# **ENGLISH**

XL-E171DVH DVD Hi Fi Component System consisting of XL-E171DVH (main unit) and CP-E171 (speaker system).

# Introduction

Thank you for purchasing this SHARP product. To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

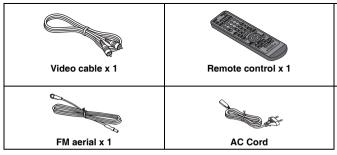
# **Special Note**

Supply of this product does not convey a license nor imply any right to distribute content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), revenue-generating streaming applications (via Internet, intranets and/or other networks), other revenue-generating content distribution systems (pay-audio or audio-on-demand applications and the like) or on revenue-generating physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit <a href="http://mp3licensing.com">http://mp3licensing.com</a>

MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

# **Accessories**

Please confirm that the following accessories are included.



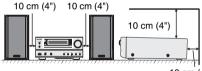


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### General

Please ensure that the equipment is positioned in a well ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back of the equipment.



10 cm (4")

- Use the unit on a firm, level surface free from vibration.
- Place the speakers at least 30 cm (12") away from any CRT TV to avoid colour variations across the TV screen. If the variations persist, move the speakers further away from the TV. LCD TV is not prone to such variation.
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.
- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power lead from the wall socket. Plug the AC power lead back in, and then turn on your system.
- In case of an electrical storm, unplug the unit for safety.
- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.

- The AC power plug is used as a disconnect device and shall always remain readily operable.
- Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.
- No naked flame sources such as lighted candles should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).
- The apparatus is designed for use in moderate climates.

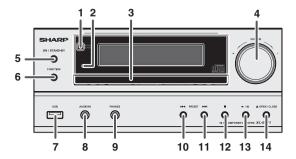
#### Warning:

The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

# Volume control

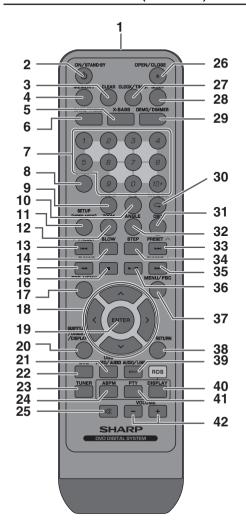
The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels. Do not turn the volume on to full at switch on. Listen to music at moderate levels. Excessive sound pressure from earphones and headphones can cause hearing loss.

# Controls and indicators



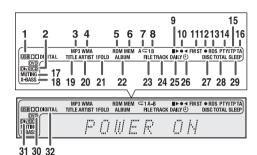
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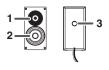
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# Controls and indicators (continued)



# ■ Speaker system

- 1. Tweeter
- Woofer
- 3. Bass Reflex Duct



### Speaker grilles are removable

Make sure nothing comes into contact with the speaker diaphragms when you remove the speaker grilles.



# Display Page 2 CD Indicator 12 Stereo Station Indicator 30

# Types of playable discs

The DVD player can play back discs bearing any of the following marks:

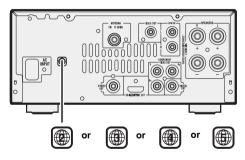
Disc type	Disc contents
DVD Video Disc	Audio and video (movies)
Super Video CD  VIDEO SUPER VIDEO SUPER VIDEO	Audio and video (movies)
Video CD  VIDEO CD  COMPACT  C	Audio and video (movies)
Audio CD	Audio
CD-R/CD-RW (*1)  COMPACT COMPA	Audio and picture
DivX® Video disc	Audio and video (movies)

- (\*1): The CD-R/CD-RW may not be played back properly depending on the recording equipment or the disc.
- (\*2): JPEG or JPG picture discs also play on this unit. However, pictures may not be clear (depends on resolution and recording method).
- (\*3): Maximum JPEG file size is 10Mb. If photo bigger than this size, it will take some time for the file to be displayed.
- For unplayable discs, see page 6.

ABOUT DIVX VIDEO: DivX<sup>®</sup> is a digital video format created by DivX, Inc. This is an official DivX Certified<sup>®</sup> device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified<sup>®</sup> device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

(DivX® version cannot be upgraded on this product.)



#### Icons used in this operation manual

Some functions may not be available depending on discs. The following icons indicate the discs that can be used in the section.

... Indicates DVDs.

SVCD ... Indicates Super video CDs

vcp ... Indicates video CDs.

CD ... Indicates audio CDs.

JPEG ... Indicates CD-R/RW with JPEG recording.

... Indicates DivX<sup>®</sup> Video.

MP3 ... Indicates MP3.

- Some operations may not be performed depending on discs even if they are described in this manual.
- During operation, "O" may be displayed on the screen. This means that the operations described in this manual are not possible.

# Copyright Information:

- Unauthorised copying, broadcast, public display, transmission, public performance and rental (regardless of whether or not such activities are for profit) of disc contents are prohibited by law.
- This system is equipped with copy protection technology that causes substantial degradation of images when the contents of a disc are copied to a videotape.

# Discs that cannot be played

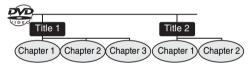
- DVDs without the region
- number on the disc. DVDs with SECAM system
- DVD-ROM
- DVD-RAM
- DVD-Audio

- CDG CDV
- CD-ROM
- SACD
- Discs recorded in special formats, etc.
- The discs above cannot be played at all, or no sound is heard although images appear on the screen or vice versa
- Incorrect operation may damage the speakers and can have a negative effect on your hearing when played at high volume settings.
- You cannot play illegally produced discs.

- A disc which has scratches or fingerprints may not play properly. Refer to "Care of compact discs" (page 37) and clean the disc.
- Do not play the discs of special shapes (heart or octagon shaped) as they can be ejected whilst rotating and cause injury.

# Title, chapter and track

DVDs are divided into "titles" and "chapters". If the disc has more than one movie on it, each movie is a separate "title". "Chapters" are subdivisions of titles.



Audio CDs consist of "tracks".

A "track" is each tune on an audio CD.



#### Note:

Title, chapter or track numbers may not be recorded on some discs.

#### DivX

- DivX Certified<sup>®</sup> to play DivX<sup>®</sup> video, including premium content.
- DivX®, DivX Certified® and associated logos are trademarks of DivX, Inc. and are used under license.



#### Icons used on DVD discs

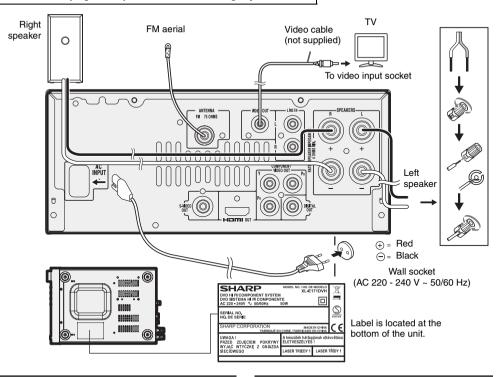
Check the icons on the DVD case before playing your

Check the discs.	icons on th	e DVD case before playing your
Dis	play	Description
Region nur (playable a number)		DVD discs are programmed with region numbers indicating countries in which they can be played. This system can play discs with region number on the back of the unit.
Format rec the DVD	orded on	To adopt the video format to the connected TVs ("wide-screen TV" or "4:3 size TV").
4:3	Recorded i	n 4:3.
16:9 LB		joy wide images on a wide-screen erbox size images on the 4:3 size
16:9 PS		joy wide images on a wide-screen images with the side edges cut on e TV.
Type of subtitles recorded  Example:  1: English 2: French		Recorded subtitle languages. Language can be selected with the SUBTITLE/DIGEST/DISPLAY button.
Number of angles	f camera	Number of angles recorded on the DVD. Angles can be selected with the ANGLE button.
Number of tracks and recording	audio	The number of audio tracks and audio recording systems are indicated.
2))	Example: 1: Original <english> (Dolby Digital 2 Surround) 2: English (Dolby</english>	<ul> <li>The audio recorded on the DVD can be switched by using the AUDIO button.</li> <li>The number of audio tracks and recording systems vary depending on the DVD. Check them in the DVD's manual.</li> </ul>

Digital 5.1

Surround)

#### Make sure to unplug the AC power lead before making any connections.



# Aerial connection

#### Supplied FM aerial:

Connect the FM aerial wire to the FM 75 OHMS socket and position the FM aerial wire in the direction where the strongest signal can be received.

#### Note:

Placing the aerial on the unit or near the AC power lead may cause noise pickup. Place the aerial away from the unit for better reception.

## Speaker connection

- Connect the black wire to the minus (-) terminal, and the red wire to the plus (+) terminal.
- Use speakers with an impedance of 4 ohms or more, as lower impedance speakers can damage the unit.
- Do not mistake the right and the left channels. The right speaker is the one on the right side when you face the unit.
- Do not let the bare speaker wires touch each other.
- Do not allow any objects to fall into or to be placed in the bass reflex ducts.
- Do not stand or sit on the speakers. You may be injured.

# Demonstration mode

- The first time the unit is plugged in, the unit will enter the demonstration mode.
- To cancel the demonstration mode, press the DEMO/ DIMMER button (remote control) during power standby mode. The unit will enter the low power consumption mode.
- To return to the demonstration mode, press the DEMO/ DIMMER button again.

# AC power connection

After checking all the connections have been made correctly, plug the AC power lead of this unit into the wall socket.

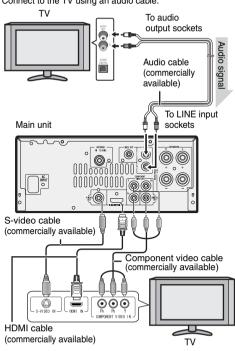
#### Note:

Incorrect

Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.

# Connecting a TV, etc.

Connect to the TV using an audio cable.



To select Line In function:

- On main unit: Press FUNCTION button repeatedly until Line In is displayed.
- On remote control: Press AUDIO/LINE (INPUT) button repeatedly until Line In is displayed.

For better quality, you can also connect with S-video using the S-VIDEO OUT tack.

If your TV also has a component video input or HDMI input, you can connect this too.

## Using the component video jacks:

Component video should deliver superior picture quality when compared to composite video. A further advantage is progressive-scan video, which delivers a very stable, flicker-free picture. See the manuals that came with your TV to check whether they are compatible with progressive-scan video.

# Using HDMI terminal:

If you have an HDMI or DVI (with HDCP) equipped TV, you can connect it to this receiver using a commercially available HDMI cable.

#### Note:

If the video signal does not appear on your TV, try adjusting the resolution settings on your component or display. Note that some video contents have resolutions that may not be displayed. In this case, use a (analog) composite connection.

#### Remote control

# Battery installation

- 1 Open the battery cover.
- 2 Insert the supplied battery according to the direction indicated in the battery compartment.

When inserting or removing the battery, push it towards the (–) battery terminals.

3 Close the cover.



#### Caution:

- Remove the battery if the unit will not be used for a long period of time. This will prevent potential damage due to battery leakage.
- Do not use rechargeable battery (nickel-cadmium battery, etc.).
- Installing the battery incorrectly may cause the unit to malfunction.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

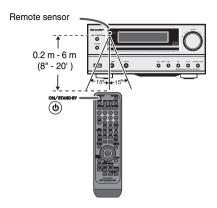
#### Notes concerning use:

- Replace the battery if the operating distance is reduced or if the operation becomes erratic. Purchase a "AAA" size battery (UM-4, R03, HP-16 or similar).
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit if this occurs.
- Keep the remote control away from moisture, heat, shock, and vibrations.

#### Test of the remote control

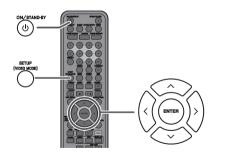
Check the remote control after checking all the connections.

Point the remote control directly at the remote sensor on the unit. The remote control can be used within the range shown below:



# Changing the setup menu

Turn on the TV, and switch the input to the "VIDEO 1", "VIDEO 2", etc. accordingly.



- 1 Press the ON/STAND-BY button to turn the power on.
  - The startup screen appears.
  - The startup screen does not appear when the function is not set to disc or USB video mode. Press the DVD button or USB VIDEO/AUDIO button repeatedly on remote control or FUNCTION button on main unit repeatedly to select DISC or USB Video mode.



2 Press the SETUP (VIDEO MODE) button.

- 3 Press the < or > button to select a menu and press the ENTER button.
  - See the list on pages 9 13 for setup menu.
- **4** Press the ∧, ∨, < or > button to change the setting and press the FNTFR button
  - See the list on pages 9 13 for the selectable parameters.
- 5 Press the SETUP (VIDEO MODE) button.
- The setting is completed.
- To change other settings, begin from step 2.

- During playback, "PREFERENCES" settings cannot be changed.
- Settings are stored even if the unit is set to the standby mode.
- The backup function protects the stored settings for a few hours should there be a power failure or the AC power lead disconnection.
- If the startup screen is blurred, change the TV type in the setup menu.

Setup menu	Selectable parameters (* indicates default setting)			Description
GENERAL SETUP PAGE	GONINAL AUDIO DOLEY VIDEO PREFEREN.  CENERAL SETUP PAGE EVIDUPLAY FERENCE SEG AND SEG AN	TV DISPLAY	4:3 PANSCAN* 4:3 LETTERBOX 16:9 WIDE SQUEEZE	The screen mode should be set according to the connected TV type (for details, see page 12).
	SCREEN SAVER ON LAST MEMORY OF	ANGLE MARK	ON* OFF	
	GO TO GENERAL SETUP PAGE	OSD LANGUAGE	ENGLISH* POLISH CZECH SLOVAK SWEDISH HUNGARIAN GERMAN	You can select the desired OSD (On Screen Display) language for the setup menu or playback control screen.
		SCREEN	ON*	A screen saver appears.
		SAVER	OFF	The screen saver disabled.
		LAST MEMORY	ON*	If accidentally push ON/STAND-BY or OPEN/CLOSE button during playback mode, you can resume playback from the point playback is stopped after power on back or you push the OPEN/CLOSE button to close the disc tray.
			OFF	Last memory not function.

# Changing the setup menu (continued)

Setup menu	Selectable parameters (* indicates default setting)				Description
AUDIO SETUP	GENERAL AUDIO DOLBY VIDEO PREFEREN.	ANALOG AUDIO	DOWNMIX	LT/RT STEREO*	
PAGE	AUGO SETUP PAGE ANALICA AUGO COTTAL FILLOT GO TO AUGO SETUP PAGE	DIGITAL AUDIO	DIGITAL OUT	SPDIF OFF SPDIF/RAW* SPDIF/PCM	When playing a disc recorded with Dolby Digital or DTS, the corresponding digital signals will be output.  PCM: Choose this setting if the decorder cannot support Dolby Digital or DTS.  RAW: Choose this setting if the decorder can support Dolby Digital or DTS.
			LPCM OUT	48KHZ* 96KHZ	Select the sampling frequency at 48 kHz/16 bit or 96 kHz/24 bit capability after you select SPDIF/ PCM at SPDIF SETUP.
DOLBY DIGITAL SETUP	GENERAL ALGID DOLEY VIDEO PRIEFEREN. DOLEN RIGHTAL SETUP DOLENBER	DUAL MONO	STEREO* L-MONO R-MONO MIX-MONO		
		DYNAMIC (*1)	FULL		Audio with fully compressed dynamic range.
	GO TO DOLBY DIGITAL SETUP		3/4 1/2 1/4		Audio with partially compressed dynamic range.
			OFF*		Audio with uncompressed dynamic range.

Setup menu	u Selectable parameters (* indicates default setting) Description				
VIDEO SETUP	ociectable para	VIDEO OUT		Journal /	SVIDEO:
PAGE	CENERAL ALGOO DOLBY WORD PRIFERENCY VIOLO SETUP PAGE - VIOLO SETUP PAGE GO TO VIOLO SETUP PAGE GO TO VIOLO SETUP PAGE		SVIDEO* COMPONENT (*2)		Choose this setting for S-VIDEO output.  COMPONENT: Choose this setting for COMPONENT output.  Please use the supplied Video cable when adjusting video out setting. S-Video output and component output cannot be used simultaneously.  If S-Video output and component output cannot be used simultaneously.  If S-Video output and component output are not connected, please use the supplied video cable and check the video out setting.
		RESOLUTION	480I 480P 576I 576P 720P (50HZ)* 1080I (50HZ) 720P (60HZ) 1080I (60HZ) 1080I (60HZ)		<ul> <li>Press and hold ANGLE button to reset the resolution to default setting.</li> </ul>
		COLOR SETTING	SHARPNESS	HIGH MEDIUM* LOW	
			BRIGHTNESS	-20 -> 0* -> +20	
			CONTRAST	-16 -> 0* -> +16	
			GAMMA	HIGH MEDIUM* LOW NONE	
			HUE	-9 -> 0* -> +9	
			SATURATION	-9 -> 0* -> +9	
			LUMA DELAY	0T* 1T	
		DIVX (R) VOD	ОК	PROSTER  DEREGISTER  EXT	SHARP provide you the DivX registration code that allows you to rent and purchase videos using the DivX service. Please go to <a href="https://www.divx.com/vod">www.divx.com/vod</a> for more information.
		HDMI SETUP	HDMI	ON* OFF	
			AUDIO	AUTO*	
			SOURCE	PCM	
PREFERENCE PAGE	GENERAL AUDIO DOLBY VIDEO PREFEREN PREFERENCE PAGE TATUE AUDIO ENG.	TV TYPE	PAL* AUTO NTSC(*3)		Please refer page 13.
	DISC MENU ENG PARENTAL PASSWORD DEFAULT	PBC	ON* OFF		Please refer page 21.
	GO TO PREFERENCE PAGE	AUDIO	ENGLISH* POLISH CZECH SLOVAK SWEDISH HUNGARIAN GERMAN		Select the language audible from the speakers.

# Changing the setup menu (continued)

Setup menu	Selectable parameters (*	indicates default s	etting)	Description
	SUBTITLE	ENGLISH* POLISH CZECH SLOVAK SWEDISH HUNGARIAN GERMAN OFF		Select the subtitle displayed on the TV screen.
	DISC MENU	ENGLISH* POLISH CZECH SLOVAK SWEDISH HUNGARIAN GERMAN		
	PARENTAL	1 KID SAFE 2 G 3 PG 4 PG 13 5 PGR 6 R 7 NC 17 8 ADULT*		Set a restriction level for DVD viewing. (For details, see page 13)
	PASSWORD	PASSWORD MODE	ON* OFF	Select the password mode condition.
		PASSWORD	CHANGE	See page 13 for password setting.
	DEFAULT	RESET		This resets all setting (Except for Parental and Password) to factory default.

<sup>(\*1)</sup> Selects the dynamic range compression to fit the individual listening situation of the audience. This function can be used in DVD playback. Depending on the disc, sounds may become too loud or inaudible during playback. Dolby Digital's dynamic range control allows you to adjust the sound range.

- (\*2) Your TV must be capable of handling progressive scanning and have component input capability.
- (\*3) NTSC is default TV TYPE for some countries only.

■ TV display setting				
Indicator	Setting			
4:3 PANSCAN	When playing a wide image (16:9) disc, the left and right sides of the image are cut (pan scan) to display a natural-looking 4:3 size image.			
	A wide image disc without			
	pan scan Ps is played back in 4:3 letterbox.			
	A 4:3 disc is played in 4:3.			
4:3 LETTERBOX	When playing a wide image (16:9) disc, black bands are inserted at the top and bottom and you can enjoy full wide images (16:9) on a 4:3 size TV.			
	A 4:3 disc is played in 4:3.			

Indicator	Setting		
16:9	A wide image (16:9) is displayed when playing a wide image (16:9) disc.		
	<ul> <li>When playing a 4:3 image disc, the image size depends on the setting of the connected TV.</li> </ul>		
	<ul> <li>If you play back a wide image (16:9) disc with this unit connected to a 4:3 TV, the vertically shrunk image is displayed.</li> </ul>		
WIDE SQUEEZE	When play 4:3 disc with this unit connected to a 16:9 TV (wide screen TV), the horizontally expended image is displayed. If you use this setting, a natural looking image 4:3 size can be viewed with the black bands are inserted at the left and right of the screen.  If you playback a wide image (16:9) disc with 4:3 TV, the vertically shrunk image is displayed.		

#### Note:

When playing the disc with a fixed video format, it will not change even if the TV screen size is changed.

# ■ TV type setting

Indicator	Setting
AUTO	Select this mode for the multi-system TV.
NTSC	Select this mode for the NTSC TV.
PAL	Select this mode for the PAL TV.

# Language setting

<u> </u>	<u> </u>	
Indicator	Setting	
OSD LANGUAGE	A language for screen display can be set for the setup menu, messages, etc.	
	English French  □ CHARGEMENT □ CHARGEMENT	
AUDIO	A language for audio can be set. You can specify a language for conversation and narration.	
	English French  Thank you  Merci	
SUBTITLE	A language for subtitle can be set. The subtitles are displayed in a specified language.	
	English French  Thank you  A  Merci	
DISC MENU	A language for disc menus can be set. Menu screens are displayed in a specified language.	
	English French  CAST STAFF  ACTEURS PERSONNEL	

# ■ Parental setting

- 1 Select "PREFERENCE" on the setup menu screen (see steps 1 3 on page 9).
- 2 After selecting "PARENTAL" in step 4 on page 12, select the parental level and press the ENTER button.
- **3** Enter a 6-digit password using the Direct Search buttons and press the ENTER button.
  - \* If this is the first time, enter "000000".

Indicator	Setting
1 KID SAFE	Only DVD software intended for children can be played back.
2 G to 7 NC- 17	Only DVD software intended for general use and children can be played back.
8 ADULT	DVD software of any grade (adult/ general/ children) can be played back.

#### Note:

Whilst playing a disc with parental lock, the display may appear requesting a password in order to watch some restricted scenes. In such case, enter the password to temporarily change the parental level.

# Password setting

From the setup menu, select "PASSWORD SETUP PAGE", "PASSWORD" and then "CHANGE". A screen appears.



- 1 Enter the old password using the Direct Search buttons. (If this is the first time, enter "000000").
- **2** Enter the new password using the Direct Search buttons.
- **3** Enter the new password again for confirmation.
- **4** Press ENTER button again to confirm password changed.

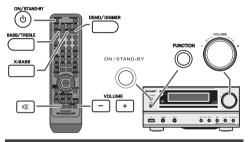
# Note:

When you forget your password, follow below sequence.

At setup menu, select "PASSWORD SETUP PAGE", "PASSWORD" and then "CHANGE".

- 1 Enter the old password as "000000" using the Direct Search buttons.
- 2 Enter the new password.
- **3** Enter the new password again for confirmation.

# General control



#### ■ To turn the power on

Press the ON/STAND-BY button to turn the power on.

#### After use:

Press the ON/STAND-BY button to enter the power stand-by mode.

# Display brightness control

To dim the display brightness, press the DEMO/DIMMER button on the remote control.

→Dimmer 1 (Display is dim).

Dimmer 2 (Display gets dimmer).

Dimmer off (Display is bright).

# Volume auto set in

If you turn off and on the main unit with the volume set to 17 or higher, the volume starts at volume 16.

#### Volume control

Turn the volume knob towards VOLUME +/- (on main unit) or press VOLUME +/- (on remote control) to increase or decrease the volume.

# Auto power on function

When you press any of the following buttons, the unit turns on

- DVD, USB VIDEO/AUDIO, AUDIO/LINE (INPUT), TUNER on the remote control: Selected function is activated.
- In button on the main unit: The unit turns on and playback of the last function will start (DVD, TUNER, USB, AUDIO IN, LINE IN)

# Auto power off function

The main unit will enter the stand-by mode after 15 minutes of inactivity during:

AUDIO IN / LINE IN: No detection of input signal or very low sound audibility.

DVD / USB AUDIO / USB VIDEO: In the stop mode.

# ■ Muting

The volume is muted temporarily when pressing the option on the remote control. Press again to restore the volume.

# ■ X-Bass control

When the power is first turned on, the unit will enter the extra bass mode which emphasises the bass frequencies, and "X-BASS" will appear. To cancel the extra bass mode, press the X-BASS button on the remote control

#### Bass control

- 1 Press the BASS/TREBLE button to select "Bass".
- Within 5 seconds, press the VOLUME (+ or –) button to adjust the bass.



#### Treble control

- 1 Press the BASS/TREBLE button to select "Treble".
- 2 Within 5 seconds, press the VOLUME (+ or -) button to adjust the treble.



#### ■ Function

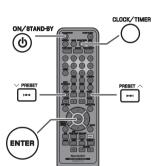
When the FUNCTION button on main unit is pressed, the current function will change to different mode. Press the FUNCTION button repeatedly to select desired function.



#### Note:

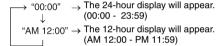
The backup function will protect the memorised function mode for a few hours should there be a power failure or the AC power lead becomes disconnected.

# Setting the clock (Remote control only)



In this example, the clock is set for the 24-hour (00:00) display.

- 1 Press the ON/STAND-BY button to turn the power on.
- 2 Press the CLOCK/TIMER button.
- 3 Within 10 seconds, press the ENTER button. To adjust the day, press the ◄◄ or ▶► button and then press the ENTER button.
- 4 Press the ◄ or ▶ button to select 24-hour or 12-hour display and then press the ENTER button.



- 5 To adjust the hour, press the ◄◄ or ►► button and then press the ENTER button. Press the ◄◄ or ►► button once to advance the time by 1 hour. Hold it down to advance continuously.
- 6 To adjust the minutes, press the ◄ or ➤ button and then press the ENTER button. Press the ◄ or ➤ button once to advance the time by 1 minute.

#### To confirm the time display:

Press the CLOCK/TIMER button. The time display will appear for about 5 seconds.

### Note:

When power supply is restored after unit is plugged in again or after a power failure, reset the clock (page 37).

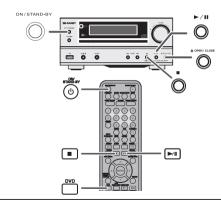
## To readjust the clock:

Perform "Setting the clock" from step 1. If the "Clock" does not appear in step 2, step 4 (for selecting the 24-hour or 12-hour display) will be skipped.

# To change the 24-hour or 12-hour display:

- 1 Clear all the programmed contents. [Refer to "Factory reset, clearing all memory" on page 37 for details.]
- 2 Perform "Setting the clock" from step 1 onwards.

# DVD playback



# ■ Plavback

DVD SVCD VCD CD DivX JPEG MP3

- 1 Press the ON/STAND-BY button to turn the power on.
- 2 When the input is not set to the disc mode, press the DVD button on remote control to display the startup screen.



The startup screen appears.

- 3 Press the ≜ OPEN/CLOSE on the main unit or remote control to open the disc tray.
- 4 Place the disc on the disc tray, label side up.
- 5 Press the ≜ OPEN/CLOSE button to close the disc tray. Discs supporting auto start will start to play once you close the disc tray even if you do not press the ►/II (►/II) button.
- 6 If playback does not start in step 5, press the ►/II (►/II) button.

#### To interrupt playback:

Press the ►/II (►/II)button.

To resume playback from the same point, press the ►/II (►/II) button.

# To stop playback

#### DVD:

Press the button twice.

Audio CD/MP3/DivX:

Press the ■ button.

#### JPEG:

Press the MENU/PBC button to stop JPEG viewing and return to menu view.

When the unit is left unoperated for more than 5 minutes in a stop mode, a screen saver appears (see page 9 when the screen saver setting is "ON")

Press any button on the main unit or remote control. The startup screen returns.

#### Caution:

- Close the disc tray when not in use. Otherwise, dust may accumulate inside and cause malfunction.
- The unit gets slightly warm when used for a long time.
   It does not mean the unit is damaged.
- When attempting to play discs with scratches or of a different region number, or unplayable or restricted (\*1) discs, an error message will appear on the TV display and the disc will not play.
- (\*1) Viewing is prohibited on some DVDs according to the audience age.

# **DVD** playback (continued)

#### Notes:

- During disc initialisation, the volume cannot be adjusted.
- Stop positions may be recorded on some discs. When you play such a disc, playback stops there.
- During an operation, "O" may appear indicating that the operation is disabled by the disc.

# To resume playback after stopping (resume play)

DVD

You can resume playback from the point playback is stopped.

- Whilst a disc is playing, press the ( ) button.
   The system stores the point you stopped.
- 2 To restart play, press the ►/II (►/II) button. Play resumes from the point you stopped.

# To cancel the resume playback:

Press the ( ) button twice.

#### Notes:

- The resume playback feature is disabled on some discs.
- Depending on the disc, playback may resume from slightly before the stopped position.

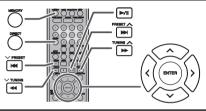
# DVD mode operation indicators

DVD

The following are examples of operation indicators that appear during DVD playback.

Operation	TV screen	Unit display
When the power is on without a disc.	NO DISC	NO DISC
Disc data is being read.	LOADING	page LOADING
Stop		HARS STOP
Play	Þ	101 000 102 100 01 02 0:03:03
Pause		11 000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

# **Basic operation**



# To locate the beginning of a chapter (track) (skip)

DVD SVCD VCD CD DivX JPEG MP3

You can move to other tracks with simple operations. When playing SVCD or VCD, cancel the P.B.C (playback control) (see page 21).

# Whilst a disc is playing, press the ◄ or ▶ button.

- Use the ►►I button to skip to the next chapter (track).
- On DVD, SVCD, VCD and Audio CD, press the I◄◄ button to skip to the beginning of the current track. Press the I◄◄ button again (twice) to skip to the beginning of the previous chapter 1 track.

#### Notes:

- Some discs do not display the chapter (track) and the skip feature is disabled.
- On a DVD, skip does not operate between titles.

### Fast forward/Fast backward (search)

DVD CD DivX SVCD VCD MP3

You can search the desired point as you play the disc.

1 Whilst a disc is playing, press the ◄◄ or ►► button. Example: When the ►► button is pressed. On DVD/DivX/SVCD/VCD/Audio CD/MP3 disc, the speed changes as follows:

PLAY (Normal play) 
$$\rightarrow$$
 2 X  $\rightarrow$  4 X  $\rightarrow$  8 X  $\rightarrow$  16 X  $\rightarrow$  32 X

The disc is forwarded by the ▶▶ button and backward by the ◄◄ button.

2 Press the ►/II (►/II) button to return to the normal playback.

#### To playback MP3 files through USB terminal

- 1 Whilst a MP3 track is playing via USB Audio, press and hold ◄ or ▶ button on the remote control to fast forward or fast reverse.
- 2 Release the ◀ or ▶▶ button to return to normal playback.

- On some discs, the search function is disabled.
- On a DVD, search does not operate between titles.
- Whilst searching on a DVD, the sound is not heard and the subtitles do not appear.
- Whilst searching on SVCD or a VCD, the sound is not heard.
- On SVCD, VCD, Audio CD and MP3, the search does not operate between tracks.
- When search is performed during the DVD playback, pictures may not be forwarded or reversed in the search speed specified in this manual, depending on the disc or the scene being played.
- The search does not operate on JPEG discs.

# ■ To play in the desired order (programmed play)

DVD CD

You can playback the desired tracks with titles or chapters in a specific order. Maximum of 20 tracks can be programmed.

1 Whilst in the stop or playback mode, press the MFMORY button

## DVD TV screen



#### CD TV screen



- 2 Enter title or chapter number or track number with the Direct Search buttons.
  - If you enter the wrong numbers, press ∨ or ∧ button to select the concerned track and then reenter the new numbers.
- 3 Press ✓ button to select "Start" and then press ENTER button to start playback the programmed track(s).

### To change the programmed contents:

Repeat the above procedures from step 1.

# Programmed contents will be cleared when you perform the following operations:

- Change to another function or remove the discs.
- Set to the stand-by mode.

# ■ To start playback from the desired point (direct play)

DVD

#### To select and play the desired title and chapter:

#### In the stop mode

**1** Whilst in the stop mode, press the DIRECT button.

#### TV screen

TITLE 01/03 CHAPTER 10/19

2 Within 10 seconds, enter the title number first then only can enter the chapter number by using the Direct Search buttons. Press < or > button for title or chapter selection.

#### Example:

To select title or chapter 1: Press "1".

To select title or chapter 12: Press "10+" and "2".

To select title or chapter 22: Press "10+" twice and "2".

#### In the playback mode

1 Whilst in the playback mode, press the DIRECT button.

#### TV screen



- 2 Select the title or chapter by pressing the ∨ or ∧ button and press the ENTER button.
- 3 Enter the title or chapter number using the Direct Search buttons.

To select chapter 1: Press "0" and "1".

To select chapter 12: Press "1" and "2".

Playback starts after you complete enter the number(s).

**4** Press the DIRECT button to return to the actual size of image (standard screen).

#### Notes:

- Direct play feature is disabled on some discs.
- Some discs may not display the chapter number.
- With DVDs, you can specify the desired point only in the current title and not in another title.

#### To play by specifying time (time search):

You can playback from the desired point by specifying the time.

1 Whilst in the playback mode, press the DIRECT button.

#### TV screen

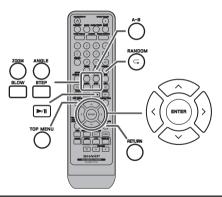


- 2 Press ∨ or ∧ button to select "TT Time" then press the FNTFR button
- 3 Specify the time with the Direct Search buttons.

TT Time 1:23:40

- To specify 1 hour 23 minutes and 40 seconds, enter "12340".
- If you enter the wrong number, start over from step 1.
- Playback starts after you complete enter the number(s).
- 4 Press the DIRECT button to return to the actual size of image (standard screen).

- Some discs cannot play from the specified point.
- Time search feature is disabled on some discs.



# Still picture

DVD SVCD VCD DivX

You can freeze the picture during playback.

- 1 Whilst a disc is playing, press the ►/II button.
- 2 The image or picture will freeze on TV screen.

  "II" appears on the TV screen.
  - The unit display counter will blink.

#### Note:

The sound is muted during still picture.

# Step function (Frame by frame advance playback)

DVD SVCD VCD DivX

You can advance frame by frame.

- 1 Whilst a disc is playing, press the STEP button.
  Each press of the STEP button advances the frame.
- 2 Press the ►/II button to return to the normal playback.

#### Notes:

- Frame playback operates forward only.
- Still picture and frame advance features are disabled on some discs.
- The sound is muted during step function.

#### ■ Slow-motion play

DVD SVCD VCD DivX

You can slow down the playback speed.

1 Whilst a disc is playing, press the SLOW button repeatedly to select the desired speed.

On DVD, the speed changes as follows:

On SVCD/VCD/DivX, only forward play is possible and the speed changes as follows:

2 Press the ►/II button to return to the normal playback.

#### Note:

On some discs, the slow-motion play functions are disabled

### To change the angle

DVD

You can change the angle of view when playing a DVD disc that contains scenes recorded from multiple angles.

When " 🖰 " is displayed in the upper right corner of the TV screen, press the ANGLE button repeatedly to select the desired angle number.

### Notes:

- The angle number is not displayed if angles are not recorded on the disc.
- Refer to the manual of the disc as the operation may vary depending on the disc.

# ■ To zoom images (zoom)

DVD SVCD VCD DivX JPEG

You can magnify images during playback.

1 Whilst a disc is playing, press the ZOOM button. Each press of the ZOOM button cycles through the zoom setting as follows:

$$2X \rightarrow 3X \rightarrow 4X \rightarrow 1/2 \rightarrow 1/3 \rightarrow 1/4 \rightarrow OFF$$

Each press the ◀ and ▶ buttons will switch the ZOOM setting as follows:

2 To shift the view and display the desired part of a zoomed image, press the ♠, ♥, < or > button repeatedly.



#### To return to normal view:

Press the ZOOM button repeatedly.

#### Notos

- Images may become distorted when zoomed.
- Subtitles cannot be zoomed.

# To play repeatedly (repeat play)

DVD CD

You can play a chapter (track) or a title repeatedly by specifying it during playback.

1 Whilst a disc is playing, press the RANDOM/\(\sigma\) button.

# TV screen

CHAPTER

Each time the button is pressed, the repeat play mode changes in the following order

The repeat play mode changes as follows on DVD:

"CHAPTER" Repeat the currently playing chapter. TITLE" Repeat the currently playing title. Repeat the currently playing disc. " 🖒 ALL"

REPEAT OFF The normal playback.

REPEAT OFF

The repeat play mode changes as follows on SVCD/ VCD.

Repeat the currently playing track. + " ← ONF" Repeat the currently playing disc. " 🖒 ALL"

The normal playback. When playing SVCD or VCD, cancel the P.B.C. (see page 21)

The repeat play mode changes as follows on audio CD:

Repeat the currently playing track. "CONE" Repeat the currently playing disc. " الله ا Randomly play the track. "RANDOM"

The normal playback. REPEAT OFF

MP3. DivX and JPEG are displayed when menu screen is "ON" (see page 24).

2 To return to the normal playback, press the RANDOM/ button repeatedly until no display on TV screen.

After performing repeat play, be sure to press the ■ button. Otherwise, the disc will play continuously.

# Note:

On some discs, the repeat play function is disabled.

# To play the contents between the specified points repeatedly (A-B repeat)

DVD SVCD VCD CD

You can play the desired portion repeatedly by specifying it during playback.

1 Whilst a disc is playing, press the A - B button.



This registers the start point (A).

2 Press the A - B button again to enter the end point (B)

#### TV screen



This starts A-B repeat play from the start point (A) to the end point (B).

3 Press the A - B button to return to the normal playback.

#### Notes:

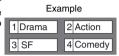
- A-B repeat play is disabled on some discs.
- A-B repeat play for DVD is possible only within a title.
- Some scenes on DVD may not allow A-B repeat play.
- A-B repeat for SVCD/VCD is possible only within a track.

# To select a title from the top menu of the disc

DVD

On a DVD with multiple titles, you can select a title from the top menu.

1 Whilst in the stop or playback mode, press the TOP MENU button to display the title menu.



- **2** Use the  $\wedge$ ,  $\vee$ ,  $\langle$  or  $\rangle$  button to select a title, and then press the ENTER button.
  - The selected title plays.
  - Or use the Direct Search buttons for some discs.

#### Note:

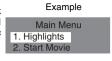
The procedure shown here provides only general steps. The actual procedure for using the title menu depends on the disc. See the disc jacket for details.

## To select a subtitle or audio language from the disc menu

DVD

You can select the desired subtitle or audio language and sound system on your DVD if it has a disc menu.

1 Whilst in the playback mode, press the RETURN button to return to disc manıı



**2** Press the  $\wedge$ ,  $\vee$ , < or > button to change the setting and press the ENTER button.

Or use the Direct Search buttons for some discs.

The procedure shown here provides only general steps. The actual procedure for using the disc menu depends on the disc. See the disc jacket for details.

# Various settings

The subtitle language, audio language and TV type you select during playback are reset each time you set this unit to the stand-by mode or switch the input. To keep your own settings, set them in the Setup menu (see page 9).



# To change the subtitle language

DVD

You can change the subtitle language or hide subtitles during playback.

Whilst a disc is playing, press the SUBTITLE/DIGEST/ DISPLAY button repeatedly to select the desired subtitle language.

SUBTITLE 01/03 ENGLISH

#### Notes:

- On some discs, the subtitle language cannot be changed.
- If no subtitles are recorded on the disc, "⊘" is displayed.
- It may take time to switch the subtitle language to the selected one.
- Subtitles cannot be hidden on some DVDs.

# To change the audio channel

DVD SVCD VCD

You can select an audio channel.

Whilst a disc is playing, press the AUDIO button repeatedly to select the desired audio channel.

E.g.: The audio channel changes as follows on DVD:

Audio 1/2: AC3 5 CH English

Audio 2/2: AC3 2 CH English

The audio channel changes as follows on SVCD:

→ AUDIO 1 → AUDIO 2 → AUDIO 3 → AUDIO 4 ¬

The audio channel changes as follows on VCD:

 $\stackrel{\mathsf{MONO}}{\vdash} \stackrel{\mathsf{MONO}}{\vdash} \stackrel{\mathsf{MONO}}{\vdash} \stackrel{\mathsf{MIX}}{\vdash} \stackrel{\mathsf{MONO}}{\vdash} \rightarrow \mathsf{STEREO}$ 

### Note:

The audio channel may not be changed on some discs.

# To change the display on TV screen

DVD SVCD VCD CD DivX

You can display or hide the operation indicators on the TV screen.

Whilst a disc is playing, press the OSD button. (The display is changed at each press.)

Current title number Total number of titles

TOTAL number of titles

TOTAL number of titles

TOTAL number of titles

TOTAL number of chapters

Current chapter number

Playback time

# DVD:

TITLE ELAPSED
TT:01/03 CH:01/29
0:15:01 Elapsed playback time for current title

TITLE REMAIN TT:01/03 CH:01/29

Remaining playback time for current title

CHAPTER ELAPSED

0:15:01 Elapsed playback time for current chapter

CHAPTER REMAIN TT:01/03 CH:01/29

0:20:10 Remaining playback time for current chapter

DISPLAY OFF

#### SVCD/VCD/CD:

SINGLE ELAPSED

TRACK:01/30, Total track number

O:54 Current track number

Elapsed playback time for the current track

SINGLE REMAIN TRACK:01/30

Remaining playback time for the current track

TOTAL REMAIN

TRACK:01/30
50:50
Total remain playback time for the disc

DISPLAY OFF

TRACK:01/30

When P.B.C. is set to ON for SVCD or VCD, total elapsed playback time and total remaining time will not appear.

#### DivX:

SINGLE ELAPSED

0:01:06

Elapsed playback time for the current track

SINGLE REMAIN

0:20:05

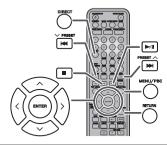
Remaining playback time for the current track

DISPLAY OFF

# Video CD and Super Video CD playback

The following playback functions are the same as DVD or CD operations.

# To locate the beginning of a chapter (track) Slow-motion play ..... 18 To play repeatedly (repeat play) ......19 To play the contents between the specified point repeatedly (A-B repeat) ......19



# Playback of a video CD (super video CD) with P.B.C. ON

SVCD VCD

This unit handles video CDs that support P.B.C. (version 2.0). P.B.C. is an abbreviation of "Playback control". These discs have a menu that is displayed on the TV screen. You can play interactive games and make use of other software with the retrieval function (menu playback).

1 Press the MENU/PBC button with PBC ON.

The menu will appear on the TV and playback will paused.



- 2 Select the desired menu number using the Direct Search buttons.
  - Playback starts.
  - After playback stops, the menu will reappear. Select the menu number to play.

### To interrupt playback:

Press the ▶/II button.

To resume playback from the same point, press the ►/II button.

#### To stop playback:

Press the button twice.

To stop the current operation and return to the menu: Press the RETURN button.

#### The P.B.C. function will not work in the following conditions.

Repeat/programmed/direct play or the skip feature is in operation.

#### Note:

The menu screen cannot be scrolled on some discs.

# To play without activating the playback control function

SVCD VCD

without PB C

You can play a video CD (super video CD) with PB C without activating the playback control function. In this case, the menu screen will not appear, and the disc will play in the same way as a video CD (super video CD)

Whilst in the stop or playback mode. press the MENU/PBC button to cancel the PB C mode

TV screen will show "PBC OFF" then playback will start.



#### Note:

Some video CDs (super video CDs) with PB C, cannot be played back when the P.B.C. mode is off.

# To start playback from the desired point (direct play)

SVCD VCD

# To play by specifying time (time search):

Cancel the P.B.C. (playback control).

1 During stop, press the DIRECT button.

DISC GO TO: --:--

- 2 Specify the time with the Direct Search buttons.
  - Enter minutes and seconds.
  - To specify 1 hour 23 minutes and 40 seconds, enter "8340".
  - If you enter the wrong number, start over from step 1.
  - Playback starts (automatically) after you complete enter the number(s).

#### In the playback mode:

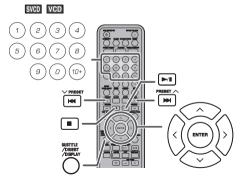
1 Whilst in the playback mode, press the DIRECT button.



- 2 Press ▼ or ▲ button to select "Track Time" then press the ENTER button.
- 3 Specify the time with the Direct Search buttons.
  - To specify 1 hour 23 minutes and 40 seconds, enter "12340".
  - If you enter the wrong number, start over from step 1.
  - Playback starts (automatically) after you complete enter the number(s).
- 4 Press the DIRECT button to return to the actual size of image (standard screen).

- Some discs cannot play from the specified point.
  - Time search feature is disabled on some discs.
- Time search feature is not available on MP3 and JPEG discs.

# Disc digest selection



You can playback a desired track by selecting one from the 6 displayed tracks on the screen.

- 1 During stop mode, press the SUBTITLE/DIGEST/ DISPLAY button.
- 2 Select digest type by using cursor ∧ or ∨ button and then press ENTER button:
  - Track digest (disc will be divided by tracks).
  - Disc Interval (disc will be divided into 10 minutes)
  - Up to 6 tracks will be displayed on the screen. TV screen



3 Press the Direct Search buttons on the remote control to select the desired track Playback will be started from the selected track after

pressing the >/II button. When there are more than 6 tracks on the video CD:

Each press of the ▶ button will display the next 6 tracks. Press the ◄ button to return to the previous display.

# To cancel the disc digest:

Select EXIT and press ENTER button.

# Track digest selection

You can look at the sections and select the scene you want to start watching from. This function is convenient when you want to start from the middle of an undivided track, for example, a movie.

- 1 During playback, press the SUBTITLE/DIGEST/ DISPLAY button.
- 2 Select "Track Interval" by using cursor ∧ or ∨ button and then press ENTER button.
  - The current track will be divided into 10 minutes

The track being played will be divided into 6 sections and playback will be paused.

#### TV screen



3 Press the Direct Search buttons on the remote control to select the scene you want to watch.

Playback will start from the selected scene after pressing the ▶/II button.

# To cancel the track digest operation:

Select EXIT and press ENTER button.

- The track digest function works only during playback.
- One track is divided into six frames of equal playing time

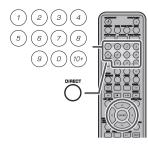
# **CD** operation

This system can play back a standard CD, CD-R/RW in the CD format. but cannot record on them.

Some audio CD-R and CD-RW discs may not be playable due to the state of the disc or the device that was used for recording

The following playback functions are the same as DVD operations

	−age
Playback	15
To locate the beginning of a chapter (track) (skip)	16
Fast forward/Fast backward (search)	16
To play in the desired order (programmed play) .	17
To play repeatedly (repeat play)	19
To play the contents between the specified points	5
repeatedly (A-B repeat)	19
To change the display on TV screen	20



# To start playback from the desired point (direct play)

To select and play the desired track: CD

Whilst in the stop or playback mode, press the Direct Search buttons to select the track number.

To select track 14: Press "10+" and "4".

TV screen	Unit display
SELECT TRACK: 14/30	14 000

#### To play by specifying time (time search): CD

1 During stop or playback mode, press the DIRECT button once and "DISC GO TO" appear on TV screen.

# TV screen DISC GO TO: --:--

- 2 Specify the time with the Direct Search buttons.
  - Enter minutes and seconds.
  - To specify 1 hour 23 minutes and 40 seconds, enter "8340".
  - If you enter the wrong number, start over from step

#### Notes:

- Direct play feature is disabled on some discs.
- Some disc cannot play from the specified point.
- Time search feature is disabled on some discs.

# DivX/MP3/WMA (disc) operation and JPEG (disc/USB video) operation

#### MP3.

MP3 is a form of compression. It is an acronym which stands for MPEG Audio Laver 3.

MP3 is a type of audio code which is processed by significant compression from the original audio source with very little loss in sound quality.

- This system supports MPEG 1 Layer 3 and VBR files.
- During VBR file playback, time counter in the display may differ from its actual playback time.
- Bitrate which is supported by MP3 is 32 ~ 320 kbps.
   WMA:

WMA files are Advanced System Format files that include audio files which are compressed with Windows Media Audio codec. WMA is developed by Microsoft as an audio format file for Windows Media Plaver.

Bitrate which is supported by WMA is 64 ~ 160 kbps.

The following playback functions are the same as DVD or VCD operations.

Pa	age
Playback	15
To locate the beginning of a chapter (track) (skip)	. 16
Fast forward/Fast backward (search)	16
To zoom images (zoom)	18
To play repeatedly (repeat play)	19
To change the display on TV screen	20

# To start playback from the desired point (direct play)

To play by specifying time (time search): DivX

1 During playback, press the DIRECT button twice

# TV screen GO TO \_: \_\_:\_

- 2 Specify the time with the Direct Search buttons.
  - Enter minutes and seconds.
  - To specify 1 hour 23 minutes and 40 seconds, enter "12340".
  - If you enter the wrong number, start over from step 1.
  - You can check the total playback time of the track by refer to the page 20.

#### To select and play the desired track: MP3

1 Whilst in the stop or playback mode, press the Direct Search buttons or press DIRECT button and then enter the desired track number(s).

# TV screen ---/150 † Total of tracks

If the desired track is 25, press "0", "2" and "5",

- 2 Playback will start automatically on selected track. Notes:
  - Direct play feature is disabled on some discs.
  - Some discs cannot play from the specified point.

# DivX/MP3/WMA (disc) operation and JPEG (disc/USB video) operation (continued)

# Playback on the menu screen

MP3 JPEG DivX

You can play CD-R/RW recorded in the MP3/WMA and JPEG formats.

1 Load a disc containing MP3/WMA, JPEG and DivX files, the menu screen appears.

... Indicates folders.

| MB3 | Indicates MP3 data.
| Indicates JPEG data.
| Indicates DivX data.

... Indicates WMA.

- 2 Press the ^ or ∨ button to select a track and press the ENTER or ►/II button.
  - Playback starts when you select a track.
  - When the format is JPEG, the next file is automatically displayed after a whilst. Playback starts when you select a track.
  - You can use the < or > button to rotate the JPEG picture (see page 25).
  - Using the Direct Search buttons, you can open files or folders directly. Enter the number on the right of the display.

#### Caution:

If you convert MP3 data to "audio CD" data to record on a CD-R/RW, play it as an audio CD. The MP3 operation cannot be performed.

#### Notes:

- Up to 20 characters can be displayed for a folder name and a track name. Underlines, asterisks, and spaces may not be displayed.
- This function is only visible when unit is connected to TV.

# ■ To play repeatedly (repeat play)

MP3 JPEG DivX

### Repeat play on the DivX menu screen:

Whilst a disc is playing, press the RANDOM ( $\subset$ ) button. Each time the button is pressed, the repeat play mode changes in the following order.

#### TV screen

"REPEAT ONE"

"REPEAT ONE"

"REPEAT ALL"

"REPEAT ALL"

"RANDOM"

"RANDOM"

"REPEAT OFF"

Repeat the currently playing track.

Repeat all the tracks.

Pandomly repeat play the tracks.

Repeat play is cancelled.

# Repeat play on the JPEG menu screen:

You can play all images in the disc. Playback will stop after complete playback all the images in the disc.

To perform repeat play, press the RANDOM ( $\rightleftharpoons$ ) button whilst in the stop mode. Each time the button is pressed, the play mode changes in the following order:

#### TV screen

"SINGLE" No repeat the currently playing track (image).

"REPEAT ONE" Repeat the currently playing track (image).

"REPEAT ALL" Repeat play all the tracks (images) in the disc

"RANDOM" Randomly repeat play the tracks (images).

"REPEAT OFF" Repeat play is cancelled.

#### Condition B

You can play images after select each folder inside the disc. Whilst in the main menu screen, press the MEMORY button. All the folders will be viewed on the TV screen (folder on). The playback will stop after complete playback all the images in the currently playing folder.

To perform repeat play, press the RANDOM ( $\Leftarrow$ ) button whilst in the stop mode. Each time the button is pressed, the play mode changes in the following order:

# TV screen

↓ ↓	(images)
"REPEAT ONE"	Repeat the currently playing track (image)
"REPEAT FOLDER"	Repeat play all the tracks (images) in the currently playing folder.
"RANDOM"	Randomly repeat play the tracks (images).
–"FOLDER"	Repeat play is cancelled.

No repeat the currently playing track

- To view back the file list, press the MEMORY button whilst in the main menu screen.
- To return to the main menu screen whilst playback, press the MENU/PBC button.

# DivX/MP3/WMA (disc) operation and JPEG (disc/USB video) operation (continued)

#### Repeat play on the MP3/WMA menu screen: Condition A

You can play all songs in the disc. Playback will stop after complete playback all the songs in the disc.

To perform repeat play, press the RANDOM (a) button whilst in the stop mode. Each time the button is pressed. the play mode changes in the following order:

#### TV screen

No repeat the currently playing track "SINGLE" (sona)

'REPEAT ONE" Repeat the currently playing track (song). Repeat play all the tracks (songs) in the

"REPEAT ALL"

Randomly repeat play the tracks (songs). "RANDOM"

"REPEAT OFF" Repeat play is cancelled.

#### Condition B

You can play songs after select each folder inside the disc. Whilst in the main menu screen, press the MEMORY button. All the folders will be viewed on the TV screen (folder on). The playback will stop after complete playback all the songs in the currently playing folder.

To perform repeat play, press the RANDOM (a) button whilst in the stop mode. Each time the button is pressed. the play mode changes in the following order:

#### TV screen

No repeat the currently playing track r> "SINGLE" (song)

Repeat the currently playing track (song) "REPEAT ONE"

Repeat play all the tracks (songs) in "REPEAT FOLDER" the currently playing folder

Randomly repeat play the tracks "RANDOM"

(sonas) Repeat play is cancelled.

Note:

FOLDER"

To view back the file list, press the MEMORY button whilst in the main menu screen.

After performing repeat or random, be sure to press the button. Otherwise, it will play continuously.

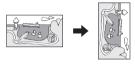
#### Rotating a picture

.IPEG

You can rotate images.

## During playback, press the < or > button. The image rotates as shown below.

> button: 90° rotation in a clockwise direction.



< button: 90° rotation in an anti-clockwise direction.



# Simultaneously playback the MP3 and JPEG

#### DVD CD

You can enjoy to see images of JPEG files whilst listening to the musics of MP3 at the same time.

- Playback the desired songs.
- 2 Press MENU/PBC button to return to the main menu.
- 3 Select JPEG folder using ∧ or ∨ button.
- 4 Select the images or pictures those you want to view.
- 5 Press the ENTER button

#### Notes:

- Whilst playing the images, you can not select the MP3/WMA folder or files
- JPEG maximum resolution is 10Mbytes of file size.

# Random play (REMOTE CONTROL ONLY)

The tracks/images on the disc(s) can be played in random order automatically

#### To random play all tracks/images:

During stop mode, press the RANDOM (←) button to select "RANDOM" then press ▶/II button to play.

To cancel random playback, press the RANDOM (c) button repeatedly until "REPEAT OFF" / "FOLDER" appear.

#### Notes:

- Playback will stop after all the tracks is played randomly
- In random play, the unit will select and play tracks automatically. (You cannot select the order of the tracks.)
- During random play, repeat function is not possible.

#### Note:

(X) When in folder mode, the selected playmode can be used for the files in the selected folder only.

- This unit only supports "MPEG-1 Audio Layer-3" format. (Sampling Frequency is 32, 44.1, 48kHz).
- "MPEG-2 Audio Laver-3". "MPEG-2.5 Audio Laver-3" and MP1, MP2 format are not supported.
- Playback order for MP3 files may differ sometimes depending on the writing software used during file downloading.
- Bitrate which is supported by MP3 is 32~320 kbps. WMA is 64~160 kbps.
- For MP3/WMA files, please put ".MP3" ".WMA" extension. Files cannot be played back if there is no MP3/WMA extension.
- The display playback time may not be displayed correctly when playing back a variable bitrate file.
- Copyright protected WMA files cannot be played back.

# MP3/WMA folder mode (disc) operation

#### To play back MP3/WMA (Windows Media Audio) file

There are many music sites on the internet that you can download MP3/WMA (Windows Media Audio) music files. Follow the instructions from the website on how to download the music files.

You can then play back these downloaded music files by burning them to a CD-R/RW disc.

Your downloaded song/files are for personal use only.
 Any other usage of the song without owner's permission, is against the law.

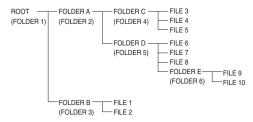
# About folder playback order

If MP3/WMA files are recorded in several folders, a folder number will be set to each folder automatically.

These folder can be selected by the ∧ or ∨ button on the remote control. If there is not supported file formats inside the selected folder, the folder is skipped and the next folder will be selected.

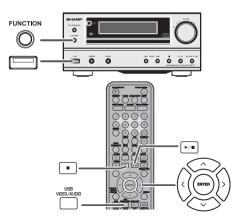
Example: How to set folder number if MP3/WMA format files are recorded as below figure.

- 1 ROOT folder is set as folder 1.
- 2 As for folders inside ROOT folder (Folder A and Folder B), the folder which is recorded earlier on the disc will be set as folder 2 and folder 3.
- 3 As for folder inside Folder A (Folder C and Folder D), the folder which is recorded earlier on the disc will be set as folder 4 and folder 5
- 4 Folder E that is inside Folder D will be set as folder 6.
- The folder and file order information which is recorded on the disc depends on the writing software. There maybe possibilities that this unit will playback the files not according to our expected playback order.
- For CD MP3/WMA, 255 numbers of folders and files inclusive of the folders which have non playable files can be read.



- 5 Press the A or V button on the remote control to select the desired playback folder and track.
  - To start playback with folder mode, press the MEMORY button to view Folder mode.
  - To change the playback folder, press the < key to go root folder then select another folder. You can also do this by going to the ".." folder at the top, then press ENTER.
- 6 Press the ►/II or ENTER button and playback will start.

# MP3/WMA playback (USB Audio Function)

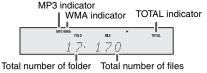


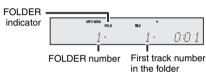
#### Notes:

- This USB mass storage device or MP3 player is not compatible with MTP and AAC file systems.
- Some external storage devices may not operate with this system.
- Operation of external storage devices (USB memory devices, external hard disks, etc.) is nor guaranteed.

# To playback USB/MP3 player with folder mode on

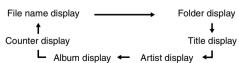
- 1 Press the USB VIDEO/AUDIO button on the remote control or FUNCTION button repeatedly on main unit to select USB Audio function. Connect the USB memory device that has MP3/WMA format files on the unit. When the USB memory is connected to the main unit, the device information will be displayed.
- 2 Press the MEMORY button to view FOLDER mode and press the ∨ or ∧ button to select desired playback folder. To start playback with folder mode on, go to step 4. To change the playback folder, press the ∨ or ∧ button to select another folder.





# MP3/WMA playback (USB Audio Function) (continued)

- 4 Press the ►/II (CD/USB ►/II) button. Playback will start and file name will be displayed.
  - Title. Artist and Album name are displayed if they are recorded on the disc
  - In case of playback with the folder mode on, press the PRESET ( v or ^) button, and the folder can be selected even though it is in playback/pause mode. It will continue playback/pause mode in the 1st track of the selected folder
  - Display content can be changed by pressing the SUBTITLE/DIGEST/DISPLAY button.



#### Note:

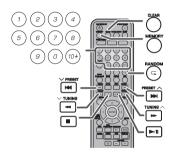
If "Not Supported" is displayed, it means "Copyright protected WMA file" or "Not supported playback file" is selected

# To playback USB/MP3 player with folder mode off

1 Press the USB VIDEO/AUDIO button on the remote control or FUNCTION button repeatedly on main unit to select USB Audio function. Connect the USB memory device that has MP3/WMA format files on the unit. When the USB memory is connected to the main unit. the device information will be displayed.



- 2 Select desired file to be played back by pressing the Idd ad or bb bbi button.
- 3 Press the ▶/II (CD/USB ▶/II) button. Playback will start and the file name will be displayed.
  - Title, Artist and Album name are displayed if they are recorded in the USB memory device.
  - Display content can be changed by pressing the SUBTITLE/DIGEST/DISPLAY button.



# Various functions

Function	Main unit	Remote control	Operation
Play	Ö	<b>▶</b> /II	Press in the stop mode.
Stop	Ö		Press in the playback mode.
Pause	<b>*</b>	<b>▶</b> /II	Press in the playback mode. Press the ►/II button to resume playback from the paused point.
Track up/ down	ÖÖ	PREDET PREDET A	Press in the playback or stop mode. If you press the button in the stop mode, press the ►/II button to start the desired track.
Fast forward/ reverse	ÖÖ	VTUNING TUNING A	Press and hold down in the playback mode. Release the button to resume playback.

#### Direct track search

By using the Direct Search, the desired tracks on the current disc can be played. Use the Direct Search on the remote control to select

the desired track whilst playing the selected disc.

- The Direct Search buttons allow you to select up to number 9.
- When selecting number 10 or higher, use the "10+" button

#### A. For example, to choose 13

1 Press the "10+" button once.

2 Press the "1" button.

Selected track number

#### B. For example, to choose 130

- 1 Press the "10+" button twice.
- 2 Press the "1" button.

3 Press the "3" button.

- 3 Press the "3" button.
- 4 Press the "0" button.

- A track number higher than the number of tracks on the disc cannot be selected.
- During random play, direct search is not possible.

### ■ Repeat play

Repeat play can play one track, all tracks or a programmed sequence continuously.

# To repeat one track:

Press the RANDOM → button repeatedly until "Repeat One" appears. Press the ►/II (CD/USB ►/II) button.

# To repeat all tracks:

Press the RANDOM ← button repeatedly until "Repeat All" appears. Press the ►/॥ (CD/USB ►/॥) button.

#### To repeat desired tracks:

Perform steps 1 - 5 in "Programmed play" section on page 28 and then press the RANDOM Sutton repeatedly until "Repeat All" appears.

#### To cancel repeat play:

Press the RANDOM ← button repeatedly until "Normal" appears and "←" disappears.



#### Caution:

After performing repeat play, be sure to press the 
 (CD/USB ■) button. Otherwise, the disc will play continuously.

# ■ Random play

The tracks on the disc can be played in random order automatically.

#### To random play all tracks:

Press and hold the RANDOM ← button on the remote control until "Random" appears. Press the ►/II button.

# To cancel random play:

Press and hold the RANDOM → button until "RDM" indicator disappear.



#### Notes:

- If you press the >>I button during random play, you can move to the track selected next by the random operation. On the other hand, the button does not allow you to move to the previous track. The beginning of the track being played will be located.
- In random play, the unit will select and play tracks automatically. (You cannot select the order of the tracks.)

# Programmed play (MP3/WMA)

1 Whilst in the stop mode, press and hold the MEMORY button to enter the programming save mode.



2 Press cursor v or h button on the remote control to select the desired folder



Then press the I◄◄ or ►►I button on the remote control to select the desired tracks.



- 3 Press the MEMORY button to save the folder and track number
- **4** Repeat steps 2 3 for other folder/tracks. Up to 32 tracks can be programmed.
- 5 Press the ►/II button to start playback.

#### To cancel the programmed play mode:

During programmed stop mode, press the ■ button. The display will show "Memory Clear" and all the programmed contents will be cleared.

# Adding tracks to the programme:

If a programme has been previously stored, the "MEM" indicator will be displayed. Press and hold MEMORY button, and then press MEMORY button repeatedly to go to the last programme memory. Then follow steps 2 - 3 to add tracks. The new tracks will be stored after the last track of the previous programme.

#### Noto:

During the programme operation, random play is not possible.

# MP3/WMA playback (USB Audio Function) (continued)

# I To remove USB memory device

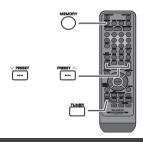
- 1 Press the button.
- 2 Disconnect USB memory device from the USB terminal.



- SHARP will not be held liable for the loss of data whilst the USB memory device is connected to the audio system.
- Files compressed in MP3 and/or WMA format can be played back when connected to the USB terminal.
- This USB memory's format supports FAT 16 or FAT 32.
- SHARP cannot guarantee that all USB memory devices will work on this audio system.
- USB cable is not recommended for use in this audio system to connect to USB memory device. Use of the USB cable will affect the performance of this audio system.
- This USB memory cannot be operated via USB hub.
- The USB terminal in this unit is not intended for a PC connection but is used for music streaming with a USB memory device.
- External HDD-storage cannot be played back via USB terminal.
- This unit only supports "MPEG-1 Audio Layer-3" format. (Sampling Frequency is 32 kHz, 44.1 kHz, 48 kHz)

- Playback order for MP3 files may differ depending on the writing software used during file download.
- Bitrate which is supported by MP3 is 32 kbps to 320 kbps. WMA is 64 kbps to 160 kbps.
- For MP3/WMA files, please put ".MP3" ".WMA" extension. Files cannot be played back if there is no MP3/WMA extension.
- Playlist are not supported on this unit.
- This unit can display Folder Name or File Name up to 32 characters.
- Maximum total number of MP3/WMA files is 1024.
- Maximum total number of folders is 255 inclusive of root directory.
- The display playback time may not be displayed correctly when playing back a variable bitrate file.
- The ID3TAG information supported are TITLE, ARTIST and ALBUM only. Title name, artist name and album name can be displayed by pressing the SUBTITLE/ DIGEST/DISPLAY button during file playback or pause mode.
- WMA meta tag also supports title, artist and album name which are recorded in WMA files. Copyright protected WMA files cannot be played back.





# Tuning

- 1 Press the ON/STAND-BY button to turn the power on.
- 2 Press the TUNER button repeatedly to select FM Stereo or FM Mono.
- 3 Press the TUNING (◄ or ►) button on the remote control to tune in to the desired station.
  - Manual tuning:

Press the TUNING (◄◄ or ►►) button repeatedly to tune in to the desired station.

Auto tunina:

When the TŪNING (◄ or ►►) button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

#### Notes:

- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING (◄◄ or ►►) button again.
- When an RDS (Radio Data System) station is tuned in, the frequency will be displayed first, and then the RDS indicator will light up. Finally, the station name will appear.
- Full auto tuning can be achieved for RDS stations "ASPM", see page 31.

#### To receive an FM stereo transmission:

- Press the TUNER button to select stereo mode and "ST" indicator will be displayed. "▶•◄" and "•" will appear when an FM broadcast is in stereo.
- If the FM reception is weak, press the TUNER button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

# Memorising a station

You can store 40 FM stations in memory and recall them at the push of a button. (Preset tuning)

- 1 Perform steps 1 3 in "Tuning".
- 2 Press the MEMORY button



- 3 Within 30 seconds, press the PRESET (∨ or ∧) button to select the preset channel number. Store the stations in memory, in order, starting with preset channel 1.
- 4 Within 30 seconds, press the MEMORY button to store that station in memory. If the "MEMORY" and preset number indicators disappear before the station is memorised, repeat the operation from step 2.
- 5 Repeat steps 1 4 to set other stations, or to change a preset station. When a new station is stored in the memory, the station previously memorised for that preset channel number will be erased.

#### Note:

The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead become disconnected

# ■ To recall a memorised station

1 Press the PRESET ( or ^) button for less than 0.5 seconds to select the desired station.

# ■ To scan the preset stations

The stations saved in the memory can be scanned automatically. (Preset memory scan)

- 1 Press the PRESET ( v or ^) button for more than 0.5 seconds. The preset number will flash and the programmed stations will be tuned in sequentially, for 5 seconds each.
- 2 Press the PRESET ( or A) button again when the desired station is located.

#### To erase entire preset memory

- 1 Press the TUNER button on remote control or press the FUNCTION button on main unit repeatedly to select Tuner function.
- 2 In Tuner function, press the CLEAR button until "Tuner Clear" appears.



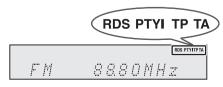
# Using the Radio Data System (RDS)

RDS is a broadcasting service which a growing number of FM stations provide. These FM stations send additional signals along with their regular programme signals. They send their station names, and information about the type of programme such as sport, music, etc.

When tuned to an RDS station, "RDS" and the station name will be displayed.

"TP" (Traffic Programme) will appear on the display when the received broadcast carries traffic information, and "TA" (Traffic Announcement) will appear whilst a traffic information is on air.

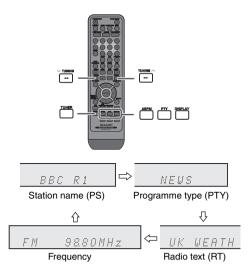
"PTYI" (Dynamic PTY Indicator) will appear whilst the Dynamic PTY station is received.



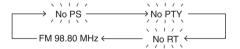
You can control the RDS by using the buttons on the remote control only.

# Information provided by RDS

Each time the RDS DISPLAY button is pressed, the display will switch as follows:



When tuning in to a station other than an RDS station or to an RDS station which sends weak signal, the display will change in the following order:



# Using the Auto Station Programme Memory (ASPM)

Whilst in the ASPM operation mode, the tuner will automatically search for new RDS stations. Up to 40 stations can be stored

If you have already stored some stations in memory, the number of new stations you can store will be less.

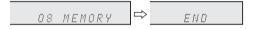
- 1 Press the TUNER button on the remote control or FUNCTION button repeatedly on the main unit to select TUNER function
- 2 Press and hold down the RDS ASPM button on the remote control.
  - 1 After "ASPM" has flashed for about 4 seconds, scanning will start (87.50 108.00 MHz).



When an RDS station is found, "RDS" will appear for a short time and the station will be stored in memory.



3 After scanning, the number of stations stored in memory will be displayed for 4 seconds, and then "END" will appear for 4 seconds.



# To stop the ASPM operation before it is complete:

Press the RDS ASPM button whilst it is scanning for stations. The stations which are already stored in memory will be kept there.

- If the same station is broadcasting on different frequencies, the strongest frequency will be stored in memory.
- Any station which has the same frequency as the one stored in memory will not be stored.
- If 40 stations have already been stored in memory, the scan will be aborted. If you want to redo the ASPM operation, erase the preset memory.
- If no station have been stored in memory, "END" will appear for about 4 seconds.
- If the RDS signals are very weak, station names may not be stored in memory.
- The same station name can be stored in different channels.
- In a certain area or during certain time periods, the station names may temporarily be different.

# Notes for RDS operation

If any of the following events occur, it does not mean that the unit is faulty:

- "PS", "No PS" and a station name appear alternately, and the unit does not operate properly.
- If a particular station is not broadcasting properly or a station is conducting tests, the RDS reception function may not work properly.
- When you receive an RDS station whose signal is too weak, information like the station name may not be displayed.
- "No PS", "No PTY" or "No RT" will flash for about 5 seconds, and then the frequency will be displayed.

#### Notes for radio text:

- The first 14 characters of the radio text will appear for 4 seconds and then they will scroll across the display.
- If you tune in to an RDS station which is not broadcasting any radio text, "No RT" will be displayed when you switch to the radio text position.
- Whilst radio text data is received or when the text contents change, "RT" will be displayed.

# ■ To recall stations in memory

# To specify programmed types and select stations (PTY search):

You can search a station by specifying the programme type (news, sports, traffic programme, etc. ... see page 32 - 33) from the stations in memory.

- 1 Press the TUNER button on the remote control or FUNCTION button repeatedly on the main unit to select TUNER function.
- 2 Press the RDS PTY button on the remote control.





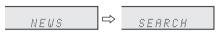
"SELECT" and "PTY TI" will appear alternately for about 6 seconds.

3 Within 6 seconds, press the ◄ or ►► button to select the programme type.



Each time the button is pressed, the programme type will appear.

4 Whilst the selected programme type is flashing (within 6 seconds), press the RDS PTY button again.



After the selected programme type has been lit for 2 seconds, "SEARCH" will appear, and the search operation will start.

#### Notes:

- If the display has stopped flashing, start again from step 2. If the unit finds a desired programme type, the corresponding channel number will lit for about 8 seconds, and then the station name will remain it.
- If you want to listen to the same programme type of another station, press the RDS PTY button whilst the channel number or station name is flashing. The unit will look for the next station.
- If no station can be found, "NOT FOUND" will appear for 4 seconds.

#### If you select the traffic programme:

If you select the traffic programme (TP) in step 3, "TP" will appear.

(This does not mean that you can listen to the traffic information at that time.)

When the traffic information is broadcast, "TA" will appear.

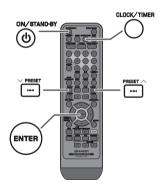
Descriptions of the PTY (Programme Type) codes, TP (Traffic Programme) and TA (Traffic Announcement) You can search for and receive the following PTY, TP and TA sinnals

TA signals.	-
NEWS	Short accounts of facts, events and publicly expressed views, reportage and actuality.
AFFAIRS	Topical programme expanding or enlarging upon the news, generally in different presentation style or concept, including debate, or analysis.
INFO	Programmes whose purpose is to impart advice in the widest sense.
SPORT	Programme concerned with any aspect of sport.
EDUCATE	Programme intended primarily to educate, of which the formal element is fundamental.
DRAMA	All radio plays and serials.
CULTURE	Programmes concerned with any aspect of national or regional culture, including language, theatre, etc.
SCIENCE	Programmes about the natural sciences and technology.
VARIED	Used for mainly speech-based programmes usually of light-entertainment nature, not covered by other categories. Examples include: quizzes, panel games, personality interviews.
POP M	Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.
ROCK M	Contemporary modern music, usually written and performed by young musicians.
EASY M	Current contemporary music considered to be "easy-listening", as opposed to Pop, Rock or Classical, or one of the specialised music styles, Jazz, Folk or Country. Music in this category is often but not always, vocal, and usually of short duration.
LIGHT M	Classical music for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.
CLASSICS	Performances of major orchestral works, symphonies, chamber music, etc., and including Grand Opera.

# Using the Radio Data System (RDS) (continued)

T	
OTHER M	Musical styles not fitting into any of the other categories. Particularly used for specialist music of which Rhythm & Blues and Reggae are examples.
WEATHER	Weather reports and forecasts and meteorological information.
FINANCE	Stock Market reports, commerce, trading, etc.
CHILDREN	For programmes targeted at a young audience, primarily for entertainment and interest, rather than where the objective is to educate.
SOCIAL	Programmes about people and things that influence them individually or in groups. Includes: sociology, history, geography, psychology and society.
RELIGION	Any aspect of beliefs and faiths, involving a God or Gods, the nature of existence and ethics.
PHONE IN	Involving members of the public expressing their views either by phone or at a public forum.
TRAVEL	Features and programmes concerned with travel to near and far destinations, package tours and travel ideas and opportunities. Not for use for announcements about problems, delays, or roadworks affecting immediate travel where TP/TA should be used.
LEISURE	Programmes concerned with recreational activities in which the listener might participate. Examples include, Gardening, Fishing, Antique collecting, Cooking, Food & Wine, etc.
JAZZ	Polyphonic, syncopated music characterised by improvisation.
COUNTRY	Songs which originate from, or continue the musical tradition of the American Southern States. Characterised by a straightforward melody and narrative story line.
NATION M	Current Popular Music of the Nation or Region in that country's language, as opposed to International "Pop" which is usually US or UK inspired and in English.
OLDIES	Music from the so-called "golden age" of popular music.
FOLK M	Music which has its roots in the musical culture of a particular nation, usually played on acoustic instruments. The narrative or story may be based on historical events or people.
DOCUMENT	Programme concerned with factual matters, presented in an investigative style.
TEST	Broadcast when testing emergency broadcast equipment or receivers.
ALARM	Emergency announcement made under exceptional circumstances to give warning of events causing danger of a general nature.
TP	Broadcasts which carry traffic announcements.
TA	Traffic announcements are being broadcast.

# Timer and sleep operation (Remote control only)



# Timer playback:

The unit turns on and plays the desired source (DVD, TUNER, USB AUDIO, USB VIDEO, AUDIO IN, LINE IN) at a preset time.

# This unit has 2 types of timer: ONCE TIMER and DAILY TIMER.

#### Once timer:

Once timer play works for one time only at a preset time. ("②" indicator).

#### Daily timer:

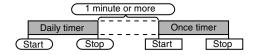
Daily timer play works at the same preset time every day that we set. For example, set the timer as a wake-up call every morning.

("DAILY" indicator).

# **Using the once timer and daily timer in combination:** For example, use the once timer to listen a radio

programme, and use the daily timer to wake up.

- 1 Set the daily timer (page 34).
- 2 Set the once timer (page 34).



### ■ Timer playback

# Before setting timer:

- Check that the clock is set to the correct time (refer to page 15). If it is not set, you cannot use the timer function.
- For timer playback: Plug in USB or load discs to be played.



- 1 Press the ON/STAND-BY button to turn the power on.
- 2 Press and hold the CLOCK/TIMER button
- **3** Within 10 seconds, press the I◄◄ or ▶►I button to select "Once" or "Daily", and press the ENTER button.
- 4 Within 10 seconds, press the I◄◄ or ▶►I button to select "Timer Set", and press the ENTER button.
- 5 To select the timer playback source (DISC, TUNER, USB VIDEO/AUDIO, AUDIO IN, LINE IN), press the I◄◄ or ►>I button. Press the ENTER button. When you select the tuner, select a station by pressing the I◄◄ or ►>I button, and then press the ENTER button. If a station has not been programmed, "No Preset" will be displayed and timer setting will be cancelled.
- 6 To adjust the day, press the I◄◄ or ►►I button and then press the ENTER button.
- 7 Press the ENTER button to adjust the hour. Press the l◄ or ▶▶ button and then press the ENTER button.
- 8 To adjust the minutes, press the I◄◄ or ►►I button and then press the ENTER button.
- 9 Set the time to finish as in steps 7 and 8 above.
- 10 Adjust the volume using the VOLUME control, and then press the ENTER button. Do not turn the volume up too high.
- 11 Press the ON/STAND-BY button to enter the power stand-by mode. The "TIMER" indicator lights up and the unit is ready for timer playback.



12 When the preset time is reached, playback will start. The volume will increase gradually until it reaches the preset volume. The timer icon will blink during timer playback. 13 When the timer end time is reached, the system will enter the power stand-by mode automatically.

# Once timer:

The timer will be cancelled.

#### Daily timer:

The timer operates at the same time every day. It will continue until the daily timer setting is cancelled. Cancel the daily timer when it is not in use.

#### Notes:

- When performing timer playback using external unit connected to the USB terminal or AUDIO IN jack or "LINE IN" connector, select related source in step 5.
- This unit will turn on or enter the power stand-by mode automatically. However, the connected unit will not turn on or off. To stop the timer playback, follow step "Cancelling the timer setting" of this page.

### Checking the timer setting:

- 1 Turn the power on and press and hold down the CLOCK/TIMER button.
- 2 Within 10 seconds, press the I◄◄ or ►►I button to select "Once" or "Daily", and press the ENTER button.
- 3 Within 10 seconds, press the I◄◄ or ►►I button to select "Timer Call". and press the ENTER button.

#### Cancelling the timer setting:

- 1 Turn the power on and press and hold down the CLOCK/TIMER button.
- 2 Within 10 seconds, press the I◀ or ►►I button to select "Once" or "Daily", and press the ENTER button.
- 3 Within 10 seconds, press the I◄◄ or ►►I button to select "Timer Off", and press the ENTER button. Timer will be cancelled (the setting will not be cancelled).

#### Reusing the memorised timer setting:

The timer setting will be memorised once it is entered. To reuse the same setting, perform the following operations.

- 1 Turn the power on and press and hold down the CLOCK/TIMER button.
- 2 Within 10 seconds, press the I◄◄ or ►►I button to select "Once" or "Daily", and press the ENTER button.
- 3 Within 10 seconds, press the I◄ or ►►I button to select "Timer On", and press the ENTER button.
- 4 Press the ON/STAND-BY button to enter the power stand-by mode.

# Timer and sleep operation (Remote control only) (continued)

# Sleep operation

The tuner, DISC, USB, Audio In and Line In can all be turned off automatically.

- 1 Play back the desired sound source.
- 2 Press the SLEEP button.
- **3** Within 5 seconds, press the Direct Search button to set the time. (1 minute ~ 99 minutes)
- 4 "SLEEP" will appear.
- 5 The unit will enter the power stand-by mode automatically after the preset time has elapsed.

#### To confirm the remaining sleep time:

1 Whilst "SLEEP" is indicated, press the SLEEP button.

#### To cancel the sleep operation:

Press the ON/STAND-BY button whilst "SLEEP" is indicated. To cancel the sleep operation without setting the unit to the stand-by mode, proceed as follows.

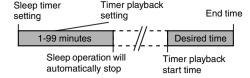
- 1 Whilst "SLEEP" is indicated, press the SLEEP button.
- 2 Within 5 seconds, press the "0" button twice until "SLEEP 00" appears.

# ■ To use timer and sleep operation together

# Sleep and timer playback:

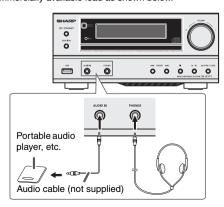
For example, you can fall asleep listening to the radio and wake up to CD in the next morning.

- 1 Set the sleep time (see above, steps 1 5).
- 2 Whilst the sleep timer is set, set the timer playback (steps 2 9, page 34).



# Enhancing your system

The connection lead is not included. Purchase a commercially available lead as shown below



# Listening to the playback sounds of portable audio player, etc.

- 1 Use a connection lead to connect the portable audio player etc. to the AUDIO IN socket. When using video equipment, connect the audio output to this unit and the video output to a television.
- 2 Press the ON/STAND-BY button to turn the power on.
- 3 Press the AUDIO/LINE (INPUT) button on the remote control or FUNCTION button repeatedly on main unit to select AUDIO IN function.
- 4 Play the connected equipment. If volume level of the connected device is too high, sound distortion may occur. Should this happen, lower the volume of the connected device. If volume level is too low, increase the volume of the connected device.

#### Note:

To prevent noise interference, place the unit away from the television.

# ■ Headphones

- Do not turn the volume on to full at switch on and listen to music at moderate levels. Excessive sound pressure from earphones and headphones can cause hearing loss.
- Before plugging in or unplugging the headphone, reduce the volume.
- Be sure your headphone has a 3.5 mm (1/8") diameter plug and impedance between 16 and 50 ohms. The recommended impedance is 32 ohms.
- Plugging in the headphone disconnects the speakers automatically. Adjust the volume using the VOLUME control.

# Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.

If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

#### ■ General

Symptom	Possible cause
The clock is not set to the correct time.	Did a power failure occur?     Reset the clock. (Refer page 15)
When a button is pressed, the unit does not respond.	<ul> <li>Set the unit to the power stand-by mode and then turn it back on.</li> <li>If the unit still malfunctions, reset it. (Refer page 37)</li> </ul>
No sound is heard.	<ul> <li>Is the volume level set to "Min"?</li> <li>Are the headphones connected?</li> <li>Are the speaker wires disconnected?</li> </ul>

# ■ DVD/CD player

Symptom	Possible cause	
Playback does not start.     Playback stops in the middle or is not performed properly.	<ul> <li>Is the disc loaded upside down?</li> <li>Does the disc satisfy the standards?</li> <li>Is the disc distorted or scratched?</li> </ul>	
Playback sounds are skipped, or stopped in the middle of a track.	<ul> <li>Is the unit located near excessive vibrations?</li> <li>Is the disc very dirty?</li> <li>Has condensation formed inside the unit?</li> </ul>	

# ■ Remote control

Symptom	Possible cause
The remote control does not operate.	<ul> <li>Is the AC power lead of the unit plugged in?</li> <li>Is the battery polarity correct?</li> <li>Are the batteries dead?</li> <li>Is the distance or angle incorrect?</li> <li>Does the remote control sensor receive strong light?</li> </ul>

# Tuner

Symptom	Possible cause
The radio makes unusual noises continuously.	<ul> <li>Is the unit placed near the TV or computer?</li> <li>Is the FM aerial placed properly? Move the aerial away from the AC power lead if it is located nearby.</li> </ul>

# ■ USB

Symptom	Possible cause
Device cannot be detected.	<ul> <li>Is there any MP3/WMA file available?</li> <li>Is the device properly connected?</li> <li>Is it an MTP device?</li> <li>Does the device contain AAC file only?</li> </ul>
<ul> <li>Playback does not start.</li> </ul>	<ul><li>Is it a copyright protected WMA file?</li><li>Is it a false MP3 file?</li></ul>
<ul><li>Wrong time display.</li><li>Wrong file name display.</li></ul>	<ul> <li>Is Variable Bitrate file being played back?</li> <li>Is the File Name written in Chinese or Japanese characters?</li> </ul>

# ■ TV Output

	T
Symptom	Possible cause
No picture from S VIDEO or Component output	The VIDEO OUT setting may be wrong.  Use the provided video cable and check the VIDEO OUT setting in Setup menu. (refer page 11)  Press and hold VIDEO MODE button to change the Video Out setting.
No picture from HDMI output	The Resolution setting may be wrong.  Use the provided video cable and check the RESOLUTION setting in Setup menu. (refer page 11)  Press and hold ANGLE button to reset the resolution to default setting.
TV output is distorted	The TV type may be wrong  Use the provided video cable and check the TV TYPE setting in Setup menu. (refer page 11)  Press and hold ZOOM button on the remote control to change TV Mode setting.

# ■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, etc.) or on the transmitter on the remote control. Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

#### If problem occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

#### If such a problem occurs, do the following:

- 1 Set the unit to the stand-by mode and turn the power on again.
- 2 If the unit is not restored in the previous operation, unplug and plug in the unit again, and then turn the power on.

#### Note:

If neither operation above restores the unit, clear all the memory by resetting it.

### ■ Factory reset, clearing all memory

#### For others function:

- 1 Press the ON/STAND-BY button to turn the power on.
- 2 Press the AUDIO/LINE (INPUT) button on the remote control or FUNCTION button repeatedly on the main unit to select LINE IN function.
- 3 In LINE IN function, press the I◄ button on the main unit then press and hold the button until "RESET" appears.



#### For disc/USB Video function:

Please refer "Changing the Setup Menu" on page 12.

Preference page → Default → Reset

#### Caution:

This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

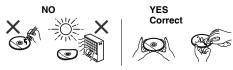
# Before transporting the unit

Remove the USB memory device and disc from the unit. Then, set the unit to the power stand-by mode. Carrying the unit with USB memory device left connected or discs left inside might damage the unit.

# ■ Care of compact discs

Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your CD collection and player

- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.



### Maintenance

# Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

#### Caution:

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet.
- Do not apply oil to the inside of the unit. It may cause malfunctions

# **Specifications**

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

# ■ General

Power source	AC 220 - 240 V ~ 50/60 Hz	
Power consumption	Power on: 50 W Power stand-by: 0.4 W (*)	
Dimensions	Width: 215 mm (8 - 1/2") Height: 96 mm (3 - 4/5") Depth: 335 mm (13 - 1/5")	
Weight	3.5 kg (7.7 lbs.)	

(\*) This power consumption value is obtained when the demonstration mode is cancelled in the power stand-by mode. Refer to page 7 to cancel the demonstration mode.

# ■ Amplifier

Output power	PMPO: 180 W MPO: 90 W (45 W + 45 W) (10% T.H.D.) RMS: 60 W (30 W + 30 W) (10% T.H.D.) RMS: 50 W (25 W + 25 W) (1% T.H.D.)	
Output terminals	Speakers: 4 ohms 20Hz - 20kHz Video output: 1 Vp-p Headphones: 16 ohms (recommended: 32 ohms)	
Input terminals	Audio In (audio signal): 500 mV/47 k ohms Line in (Analogue input): 500 mV/47 k ohms	

# ■ DVD player

	1	
Signal system	PAL/NTSC colour	
Supported disc types	DVD (with the same region number on the back of the unit), SVCD, VCD, audio CD, CD-R, CD-RW, JPEG, DivX (version 3.0)	
Video signal	Horizontal resolution: 500 lines S/N ratio: 70 dB	
Audio signal	Frequency characteristic	Linear PCM DVD: 20 Hz to 20 kHz (sampling rate: 48 kHz) 20 Hz to 20 kHz (sampling rate: 96 kHz) CD: 20 Hz to 20 kHz
	S/N radio	CD: 94 dB (1 kHz)
	Dynamic range	Linear PCM DVD: 95 dB CD: 94 dB
	Total harmonic distortion ratio	0.01% maximum

# ■ Video Section

Signal level	Composite: 1 Vp-p (75 ohms) S-video: Y: 1 Vp-p (75 ohms) C: 0.286 Vp-p (75 ohms) Component Video: Y: 1.0 Vp-p (75 ohms) Pb, Pr: 0.7 Vp-p (75 ohms)
HDMI™ terminal	Type A (19-pin)

# ■ USB

USB host interface	Complies with USB 1.1 (Full Speed)/2.0 Mass Storage Class.     Support Bulk only and CBI protocol.
Support file	<ul><li>MPEG 1 Layer 3</li><li>WMA (Non DRM)</li><li>JPEG image (USB Video only)</li></ul>
Bitrate support	<ul><li>MP3 (32 ~ 320 kbps)</li><li>WMA (64 ~ 160 kbps)</li></ul>
Other	Maximum total number of MP3/WMA files is 1024.     Maximum total number of folders is 255 INCLUSIVE of root directory.     The ID3TAG information supported are TITLE, ARTIST and ALBUM only.     Supports ID3TAG version 1 and version 2.
File system support	<ul> <li>Support USB devices with Microsoft Windows/DOS/FAT 12/ FAT 16/ FAT 32.</li> <li>2 kbyte block length for sector.</li> </ul>

# ■ Tuner

Frequency range	FM: 87.5 - 108 MHz
Preset	40 (FM station)

# ■ Speaker

Туре	2-way type speaker system 5 cm (2") Tweeter 10 cm (4") woofer
Maximum input power	60 W
Rated input power	30 W
Impedance	4 ohms
Dimensions	Width: 132 mm (5-3/16") Height: 260 mm (10-5/16") Depth: 175 mm (6-59/64")
Weight	2.0 kg (4.4 lbs.)/each