SANYO
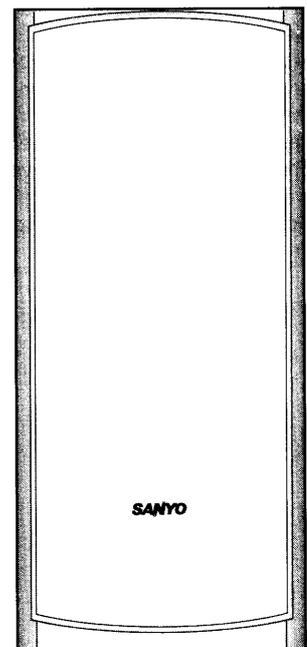
INSTRUCTION MANUAL

DC-DAV821

DVD Personal Theater System

DVD VIDEO

VIDEO CD

COMPACT disc DIGITAL VIDEO

COMPACT disc DIGITAL AUDIO

dts DIGITAL OUT
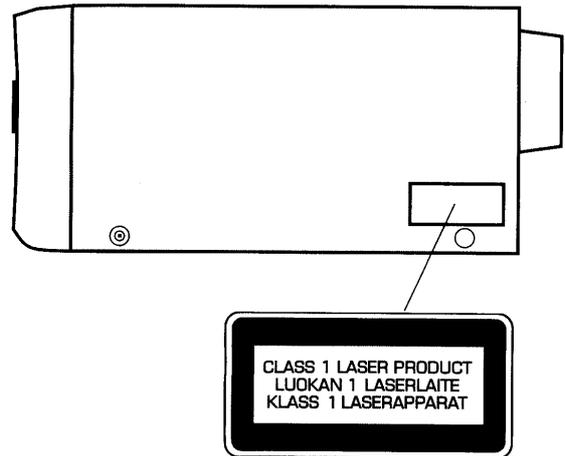
DOLBY DIGITAL
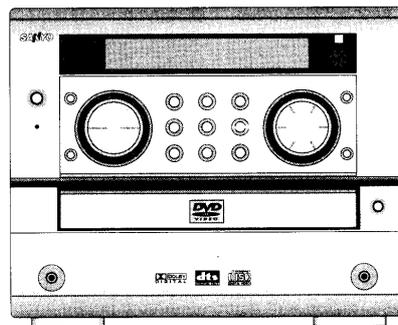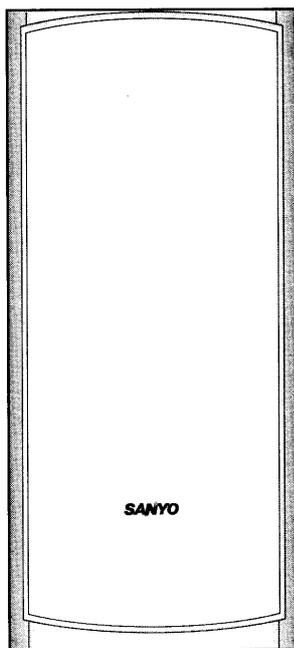
PRECAUTIONS

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

- The apparatus shall not be exposed to dripping or splashing.
- 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 DVD/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 a disc which may be inside and turn the power off. Wait at least 10 seconds, then unplug the mains lead from the AC outlet. Carrying the unit with a disc inside may damage the disc 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.
- Do not install this equipment in a confined space, such as a book case or built in cabinet.

Important Information:
To connect this unit to a TV, TV must have a Video input socket or a Euro-AV socket. You cannot use an antenna terminal to connect this unit.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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 rewireable 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 ⟨ẞ⟩ .

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.
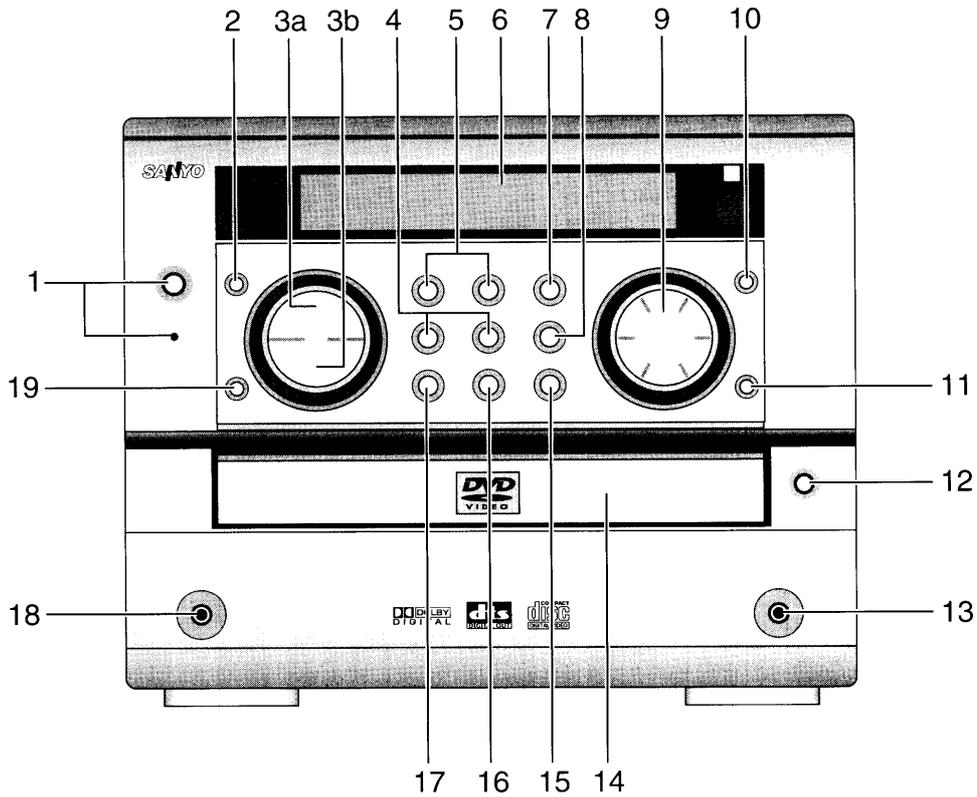
1. Power button/Standby indicator (⏻/ON, STANDBY)
2. Clock/Ecology button (CLOCK/ECO)
3a. Play button (▶ PLAY)
3b. Stop button (■ STOP)
4. Reverse and Forward/Preset tuning buttons
   (PRESET – ◀◀ , ▶▶ + PRESET)
5. Skip/Tuning/Time setting buttons (TUNE – I◀◀ , ▶▶I + TUNE)
6. Display
7. Tuner function/Band select button (TUNER/BAND)
8. Radio data system mode button (RDS MODE)
9. Volume/Programme type select control (VOLUME/PTY SELECT)

10. Surround button (PASS SURROUND)
11. Sound preset button (SOUND)
12. Disc tray open/close button (OPEN/CLOSE)
13. Headphones socket (PHONES)
14. Disc tray
15. Bass expander button (BASS)
16. Programme type check button (PTY CHECK)
17. Function button (FUNCTION)
18. Auxiliary 2 input socket (AUX IN2)
19. Pause/Step button (PAUSE/STEP)

REMOTE CONTROL

Controls
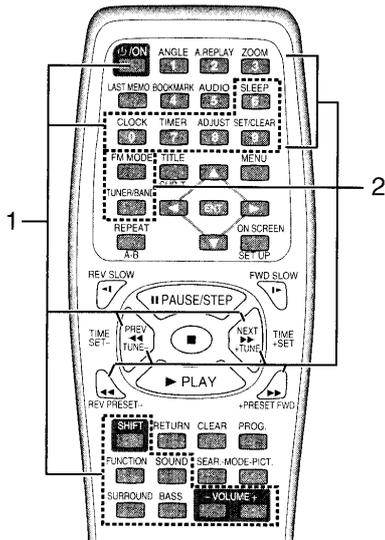
1. General

⏻/ON: Power button
SLEEP: Sleep timer button
CLOCK: Clock button
TIMER: Timer button
ADJUST: Adjust button
SET/CLEAR: Set/Clear button
TIME SET (−, +): Time setting buttons
SHIFT: Shift button
FUNCTION: Function button
SOUND: Sound preset button
SURROUND: Surround button
BASS: Bass expander button
VOLUME (−, +): Volume buttons

2. Tuner

1 - 9, 0: Number buttons
FM MODE: FM mode select button
TUNER/BAND: Tuner function/
Band select button
TUNE (−, +): Tuning buttons
PRESET (−, +): Preset tuning buttons
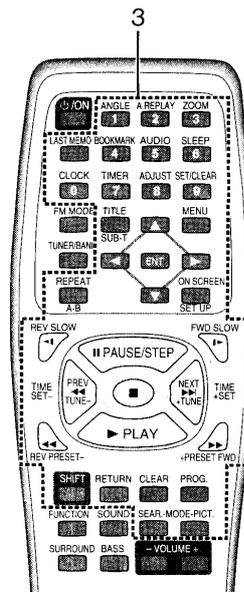
3. DVD/CD player

1 - 9, 0: Number buttons
ANGLE: Angle button
A.REPLAY: Angle replay button
ZOOM: Zoom button
LAST MEMO: Last memory button
BOOKMARK: Bookmark button
AUDIO: Audio button
TITLE/SUB-T: Title/Subtitle button
▲, ►, ▼, ◄: Directional arrow buttons
MENU: Menu button
ENT: Enter button
REPEAT/A-B: Repeat/Repeat A-B
button
ON SCREEN/SET UP: On screen
display/Set up button
REV SLOW ◄I: Reverse slow button
FWD SLOW I►: Forward slow button
II PAUSE/STEP: Pause/Step button
■ : Stop button
PREV I◄◄ : Previous/Skip button
NEXT ►►I : Next/Skip button
► PLAY: Play button
REV ◄◄ : Reverse button
FWD ►► : Forward button
SHIFT: Shift button
RETURN: Return button
CLEAR: Clear button
PROG.: Programme button
SEAR. MODE: Search mode button
PICT. MODE: Picture mode button
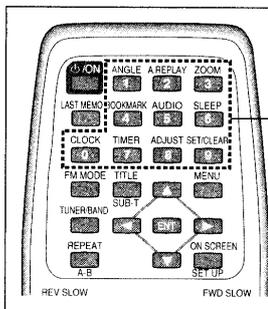
These buttons are used as number buttons and as function
buttons of each name.
- When using as a number button, press the appropriate
  button directly.
- When using as a function button of each name, press the
  appropriate button while pressing the SHIFT button.
  This operation shows as follow in this instruction manual.
    Example: **"Press the SHIFT + CLOCK buttons."**
  Perform similar operation when using as the SUB-T, A-B
  or SET UP button.

Inserting batteries

Install two "R6 (HP 7)" batteries
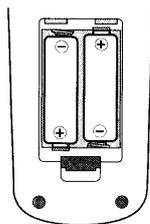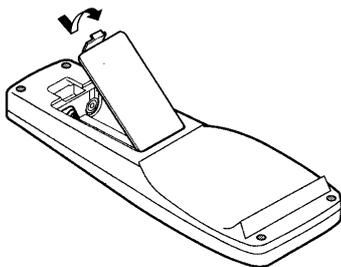
Note:
Remove the batteries if the remote control is not to be used for a month
or more. Batteries left in the unit may leak and cause damage.

Remote control range

Remote sensor

Within approx. 7 meters

30°   30°

The buttons on the remote control perform similar functions to similarly
marked buttons on the main unit.

BASIC CONNECTIONS

Selecting TV system

Before connecting, be sure the TV SYSTEM switch (rear of the unit) setting corresponds with your local TV system (PAL or NTSC).

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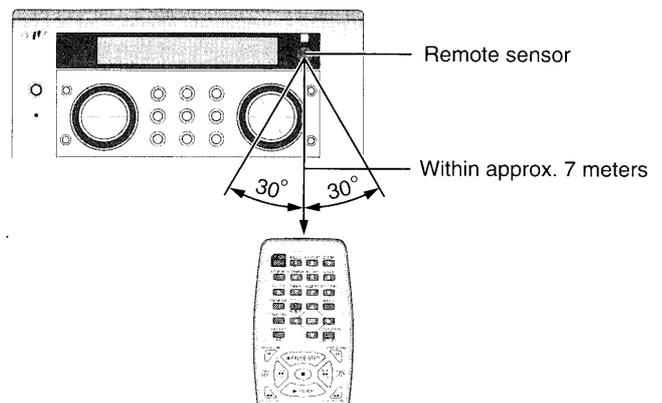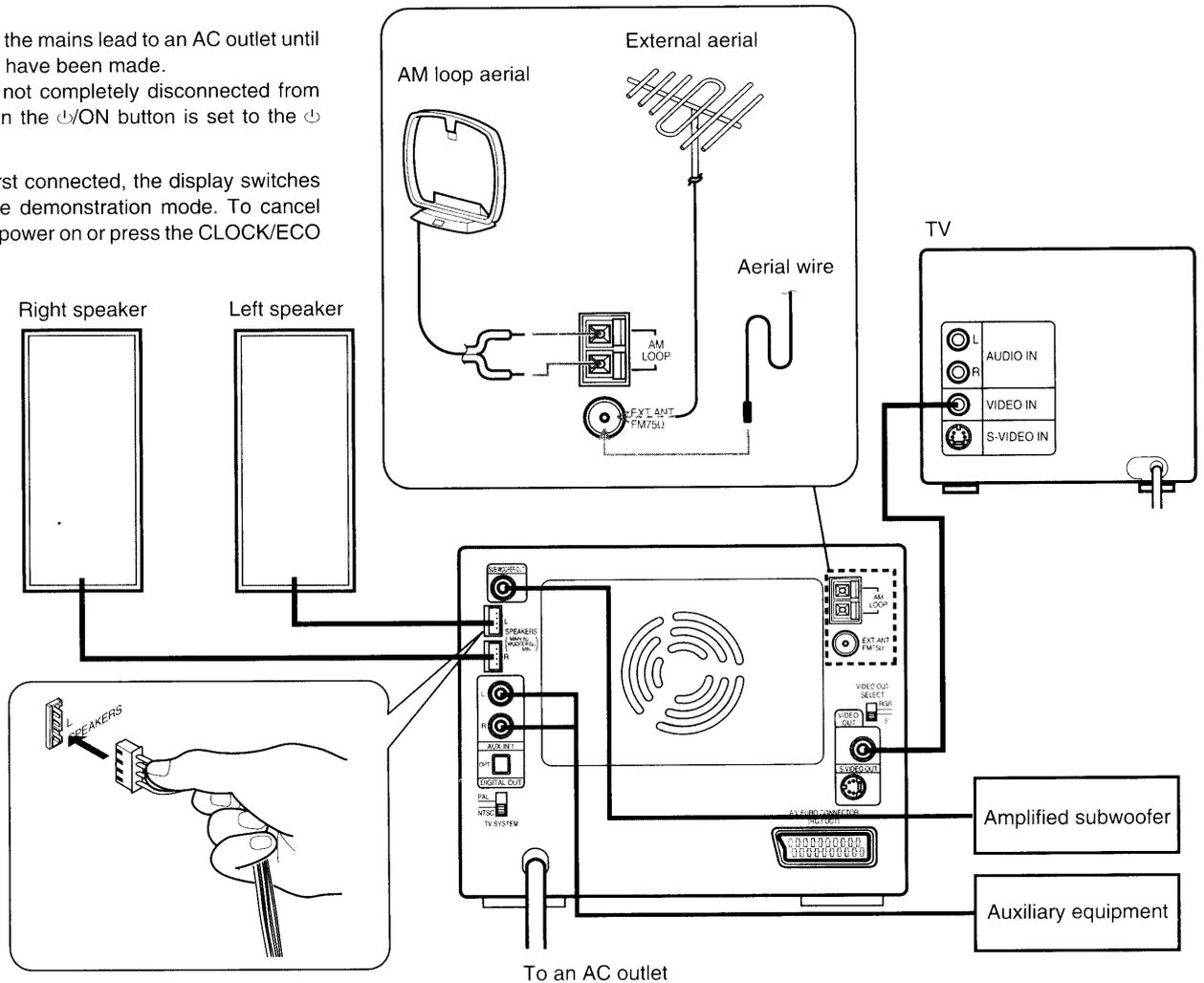- The system is not completely disconnected from the mains when the ⏻/ON button is set to the ⏻ position.

When the unit is first connected, the display switches automatically to the demonstration mode. To cancel this mode, turn the power on or press the CLOCK/ECO button (Main unit).

Right speaker   Left speaker

AM loop aerial

External aerial

Aerial wire

TV

L AUDIO IN
R
VIDEO IN
S-VIDEO IN

AM LOOP

EXT ANT FM75Ω

SUBWOOFER

SPEAKERS

AUX IN 1

DIGITAL OUT

PAL
NTSC
TV SYSTEM

VIDEO OUT SELECT

VIDEO OUT

S-VIDEO OUT

A.V. EURO CONNECTOR

Amplified subwoofer

Auxiliary equipment

To an AC outlet

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.
Note:
If desired, the speaker grilles can be removed.

Aerials

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.

AM loop aerial
Assemble the loop aerial.
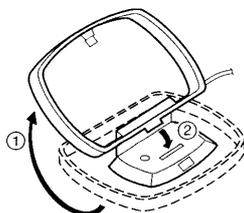
Unwind the aerial wires, then connect them to the AM LOOP terminals. Place the loop aerial in a position which yields the best AM reception, or attach it to a wall or other surface.

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.
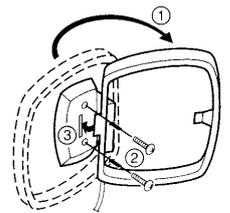
Screws (not supplied)

TV with a video input socket

Connect the VIDEO OUT socket of the unit to the video input socket of the TV with the video lead.

Auxiliary equipment

Connect the AUX IN 1 or AUX IN 2 socket(s) of the unit to the audio output socket(s) of the auxiliary equipment with an audio lead (not supplied).

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.

4

Notes on connections

- Please refer to the instruction manuals for the components that you are connecting (TV, AV amplifier, etc.).
- When you connect the unit to your TV and other equipment, be sure to turn off the power and disconnect all of the equipments from the AC outlet until all the connections have been made.
- **Do not connect the unit to a VCR directly for DVD play. The playback picture will be distorted because DVD discs are copy protected.**

- If an interference noise occurs during reception of radio broadcasts, keep the TV away from the unit or turn off the TV.
- If an interference colour noise occurs on the TV screen, keep the speakers away from the TV.
- Please consult your local audio/video dealer for more details.

ADDITIONAL CONNECTIONS EXAMPLES

Connecting to a TV with an S-video lead

1. If your TV has an S-video input socket, connect the unit as shown in figure. (The VIDEO OUT socket connection is not necessary.) You can enjoy clearer picture playback.
2. Set the VIDEO OUT SELECT switch to S when using the S-VIDEO OUT socket.

S-Video lead (not supplied)
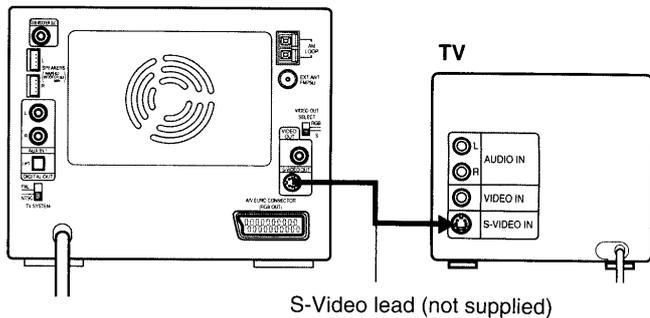
Connecting to a TV with a EURO-AV cable

1. If your TV has a EURO-AV socket, connect the unit as shown in figure. (Do not connect the video lead to the VIDEO OUT socket.) You can enjoy clearer picture playback.
2. Set the VIDEO OUT SELECT switch to RGB when using the A/V EURO CONNECTOR.

EURO-AV cable (not supplied)
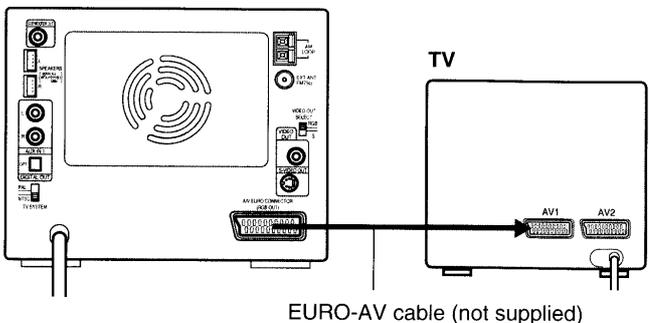
Connecting to a digital multi-channel AV amplifier

The digital multi-channel sound of a DVD can best be decoded and played with a multi-channel AV amplifier (MPEG audio decoder or Dolby Digital decoder). The AV amplifier has to be able to process the DTS audio signal in order to play a DVD with DTS. If it cannot, then you will not be able to hear the DVD.
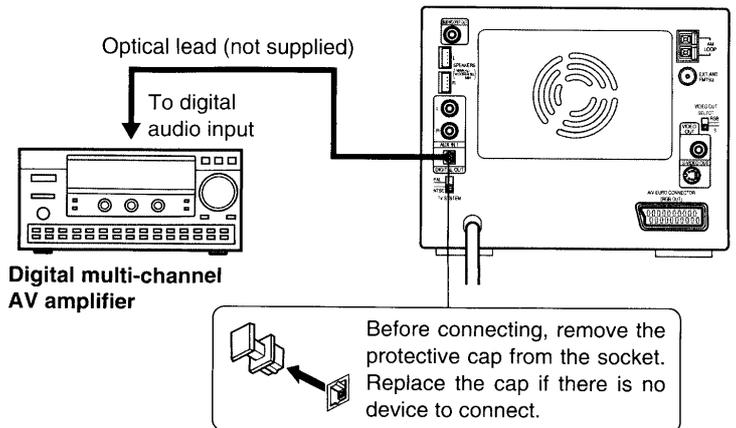
Note:
- To enjoy Dolby Digital sound, select "Dolby Digital: 5.1ch" in "AUDIO" under "INITIAL SETTINGS". (See Page 13.)
- To enjoy MPEG sound, select "MPEG: MPEG" in "AUDIO" under "INITIAL SETTINGS".
- To enjoy DTS sound, select "DTS: ON" in "AUDIO" under "INITIAL SETTINGS".

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"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

BEFORE OPERATION

Turning the power on and off

Press the ⏻/ON button. "HELLO" briefly appears on the display and the STANDBY indicator goes out. (After connecting the mains lead, when you press the ⏻/ON button for the first time, the volume-reset feature automatically sets the initial volume level.)
To turn the power off, press the ⏻/ON button again. "GOOD-BYE" briefly appears and the STANDBY indicator lights.
- 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
(Main unit only)

You can set the unit to the ecology standby mode.
First press the ⏻/ON button to turn the power off, then press the CLOCK/ECO button to select the desired standby mode. Each time the button is pressed, the display changes as follows.

Demonstration mode —→ Clock —→ Off (Ecology standby mode)

Demonstration or Clock mode (Ecology standby mode – off):
When turning the power off, the clock display remains lit. (If the clock was not set, the display enters the demonstration mode.)
Off (Ecology standby mode – on):
When turning the power off, no display appears on the display.

Direct 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.
DVD/CD section   ► PLAY, OPEN/CLOSE
Tuner section   TUNER/BAND
Remote control   ► PLAY, TUNER/BAND

Selecting the function

Press the FUNCTION button to select the desired function. Each time the button is pressed, the display changes as follows:
DVD/CD —→ TUNER —→ AUX IN1 —→ AUX IN2 —→ DVD/CD —→ . . .
The function is automatically selected when disc play is started, or when the TUNER/BAND button has been pressed.
- When the function selection is changed, disc play is automatically stopped.

Adjusting the volume

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

Pure active surround system

This newly developed surround system gives natural spread-out atmosphere. Press the PASS SURROUND (or SURROUND on the remote control) button to select the desired surround effect.
PASS OFF —→ PASS HI —→ PASS MID —→ PASS LOW —→ PASS OFF . . .

Bass expander system

Press the BASS button to select the desired bass expander effect.
BASS OFF —→ BASS LOW —→ BASS MID —→ BASS HI —→ BASS OFF . . .

Selecting the sound mode

Press the SOUND button to select the sound mode matching the source to be listened to.
POP: Pops, etc.
CLASSIC: Classical music, etc.
JAZZ: Jazz, etc.
ACTION: Action, etc.
COMEDY: Comedy, etc.
SFX: Special effects, etc.

Adjusting the displays brightness (Main unit only)

While pressing the ■ STOP button, press the TUNER/BAND button.
DIMMER 1 —→ DIMMER 2 —→ DIMMER 0 (initial setting)
To turn off the blue lights, select "DIMMER 1" or "DIMMER 2".

WHAT TO DO IF...

If the operation of the unit or display is not normal,
1. Disconnect the mains lead.
2. Press the RESET button (bottom of the unit) for at least 30 seconds as shown in figure.
3. Connect the mains lead.
4. Resume operation.
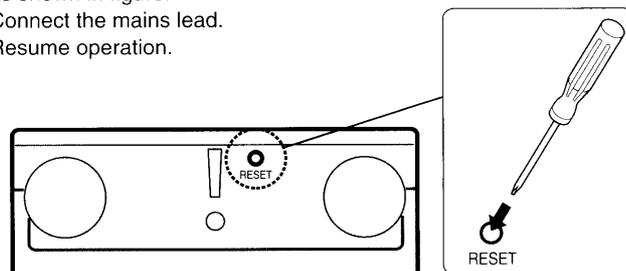
ADJUSTING THE CLOCK

Example: To set "6:30" by using the remote control
1. Press the ⏻/ON button to turn the power on.
2. Press the SHIFT + CLOCK buttons. The clock display appears.
3. Press the SHIFT + ADJUST buttons within 10 seconds.
   The hours display blinks.
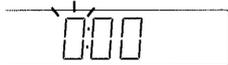
4. Press the + or – TIME SET button to set the "hours".

5. Press the SHIFT + ADJUST buttons.
   The minutes display blinks.
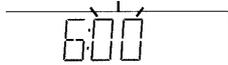
6. Press the + or – TIME SET button to set the "minutes".

7. Press the SHIFT + ADJUST buttons. The clock starts.
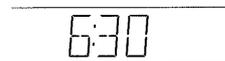
- The time can be set accurately by pressing the SHIFT + ADJUST buttons when a time signal is heard.

To display the clock during operation
Press the CLOCK/ECO button. Press it again to return to the original display.
- When using the remote control, press the SHIFT + CLOCK buttons.

Note:
When the display blinks because of a power failure, reset the time.

Changing the clock to the 12-hour display (Main unit only)
1. Press the ⏻/ON button to turn the power off. (If the clock is not displayed, press the CLOCK/ECO button to display the clock.)
2. While pressing the ■ STOP button, press the SOUND button.
   Example: 13:00 —→ PM 1:00
To return the original setting, repeat steps above.

PLAYABLE DISCS

The following types of discs can be played on this unit.

Disc type and logo mark		Recorded content	Disc size	Maximum playing time
DVD Video	**DVD** VIDEO	Audio + Video	12 cm	Approx. 4 hours (Single sided disc) Approx. 8 hours (Double sided disc)
			8 cm	Approx. 80 minutes (Single sided disc) Approx. 160 minutes (Double sided disc)
Video CD	COMPACT disc DIGITAL VIDEO VIDEO CD (Version 2.0)	Audio + Video	12 cm	74 minutes
			8 cm	20 minutes
Music CD	COMPACT disc DIGITAL AUDIO	Audio	12 cm	74 minutes
			8 cm	20 minutes

Region number

Region number (Regional restriction code) is built-in to the unit and DVD discs.
There is a region number on the rear of the unit.
The same region number or region number "ALL" of DVD discs can be used on this unit.

DVD disc

There are the marks on some DVD disc package.

Examples:

③⟩⟩   Multiple Languages

2   Multi-language subtitles

Multi-Angle

16:9 LB   Multi-Aspect

②   Region number

DVD discs are divided into titles, and the titles are sub-divided into chapters.

	← Title 1 →	← Title 2 →		
Chapter 1	Chapter 2	Chapter 1	Chapter 2	Chapter 3
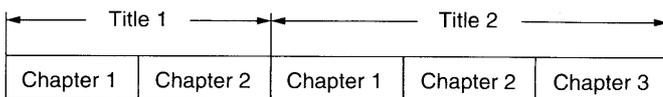
Video CD/Music CD disc

Video CD and Music CD discs are divided into tracks.

Track 1	Track 2	Track 3	Track 4	Track 5

Note:
- Only the above types of discs can be played on this unit. DVD-ROM, CD-ROM, SVCD, CVD, etc. cannot be played.
- CD-R can be played back, but it depends on the recorded condition.
- This unit is to be used exclusively with the PAL or NTSC colour system. SECAM system discs cannot be used with this unit.

Notes on handling 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 discs.

DISC PLAY

Preparations

- Turn on the TV and select the channel for the DVD/CD player. Select the playback picture size according to the aspect ratio of the TV. (See "DISPLAY" under "INITIAL SETTINGS" on Page 12.)
- Turn on the AV amplifier, etc. and select the audio input for the DVD/CD player.
- Select the desired language for the screen menus. (See "OSD" – "LANGUAGE" under "INITIAL SETTINGS" on Page 12.)

Note:
- Do not touch the disc tray while it is moving.
- Never place anything except a disc on the disc tray. Foreign objects can damage the unit.
- Do not apply excessive force to the disc tray.
- One disc must be placed on the disc tray at a time.
- To open or close the disc tray, be sure to use the OPEN/CLOSE button. Do not press the disc tray with your hand.

> **When operation buttons are pressed, that operation is displayed on the TV screen for several seconds.**

> If a disc is loaded, you can turn the unit on and begin play immediately by pressing the ► PLAY button.

1. Press the OPEN/CLOSE button (Main unit). "OPEN" appears on the display and the disc tray opens. "SANYO" logo appears on the TV screen.
2. Place the disc with the label facing up on the disc tray.

12 cm disc   **8 cm disc**
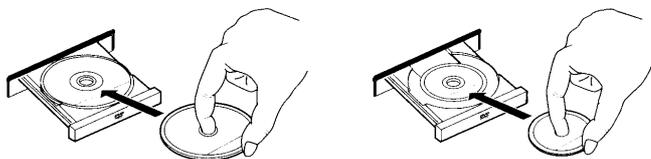
3. Press the OPEN/CLOSE button again to close the disc tray.
   - With some discs, play starts automatically.

Starting play

Press the ► PLAY button. The DVD/CD function is selected and play starts automatically.

Example:

Note:
If "NO DISC" appears on the display, load the disc.
- If the disc is loaded with the label side downward (and it is a single sided disc), or if a badly scratched disc is loaded, "NO DISC" (or "NO PLAY") appears. If this occurs, load the disc correctly or replace the disc.

If a menu appears on the TV screen...
Press the ▲, ►, ▼ or ◄ button (or the number buttons), then press the ENT button to select the desired item. Playback of the selected item will start.
Note:
For more details, please refer to the jacket or case of the disc.

Stopping play

Press the ■ (or ■ STOP on the main unit) button. The player memories the point where you stopped.
When you press the ► PLAY button again, play starts automatically from the point where you stopped. (Resuming Playback)
Note:
Some discs may not start resuming playback.

If the ■ button is pressed twice, the player stops completely. "STOP" appears on the display.

Continuing play from where you stopped watching (LAST MEMO PLAY)
1. During play, press the LAST MEMO button at the point from which you want to resume play later. "L.M. STOP" appears on the display. Play stops automatically.
2. Remove the disc or turn off the power.
3. Load the disc (and press the ► PLAY button), or turn on the power. Play resumes from the point where you stopped. (The memory is released.)
Note:
- Points on up to 5 discs can be memorized.
- The Last Memo Play mode may not work correctly with some discs.

VARIOUS DISC PLAYING FUNCTIONS

"⊘" may appear on the TV screen during operation. This icon means that the function is not available to the disc.

Chapter (Track) skip

Skipping forward
Press the NEXT ►►I (or ►►I on the main unit) button during play to skip to the next chapter (or track). A chapter (or track) is skipped each time the button is pressed.

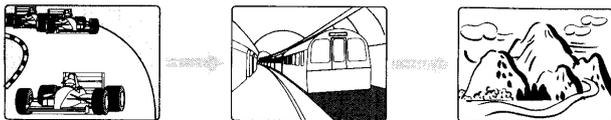### Skipping back
Press the PREV I◄◄ (or I◄◄ on the main unit) button during play to skip back to the beginning of the chapter (or track) currently play. Press the button again immediately to skip back to the beginning of the previous chapter (or track).

Title/Chapter (Track) search
1. Press the SEAR. MODE button once during play or in the stop mode. "TITLE/CHAPTER SEARCH" or "TRACK SEARCH" screen appears.
2. Press the number buttons to enter the title (or track) number.
3. Press the ▼ button.
4. Press the number buttons to enter the chapter number. (For Video CD and Music CD, skip this step.)
   Note:
   - If you made a mistake, press the CLEAR button.
   - To quit this menu, press the SEAR. MODE button twice.
5. Press the ENT button. The selected title and chapter (or track) play starts.

Time search
1. Press the SEAR. MODE button twice during play. "TIME SEARCH" screen appears.
2. Press the number buttons to enter the time.
   Example:
20 minutes 5 seconds	Press 2, 0, 0 and 5.
1 hour 4 minutes 35 seconds	Press 1, 0, 4, 3 and 5.
   Note:
   - If you made a mistake, press the CLEAR button.
   - To quit this menu, press the SEAR. MODE button.
3. Press the ENT button. Play starts from the searched time.

Fast play
Press the FWD ►► or REV ◄◄ (or ►► or ◄◄ on the main unit) button repeatedly to select the fast speed forward or reverse play.
[DVD] [Video CD]
   "FF1 ►►", "FF2 ►►", "FF3 ►►" or "FR1 ◄◄", "FR2 ◄◄", "FR3 ◄◄"
[CD]
   "FF1 ►►", "FF2 ►►" or "FR1 ◄◄", "FR2 ◄◄"
Press the ► PLAY button to return to normal play.

Slow-motion play
[DVD] [Video CD]: Forward slow play, **[DVD]:** Reverse slow play
Press the FWD SLOW I► or REV SLOW ◄I button repeatedly to select the forward or reverse slow speed play.
   "SF1 I►", "SF2 I►", "SF3 I►" or "SR1 ◄I", "SR2 ◄I", "SR3 ◄I"
Press the ► PLAY button to return to normal play.

Note:
The sound is muted during fast play or slow-motion play.

Still picture (Pause)
[DVD] [Video CD]: Still picture mode, **[CD]:** Pause mode
Press the II PAUSE/STEP button during play.
Press the ► PLAY button to return to normal play.
Note: The sound is muted.

Frame by frame advance play [DVD] [Video CD]
Press the II PAUSE/STEP button during still play. Each time the button is pressed, the picture advances by one frame.
Press the ► PLAY button to return to normal play.
Note:
- The sound is muted.
- Frame play is operated forward only.

Zoom feature [DVD]
1. Press the SHIFT + ZOOM buttons during normal play or still play. The player magnifies the image (2 times) in the centre of the picture.
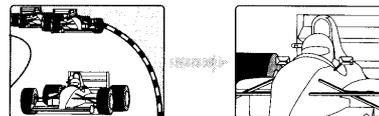
2. Press the ▲, ▼, ◄ or ► button to change the zoom point.
3. To return to normal play or still play, press the SHIFT + ZOOM buttons again.
Note:
Some discs may not work Zoom feature.

Viewing from a desired camera angle (Multi-Angle) [DVD]
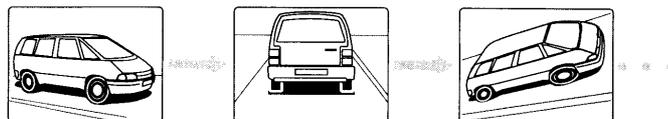
Some DVD discs may contain scenes which have been shot simultaneously from a number of different camera angles. The jacket or case of discs that are recorded with angles will be marked.
Example:

Note: The recorded angles differ depending on the disc used.
1. Play the disc that is recorded with angles.
2. Press the SHIFT + ANGLE buttons repeatedly until the desired angle appears.

   Example:
   Angle
   03

Angle replay [DVD]
During Multi-angle play screen, press the SHIFT + A.REPLAY buttons. The player skips back to last approximately 10 seconds, changes it to the next camera angle and plays it, and continues play. (If desired, press the buttons again.)

Repeat play

Press the REPEAT button during play (or programmed play) of the title or chapter (or track) you want to repeat. Each time the button is pressed, the repeat mode changes as follows.

[DVD]
All Repeat/(ALL REP.): Repeat all titles
Title Repeat/(1 REP.): Repeat of title being played
Chapter Repeat/(1 REP.): Repeat of chapter being played
    Program Repeat/(REP.): Repeat programmed play
Clear: Normal play mode

[Video CD] [CD]
All Repeat/(ALL REP.): Repeat all tracks
Repeat 1/(1 REP.): Repeat of track being played
    Program Repeat/(REP.): Repeat programmed play
Clear: Normal play mode

Designated range repeat play (A-B Repeat)
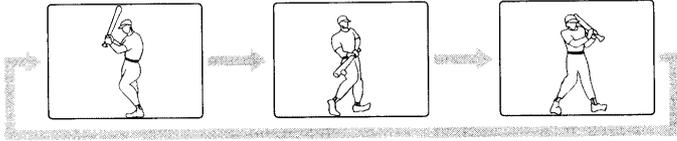
1. Press the SHIFT + A-B buttons during play at the beginning of the section you want to repeat (Point A). "Repeat A-" appears on the screen. "REP. A-" blinks on the display.
2. Press the SHIFT + A-B buttons at the end of the section (Point B). "REP. A-B" remains lit on the display. The section between points A and B is played repeatedly.
   Note:
   For Video CD, wait 2 seconds at least before pressing the buttons.
3. Press the SHIFT + A-B buttons again to return to normal play.

Note:
Normal repeat play or A-B repeat play mode may not work correctly with some discs.

Return button (RETURN) for Video CD

Normally, it returns to the previous menu during play when the RETURN button is pressed.
Note:
The operation differs according to the content of the Video CD.

Programmed play

Up to 32 selections can be programmed.

Programming procedure
1. Press the PROG. button during play or stop mode. "PROGRAM" screen appears. "PROG." blinks on the display.
2. Press the ▲, ▼, ◄ or ► button to select the title, chapter or track.

Example:

PROGRAM

| ALL CLEAR				
No.	:	T , C	TITLE	CHAPTER
1	:	2 , 5	−	All
2	:	− , −	1	1
3	:	− , −	2	2
4	:	− , −	3	3
5	:	− , −	4	4
6	:	− , −		5
7	:	− , −		6
8	:	− , −		
9	:	− , −		
10	:	− , −		

Programme number

3. Press the ENT button. The highlighted box automatically moves to the next programme number.
4. Repeat steps 2 - 3 above to select another title, chapter or track.
   Note:
   If you want to quit this menu, press the PROG. button.
5. Press the ► PLAY button to start play. "PROG." remains lit.

Note:
If you wish to play the programme again, press the PROG. button to call up the programme screen then press the ► PLAY button.

To clear the programme one by one
In the programming mode, press the ▲, ▼, ◄ or ► button to select the programme number. Then press the CLEAR button.

To clear all the programmes
In the programming mode, press the ▲, ▼, ◄ or ► button to select "ALL CLEAR". Then press the ENT button.

Setting and playing bookmarks

Up to five bookmarks can be memorized for the last five discs played, then select them directly for playback.
Note: Some discs may not work bookmark function.

Setting or clearing bookmarks
1. Press the SHIFT + BOOKMARK buttons during play. "BOOKMARK" screen appears.

Example:

BOOKMARK

No :	T , C
1 : NONE	
2 : NONE	
3 : NONE	
4 : NONE	
5 : NONE	

2. Press the ▲ or ▼ button to select the bookmark number.
3. Press the ENT button at the starting point to be viewed (listened to) again.

Example:

BOOKMARK

No :	T , C
1 : ENTRY	1 , 6
2 : NONE	
3 : NONE	
4 : NONE	
5 : NONE	

Note:
- If you made a mistake, press the CLEAR button.
- To quit this menu, press the SHIFT + BOOKMARK buttons.

Recalling a bookmark
1. Press the SHIFT + BOOKMARK buttons.
2. Press the ▲ or ▼ button to select the bookmark number to be recalled.
3. Press the ► PLAY button. Play resumes from the point corresponding to the selected bookmark.

Clearing a bookmark
1. Press the SHIFT + BOOKMARK buttons.
2. Press the ▲ or ▼ button to select the bookmark number to be cleared, then press the CLEAR button.

Selecting a title menu [DVD]

1. Press the TITLE button. The title menu appears.
   Note:
   Press the TITLE button again to resume play from the scene when the TITLE button was first pressed.
2. Press the ▲, ▼, ◄ or ► button (or the number buttons) to select the desired title, then press the ENT button. The selected title play starts.

Selecting a DVD menu [DVD]

1. Press the MENU button. The main menu screen appears.
   Note:
   Press the MENU button again to resume play.
2. Press the ▲, ▼, ◄ or ► button (or the number buttons) to select the desired menu.
3. Press the ENT button. The selected menu play starts.

Note:
- The selecting a title or DVD menu operation may differ depending on the disc used.
- Selecting a title menu or DVD menu may not be possible on some discs.

Selecting subtitle language [DVD]

This operation works only with discs on which multiple subtitle languages are recorded.
1. Press the SHIFT + SUB-T buttons during play. "SUBTITLE MODE" screen appears.

   Example:

	SUBTITLE MODE
ON	ENG
OFF	

2. Press the ▲, ▼, ◄ or ► button to select the desired subtitle language then press the ENT button.

Note:
- In some cases, the subtitle language is not changed to select.
- When a disc supporting the closed caption is played, the subtitle and the closed caption may overlap each other on the TV screen. In this case, turn the subtitle off.
- When the desired language is not selected even if the button is pressed, the language is not available to the disc.
- When the power is turned on, the function is changed, the player is stopped completely or the disc is replaced, select the subtitle language again.
- If the subtitle language is not necessary, select "OFF".

Selecting audio soundtrack language (Multi-Language) [DVD]

This operation works only with discs on which multiple audio soundtrack languages are recorded.

Hello!   Holà!   ¡Hola!

1. Press the SHIFT + AUDIO buttons during play.
2. Press the SHIFT + AUDIO buttons repeatedly until the desired language appears on the screen.

   Example:
   Language Change
   02 GER

Note:
- When the desired language is not selected even if the button is pressed, the language is not available to the disc.
- When the power is turned on, the function is changed, the player is stopped completely or the disc is replaced, select the language again.
- If the language is not recorded on the disc, only the available language on the disc will be heard.

Changing the audio channel output [Video CD] [CD]

During Video CD/CD play, press the SHIFT + AUDIO buttons to select an audio channel.

LEFT MONO —► RIGHT MONO —► STEREO —► LEFT MONO...

Note: You cannot change an audio channel with the optical DIGITAL OUT socket.

Selecting picture mode

Press the PICT. MODE button. Each time the button is pressed, the picture mode is changed as shown:

PICTURE MODE
Standard —► Mild —► Black and White —► Standard ...

Selecting on-screen information

Press the ON SCREEN button repeatedly to show the disc information (Title, Chapter, Title pass time, Language, etc.).

Example for DVD:

DVD		Play ►
TITLE: 01	Title pass time	00:05:45
CHAPTER: 04	Chapter pass time	00:00:51

AUDIO: ENG
Dolby Digital 2ch
SUBTITLE: ENG
ANGLE: 1

DVD		Play ►
TITLE: 01	Title remain time	00:56:07
CHAPTER: 04	Chapter remain time	00:00:37

AUDIO: ENG
Dolby Digital 2ch
SUBTITLE: ENG
ANGLE: 1

INITIAL SETTINGS

Once the initial settings have been completed, the player can always be operated under the same conditions.
The settings will be retained in the memory until they are changed, even if the power is turned off.

Common procedures of initial settings
1. Press the SHIFT + SET UP buttons in the stop mode. "SET UP MENU" appears on the TV screen.
2. Press the ▲, ▼, ◄ or ► button, then press the ENT button to select the menu. Please refer to the on-screen instructions.
3. Press the SHIFT + SET UP buttons to quit this menu.

Example:

LANGUAGE	OSD:	ENG	ENG GER FRE ITA SPA POR DAN SWE FIN	SUBTITLE:	DISC	DISC ENG GER FRE ITA SPA POR DAN SWE FIN Others
	AUDIO:	DISC	DISC ENG GER FRE ITA SPA POR DAN SWE FIN Others	DVD MENU:	DISC	DISC ENG GER FRE ITA SPA POR DAN SWE FIN Others

(DISC: It will use its first priority language setting.)

Note:
-   You cannot switch audio sound track languages if there is only one language recorded on the disc.
-   When you play a DVD disc, the player automatically displays the pre-selected subtitle language if it is included.
-   If "Others" is selected, enter the language code. (See "LANGUAGE CODE LIST".)

For improvement, on screen displays subject to change without notice.
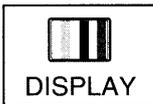
DISPLAY	TV TYPE:	4:3 LT	4:3 LT 4:3 PS 16:9
	SCREEN SAVER:	ON	ON OFF
	LastMemo Play:	ON	ON OFF

Select the appropriate your TV screen size.

4:3 LT (Letterbox):
Select when a conventional TV set is connected. When the wide screen disc is played back, the black bands appear at the top and bottom of screen.

4:3 PS (Panscan):
Select when a conventional TV set is connected. When the wide screen disc is played back, it displays pictures cropped to fill your TV screen. The left and right edges are cut off.

Cut off   Cut off

16:9 :
Select when a wide screen TV set is connected. Played in "FULL" size. (Setting the wide screen TV to "FULL" mode is also necessary.)
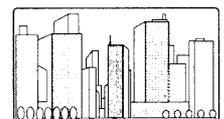
Note:
-   The screen size may differ depending on the DVD discs.
-   If you select 16:9 to get rid of the black bands on screen when wide screen disc is played back, picture may be slightly distorted.
-   In some discs, even if 4.3 PS is selected, the black bands will remain on the screen.

If the Last Memo Play is not necessary, set LastMemo Play to "OFF".

AUDIO	DIGITAL OUT:	ON	ON	(Note: It is "ON" only.)

Dolby Digital:	2ch	5.1ch 2ch	Select PCM "2ch" or Dolby Digital "5.1ch".
MPEG:	PCM	MPEG PCM	Select PCM or MPEG signal.
DTS:	OFF	ON OFF	Select DTS signal "ON" or "OFF". Note: When using a Digital Amplifier without a DTS decoder, set DTS to "OFF".

PARENTAL
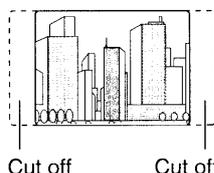
Enter password.
Enter a number in 4 digits, then press ENTER.

(To confirm, enter password again, then press ENTER.)

```
┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
│ Invalid password.              │
│ Enter password again.          │
└ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
```

LEVEL:	8	8
		7
		6
		5
		4
		3
		2
		1
		OFF
STANDARD:	USA	USA

CHANGE PASSWORD

Change password.
Enter a number in 4 digits, then press ENTER.

To confirm, enter password again, then press ENTER.

Parental control

MPAA (Motion Picture Association of America) Guideline is rating system that provide advance cautionary information to parent about the content of movie programmes.

The parental lock level is equivalent to the following MPAA Rating System.
Level 7: NC-17 (No one 17 and under admitted)
Level 6: R (Restricted)
Level 4: PG13 (Parental guidance cautioned)
Level 3: PG (Parental guidance suggested)
Level 1: G (General audiences)

Some DVD discs contain a restriction level which enables parents to prevent playback of discs by children. This DVD/CD player is equipped with a password designed to prevent children changing the level.

You cannot play DVD discs rated higher than the level you selected unless you cancel the parental lock function.
For example, when you select level "5", the player will not play discs with ratings of "6", "7" or "8". The information will appear on the TV screen.

If you forget the password...
Enter "788444" to clear the current password.
Enter a new password and set the parental lock level again.

Note:
DVD discs may or may not respond to the parental lock settings. Make sure this function works with your DVD discs.

To lock the disc tray
You can lock the disc tray to prevent misuse of young children.
Enter password "123456" to set the disc tray lock mode.
-    The OPEN/CLOSE button will not function.
To release this mode, enter the same password again.

LANGUAGE CODE LIST

Enter the appropriate code number for the initial settings "AUDIO", "SUBTITLE" and "DVD MENU".

Code	Abbreviation of the language	Language	Code	Abbreviation of the language	Language	Code	Abbreviation of the language	Language
6565	aa	Afar	7369	ie	Interlingue	8278	rn	Kirundi
6566	ab	Abkhazian	7375	ik	Inupiak	8279	ro	Romanian
6570	af	Afrikaans	7378	in	Indonesian	8285	ru	Russian
6577	am	Amharic	7383	is	Icelandic	8287	rw	Kinyarwanda
6582	ar	Arabic	7384	it	Italian	8365	sa	Sanskrit
6583	as	Assamese	7387	iw	Hebrew	8368	sd	Sindhi
6589	ay	Aymara	7465	ja	Japanese	8371	sg	Sangro
6590	az	Azerbaijani	7473	ji	Yiddish	8372	sh	Serbo-Croatian
6665	ba	Bashkir	7487	jw	Javanese	8373	si	Singhalese
6669	be	Byelorussian	7565	ka	Georgian	8375	sk	Slovak
6671	bg	Bulgarian	7575	kk	Kazakh	8376	sl	Slovenian
6672	bh	Bihari	7576	kl	Greenlandic	8377	sm	Samoan
6673	bi	Bislama	7577	km	Cambodian	8378	sn	Shona
6678	bn	Bengali; Bangla	7578	kn	Kannada	8379	so	Somali
6679	bo	Tibetan	7579	ko	Korean	8381	sq	Albanian
6682	br	Breton	7583	ks	Kashmiri	8382	sr	Serbian
6765	ca	Catalan	7585	ku	Kurdish	8383	ss	Siswati
6779	co	Corsican	7589	ky	Kirghiz	8384	st	Sesotho
6783	cs	Czech	7665	la	Latin	8385	su	Sundanese
6789	cy	Welsh	7678	ln	Lingala	8386	sv	Swedish
6865	da	Danish	7679	lo	Laothian	8387	sw	Swahili
6869	de	German	7684	lt	Lithuanian	8465	ta	Tamil
6890	dz	Bhutani	7686	lv	Latvian, Lettish	8469	te	Tegulu
6976	el	Greek	7771	mg	Malagasy	8471	tg	Tajik
6978	en	English	7773	mi	Maori	8472	th	Thai
6979	eo	Esperanto	7775	mk	Macedonian	8473	ti	Tigrinya
6983	es	Spanish	7776	ml	Malayalam	8475	tk	Turkmen
6984	et	Estonian	7778	mn	Mongolian	8476	tl	Tagalog
6985	eu	Basque	7779	mo	Moldavian	8478	tn	Setswana
7065	fa	Persian	7782	mr	Marathi	8479	to	Tonga
7073	fi	Finnish	7783	ms	Malay	8482	tr	Turkish
7074	fj	Fiji	7784	mt	Maltese	8483	ts	Tsonga
7079	fo	Faeroese	7789	my	Burmese	8484	tt	Tatar
7082	fr	French	7865	na	Nauru	8487	tw	Twi
7089	fy	Frisian	7869	ne	Nepali	8575	uk	Ukrainian
7165	ga	Irish	7876	nl	Dutch	8582	ur	Urdu
7168	gd	Scots Gaelic	7879	no	Norwegian	8590	uz	Uzbek
7176	gl	Galician	7967	oc	Occitan	8673	vi	Vietnamese
7178	gn	Guarani	7977	om	(Afan) Oromo	8679	vo	Volapük
7185	gu	Gujarati	7982	or	Oriya	8779	wo	Wolof
7265	ha	Hausa	8065	pa	Punjabi	8872	xh	Xhosa
7273	hi	Hindi	8076	pl	Polish	8979	yo	Yoruba
7282	hr	Croatian	8083	ps	Pashto, Pushto	9072	zh	Chinese
7285	hu	Hungarian	8084	pt	Portuguese	9085	zu	Zulu
7289	hy	Armenian	8185	qu	Quechua			
7365	ia	Interlingua	8277	rm	Rhaeto-Romance			

14

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 FM or AM.
2. **Automatic tuning**
   Press the + or – TUNE button for at least 1 second 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 – TUNE button briefly until the desired frequency is displayed.

```
FM 103.25 MHz
```

To preset stations (Using the remote control)

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

Automatic presetting (APT)

1. Press the TUNER/BAND button to select FM or AM.
2. Press the SHIFT + ADJUST buttons 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 SHIFT + ADJUST buttons.

```
--- 103.25 PROG. MHz
```
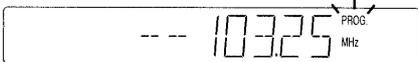
3. While "PROG." is blinking, press the number buttons (Example: press 0, then 9).

```
9. 103.25 PROG. MHz
```

```
FM 103.25 MHz
```

4. Repeat 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 TUNER/BAND button to select FM or AM.
2. Press the + or – PRESET button briefly to select the desired channel.
   - The number buttons on the remote control can also be used.

Preset scan tuning

1. Press the TUNER/BAND button to select FM or AM.
2. Press the + or – PRESET 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 + or – PRESET button again to keep the reception locked at that station.

To receive FM stereo broadcasts (Remote control only)

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
(Using the remote control)

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

1. Press the SHIFT + ADJUST buttons.
2. While "PROG." is blinking, press the "–" TUNE button to select "bc-A" or "bc-B". Select the setting that gives the best results.

Changing the AM reception frequencies (Main unit only)
It is not necessary to perform this procedure in the Europe.
1. Press the TUNER/BAND button to select "AM".
2. While pressing the ■ STOP button, press the PASS SURROUND button.

522 - 1611 kHz (9 kHz steps) ◄──► 520 - 1610 kHz (10 kHz steps)

Listening to FM stations with RDS (Using the main unit)

RDS (Radio Data System) permits FM stations to send additional signals with the regular programme signals. For example, the stations send their station names and information about what type of broadcast programmes, such as sports or music, etc.

When tuned in FM station which provides the RDS service, the "PS" RDS mode is set automatically and the station name appears on the display.

Note:
- Some FM stations do not provide RDS service.
- RDS may not work correctly if the signal strength is weak.
- RDS is not available for AM broadcasts.

Selecting the RDS display mode

Press the RDS MODE button while listening to an FM station. Each time the button is pressed, the display mode changes as follows.
   PS ──► PTY ──► RT ──► Frequency

PS (Programme Service)
   The station name is displayed. If no PS signal is received, "NO PS" appears, then station frequency is displayed.
PTY (Programme Type)
   The broadcast programme type is displayed. If no PTY signal is received, "NO PTY" appears, then station name or station frequency is displayed.
RT (Radio Text)
   Text messages the station sends will be displayed. If no RT signal is received, "NO RT" appears.
Frequency
   Station frequency (non-RDS service)
   After several seconds, the PS mode returns if RDS signal is received.

To search a preset station by PTY codes

A particular programme type broadcast can be located by specifying the PTY codes.

1. Press the RDS MODE button to select "PTY" while listening to FM station.
2. Turn the PTY SELECT control within 2 seconds to select the desired PTY code. The PTY code changes as shown below;

NEWS: News
AFFAIRS: Current affairs
INFO: Information
SPORT: Sport
EDUCATE: Education
DRAMA: Drama
CULTURE: Culture
SCIENCE: Science
VARIED: Varied
POP M: Pop music
ROCK M: Rock music
M.O.R. M: Middle of the road music (easy-listening)
LIGHT M: Light classics
CLASSICS: Serious classics
OTHER M: Other music
WEATHER: Weather
FINANCE: Finance
CHILDREN: Children's programmes
SOCIAL: Social affairs
RELIGION: Religion
PHONE IN: Phone in
TRAVEL: Travel
HOBBIES: Hobbies
JAZZ: Jazz music
COUNTRY: Country music
NATION M: National music
OLDIES: Oldies music
FOLK M: Folk music
DOCUMENT: Documentary
TEST: Alarm Test
ALARM: Alarm
(or in the reverse sequence)

3. Press the PTY CHECK button within 10 seconds. "PTY CHK" blinks on the display.
The unit searches 24 preset stations and stops when it finds a broadcast of the PTY code you have selected, then tunes into that station.
- To continue searching after the first stop, press the PTY CHECK button again while the display blinks.
- If no broadcast is found, "NO PTY" appears, then the original station is heard.

To cancel searching, press the PTY CHECK button.

LISTENING TO AUXILIARY SOURCES

1. Press the FUNCTION button to select "AUX IN1" or "AUX IN2".

2. Follow the instructions supplied with the auxiliary equipment.

TIMER OPERATION (Using the remote control)

Using the 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 timer will function every day unless it is released.
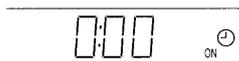
Preparation
Note:
Make absolutely sure that the clock is set the correct time before setting the timer.

- 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 SHIFT + TIMER buttons.

The previous timer on time setting appears.
2. Press the SHIFT + ADJUST buttons within 10 seconds.

3. Set the hours of timer on time by pressing the + or – TIME SET button, then press the SHIFT + ADJUST buttons.

Set the minutes in the same way.

The timer off time setting appears.
4. Set the timer off time as described in step 3. The original display returns, then the timer operation standby mode is activated. "⏱" remains lit.
5. Press the ⏻/ON button to switch off the power.

- "⏱" 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 SHIFT + TIMER buttons repeatedly. The timer settings are displayed in the following order:
On time ⟶ Off time ⟶ Function ⟶ Original display returns

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

To release the timer
After turning the power on, press the SHIFT + TIMER buttons, then press the SHIFT + SET/CLEAR.

To set the timer again with the same settings
1. Press the SHIFT + TIMER buttons, then the SHIFT + SET/CLEAR.
2. Press the ⏻/ON button to switch off the power.

16

Note:
- If the SHIFT + SET/CLEAR buttons are 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 SHIFT + SLEEP buttons repeatedly to select the desired sleep time.
"SLEEP" and the selected time blink on the display. After several seconds, the original display returns and the brightness of the display reduces. "SLEEP" blinks.

To check the remaining sleep time
Press the SHIFT + SLEEP buttons once. After several seconds, the original display returns.

To release the sleep timer while in operation
Press the SHIFT + SLEEP buttons, then the SHIFT + SET/CLEAR. The timer is also released if the power is switched off.

MAINTENANCE

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.

TROUBLESHOOTING GUIDE

If you have followed the instructions and are having difficulty operation the unit, locate the SYMPTOM in the left column below. Check the corresponding POSSIBLE CAUSE and CORRECTIVE ACTION columns to locate and remedy the problem.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
No picture.	The wrong function is selected.	Select the correct function.
	No disc is loaded or an unplayable disc is loaded.	Load a disc or load a playable disc. (Check the disc logo, type, colour system and regional code.)
	The TV is not set to receive signal from the unit.	Select the correct input function on the TV.
No sound.	The wrong function is selected.	Select the correct function.
	Volume control is set to minimum.	Turn up the volume.
The playback picture is poor.	An unplayable disc is loaded.	Load a playable disc. (Check the disc logo, type, colour system and regional code.)
" $\bigcirc$ " appears on the TV screen.	The selected function does not operate on the disc now.	The feature or action cannot be completed at this time because: - The feature is not available at the moment. - The DVD software restricts it. - The DVD software does not support the feature (e.g., angles).
The DVD/CD player does not start play.	No disc is loaded.	Load a disc.
	An unplayable disc is loaded.	Load a playable disc. (Check the disc logo, type, colour system and regional code.)
	The disc is loaded with the label side down.	Load the disc on the disc tray correctly.
	The disc is dirty.	Clean the disc or replace it.
	"PARENTAL" is set.	Cancel the parental lock function or change the rating level. Reset it after play.
The operation or display is not normal.	The memory must be reset.	1. Disconnect the mains lead. 2. Press the RESET button (bottom of the unit) for at least 30 seconds. 3. Reconnect the mains lead. 4. Resume operation.
The remote control does not work properly.	The batteries in the remote control are weak, or installed incorrectly.	Check the battery polarity (+ or –). Replace the batteries.
	The remote control is not aimed at the remote sensor window.	Aim the remote control at the remote sensor window.

17

SPECIFICATIONS

Tuner
Reception frequency:
FM: 87.5 - 108 MHz
AM: 522 - 1611 kHz

DVD/CD player
Type:
DVD/CD player
Playback standard:
PAL or NTSC
Laser:
Semiconductor laser, wavelength: 650 nm
Laser output (Continuous wave max.):
1 mW (DVD)
0.5 mW (CD)
Frequency range (digital audio):
4 Hz to 44 kHz (DVD fs: 96 kHz)
Signal to noise ratio:
More than 105 dB
Harmonic distortion (digital audio):
0.003 %
Wow and flutter:
Below measurable level

General
Output power:
Total 15 W x 2 (at 4 ohms/Main, 6 ohms/Woofer, 10% distortion)
Inputs
AUX IN1: 550 mV/50k ohms
AUX IN2: 550 mV/50k ohms
Outputs
SPEAKERS:
4 ohms/Main, 6 ohms/Woofer
PHONES:
8 - 32 ohms
SUB WOOFER OUT:
1.0 V rms
DIGITAL OUT:
Optical

A/V EURO CONNECTOR:
For Euro-AV cable
VIDEO OUT:
1.0 Vp-p (75 Ω)
S-VIDEO OUT:
Y: 1.0 Vp-p (75 Ω) NTSC, 1.0 Vp-p (75 Ω) PAL
C: 0.286 Vp-p (75 Ω) NTSC, 0.3 Vp-p (75 Ω) PAL
Power requirements:
AC 230 V, 50 Hz
Power consumption:
60 W
1.4 W (Eco On standby mode)
Dimensions:
190(W) x 157(H) x 335(D) mm
Weight:
4.5 kg

Speaker systems
Type:
3 way acoustic bass tube
Unit used:
Woofer: 10 cm cone type
Mid range: 10 cm cone type
Tweeter: piezoelectric
Maximum power-handling capacity:
Main: 10 W (peak), Woofer: 30 W (peak)
Nominal impedance:
Main: 4 ohms, Woofer: 6 ohms
Dimensions:
150(W) x 335(H) x 265(D) mm
Weight:
4.1 kg (per speaker)

Specifications subject to change without notice.

IMPORTANT INFORMATION
Because its products are subject to continuous improvement, SANYO reserves the right to modify product designs and specifications without notice and without incurring any obligation.

18

GUARANTEE TO CUSTOMER

Sanyo Europe 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. Unauthorised 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 Europe Ltd.,
Sanyo House
Otterspool Way, Watford,
Hertfordshire WD2 8JX
Tel: Watford 246363

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