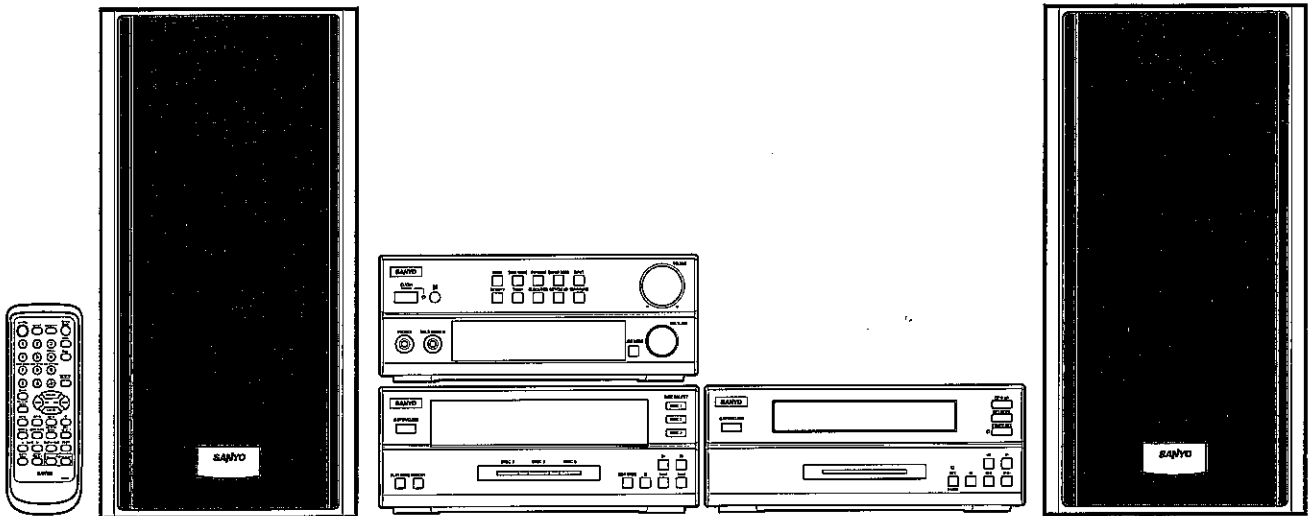


SANYO

INSTRUCTION MANUAL

DC-088CT

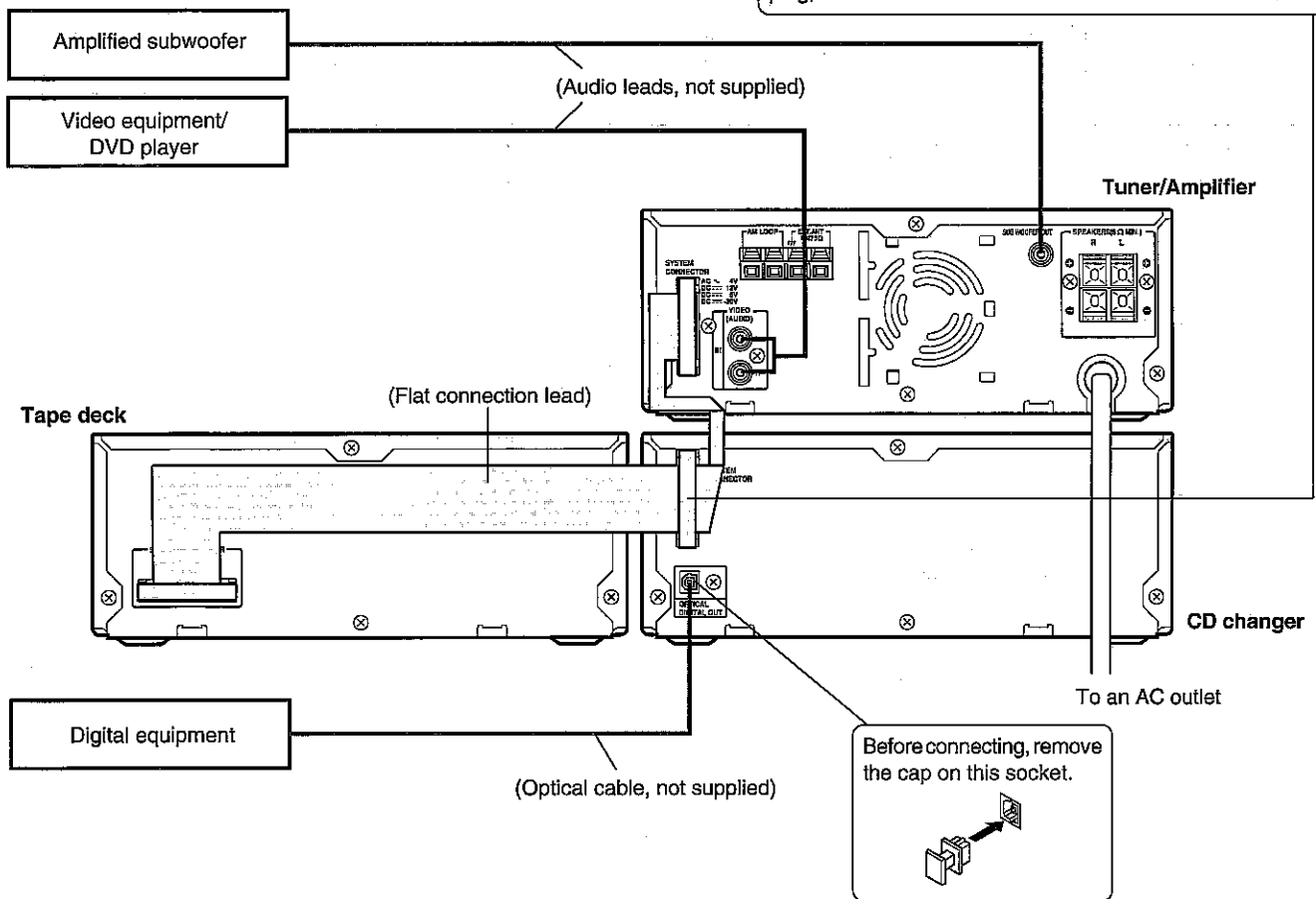
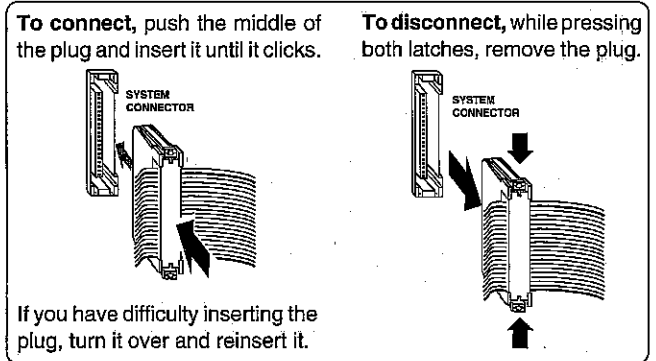
Separate Mini Component System



CONNECTIONS

Note:

- Do not connect the mains lead to an AC outlet until all connections have been made.
- The system is not completely disconnected from the mains when the ON/OFF button is set to the ON position.



Video equipment/DVD player

Connect audio leads (not supplied) from the audio output sockets of a video equipment/DVD player to the VIDEO (AUDIO) 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.

Subwoofer

Connect an amplified subwoofer (not supplied) to the SUB WOOFER OUT socket.

Multimedia equipment

Connect an audio lead (not supplied) from the line output socket of the multimedia equipment (example: Personal computer, Electronic game, etc.) to the MULTI MEDIA IN socket.

Digital equipment

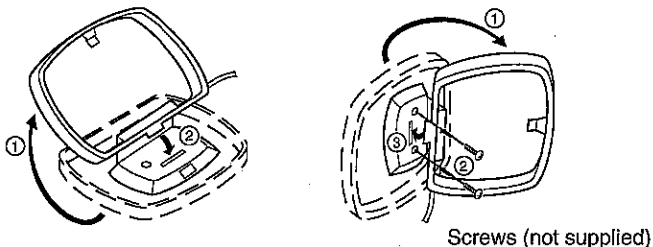
The OPTICAL DIGITAL OUT socket reproduces CD's digital sound to your digital equipment. The socket can be connected to the digital equipment which has an optical input socket.

FM aerial

The FM indoor aerial is sufficient to receive most local FM broadcasts and should be connected to the EXT. ANT FM 75 Ω 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 outdoor 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 terminals. Place the loop aerial in a position which yields the best AM 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 FM indoor or outdoor aerial lead and AM loop aerial. Do not place the aerial leads close to the system.

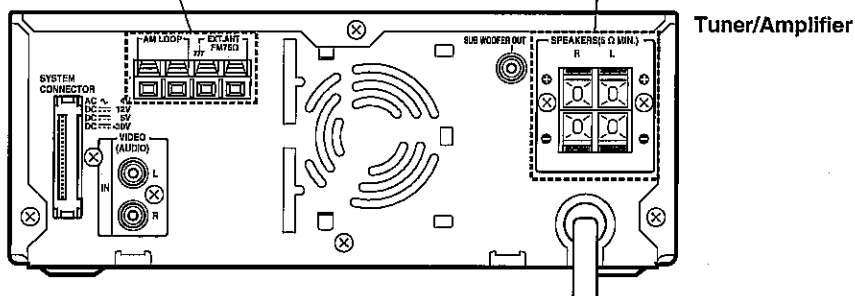
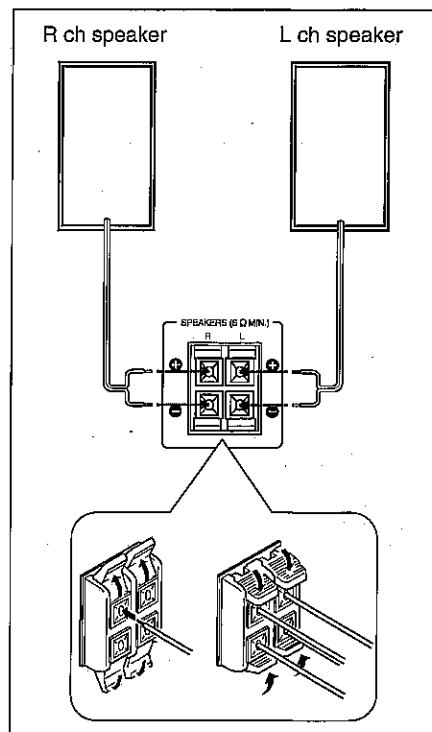
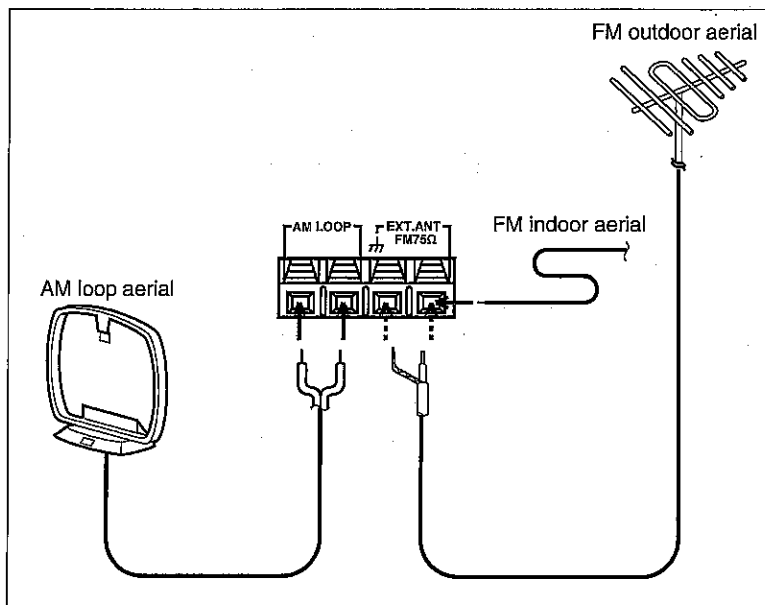
Speakers

When connecting the speakers, make sure that (+) and (-) polarities are matched properly. Otherwise, the sound may appear to be lacking in the bass range and in stability.

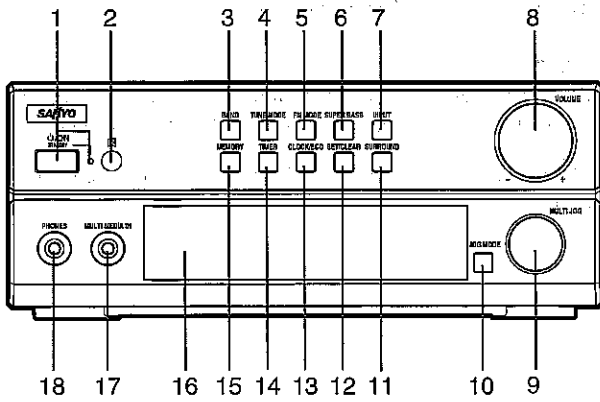
Connect the red speaker wire to the red terminal (+) and the other wire to the black terminal (-).

Note:

If desired, the speaker grilles can be removed.

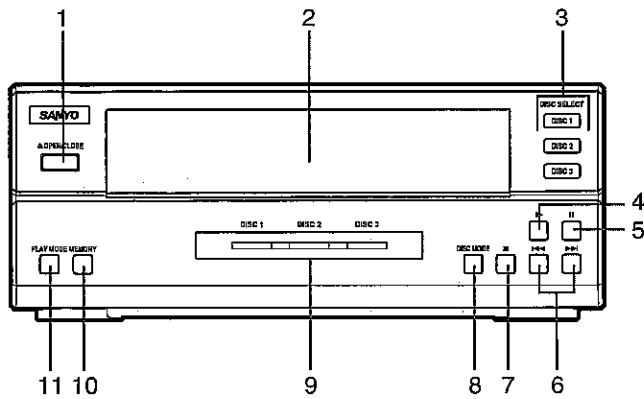


CONTROLS



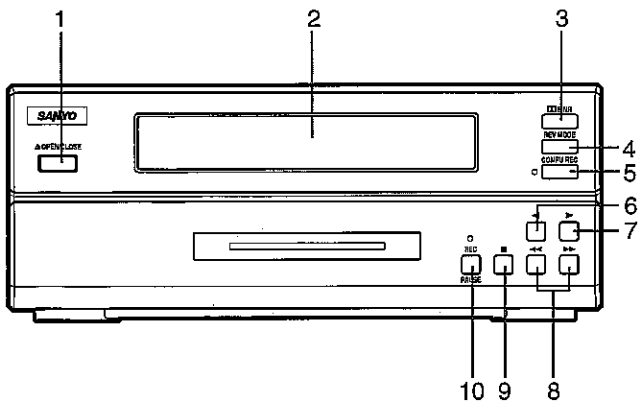
Tuner/Amplifier

1. Power button/Standby indicator (ON, STANDBY)
2. Remote sensor (IR)
3. Band select button (BAND)
4. Tuning mode button (TUNE MODE)
5. FM mode button (FM MODE)
6. Super bass button (SUPER BASS)
7. Input source select button (INPUT)
8. Volume control (VOLUME)
9. Multi jog control (MULTI JOG)
10. Jog mode button (JOG MODE)
11. Surround button (SURROUND)
12. Set/Clear button (SET/CLEAR)
13. Clock/ECO mode button (CLOCK/ECO)
14. Timer button (TIMER)
15. Memory button (MEMORY)
16. Display
(This display can also be used as a CD changer or Tape deck display.)
17. Multi media input socket (MULTI MEDIA IN)
18. Headphones socket (PHONES)



CD changer

1. Open/Close button (▲ OPEN/CLOSE)
2. Discs compartment
3. Disc select buttons (DISC SELECT)
4. Play button (▶)
5. Pause button (⏸)
6. Skip/Search buttons (⏮, ⏭)
7. Stop button (■)
8. Disc mode button (DISC MODE)
9. Disc number display
10. Memory button (MEMORY)
11. Play mode button (PLAY MODE)

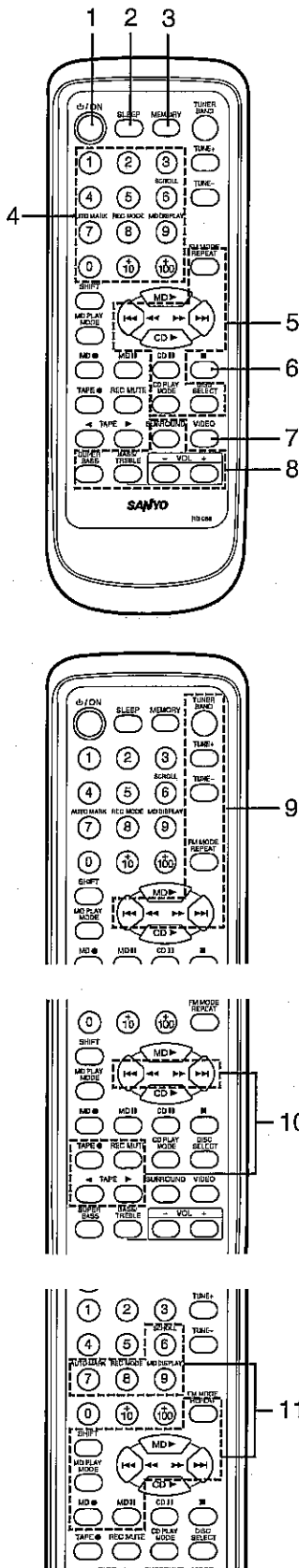


Tape deck

1. Open/Close button (▲ OPEN/CLOSE)
2. Cassette compartment
3. Dolby B NR button (B NR)
4. Reverse mode button (REV MODE)
5. Computer recording button/indicator (COMPU REC)
6. Reverse play button/indicator (◀)
7. Forward play button/indicator (▶)
8. Fast forward/Rewind buttons (⏮, ⏭)
9. Stop button (■)
10. Record/Record pause button/indicator (REC PAUSE)

REMOTE CONTROL

Controls



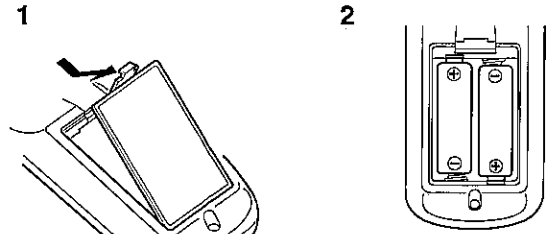
1. Power button (ON/OFF)
2. Sleep timer button (SLEEP)
3. Memory button (MEMORY)
4. Number buttons
5. CD controls
 REPEAT: Repeat button
 ◀▶: Skip/Search buttons
 CD ▶: Play button
 CD ⏸: Pause button
 CD PLAY MODE: Play mode button
 DISC SELECT: Disc select button
6. Stop button (■)
7. Video function button (VIDEO)
8. General controls
 SURROUND: Surround button
 SUPER BASS: Super bass button
 BASS/TREBLE: Bass/Treble button
 VOL: Volume buttons
9. Tuner controls
 TUNER BAND: Tuner function/Band select button
 TUNE+: Tuning+ button
 TUNE-: Tuning- button
 FM MODE: FM mode button
 ◀▶: Preset tuning buttons
10. Tape deck controls
 ◀▶: Fast forward/Rewind buttons
 TAPE ●: Record/Record pause button
 REC MUTE: Record muting button
 TAPE ◀: Reverse play button
 TAPE ▶: Forward play button
11. MD controls (**Do not use with this system**)
 6 SCROLL: Scroll button
 7 AUTO MARK: Auto marker button
 8 REC MODE: Record mode button
 9 MD DISPLAY: Display mode button
 REPEAT: Repeat button
 SHIFT: Shift button
 MD ▶: Play button
 ◀▶: Skip/Search buttons
 MD PLAY MODE: Play mode button
 MD ●: Record button
 MD ⏸: Pause button

Number buttons (1-9, 0, +10, +100)

Example:

- To select No. 3, press 3.
- To select No. 10, press +10, 1, then 0.
- To select No. 25, press +10, 2, then 5.
- To select No. 234, press +100, 2, 3, then 4.

Inserting batteries

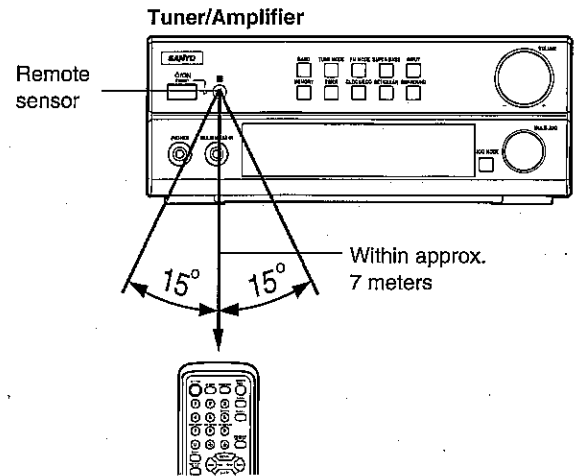


Two R6/AA batteries (not supplied)

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 buttons on the front panel. See "REMOTE CONTROL OPERATION" for more details.

ADJUSTING THE CLOCK (Using the main unit)

Tuner/Amplifier

When connecting the mains lead for the first time, the clock display blinks. For easy operation, adjust the clock at that condition.

Example: To set "PM 6:30",

1. Press the MEMORY button. The hours display blinks.



2. Turn the MULTI JOG control to set the hours.



3. Press the MEMORY button. The minutes display blinks.



4. Turn the MULTI JOG control to set the minutes.



5. Press the MEMORY button. The clock starts, then the clock display disappears.

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

GENERAL OPERATION

Tuner/Amplifier

Turning the power on and off

Press the ON/OFF button. All the units turn on. The STANDBY indicator goes out, the displays light and "HELLO" appears briefly. (After connecting the mains lead, when you press the ON/OFF button for the first time, the volume reset feature automatically sets the initial volume level.)

To turn the power off, press the ON/OFF button again. "GOOD-BYE" appears briefly and the STANDBY indicator lights. All the units turn off.

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

Ecology (low power consumption) standby mode

The unit is set to the ecology standby mode when it is shipped from the factory. When turning the power off, no display appears on the display. To cancel this mode, press the CLOCK/ECO button (in the power is off). The clock appears. Press it again to return to the ecology standby mode.

Direct start function (Remote control only)

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

CD ►, TUNER BAND, VIDEO, TAPE ►, TAPE ◀

Selecting the function

Press the INPUT button to select the desired function (input source). Each time the button is pressed, the display changes as follows:

CD → TAPE → TUNER → VIDEO: DVD → MD → M MEDIA →
(Do not select "MD" with this system.)

If the following buttons are pressed (except during recording), the function is automatically selected.

►, DISC SELECT (CD changer), BAND (Tuner/Amplifier), ◀, ► (Tape deck)

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

Adjusting the volume

Turn the VOLUME control, (or press the + or - VOL button on the remote control). The volume level appears on the display (VOL 0 ~ VOL MAX).

Pure active surround system (PASS)

This newly developed surround system gives natural spread-out atmosphere. Press the SURROUND button to select the desired surround effect.

SURR OFF → SURR HI → SURR LOW → SURR OFF → ...

Adjusting the tone

1. Press the JOG MODE button to select "BASS" or "TREBLE". Each time the button is pressed, the display changes as follows.

BASS → TREBLE → Original display returns.

2. While "BASS" or "TREBLE" appears, turn the MULTI JOG control to adjust the bass or treble sound. The bass or treble level appears on the display (BASS -5 ~ 0 ~ +5 or TREBLE -5 ~ 0 ~ +5).

If using the remote control, press the BASS/TREBLE button to select "BASS" or "TREBLE". Then press the + or - VOL button.

Bass boost

Press the SUPER BASS button to select the bass boost on or off.

BASS ON: Bass boost on (initial setting) ("BASS" appears.)

BASS OFF: Bass boost off

Adjusting the display brightness

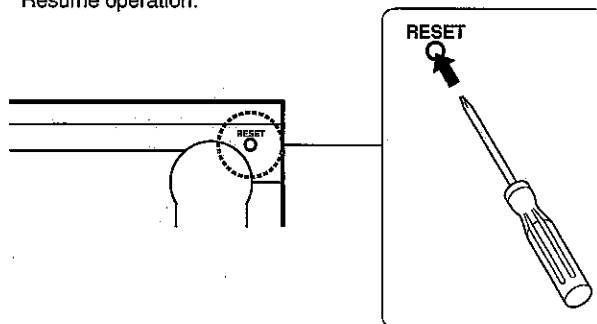
While pressing the MEMORY button, press the CLOCK/ECO button.

DIMMER 1 → DIMMER 2 → DIMMER 0 (initial setting)

WHAT TO DO IF...

If the operation of the system or display is not normal,

1. Disconnect the mains lead.
2. Press the RESET button (bottom of the Tuner/Amplifier) for at least 30 seconds.
3. Connect the mains lead.
4. Resume operation.



CD PREPARATIONS

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



Notes on handling CDs

- Do not expose the CD to direct sunlight, high humidity or high temperatures for extended periods of time.

- CDs should be returned to their cases after use.
- Do not apply paper or write anything on the disc surface.
- Handle the CD 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 CD.

CD PLAY

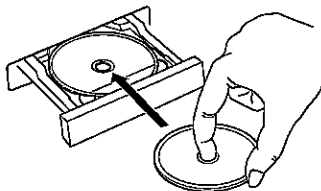
CD changer

Note:

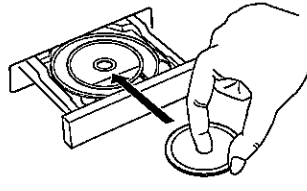
- Do not touch the disc tray while it is moving.
- Never place anything except a CD on the disc tray. Foreign objects can damage the unit.
- Do not apply excessive force to the disc tray.
- Discs must be placed on the disc tray one at a time.

If a CD is loaded, you can turn the system on and begin play immediately by pressing the CD ► button (Remote control only).

1. Press the INPUT button (Tuner/Amplifier) to select "CD" function.
2. Press one of the DISC SELECT buttons (DISC 1, DISC 2 or DISC 3), then press the ▲ OPEN/CLOSE button. The selected disc tray slides out and "OPEN" appears.
 - If the changer mechanism has detected "NO DISC" for the DISC SELECT button pressed, the tray slides out automatically.
3. Place the CD with the label facing up on the disc tray.



For 12 cm CD

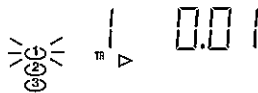


For 8 cm CD

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.
 - If the CD is loaded with the label facing downward, or if a badly scratched CD is loaded, "NO DISC" appears. If this occurs, load the CD correctly or replace the damaged CD.
5. Repeat steps 2 - 4 to load another CD.
 6. Press one of the DISC SELECT buttons (DISC 1, DISC 2 or DISC 3). The selected disc number indicator blinks. Play starts from the first track of the selected CD.



The track number and elapsed playing time for the current track are displayed.

- If the desired CD has been selected, the ► button can also be used to start play.
7. Press the ■ button to end CD play.
When the last track of the last CD has been played, the CD changer stops automatically.
 - When the ▲ OPEN/CLOSE button is pressed during play, play will stop and the disc tray will slide out.

Ejecting or replacing CDs

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 changer is playing one CD, you can eject or replace another CD without stopping play.
2. Remove or replace the CD.
3. Press the ▲ OPEN/CLOSE button.

To start play from the desired track

1. Press the desired DISC SELECT button, then press the ■ button.
2. Select the desired track by using the ►► or ◀◀ button, then press the ► button.

Using the remote control

1. Select the desired CD by pressing the DISC SELECT button, then press the ■ button.
2. Press the number button(s).

Temporarily stopping play

Press the || button. "▷" blinks. To resume play, press the ► or || button.

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.

Search

If the ►►| or ◀◀ button is pressed during play, the unit 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.

Selecting CD play mode

Press the DISC MODE button to select the desired play mode.

1-DISC: Play all tracks on the selected CD.

Released: Play all tracks on all CDs.

Note:

During programmed play, the DISC MODE button will not function.

Repeat play (Remote control only)

Press the REPEAT button before or during play to select the desired repeat mode. Each time the button is pressed, the repeat mode changes as follows.

REPEAT: All tracks repeat mode.

REPEAT TR-1: One track repeat mode.

Released: Normal play mode.

Random play

1. In the stop mode, press the PLAY MODE button to display "RANDOM".
2. Press the ► button. The unit will automatically select and play tracks at random.

To cancel the random play, press the PLAY MODE button in the stop mode to turn the "RANDOM" indication off.

Changing CDs during play

While the changer is playing one CD, press one of the DISC SELECT buttons to skip to another CD. "CH DISC" blinks briefly, then play starts automatically from the first track on the selected CD.

PROGRAMMED PLAY

Up to 30 tracks, from up to 3 CDs 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.

1. Press the PLAY MODE button to display "PROG.".
2. Press the DISC 1 button.



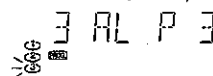
The display shows "1 AL P 0" with a CD icon on the left. The "1" is in the first position, "AL" in the second, "P" in the third, and "0" in the fourth.

3. Press the ►► button to select track 6.



The display shows "1 6 P 0" with a CD icon on the left. The "1" is in the first position, "6" in the second, "P" in the third, and "0" in the fourth.

4. Press the MEMORY button.
5. Press the ◀◀ button to select track 2, then press the MEMORY.
 - To programme the tracks directly, press number button(s) on the remote control. In this example, press 6, then 2 after the step 2 above.
6. Press the DISC 3 button, then press the MEMORY.



The display shows "3 AL P 3" with a CD icon on the left. The "3" is in the first position, "AL" in the second, "P" in the third, and "3" in the fourth.

7. Press the ► button to start programmed play.



The display shows "6 001" with a CD icon on the left. The "6" is in the first position, "00" in the second, and "1" in the third.

When all programmed tracks have been played, the CD changer stops automatically.

- The programme contents are retained in memory.
- The maximum number of tracks that can be programmed is 30. If you try to enter more tracks, "FULL" appears on the display.
- If a non-existent disc or track number is programmed, that disc or track will be skipped during play.
- To cancel the programmed play, press the PLAY MODE button in the stop mode to turn the "PROG." indication off.

To add a new track to a programme

In the stop mode of programmed play ("PROG." is lit.), select and add a new track as explained above.

To turn the system on and listen to the last received station, press the TUNER BAND button (Remote control only).

Automatic/Manual tuning

1. Press the BAND button to select FM or AM.
2. **Automatic tuning**
Press the TUNE MODE button to select "AUTO", then turn the MULTI JOG control to tune in a station.
 - Or press the "+" or "-" TUNE button on the remote control for at least 1 second.

The unit will scan up or down the band and receive the next receivable station. Perform the same operation to continue.

Manual tuning

Press the TUNE MODE button to select "MANUAL", then turn the MULTI JOG control until the desired frequency is displayed.

- Or press the "+" or "-" TUNE button on the remote control briefly.

FM 103.25 MHz

To preset stations

Up to 24 FM and 12 AM stations can be preset.

Automatic presetting (APT) (Main unit only)

1. Press the BAND button to select FM or AM.
2. Press 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 FM or 12 AM stations have been preset or the high end of the band is reached, automatic presetting stops. "PROG." disappears and the station memorized on channel 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." blinks.
3. While "PROG." is blinking, turn the MULTI JOG control to select the channel to be preset.

9 103.25 MHz



4. While "PROG." is blinking, press the MEMORY button.
 - In this example, "103.25 MHz" FM station is preset on FM channel 9.
 - To preset the station directly, press the number button(s) on the remote control. In this example, press 9 after the step 2 above.
5. Repeat the steps above to add more preset stations.
 - When presetting a new station, the previous preset station is cleared.

Listening to preset stations

1. Press the BAND button to select the desired band.
2. Press the TUNE MODE button to select "PRESET", then turn the MULTI JOG control to select the desired channel.
 - Or press the ►► or ◀◀ button on the remote control briefly.
 - The number buttons on the remote control can also be used.

Preset scan tuning (Remote control only)

1. Select the desired band.
2. Press the ►► button for at least 1 second. The channel number blinks. Each of the preset stations is tuned in for 5 seconds.
3. When the desired station has been tuned in, press the ►► button again to keep the reception locked at that station.

To receive FM stereo broadcasts

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 the MONO mode. The reception may be improved, but the sound will be monaural.

When beat interference is heard

A high-pitched noise called "beat" is sometimes heard during reception of radio broadcasts. If this occurs,

1. Press the MEMORY button.
2. While "PROG." is blinking, press the TUNE MODE button to select "Bc-A" or "Bc-B". Select the setting that gives the best results.

Changing the AM reception frequencies

It is not necessary to perform this procedure in the Australia and New Zealand.

1. Press the BAND button to select "AM".
2. While pressing the MEMORY button, press the SET/CLEAR button.

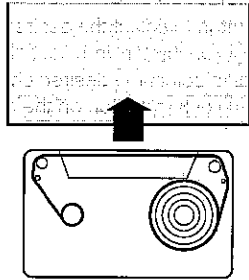
522 - 1710 kHz (9 kHz steps) ← → 520 - 1710 kHz (10 kHz steps)

LISTENING TO TAPES

Tape deck

If a cassette is loaded, you can turn the system on and begin play immediately by pressing the TAPE ► or TAPE ◀ button (Remote control only).

1. Press the INPUT button (Tuner/Amplifier) to select "TAPE".
2. Press the the ▲ OPEN/CLOSE button. The cassette tray slides out and "TP OPEN" appears.
3. Load the cassette.



After loading the cassette, press the ▲ OPEN/CLOSE button again to close the cassette tray.

4. Set the B NR button according to whether the tape has been recorded with the Dolby B NR system or not.
With Dolby B NR " B" appears
Without Dolby B NR " B" disappears
5. Select the reverse mode with the REV MODE button as desired.
6. Press the ► or ◀ button to begin playback. The selected indicator lights.
► : Forward play
◀ : Reverse play



7. Press the ■ button to stop playback at any time.
When the end of the tape has been reached, automatic stop or reverse will be activated.

Types of usable tapes

The type of tape used is automatically identified by the system since deck employs an auto tape selection system. The following types of tape can be used with this system.

- Normal
- CrO₂
- Metal (Only for playback)

Note:

- CrO₂/Metal tapes without sensing holes cannot be used since they cannot be identified by the auto tape selector.
- Endless tapes cannot be used.
- Do not use C-100 (or longer) tapes. They may jam in the mechanism.

Auto reverse

Press the REV MODE button to select the reverse mode as desired.

⏮ : For listening to one side of the tape only.

⏪ : For listening to both sides of the tape in succession.

- If playback has been started from the reverse side, only the reverse side will be played back.

⏩ : For listening repeatedly to both sides of the tape.

Tape counter

The counter appears on the display and helps you to quickly locate the recorded selection for playback.

To reset the tape counter to "000", press the ■ button in the stop mode.

Fast forward and rewind

Press the ►► or ◀◀ button. The ► or ◀ indicator blinks. When the desired location has been reached, press the ■ button.

Dolby NR system

Dolby Noise Reduction circuitry provides superior recording and playback results by suppressing tape hiss by up to 10 dB.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

LISTENING TO OTHER SOURCES

Tuner/Amplifier

1. Press the INPUT button to select "VIDEO: DVD" or "M MEDIA".
2. Follow the instructions supplied with the video equipment, DVD player or multimedia equipment.

BEFORE TAPE RECORDING

Tape deck

1. Press the the **▲ OPEN/CLOSE** button to open the cassette tray and load the cassette for recording.
2. Set the **□□ B NR** button to on or off as desired.
Dolby B NR On "□□ B" appears
Dolby B NR Off "□□ B" disappears
3. Press the **REV MODE** button to select the reverse mode.
☰ : For recording one side only.
☷ : For recording both sides in succession.
 - If recording has been started from the reverse side, only the reverse side will be recorded.
 - If a tape with one of its tabs already broken out is used for recording, the tape will not be reversed automatically, and it will stop.
 - If the reverse mode has been set to "☷", "☷" appears automatically when the recording mode is established.

Automatic record muting (Remote control only)

Undesirable parts of a programme can be omitted while recording. Press the **REC MUTE** button once while recording. The ● indicator blinks and a 5-second unrecorded blank space is created, then the deck enters the recording pause mode. The ● indicator lights and the ► or ◀ indicator blinks.

- To add another 5-second blank space, press the **REC MUTE** button again.

- To resume recording, press the **TAPE ►** or **◀** button (to match the blinking ► or ◀ indicator).

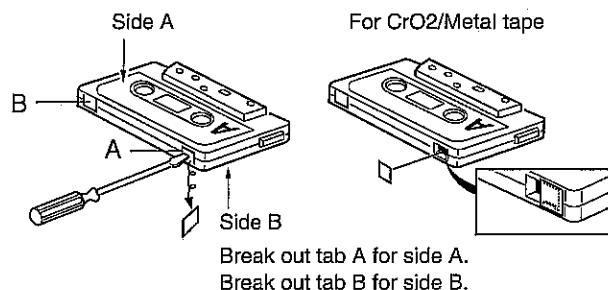
Note:

The record muting function does not operate during CD computer recording.

Safeguards against accidental erasure

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.



TAPE RECORDING

Tape deck

CD TO TAPE COMPUTER RECORDING

With computer recording, you can record a CD onto a cassette by pressing just one button.

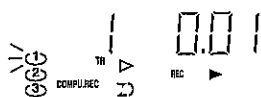
Preparations

1. Load the CD(s) to be recorded.
2. Load the blank cassette for recording.
3. Press the **REV MODE** button to select "☷" mode.
4. Select "CD" function.
 - For programmed recording from up to 3 CDs, programme the material in advance (as described under "PROGRAMMED PLAY" of CD).
5. Press the **DISC SELECT** button (DISC 1, DISC 2 or DISC 3) to select the disc to be recorded first, then press the **■** button (CD changer).
 - For programmed recording, this step is unnecessary.
6. Make sure that the CD changer and tape deck are both in the stop mode.

Press the **COMPU REC** button. Once the button is pressed, all operations take place automatically. The **COMPU REC** indicator lights and "CD → TAPE" appears on the display.

The tape rewinds to the beginning, then recording starts in the forward direction from track 1 (or the first programmed track).

The ►, **REC PAUSE**, **COMPU REC** (Tape deck) indicators light and the selected disc number indicator (CD changer) blinks as recording begins. The following display appears.



When the end of the tape (side B) is reached, the CD changer and deck stop automatically.

- If the last track on the CD plays completely before the end of the tape, CD play stops automatically. Deck also stops.

Note:

- Recording starts automatically after 8 seconds, so the recording will not be interrupted by the leader tape at the beginning of tape.
- A 5-second blank space is automatically recorded at the end of each track.
- The recording cannot be paused.

To stop recording at any time, press the **■** button (CD changer or Tape deck).

MANUAL RECORDING

1. Load the cassette.
2. **CD to Tape recording**
Select "CD" function and play a CD.
Tuner to Tape recording
Tune in the radio.
Video/DVD or Multimedia to Tape recording
Select "VIDEO: DVD" or "M MEDIA" function. Play a video cassette, DVD or multimedia source.
3. Press the **REC PAUSE** button. The **REC PAUSE** indicator lights and both ◀► indicators blink. The tape deck is set to the recording pause mode.
4. Press the ► or ◀ button. Recording starts.
5. Press the **■** button to stop recording. (CD play continues.)

CD to Tape synchronous recording

1. Load the cassette.
2. Load the CD and select "CD" function.
 - For programmed recording, programme the material in advance.
3. Press the **REC PAUSE** button. The tape deck is set to the recording pause mode.
4. Press the ► button (CD changer). Recording starts in the forward direction.
 - If CD play pauses, recording also pauses and CD play resumes, recording also resumes.
5. Press the **■** button (CD changer) to stop recording.
 - When the **■** button (Tape deck) is pressed, CD play continues.

Temporarily stop recording

Press the REC PAUSE button. Press the ► or ◀ button (to match the blinking ► or ◀ indicator) to resume recording.

- During recording pause mode, CD play continues.

When beat interference is heard (Main unit only)

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

While pressing the ◀◀ button, press the ►► button to select "Bc-1" or "Bc-2". Select the setting that gives the best results.

TIMER OPERATION

Tuner/Amplifier

Using the timer (Main unit only)

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 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.
 - For tape deck: Tape playback/recording will start in the forward direction.
- Adjust the volume level as desired.

Operation

1. Press the TIMER button.

⊙ AM 12:00

The previous timer on time setting appears.

2. Press the MEMORY button within 10 seconds.

⊙ AM 12:00

3. Set the timer on time by turning the MULTI JOG control, then press the MEMORY button (as described under "ADJUSTING THE CLOCK").

⊙ AM 7:00 ⇒ ⊙ AM 7:30

The timer off time setting appears.

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

⊙ AM 8:30 ⇒ ⊙ CD PLAY

The timer mode and the current function appear.

When the function is "TUNER", select the timer mode by turning the MULTI JOG control.

- Each time the control is turned one click, the display changes as follows.

- ⊙ TU PLAY
- ⊙ REC TU → TAPE
- ⊙ REC TU → MD (Do not select with this system)

Press the MEMORY button.

(When the function is other than "TUNER", only "PLAY" is selected.)

Example:

- ⊙ CD PLAY: CD timer play
- ⊙ REC TU → TAPE: For unattended recording tuner to tape
- ⊙ REC TU → MD: For unattended recording tuner to MD (Do not select with this system)

The original display returns, then the timer operation standby mode is activated. "⊙" (or "⊙ REC") remains lit.

5. Press the ⏻/ON button to switch off the power.

- "⊙" (or "⊙ REC") 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 → Timer mode/Function → Original display returns

To change the settings, press the TIMER button to select the setting to be changed, then press the MEMORY 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 the SET/CLEAR.

To set the timer again with the same settings

1. Press the TIMER button, then 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 (Remote control only)

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 60

After several seconds, the original display returns and the brightness of the display reduces. "SLEEP" blinks.

To check the remaining sleep time

Press the SLEEP button once. After several seconds, the original display returns.

To release the sleep timer while in operation

Press the SLEEP button repeatedly until "SLEEP OFF" appears. The timer is also released if the power is switched off.

REMOTE CONTROL OPERATION

Note:

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

General

Power on/off	⏻/ON
Adjust volume	- or + VOL
Adjust tone	BASS/TREBLE → - or + VOL
Bass boost	SUPER BASS
Select surround system	SURROUND
Select "Video/DVD" function	VIDEO
Set/Check sleep time	SLEEP

- If the following buttons are pressed when the unit is in standby, the unit turns on automatically and the selected function is set.
CD ▶, TUNER BAND, VIDEO, TAPE ▶, TAPE ◀

CD changer

Select "CD" and/or Start play	CD ▶
Select the desired track and play	DISC SELECT → 1-9, 0, +10 or (◀◀ or ▶▶) → CD ▶
Temporarily stop play	During play CD
Skip play	During play ◀◀ or ▶▶ (press briefly) or (1 - 9, 0, +10)
Search	During play ◀◀ or ▶▶ (press continuously)
Repeat play	During play REPEAT
Random play	CD PLAY MODE (select "RANDOM") → CD ▶
Programmed play	CD PLAY MODE (select "PROG.") → DISC SELECT → (1-9, 0, +10) → CD ▶
Stop play	■

Tuner

Select "TUNER" and/or Select band	TUNER BAND
Station tuning (Manual)	In TUNER mode + or - TUNE (press briefly)
Station tuning (Automatic)	In TUNER mode + or - TUNE (press for at least 1 second)
Preset station	After tuning MEMORY → (1-9, 0, +10)
Select preset station	In TUNER mode (1-9, 0, +10) or (◀◀ or ▶▶), press briefly
Preset scan tuning	In TUNER mode ▶▶ (press for at least 1 second) → ▶▶
Select FM mode	In TUNER mode FM MODE

Tape deck

Select "TAPE" and/or Start playback	TAPE ▶ or ◀
Fast forward/Rewind	In TAPE mode ◀◀ or ▶▶
Start recording	TAPE ● → TAPE ▶ or ◀
Temporarily stop recording	During recording TAPE ●
Record mute	During recording REC MUTE
Stop playback	■

MAINTENANCE

Cleaning the tape head (Tape deck)

To ensure continued high performance, use a cleaning tape (available from your local audio dealer) to clean the head block of the deck after about every 10 hours of use.

Cleaning the unit

Clean the outside of the unit with a clean soft cloth moistened with lukewarm water. Do not use benzene, thinner or alcohol since they will mar the finish of the surfaces.

SPECIFICATIONS

Tuner/Amplifier

Reception frequency:

FM: 87.5 - 108 MHz

AM: 522 - 1710 kHz

Output power:

30 W x 2 (at 6 ohms, 10% distortion)

Inputs

VIDEO (AUDIO): 500 mV/50k ohms

MULTI MEDIA IN: 500 mV/50k ohms

Outputs

SPEAKERS: 6 ohms

PHONES: 8 - 32 ohms

SUB WOOFER OUT: 10k ohms

Power requirements:

AC 230 - 240 V, 50 Hz

Power consumption:

80 W

1.0 W (Eco On standby mode)

15 W (Eco Off standby mode)

Dimensions:

225(W) x 89(H) x 272(D) mm

Weight:

3.6 kg

CD changer

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

Output:

OPTICAL DIGITAL OUT: Optical

Power supply:

Supplied from the Tuner/Amplifier

Dimensions:

225(W) x 89(H) x 272(D) mm

Weight:

2.1 kg

Tape deck

Track system:

4-track, 2-channel stereo

Frequency response:

50 Hz to 16 kHz (CrO₂ tape)

50 Hz to 15 kHz (Normal tape)

Signal-to-noise ratio:

60 dB (Dolby B NR ON)

Wow/flutter:

0.12% (WRMS)

Fast forward/rewind time:

Approx. 110 sec. (C-60)

Power supply:

Supplied from the Tuner/Amplifier

Dimensions:

225(W) x 89(H) x 272(D) mm

Weight:

2.0 kg

Speaker systems

Type:

3 way bass reflex

Built-in magnetic stray field compensation

Unit used:

Woofer: 15 cm cone type

Mid range: 8 cm cone type

Tweeter: 3.5 cm balance driver

Maximum power-handling capacity:

60 W (peak)

Nominal impedance:

6 ohms

Dimensions:

185(W) x 358(H) x 255(D) mm

Weight:

3.7 kg (per speaker)

Specifications subject to change without notice.



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