, while listening to the sound from the system, secure it in a position which yields minimal distortion and noise.

In fringe areas or where reception is distorted or noisy, an FM external aerial (not supplied) should be connected instead of the indoor aerial. The terminals will accept 75-ohm coaxial cable. Consult your dealer.

AM loop aerial

Assemble the loop aerial as shown in figure.

Unwind the aerial wires, then connect them to the AM LOOP ANT. terminals. Place the loop aerial in a position which yields the best AM (MW/LW) reception, or attach it to a wall or other surface as shown in figure.

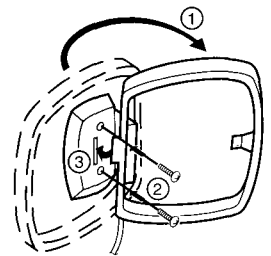


Note:

To minimize noise, the speaker, mains and any other leads should not come close to the indoor or external aerial lead and AM loop aerial. Do not place the aerial leads close to the system.

Video equipment

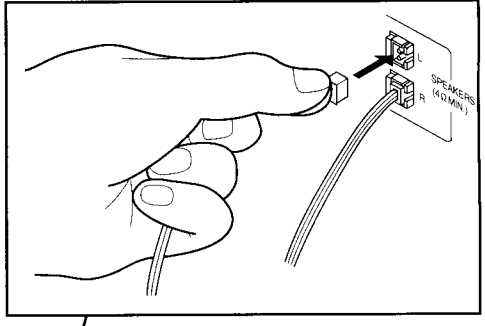
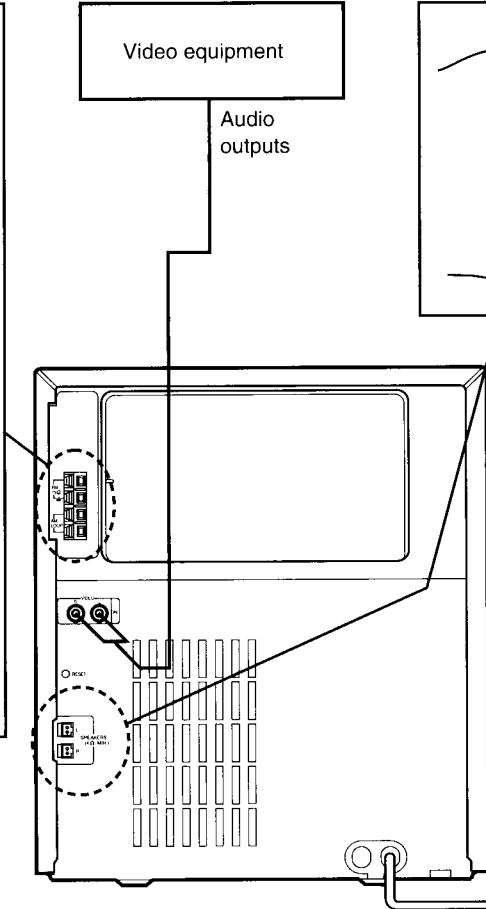
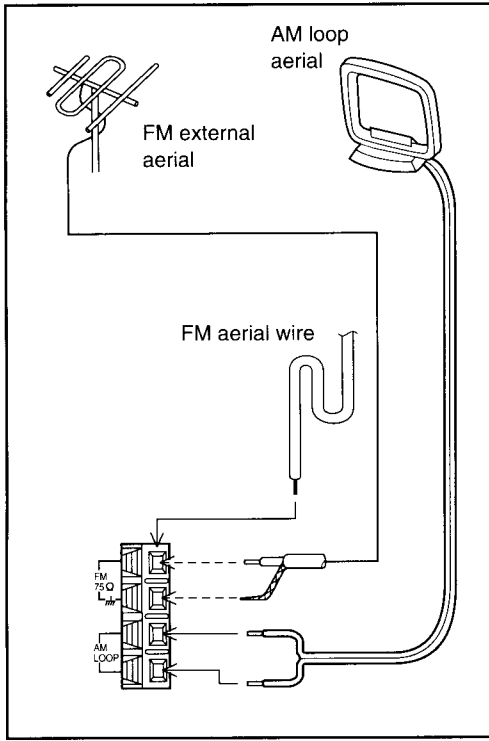
Connect audio leads (not supplied) from the audio output sockets of a video equipment to the VIDEO IN sockets.





Headphones

Connect stereo headphones (not supplied) to the PHONES socket for monitoring or for private listening. The speakers are automatically disconnected when headphones are connected.

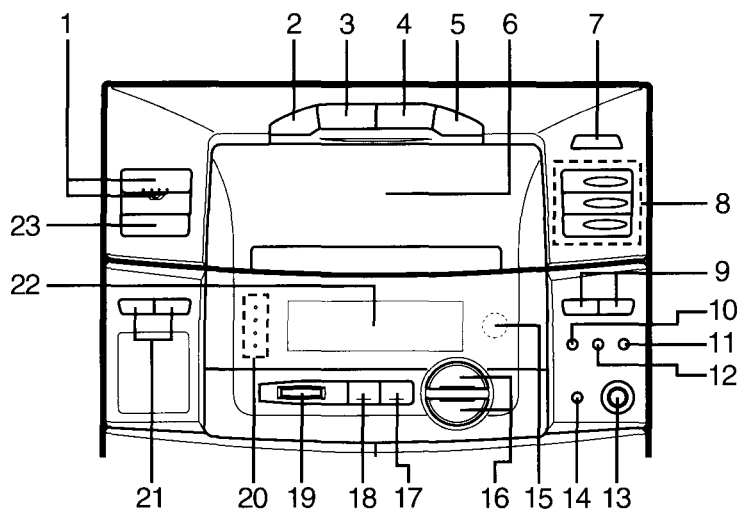
(For AU)



The system is not completely disconnected from the mains when the  /ON button on the remote control is set to the  (standby) position.

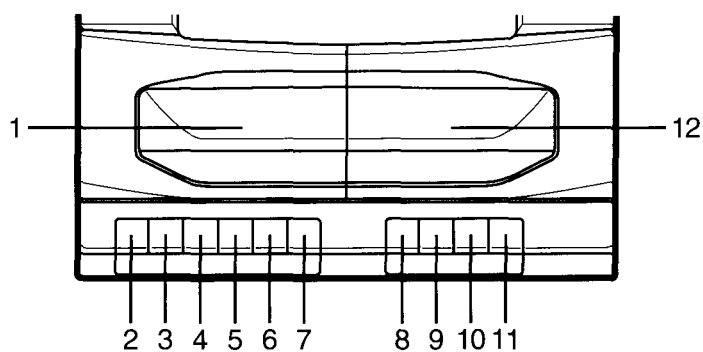
CONTROLS

CD player/Tuner/Amplifier section



- | | |
|---|--|
| <ul style="list-style-type: none"> 1. Standby/Power on button/Standby indicator (STANDBY/ON, STANDBY) 2. Skip/Search button (◀◀/◀◀) 3. Play/Pause button (▶/) 4. Stop button (■) 5. Skip/Search button (▶▶/▶▶) 6. Disc trays (inside the door) 7. Disc tray open/close button (OPEN/CLOSE) 8. Disc select buttons/indicators (DISC 1/DISC 2/DISC 3) 9. Preset tuning buttons (PRESET) 10. Tuner function/Band select button (TUNER/BAND) 11. Memory button (MEMORY) | <ul style="list-style-type: none"> 12. FM mode select button (FM MODE) 13. Headphones socket (PHONES) 14. Dubbing speed select button (HIGH SPEED DUBBING) 15. Remote sensor (IR) 16. Volume buttons (VOLUME) 17. Bass expander button (BASSXPANDER) 18. Sound preset button (SOUND PRESET) 19. SRS (Sound Retrieval System) sound button/indicator (SRS SOUND) 20. Sound preset indicators (POP/ROCK/CLASSIC/JAZZ) 21. Tuning buttons (TUNING) 22. Display 23. Function button (FUNCTION) |
|---|--|

Cassette deck section



Deck B

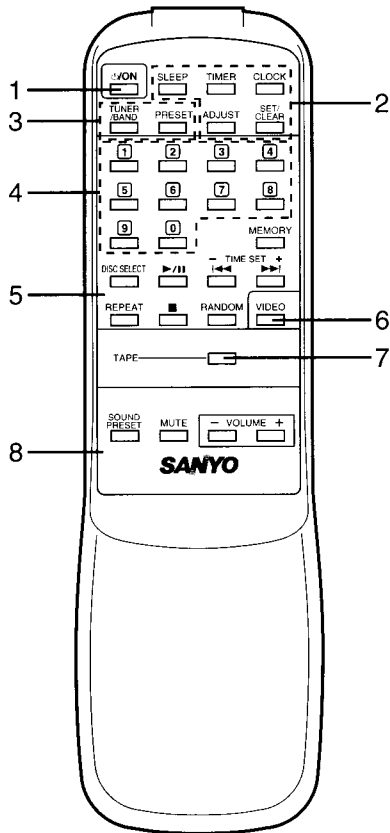
- 1. Cassette holder
- 2. Record button (REC)
- 3. Play button (PLAY)
- 4. Rewind button (REW)
- 5. Fast forward button (F FWD)
- 6. Stop/Eject button (STOP/EJECT)
- 7. Pause button (PAUSE)

Deck A

- 8. Play button (PLAY)
- 9. Rewind button (REW)
- 10. Fast forward button (F FWD)
- 11. Stop/Eject button (STOP/EJECT)
- 12. Cassette holder

REMOTE CONTROL

Controls



1. Standby/Power on button (⏻ /ON)
2. Clock/Timer controls
 SLEEP: Sleep timer button
 TIMER: On/Off timer button
 CLOCK: Clock button
 ADJUST: Adjust button
 SET/CLEAR: Set/Clear button
3. Tuner controls
 TUNER/BAND: Tuner function/Band select button
 PRESET: Preset tuning up button
4. Number buttons (1 - 9, 0)
5. CD player controls
 MEMORY: Memory button
 (This button can also be used as a tuner memory button.)
 DISC SELECT: Disc select button
 \blacktriangleright /||: Play/Pause button
 TIME SET/|◀◀, ▶▶|: Time set/Skip/Search buttons
 REPEAT: Repeat button
 ■: Stop button
 RANDOM: Random play button
6. Video function button (VIDEO)
7. Tape function button (TAPE)
8. Amplifier controls
 SOUND PRESET: Sound preset button
 MUTE: Audio muting button
 VOLUME: Volume buttons

Number buttons (1 - 9, 0)

These buttons are used to select the track numbers on a disc or preset radio stations.

If the function is "CD", the buttons select the track numbers on a disc.

If the function is "TUNER", the buttons select preset radio stations.

With any other function, the buttons will not function.

- Two buttons must always be pressed.

Example:

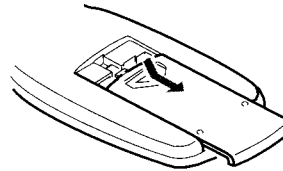
To select No. 3, press 0, then 3.

To select No. 10, press 1, then 0.

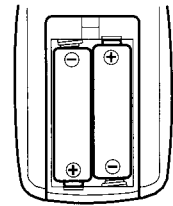
To select No. 25, press 2, then 5.

Inserting batteries

1



2

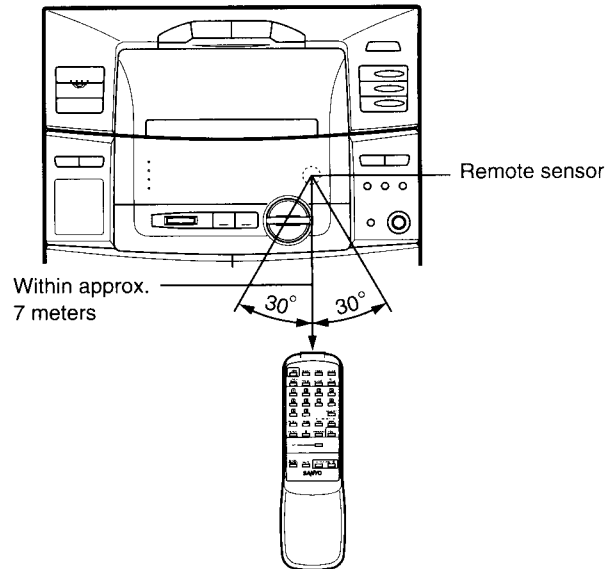


Two R6 (HP 7)/AA/SUM-3 batteries (not supplied)

Note:

Always remove batteries if the remote control is not to be used for a month or more. Batteries left in the unit may leak and cause damage.

Remote control range



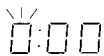
The buttons on the remote control perform similar functions to similarly marked buttons on the front panel.

ADJUSTING THE CLOCK

Using the remote control

Example: To set "6:30" ("AM 6:30"),

- Press the CLOCK button. The clock display appears.
 - After connecting the mains lead for the first time, when you press the CLOCK button, the clock display blinks.
- Press the ADJUST button within 10 seconds.



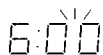
For AU: The clock is 12-hour display. Example: AM 12:00

The hours display blinks.

- Press the + or - TIME SET button to set the "hours."

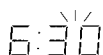


- Press the ADJUST button.

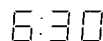


The minutes display blinks.

- Press the + or - TIME SET button to set the "minutes."



- Press the ADJUST button. The clock starts.



- The time can be set accurately by pressing the ADJUST button when a time signal is heard.
- These operations can be done, even if in standby.
- To display the clock during operation, press the CLOCK button. Press it again to return to the original display.
- When the display blinks because of a power failure, reset the time.

For UK: Changing the clock to the 12-hour display

- Press the STANDBY/ON button to turn the power off.
- While pressing the MEMORY button on the front panel, press the ■ button (CD section) on the front panel.

Example: 13:00 → PM 1:00

To return the original setting, repeat steps above.

BEFORE OPERATION

Turning the power on and off

Press the STANDBY/ON button. The indicators and displays light and the STANDBY indicator goes out. (After connecting the mains lead, when you press the STANDBY/ON button for the first time, the volume reset feature automatically sets the initial volume level.)

To turn off the power, press the STANDBY/ON button again. The STANDBY indicator lights. The clock display remains lit.

- When the mains lead is connected to the AC outlet, the STANDBY indicator lights and the unit will respond to commands from the remote control.

Smart start function

If the following buttons are pressed when the unit is in standby, the unit turns on automatically and the selected function is set.

CD player section	▶/II, DISC 1, DISC 2, DISC 3, OPEN/CLOSE
Tuner section	TUNER/BAND
Remote control	▶/II, TUNER/BAND, TAPE, VIDEO

Selecting the function

Press the FUNCTION button to select the desired function. Each time the button is pressed, the display changes as follows:

CD → TAPE → TUNE → VIDEO → CD → ...

The function is automatically selected when CD play is started or when the TUNER/BAND button has been pressed (except during recording or tape dubbing).

- When the function selection is changed, CD play is automatically stopped.

Adjusting the volume

Press the ^ or v VOLUME button, or press the + or - VOLUME button on the remote control. The volume level appears on the display (VOL 0 ~ VOL 10).

To reduce the volume temporarily (muting)

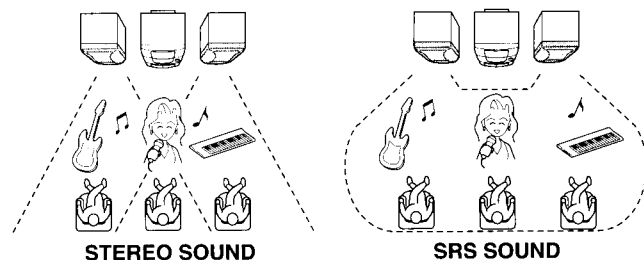
Press the MUTE button on the remote control. "MUTE" blinks on the display.

To restore the previous volume setting, press the MUTE button again. "MUTE" disappears.

What is SRS(●)?

SRS(●), the Sound Retrieval System, replaces stereo as the method of accurately reproducing sound and is rapidly becoming the standard for 3-D audio technology. It creates a three-dimensional sound image from any audio source with only two conventional stereo speakers. Whether the signal is stereo or surround sound encoded, **SRS(●)** expands the material and immerses the listener in three-dimensional sound.

SRS(●) differs from stereo and traditional sound expansion techniques because it is based on the human hearing system. It retrieves the spatial information from recordings and restores the original three-dimensional sound field. As a result, the reproduced sound is much closer to a live performance. Like live performances, **SRS(●)** has no critical listening position (sweet spot). Listeners can move around the room and continue to be immersed in full three-dimensional sound.



SRS, the SRS symbol "(●)" and "Sound Retrieval System" are registered trademarks of SRS Labs, Inc. in the U.S. and selected countries.

SRS (Sound Retrieval System) technology is manufactured under license from SRS Labs, Inc.

SRS (Sound Retrieval System) technology is protected by USA patents 4,748,669 and 4,841,572 and additional patents worldwide.

To activate the SRS(Sound Retrieval System)

Press the SRS SOUND button. The SRS SOUND indicator lights.

- The **SRS** will not activate with monaural sources.

Bass expander system

Press the BASSXPANDER button to enhance the bass sound. "BASS" appears on the display.

- The initial setting of this function is ON.

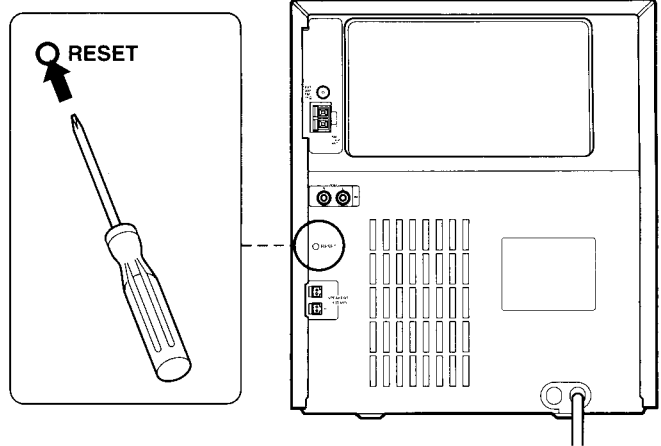
Selecting the sound mode

Press the SOUND PRESET button to select the sound mode matching the music to be listened to.

- POP: Pops, etc.
- ROCK: Rock music, etc.
- CLASSIC: Classical music, etc.
- JAZZ: Jazz, etc.

WHAT TO DO IF ...

If the operation of the unit or display is not normal or when all the memory contents are to be cleared, disconnect the mains lead from the AC outlet, then press the RESET button (rear of the unit) for 30 seconds or more.



CD PLAY

Use compact discs bearing the symbol shown below. In addition to conventional 12 cm CDs, this system can be used to play 8 cm CDs without an adapter.

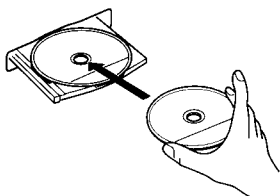


Note:

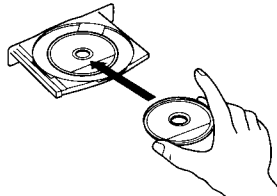
- Do not touch the disc tray while it is moving.
- Never place anything except a compact disc on the disc tray. Foreign objects can damage the unit.
- Do not apply excessive force to the disc tray.
- Discs must be placed on the disc tray one at a time.

If discs are loaded, you can turn the unit on and begin play immediately by pressing the ►/||, DISC 1, DISC 2 or DISC 3 button.

1. Select "CD" function by pressing the FUNCTION button. "CD" appears on the display, then "CD" is replaced by "disc". "1" disc number blinks.
2. Press one of the disc select buttons (DISC 1, DISC 2 or DISC 3), then press the OPEN/CLOSE button.
 - If the changer mechanism has detected "no disc" for the disc select button pressed, the tray slides out automatically. The selected disc tray slides out. "OPEN" appears and the selected disc number blinks on the display.
3. Place the disc with the label facing up on the disc tray.



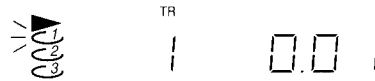
For 12 cm CD



For 8 cm CD

4. Press the OPEN/CLOSE button again to close the disc tray.
Note:
To open or close the disc tray, be sure to use the OPEN/CLOSE button. Do not touch the disc tray by hand.
5. Repeat steps 2 - 4 to load another disc.

6. Press one of the disc select buttons (DISC 1, DISC 2 or DISC 3). The selected disc indicator blinks.



"►" appears, and play starts from the first track of the selected disc. The track number and elapsed playing time for the current track are displayed.

- If the desired disc number has been selected, the ►/|| button can also be used to start play.

Note:

If the disc is loaded with the label facing downward, or if a badly scratched disc is loaded, "NO DISC" appears on the display. If this occurs, load the disc correctly or replace the damaged disc.

7. Press the ■ button to end disc play.
When the last track of the last disc has been played, the player stops automatically.
 - When the OPEN/CLOSE button is pressed during play, play will stop and the disc tray will slide out.

Ejecting or replacing discs

1. While in the CD play or stop mode, press one of the disc select buttons to be ejected, then press the OPEN/CLOSE button.
 - While the player is playing one disc, you can eject or replace another disc without stopping play.
2. Remove or replace the disc.
3. Press the OPEN/CLOSE button.

Notes on handling compact discs

- Do not expose the disc to direct sunlight, high humidity or high temperatures for extended periods of time.
- Discs should be returned to their cases after use.
- Do not apply paper or write anything on the disc surface.
- Handle the disc by its edge. Do not touch the playing surface (glossy side).
- Fingerprints and dust should be carefully wiped off the playing surface of the disc with a soft cloth.
Wipe in a straight motion from the centre to the outside of the disc.
- Never use chemicals such as record cleaning sprays, antistatic sprays or fluids, benzene or thinner to clean compact discs.

To start play from the desired track

Using the remote control

1. Select the desired disc by pressing the DISC SELECT button, then press the **■** button.
2. Press two number buttons to select the desired track.

Using the main unit

1. Press the desired DISC button, then press the **■** button.
2. Select the desired track by using the **▶▶/▶▶|** or **|◀◀/◀◀** button, then press the **▶/||** button.

Temporarily stopping play

Press the **▶/||** button. "▶" blinks on the display. To resume play, press the button again.

Skip play

To skip to track 6 while track 3 is playing, press the **▶▶/▶▶|** button repeatedly until "6" appears in TR on the display.

To skip back to track 3 while track 6 is playing, press the **|◀◀/◀◀** button repeatedly until "3" appears.

- The number buttons on the remote control can also be used for skip play. To skip to track 6 while one track is playing, press 0, then 6.

Search (forward/reverse)

If the **▶▶/▶▶|** or **|◀◀/◀◀** button is pressed during play, the player will search at high speed in the forward or reverse direction while the button is being pressed. When the button is released, normal play will continue.

Random play

Press the RANDOM button on the remote control to begin random play. The player will automatically select and play discs and tracks at random. "RANDOM" appears on the display.

- Random play will not function during programmed play.

Repeat play

Press the REPEAT button on the remote control repeatedly to select the desired repeat mode in the following sequence. The selected repeat mode is shown on the display.

REPEAT ONE: Repeat one track.

REPEAT ALL: Repeat all tracks on the selected disc.

REPEAT CONT: Repeat all tracks on all discs.

Released: Normal play mode

Note:

During programmed play, "REPEAT CONT" can not be selected.

Changing discs during play

While the player is playing one disc, press one of the disc select buttons to skip to another disc. "CH DISC" blinks for a few seconds, then the selected disc moves into playing position.

Play starts automatically from the first track on the disc.

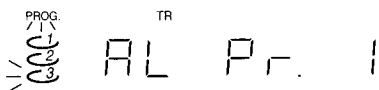
PROGRAMMED PLAY

Up to 32 selections, from up to 3 discs, can be programmed for play in any order.

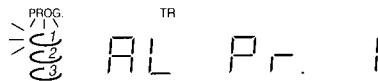
- To begin the programming procedure, select "CD" function first.
- The discs or tracks must be programmed in the stop mode.
- The same disc or track can be programmed more than once.

Follow the example below to programme tracks 6 and 2 on DISC 1 and all tracks on DISC 3. In this example, each disc has 9 tracks and DISC 3 is in playing position.

1. Press the MEMORY button.



2. Select disc 1 by pressing the DISC 1 button.
 - The DISC SELECT button on the remote control can also be used.



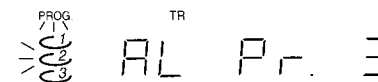
3. Select track 6 by pressing the **▶▶/▶▶|** button.
 - The number buttons on the remote control can also be used.



4. Press the MEMORY button. "PROG." remains lit.
5. Select track 2 by pressing the **|◀◀/◀◀** button.



6. Press the MEMORY button. "PROG." remains lit.
7. Select disc 3 by pressing the DISC 3 button.



8. Press the MEMORY button. "PROG." remains lit.
9. Press the **▶/||** button to start play.



When all programmed selections have been played, the player stops automatically. "0 0.00" appears on the display.

- The programme contents are retained in memory.

- Any attempt to programme more than 32 selections will result in "FULL" being displayed and discontinuation of the programming.
- If a non-existent disc or track number is programmed, that disc or track will be skipped during play.
- The programme is cleared when the **■** button is pressed in the stop mode.

Checking the programme

Each time the MEMORY button is pressed in the stop mode, the programmed details sequentially appear on the display.

Changing a programme

To add a new selection to a programme:

1. In the stop mode, press the MEMORY button repeatedly until ". - - -" is displayed.
2. Select a disc and track number as explained above.
3. Press the MEMORY button.

To change a selection:

1. In the stop mode, press the MEMORY button repeatedly until the selection to be replaced is displayed.
2. Select a disc and track number as explained above.
3. Press the MEMORY button.

Note:

Programmed details cannot be partially deleted or inserted.

WHAT TO DO IF ...

If the operation of the unit or display is not normal, even though the appropriate buttons have been pressed.

1. Disconnect the mains lead.
2. Press the RESET button (rear of the unit) for 30 seconds or more.
3. Connect the mains lead.
4. Press the STANDBY/ON button to turn the power on.
5. Press the desired function button.

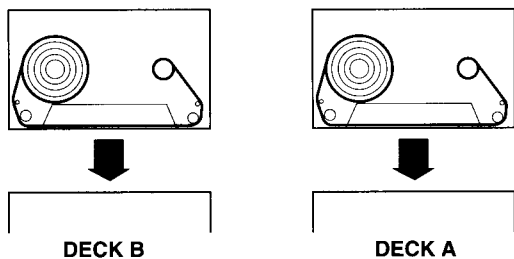
Note:

If the unit does not operate correctly, please contact your nearest SANYO Authorized Service Centre.

LISTENING TO TAPES

Deck A is for playback only; deck B is for both playback and recording.

1. Select "TAPE". "TAPE" appears on the display.
2. Press the STOP/EJECT button to open the cassette holder.
3. Load the cassette(s).



After the cassette has been loaded, push the cassette holder back into position.

4. Press the PLAY button (Deck A or Deck B) to begin playback.
 5. Press the STOP/EJECT button to stop playback at any time. Press it again to remove the cassette.
- When the end of the tape has been reached, automatic stop will be activated.

Note:

- Endless tapes cannot be used.
- Do not use C-120 tapes. They may jam in the mechanism.

Pause (Deck B)

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

Fast forward and rewind

Press the F FWD or REW button.

When the tape has been wound to the end, the deck stops automatically.

Note:

While playing or recording, do not press the F FWD or REW button of the other deck, or the sound quality may deteriorate.

Sequential playback (From deck A to deck B)

1. Press the PLAY button on deck A. Deck A playback will begin.
2. Press the PAUSE button on deck B.
3. Press the PLAY button on deck B. Deck B enters the pause mode. When the tape automatically stops on deck A, deck B playback will begin. When the end of the tape has been reached on deck B, automatic stop will be activated.

LISTENING TO THE RADIO

To turn the unit on and listen to the last received station, press the TUNER/BAND button.

Automatic/Manual tuning

1. Press the TUNER/BAND button to select the desired band.
 - "TUNER" is selected automatically. "TUNE" appears on the display, then "TUNE" is replaced by the tuner mode display.

For UK: FM → MW → LW

For AU: FM → AM

2. Automatic tuning

Press the + or – TUNING button (more than 0.7 seconds) to tune in a station. The unit will scan up or down the band and receive the next receivable station. Press the button again to continue.

Manual tuning

Press the + or – TUNING button briefly (less than 0.7 seconds) until the desired frequency is displayed. Each time the button is pressed, the frequency changes in 0.05 MHz steps for FM, 9 kHz steps for MW/AM and LW.

FM 103.25_{MHz}

To preset stations

For UK: Up to 24 stations for FM band, 12 stations for MW band, and up to 4 stations for LW band can be preset.

For AU: Up to 24 stations for FM band, and up to 12 stations for AM band can be preset.

Automatic presetting (APT)

1. Press the TUNER/BAND button to select the desired band.
2. Press and hold down the MEMORY button for at least 3 seconds. "PROG." blinks.

The automatic tuning mode is set and automatic presetting begins from the low end of the band.

When 24 stations (12 stations for MW/AM or 4 stations for LW) have been preset or the high end of the band is reached, automatic presetting stops. "PROG." disappears and the station memorized on channel number 1 will be heard.

3. To preset stations on the other band, follow steps above.

Note:

If APT is activated, all previously programmed stations of the band will be cleared and new stations will be programmed.

Manual presetting

1. Tune in the station to be preset as described in "Automatic/Manual tuning".
2. Press the MEMORY button.

PROG.
/ \

-- 103.25_{MHz}

3. Press the + or – PRESET button to select the channel number to be preset.

PROG.
/ \

9 103.25_{MHz}

4. Press the MEMORY button.
 - In this example, "103.25 MHz" FM station is preset on FM channel number 9.
 - The number buttons on the remote control can be used to select the preset station. In this example, press 0, then 9 after the step 2 above.

FM 103.25_{MHz}

Note:

If the next step is not taken within 10 seconds while performing steps 2 - 4, "PROG." disappears and the preset operation is cancelled. Press the MEMORY button to continue.

5. Repeat the steps above to add more preset stations.

- When presetting a new station, the previously preset station on the same channel number of the same band is cleared.
- The preset stations will be retained in the memory even if the unit is turned off.

If the memory contents are lost due to a power failure or other condition, preset the stations again.

Listening to preset stations

1. Press the TUNER/BAND button to select the desired band.
2. Press the + or – PRESET button (less than 0.7 seconds) to select the desired channel number.
 - The number buttons on the remote control can also be used. Press two number buttons within 4 seconds.

Preset scan tuning

1. Press the TUNER/BAND button to select the desired band.
2. Press the + PRESET button (more than 0.7 seconds). The channel number blinks on the display. Each of the preset stations is tuned in for 5 seconds.
3. When the desired station has been tuned in, press the + PRESET button again to keep the reception locked at that station.

- To receive an FM stereo broadcast, make sure that "MONO" is not displayed. If "MONO" appears, press the FM MODE button to turn the "MONO" indication off.

"ST" appears when an FM stereo broadcast is received.

- If the signal from an FM stereo station is weak and reception is poor, press the FM MODE button to change to monaural reception. ("ST" is replaced by "MONO" in the display.)

Changing the MW/AM reception frequencies

It is not necessary to perform this procedure in the Europe (or in the Australia and New Zealand).

1. Press the TUNER/BAND button to select "MW" or "AM".
2. While pressing the MEMORY button on the front panel, press the ■ button (CD section) on the front panel.

For UK:

522 - 1611 kHz (9 kHz steps) ←→ 520 - 1610 kHz (10 kHz steps)

For AU:

522 - 1710 kHz (9 kHz steps) ←→ 520 - 1710 kHz (10 kHz steps)

LISTENING TO VIDEO SOURCES

1. Select "VIDEO" function. "VIDEO" appears on the display.
2. Follow the instructions supplied with the video equipment.

BEFORE RECORDING AND DUBBING

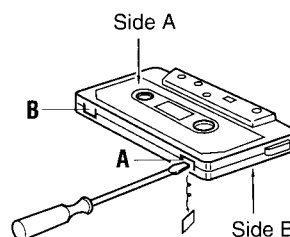
Recording copyright material without permission of the copyright owners is usually an infringement. If you wish to re-record copyright material, permission from the copyright owner is necessary. SANYO does not approve of, and cannot be held responsible for, any unlawful use of this machine.

Use deck B for recording.

Accidental erasure prevention tabs (for protecting valuable recordings)

Accidental erasure can be prevented by breaking out the tabs on the end of the cassette tape (where the tape is not exposed) using a screwdriver or similar implement.

If a tab is broken out in error and you wish to re-record the tape, simply block the tab hole using adhesive tape and the tape can be used for recording again.



Break out tab A for side A.
Break out tab B for side B.

RECORDING

Recording compact discs (Synchronous recording)

1. Load a blank cassette into deck B.
2. Select "CD".
3. Load the disc(s) to be recorded.
 - For programmed recording, programme the material in advance (as described under "PROGRAMMED PLAY").
4. Press the disc select button (DISC 1, DISC 2 or DISC 3) to select the disc to be recorded first, then press the \blacksquare button. Select the track number to be recorded if required.
 - For programmed recording, this step is unnecessary.
5. Press the REC button on deck B. The PLAY button is engaged simultaneously and CD recording starts. "REC" appears on the display
6. Press the STOP/EJECT button on deck B to stop recording. Also the CD player stops automatically.
When the end of the tape is reached, the CD player and deck B stop automatically.

Recording from the tuner or video input

1. Tune in the radio station to be recorded, or play a video cassette or video disc.
2. Load a blank cassette into deck B.
3. Press the REC button to start recording.
4. Press the STOP/EJECT button to stop recording.

When beat interference is heard

A high-pitched noise called "beat" is sometimes heard during the recording of radio broadcasts.

If this occurs,

1. Press the MEMORY button.
2. While "PROG." is blinking, press the $\blacktriangleright\blacktriangleright/\blacktriangleright\blacktriangleright$ button to select "bc-1" or "bc-2". Select the setting that gives the best results.

TAPE DUBBING (Deck A to Deck B)

1. Load the cassette to be played back into deck A and a blank cassette into deck B.
2. Select "TAPE".
3. Set the cassette in deck A to the point where recording will begin.
4. Select the dubbing speed with the HIGH SPEED DUBBING button.
High speed dubbing ("HI SPEED" appears on the display):
For dubbing the tape at high speed (twice normal speed).
Normal speed dubbing ("HI SPEED" disappears):
For dubbing while monitoring at normal speed.
5. Press the PAUSE button on deck B.

6. Press the REC button on deck B.
7. Press the PLAY button on deck A to start dubbing.
8. To stop dubbing, press both STOP/EJECT buttons.

- Do not change the dubbing speed during the dubbing operation.

Automatic stop during dubbing

- If deck B stops automatically, deck A continues playback mode at normal speed.
- If deck A stops automatically, deck B erases the tape to the end.

TIMER OPERATION (Using the remote control)

Using the on/off timer

Set the on and off times, function to be used and volume level. Operation will start with the selected function at the on time. The sound will be gradually increased from a no-sound level to the volume setting (fade-in). The power will be switched off at the off time.

The on/off timer will function every day unless it is released.

Preparation

Note:

Make absolutely sure that the clock is set to the correct time before setting the timer.

- Select the function for timer operation and prepare the sources to be used.
 - If the function selected is tuner, tune in to the desired band and station.
- Adjust the volume level as desired.

Operation

1. Press the TIMER button.



For AU: The clock is 12-hour display. Example: AM 12:00

The previous timer on time setting appears.

2. Press the ADJUST button within 10 seconds.



3. Set the timer on time by pressing the + or - TIME SET button, then press the ADJUST button (as described under "ADJUSTING THE CLOCK").



The timer off time setting appears.

4. Set the timer off time as described in step 3.



The current function appears.

- If you wish to change the function, press the FUNCTION button on the front panel to select the desired function.
5. Press the ADJUST button.

The original display returns, then the timer operation standby mode is activated. "TIMER" remains lit.
 6. Press the ⏻ /ON button to switch off the power.
 - For tape playback, press the PLAY button on the front panel (Deck A or Deck B).
 - For unattended recording, press the REC button on the front panel.
- "TIMER" blinks during a timer controlled operation.
 - To switch off the power during a timer controlled operation, press the ⏻ /ON button. The timer will be set in the standby mode.

To check the timer settings

Press the TIMER button repeatedly. The timer settings are displayed in the following order:

- On time
- Off time
- Function
- Original display returns

To change the settings, press the TIMER button to select the setting to be changed, then press the ADJUST button so that the display blinks. Change the setting as explained above.

To release the timer

After turning the power on, press the TIMER button, then press the SET/CLEAR.

To set the timer again with the same settings

1. Press the TIMER button, then press the SET/CLEAR.
2. Press the ⏻ /ON button to switch off the power.

Note:

- If the SET/CLEAR button is pressed while the timer is being set, the original display returns.
- The timer mode is released if a power failure occurs during timer controlled operation.
- The timer may not operate if a power failure occurs during timer operation standby mode.

Using the sleep timer

The sleep timer automatically switches off the power after a preset time has elapsed. The volume will gradually be reduced (fade-out) during the 1-minute period before the unit turns off. There are 12 time periods available: 120, 110, 100, 90, 80, 70, 60, 50, 40, 30, 20, and 10 minutes.

Press the SLEEP button repeatedly to select the desired sleep time. "SLEEP" and the selected time blink on the display. After several seconds, the original display returns. "SLEEP" blinks.

To check the remaining sleep time

Press the SLEEP button. The remaining time is displayed. After several seconds, the original display returns.

To release the sleep timer while in operation

Press the SLEEP button, then press the SET/CLEAR. The timer is also released if the power is switched off.

MAINTENANCE

Cleaning the decks A and B heads

To ensure playback and recording with good-quality sound, use cotton swab to clean the heads, pinch rollers and capstans of the decks after about every 10 hours of use.

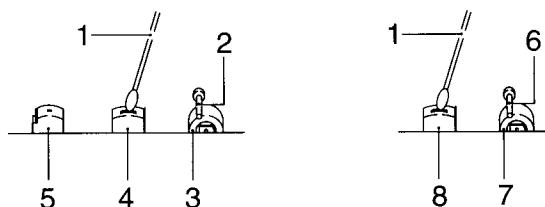
If the dirt persists, soak the swab in a little methylated spirit or head cleaning fluid and then clean.

Main unit

Use a soft cloth to remove dirt on the main unit.

If the dirt persists, dip a soft cloth into a diluted solution of neutral detergent, wring it out, wipe away the dirt, and then take up any moisture with a dry cloth.

Do not use benzene, thinners or alcohol since they will mar the finish of the surfaces.



- 1. Cotton swab
- 2, 6. Capstan
- 3, 7. Pinch roller
- 4, 5, 8. Head

SPECIFICATIONS

Tuner section

Reception frequency:

FM: 87.5 - 108 MHz

MW: 522 - 1611 kHz (UK)

LW: 144 - 288 kHz (UK)

AM: 522 - 1710 kHz (AU)

CD player section

Type:

Changer, 3-disc

Channels:

2-channel stereo

Sampling frequency:

44.1 kHz

Pick-up:

Optical 3-beam semiconductor laser

Laser output:

0.6 mW (Continuous wave max.)

Wave length:

790 nm

Frequency response:

20 Hz to 20 kHz

Wow/flutter:

Below measurable limits

Cassette deck section

Track system:

4-track, 2-channel stereo

Frequency response:

80 Hz to 13.5 kHz

Signal-to-noise ratio:

45 dB

Wow/flutter:

0.15% (WRMS)

Fast forward/rewind time:

Approx. 110 sec. (C-60)

Amplifier section

Output power:

22.5 W x 2 (at 4 ohms, 10% distortion)

Sound preset:

Four electronic presets

Inputs

VIDEO IN: 400 mV/50k ohms

Outputs

SPEAKERS: 4 ohms

PHONES: 8 - 32 ohms

Power requirements:

AC 230 V, 50 Hz (UK)

AC 230 - 240 V, 50 Hz (AU)

Power consumption:

74 W

Dimensions:

270(W) x 300(H) x 313(D) mm

Weight:

6.9 kg

Speaker systems

Type:

3 way bass reflex

Unit used:

Woofers: 12 cm cone type

Tweeter: piezoelectric

Super tweeter: piezoelectric

Maximum power-handling capacity:

45 W (peak)

Nominal impedance:

4 ohms

Dimensions:

200(W) x 300(H) x 235(D) mm

Weight:

2.2 kg (per speaker)

Specifications subject to change without notice.

GUARANTEE TO CUSTOMER

Sanyo U.K. Sales Ltd. (the Company) guarantees to the initial retail purchaser that if this equipment is or becomes defective and that, in the opinion of the Company, the defect is due to faulty material or workmanship the Company will, for a period of 12 calendar months from the date of sale to the original purchaser repair or replace, at its sole option, free of charge, any such defective component part of the equipment, always provided that: -

1. The equipment has at all times been used in accordance with the operating instructions issued by the Company, and has not been connected to an electrical mains supply for which it has not been adjusted.
2. Accidental damage, or damage caused by negligence or misuse by the user, including leakage from exhausted batteries, is specifically excluded.
3. Unauthorized repairs, or any modification to the equipment which has not been expressly approved by the Company, shall render this guarantee null and void.
4. Failure due to fair wear and tear of any item, such as batteries, record playing styli, and tape recording, playback and erase heads is specifically excluded.

This guarantee is not transferable and is only applicable within the United Kingdom (and the Republic of Ireland). Nothing in this express guarantee affects the statutory rights available to the purchaser of this equipment.

Note: This guarantee supersedes any other form of guarantee that may inadvertently have been enclosed with or attached to the product. (August 1978).

Dear customer

Thank you for buying Sanyo. This equipment should give you many years of pleasure and faithful service but in the event that a fault occurs, the following notes for your guidance may be helpful:-

1. PLEASE RETAIN YOUR PURCHASE RECEIPT WHICH WILL BE REQUIRED FOR SERVICE DURING GUARANTEE.
2. If your Sanyo equipment proves faulty during the period of guarantee, take it or send it back to the dealer who originally supplied it together with this guarantee and the proof of purchase. We have made arrangements with our approved dealers under which they will carry out in-guarantee service repairs on our behalf. In this way, we hope to reduce to a minimum the amount of time you will be without your equipment.
3. If for some reason it is impossible to return the equipment to the original supplies, please contact our Consumer Relations Department at the address below for further advice.
4. Should the equipment require servicing after the expiry of the guarantee period, take or send it to the original supplier or any other Sanyo dealer. He will be pleased to give you a quotation for the repair. If you are in any doubt about what to do, write to us at the address below or telephone:

**Consumer Relations Department,
Sanyo U.K. Sales Ltd.,
Sanyo House
Otterspool Way, Watford,
Hertfordshire WD2 8JX
Tel: Watford 246363**

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