

Pioneer *sound.vision.soul*

Stereo Cassette Deck Receiver

XV-EV500

XV-EV700

XV-EV1000

Speaker System

S-EV500V

S-EV700V

S-EV1000V



Operating Instructions

RW
COMPATIBLE

IMPORTANT



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

D3-4-2-1-1_En-A

CAUTION

This product is a class 1 laser product, but this product contains a laser diode higher than Class 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel. The following caution label appears on your unit.

Location: bonnet of the unit

Taiwan model

CAUTION : VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.

注意 : 若打開會發生可見和不可見的雷射輻射，請勿受輻射。

VRW1961

All other models

CAUTION : VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
VORSICHT : SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG. WENNABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN!
ADVARSEL : SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNGDÅ UDSÆTTELSE FOR STRÅLING.
VARNING : SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRÄKTA EJ STRÅLEN.
VARO! : AVATTAESSÄ ALTISTUT NÄKYVÄ JA NÄKYMÄTTÖMÄLLÄ LASERSATEIL YLLÄ. ÄLÄ KÄTSÖ SATEESEN.
CUIDADO : RADIACION LASER VISIBLE E INVISIBLE AL ESTAR ABIERTO. EVITAR EXPOSICION AL RAYO.

VRW1972

Location: rear of the unit

**CLASS 1
LASER PRODUCT**

D3-4-2-1-8_A_En

WARNING

This equipment is not waterproof. To prevent a fire or shock hazard, do not place any container filled with liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture.

D3-4-2-1-3_A_En

WARNING

Before plugging in for the first time, read the following section carefully.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., 230V or 120V) written on the rear panel.

D3-4-2-1-4_A_En

WARNING

To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment.

D3-4-2-1-7a_A_En

Operating Environment

Operating environment temperature and humidity: +5 °C – +35 °C (+41 °F – +95 °F); less than 85 %RH (cooling vents not blocked)

Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light)

D3-4-2-1-7c_A_En

This product complies with the Low Voltage Directive (73/23/EEC, amended by 93/68/EEC), EMC Directives (89/336/EEC, amended by 92/31/EEC and 93/68/EEC).

D3-4-2-1-9a_En

Recording equipment and copyright: Recording equipment should be used only for lawful copying and you are advised to check carefully what is lawful copying in the country in which you are making a copy. Copying of copyright material such as films or music is unlawful unless permitted by a legal exception or consented to by the rightowners.

K018_En

VENTILATION CAUTION

When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 30 cm at top, 15 cm at rear, and 15 cm at each side).

WARNING

Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as newspapers, table-cloths, curtains) or by operating the equipment on thick carpet or a bed.

D3-4-2-1-7b_A_En

CAUTION : USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION : THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD. **D6-8-2-1_En**

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

D8-10-1-2_En

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

D8-10-2_En

CAUTION: This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

D8-10-3a_En

CAUTION

The STANDBY/ON switch on this unit will not completely shut off all power from the AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from the AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation).

D3-4-2-2a_A_En

Voltage selector

You can find the voltage selector switch on the rear panel of multi-voltage models.

The factory setting for the voltage selector is 220V–230V. Please set it to the correct voltage for your country or region.

- Saudi Arabia operates on 127V and 220V mains voltage. Please set to the correct voltage before using.
- For Taiwan, please set to 110V–127V before using.
- For Mexico, please set to 110V–127V before using.

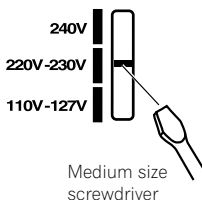
Before changing the voltage, disconnect the AC power cord. Use a medium size screwdriver to change the voltage selector switch.

CAUTION

These speaker terminals carry **HAZARDOUS LIVE voltage**. To prevent the risk of electric shock when connecting or disconnecting the speaker cables, disconnect the power cord before touching any uninsulated parts.

D3-4-2-2-3_A_En

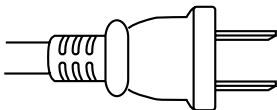
VOLTAGE SELECTOR



D3-4-2-1-5_En

For Taiwan exclusively

Taiwanese two pin flat-bladed plug



Thank you for buying this Pioneer product.

Please read through these operating instructions so that you will know how to operate your model properly. After you have finished reading the instructions, put them in a safe place for future reference.

Contents

01 Before you start

Checking what's in the box.....	6
Loading the batteries	6
Range of the remote control unit	6
Attaching the non-skid pads.....	7
Removing the front speaker grilles.....	7

02 Connecting up

Connecting the speaker terminals	8
Multichannel speaker connections.....	9
Hints on speaker placement.....	9
Attaching the surround speakers to the speaker stands.....	10
Optional surround speaker connections....	10
Connecting the radio antennas.....	10
Connecting external antennas	11
Connecting to your TV.....	11
Connecting using the component video output	12
Connecting auxiliary components.....	12
Connecting the power.....	13

03 Controls and displays

Front panel	14
Display	15
Remote control.....	17

04 Getting started

Setting the clock.....	19
Setting up the remote to control your TV....	19
Using the on-screen displays	19
Playing discs	20
Basic playback controls	20
Resume and Last Memory	21
DVD-Video disc menus.....	21
Video CD/Super VCD PBC menus	21
Listening to the radio	21
Improving FM stereo sound	22
Listening to other sources	22

05 Setting up for surround sound

Home theater sound setup	23
Setting the channel levels	23
Choosing your surround settings	24
System Setup menu options	24

06 Home theater sound

About the listening modes	25
Auto listening mode	25
Listening in surround sound	25
Using Front Surround	26
Listening in stereo.....	26
Listening with headphones	26
Using Advanced Surround	26
Using the Sound menu	27

07 Playing discs

Scanning discs	28
Playing in slow motion	28
Frame advance/frame reverse.....	28
Playing a JPEG slideshow	28
Browsing DVD or Video CD/Super VCD discs with the Disc Navigator	29
Browsing WMA, MP3, DivX video and JPEG files with the Disc Navigator	29
Looping a section of a disc	30
Using repeat play	30
Using random play	31
Creating a program list	31
Using the OSD	31
Other functions available from the program menu	32
Using the front panel display	32
Searching a disc	32
Switching subtitles	33
Switching language / audio channels	33
Zooming the screen	33
Switching camera angles	33
Displaying disc information.....	33

08 Using the tape deck

Playing cassette tapes.....	34
Basic playback controls	34
Making tape recordings.....	35
Automatically recording CDs (ASES).....	35

09 More tuner features

Memorizing stations	37
Manually saving station presets	37
Automatically saving station presets	37
Listening to station presets.....	37

10 Singing karaoke	
Singing karaoke	38
Changing the vocal mix	38
Changing the backing track	38
11 Adjusting the sound	
Using the Sound menu	39
Using the Sound Field Control	39
Boosting the bass level	39
Muting the sound	39
12 Using the timer	
Setting the wake-up timer	40
Turning the wake-up timer on/off	40
Setting the sleep timer	40
Setting the record timer	41
Turning the record timer on/off	41
13 Audio Settings and Video Adjust menu	
Audio Settings menu	42
Audio DRC	42
Virtual Surround	42
Video Adjust menu	42
14 Initial Settings menu	
Using the Initial Settings menu	44
Video Output settings	44
Language settings	45
Display settings	45
Options settings	45
Parental Lock	46
About DivX® VOD content	47
15 Additional information	
Optional system settings	48
System Setup menu options in standby	48
Using and taking care of discs	49
DVD Video regions	49
Disc / content format playback compatibility	49
Disc compatibility table	50
About DivX	50
DivX video compatibility	50
About WMA	51
Handling discs	51
Storing discs	51
Discs to avoid	51
Using cassette tapes	52
Tapes you should avoid	52
Protecting your recordings	52
Installation and maintenance	52
Hints on installation	52
Cleaning the pickup lens	53
Problems with condensation	53
Moving the system unit	53
Resetting the system	53
Troubleshooting	54
General	54
DVD/CD/Video CD player	55
WMA/MP3/JPEG discs	56
Tuner	56
Tape deck	57
Error Messages	57
Screen sizes and disc formats	58
Using the language code list	58
Language code list	59
Country/Area code list	59
Preset code list	60
Specifications	61

Chapter 1

Before you start

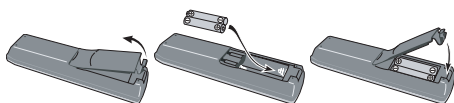
Checking what's in the box

Please check that you've received the following supplied accessories:

- Remote control
- Dry cell batteries (AA/R6) x2
- Video cord
- AM loop antenna
- FM antenna
- Power cord:
 - Central and South American, Taiwan, Philippines models x2
 - All other models x1
- Speaker cords x3 (S-EV1000 only)
- Speaker stands x2 (S-EV700/1000 only)
- Non-skid pads x12 (S-EV700/1000 only)
- Power plug adapter (Central and South American, US Military and Duty Free models only)
- Warranty Card (US Military and Duty Free models only)
- These operating instructions

Loading the batteries

Use AA/R6 batteries with the supplied remote control. Make sure to follow the indications (⊕, ⊖) inside the compartment.



Important

Incorrect use of batteries may result in such hazards as leakage and bursting. Observe the following precautions:

- Never use new and old batteries together.
- Insert the plus and minus sides of the batteries properly according to the marks in the battery case.
- Batteries with the same shape may have different voltages. Do not use different batteries together.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.

Range of the remote control unit

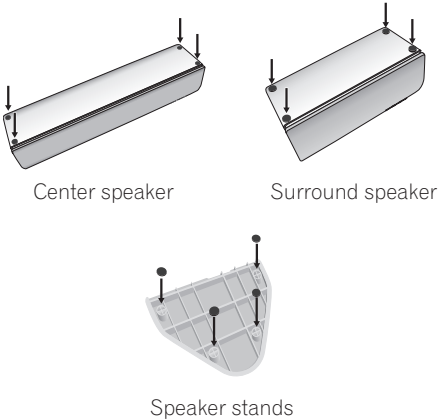
The remote control has a range of about 7 meters (23 ft). It may not work properly if:

- There are obstacles between the remote control and this unit's remote sensor.
- Direct sunlight or fluorescent light is shining onto the remote sensor.
- This system is located near a device that is emitting infrared rays.
- This unit is operated simultaneously with another infrared remote control unit.

Attaching the non-skid pads

EV700/1000 model only

Use the self-adhesive non-skid pads to provide a stable base for the speakers. Attach four to each speaker or stand¹ as shown below.



Removing the front speaker grilles

If necessary, remove the front speaker grilles as described below.

1 Gently ease the grille loose by gripping the bottom and pulling towards you.

2 Pull the top free in the same way.

When reattaching, start from the top then push the bottom in until secure.

- It is not recommended (due to dirt and dust) to leave the speaker grilles removed.
- Since the speaker grilles may come loose, make sure to place the speakers in a location where they will not cause injury.

Note

¹ If you choose to use the Front surround 3-spot setup (as explained in *Home theater sound setup* on page 23), it is necessary to use the speaker stands provided (do not attach the pads to the base of the surround speakers). Using the speaker stands for the Standard surround 5-spot setup is optional. See *Attaching the surround speakers to the speaker stands* on page 10 for more on this.

Chapter 2

Connecting up



Important

- Before making or changing any connections, switch off the power and unplug the power cord from the AC outlet.
- When making cable connections, make sure not to bend the cables over the top of this unit. This may cause a humming noise from the speakers.

Connecting the speaker terminals

Connect the wires from the speakers to the terminals on the main unit rear panel as shown below. Before connecting, you may want to consider the placement options available in your room, and when using this system:¹

- *EV500 model only* – Place the front left and right speakers at equal distances from the TV, then connect them as shown below. See *Optional surround speaker connections* on page 10 to connect surround speakers.
- *EV700/1000 model only* – A color-coded system is provided for speaker connections (see *Multichannel speaker connections* below). See *Home theater sound setup* on page 23 for surround placement options.



Caution

- Do not connect this speaker to any amplifier other than the one supplied with this system. Connection to any other amplifier may result in a malfunction or fire.

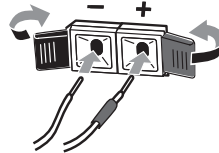
- Make sure that the bare speaker wires cannot touch each other, or come into contact with other metal parts once the unit is switched on.

1 Twist and pull off the protective shields on each wire.

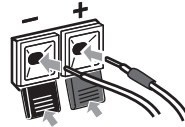


2 Connect to the speaker terminals on the rear of the unit.

Make sure to insert the red/colored wire into the red/colored (+) tab and the black/white wire into the black (-) tab.



3 EV 1000 only: Connect to the terminals on the rear of the subwoofer and front speakers in the same way.



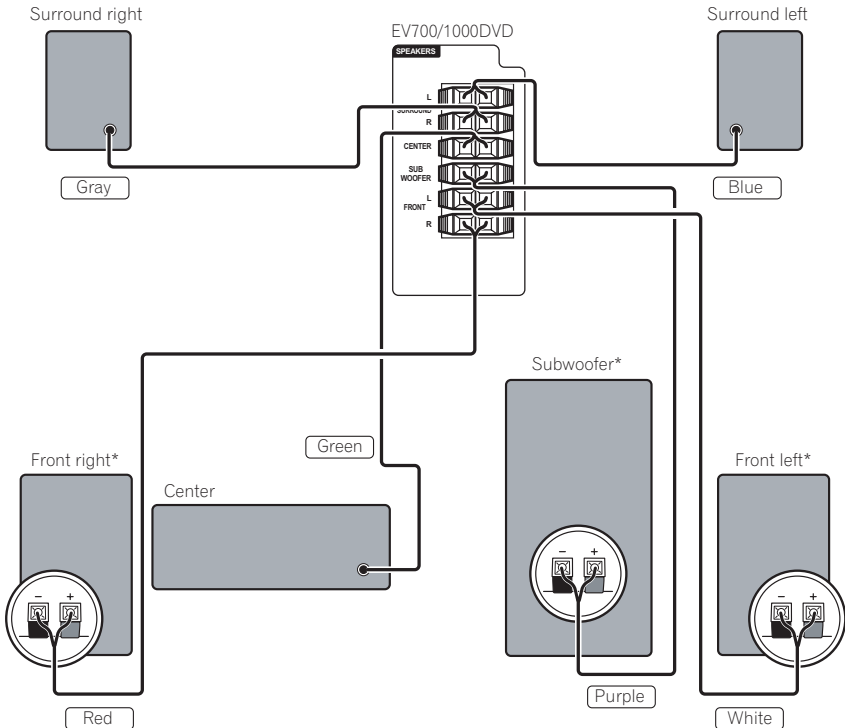
Note

¹ • The speakers supplied with this system are magnetically shielded. However, placing them extremely close to a television may result in color distortion on the screen. If this happens, move the speakers a little further away and switch off the television for 15–30 minutes.

Multichannel speaker connections

EV700/1000 model only

Connect each speaker using the color-coded speaker cable. Match them to the colored labels above the speaker terminals (see illustration below).



*This connection is required only for the EV1000 model.

Hints on speaker placement

The following guidelines will help you to get the best performance from your speaker system. See *Home theater sound setup* on page 23 for surround placement options with this system.

- Place the front left and right speakers at equal distances from the TV.
- Place the center speaker above or below the TV so that the sound of the center channel is localized at the TV screen.



Caution

- If you choose to install the center speaker on top of the TV, be sure to secure it with putty, or by other suitable means, to reduce the risk of damage or injury resulting from the speaker falling from the TV in the event of external shocks such as earthquakes.
- If possible, place the surround speakers slightly above ear level.

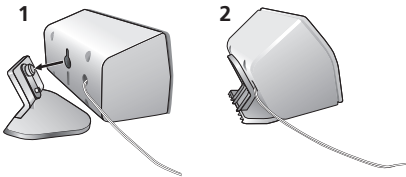
- Try not to place the surround speakers further away from the listening position than the front and center speakers. Doing so can weaken the surround sound effect.
- Be sure all speakers are installed securely to prevent accidents and improve sound quality.

Attaching the surround speakers to the speaker stands

EV700/1000 model only

If you have set up your system using the Front surround 3-spot setup (as explained in *Home theater sound setup* on page 23), it is necessary to use the speaker stands for the Standard surround 5-spot setup is optional. Attach each speaker as shown in the steps below.

- 1 Line up the spurs on the speaker stand with the holes on the back of the surround speaker and press into place.**
- 2 With the spurs fixed in place, pull the speaker downward to secure it on the stand.**



Optional surround speaker connections

EV500 model only

Using RCA speaker cables, you can connect surround speakers to the left and right **SURROUND** speaker jacks on the rear panel for multichannel sound from this system.

For the best surround effect, place the surround speakers slightly above ear level and at the same distance from the listening position as the front speakers.



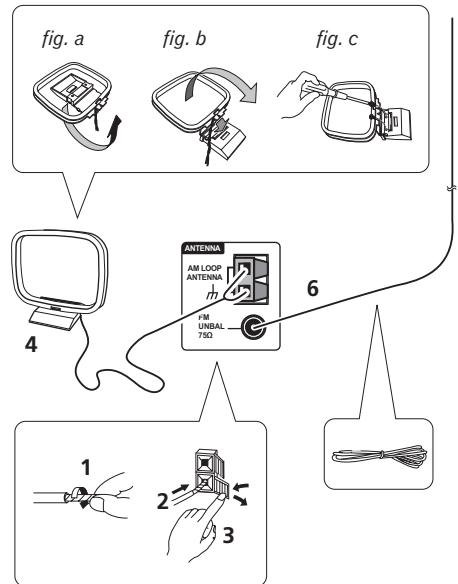
Important

- Use speakers with a nominal impedance of at least 16Ω.
- Make sure you connect both surround speakers or you won't be able to hear anything from the surround jacks.



Connecting the radio antennas

Connecting the supplied antennas will allow you to listen to both AM and FM radio broadcasts. If you find that reception quality is poor, an outdoor antenna should give you better sound quality—see *Connecting external antennas* below for more on how to do this.



1 Pull off the protective shields of both AM antenna wires.

2 Push open the tabs, then insert one wire fully into each terminal, then release the tabs to secure the AM antenna wires.

3 Fix the AM loop antenna to the stand.

To fix the stand to the antenna, bend in the direction indicated by the arrow (*fig. a*) then clip the loop onto the stand (*fig. b*).

- If you plan to mount the AM antenna to a wall or other surface, secure the stand with screws (*fig. c*) before clipping the loop to the stand. Make sure the reception is clear.

4 Place the AM antenna on a flat surface and point in the direction giving the best reception.

Don't let it come into contact with metal objects and avoid placing near computers, television sets or other electrical appliances.¹

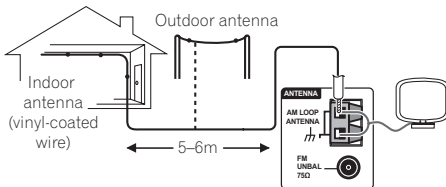
5 Connect the FM wire antenna in the same way as the AM loop antenna.

For best results, extend the FM antenna fully and fix to a wall or door frame. Don't drape loosely or leave coiled up.

Connecting external antennas

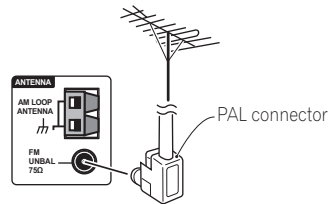
External AM antenna

Use 5–6 meters of vinyl-insulated wire and set up either indoors or outdoors. Leave the AM loop antenna connected.



External FM antenna

Use a PAL connector to hook up an external FM antenna.



Connecting to your TV

This system offers three types of video connections. If your TV has component video inputs, see *Connecting using the component video output* below.

1 Use the supplied yellow video cable to connect the VIDEO OUT jack to a video input on your TV.



For a better image, you can also use a commercially available S-Video cable to connect the **S-VIDEO OUT** jack to an S-Video input on your TV.



2 Optionally: Use a stereo audio cable to connect the audio outs of your TV (or VCR) to the LINE IN jacks on the rear of this unit.

This will enable you to hear the TV (or VCR) sound through this system. See *Connecting auxiliary components* below for more on this.

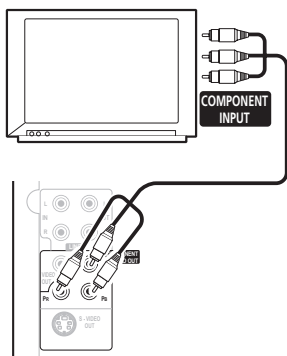
Note

¹ The signal ground (⚡) is designed to reduce noise that occurs when an antenna is connected. It is not an electrical safety ground.

Connecting using the component video output

If your TV has component video inputs, you can use these instead of the standard or S-Video output to connect this system to your TV.¹ This should give you the best quality picture from the three types of video output available.

- Use a component video cable to connect the **COMPONENT VIDEO OUT** to a set of component inputs on your TV.



About progressive scan video

Compared to interlace video, progressive scan video effectively doubles the scanning rate of the picture, resulting in a very stable, flicker-free image. Progressive scan video is available only from the component video output.



Important

- If you connect a TV that is not compatible with a progressive scan signal and switch the system to progressive, you will not be able to see any picture at all. In this case, press **STANDBY/ON** to put the system in standby, then press and hold the front

panel **■** (stop) button for about 7 seconds until the display shows **MEM.CLR?**. Press the front panel **◀◀** or **▶▶** button so that the display shows **INTERL?**. Press the front panel **▶/■** button to set to interlace and switch the system back on.

Compatibility of this player with progressive-scan and high-definition TVs.

This player is compatible with progressive video Macro Vision System Copy Guard.²

This system is compatible with the following Pioneer displays and monitors: PDP-505HDG, PDP-435HDG, PDP-5040HD, PDP4340HD, PDP-502MX, PDP-503HDG, PDP-504HDG, PDP-433HDG, PDP-434HDG, SD-532HD5, SD533HD5.

Connecting auxiliary components

This system has both stereo analog inputs and outputs. Use these to connect external components, such as a VCR, MD, CD-R or DAT recorder.

- **Connect the LINE IN jacks on the rear panel to an auxiliary playback component.** These include components such as a VCR, DAT, or your TV. Connect using RCA pin-plug stereo cables.
- **Connect the LINE OUT jacks on the rear panel to a recording component.** These include components such as a cassette deck, VCR, MD recorder, or another recorder with analog inputs. Connect using RCA pin-plug stereo cables.

Note

¹ The component video output is switchable between interlaced and progressive formats. See *Video Output settings* on page 44.
² Consumers should note that not all high-definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 progressive scan picture problems, it is recommended that the user switch the connection to the 'standard definition' output (Interlace). If there are questions regarding our TV set compatibility with this model, please contact our customer service center.

Connecting the power

After making sure that everything is connected properly, plug in the power cord to the AC inlet, and the other end to a mains power outlet.



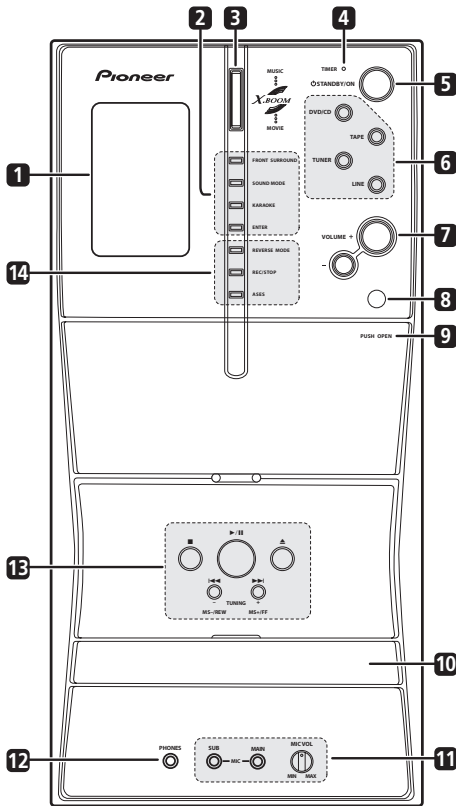
Congratulations! You're done setting up.

Chapter 3

Controls and displays

Front panel

Illustration shows the EV700/1000 model



1 Display

See *Display* below.

2 Sound options

FRONT SURROUND (EV700/1000 only) – Switches on the Front Surround mode (page 26).

SFC (EV500 only) – Selects sound modes or custom settings from the Sound Field Control (page 39).

SOUND MODE

Accesses settings in the Sound menu, such as the tone controls (page 39).

KARAOKE – Selects audio channels for karaoke (page 38).

ENTER – Selects options or executes commands.

3 X.BOOM button

Press to switch on the bass boost (page 39).

4 TIMER indicator

Lights when the timer has been set (page 40).

5 **STANDBY/ON**

Switches the player on or into standby.

6 **Function select buttons**

Selects the source you want to listen to.

7 **VOLUME +/-**

Adjusts the volume level.

8 **Remote sensor**9 **PUSH OPEN**

Pressing down on this side on the cassette door will open the tape deck.

10 **Disc tray**11 **MIC VOL and MIC input jacks**

Controls the volume of the karaoke mics (**MAIN** and **SUB**) (page 38).

12 **PHONES jack**

Headphone jack.

13 TUNING and playback control buttons

The tuning/scan/skip buttons are used for tuning into stations, skipping or scanning tracks on discs or tapes. The playback control buttons are used for playing, pausing and stopping playback (▲ ejects the disc).

14 Tape cassette controls

REVERSE MODE – Selects the playback mode for tapes (page 34).

REC/STOP – Starts/stops recording on the tape deck (page 35).

ASES – Press for CD-to-tape synchro recording (page 35).

KEY – Lights when the Karaoke pitch control is selected.

KARAOKE (Vocal cancel) – Vocals in the backing track are partially eliminated using EQ.

L – Left channel only. Use for tracks that have a vocal recorded in the right channel.

R – Right channel only. Use for tracks that have a vocal recorded in the left channel.

L R – Use to put a single-channel vocal track into the center of the mix.

3 Cassette deck indicators

B.CUT – Lights when the beat cut mode has been switched to **B.CUT 2**.

ASES REC – Lights during ASES recording.

REC – Lights when recording to the tape deck.

◀▶ – Indicates the direction of tape playback.

↔ – Indicates the reverse mode.

4 Format indicators

Ⓜ **PRO LOGIC II** (EV700/1000 only) – Lights during Dolby Pro Logic II decoding.

Ⓜ **DIGITAL** – Lights during playback of a Dolby Digital signal.

DTS – Lights during playback of a DTS source.

5 Tuner indicators

MONO – Lights when FM mono reception is selected.

STEREO – Lights when a stereo FM broadcast is being received in auto stereo mode.

TUNED – Lights when a broadcast is being received.

6 DSP indicators

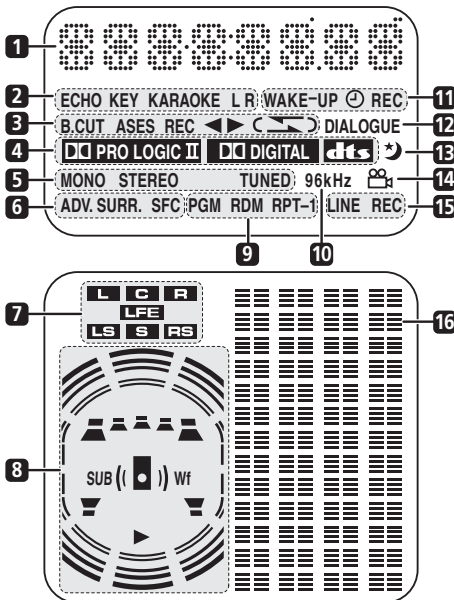
ADV.SURR. (EV700/1000 only)

Lights when one of the Advanced or Front Surround listening modes is selected.

SFC (EV500 only)

Lights when one of the Sound Field Control listening modes is selected.

Display



1 Character display

2 Karaoke indicators

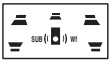
ECHO – Lights when the Karaoke **ECHO** effect is selected.

7 Channel indicators (EV700/1000 only)

These will light according to which channels are encoded on the Dolby Digital or DTS multichannel disc currently in the player. **LFE** lights when the disc has an LFE channel.

8 Speaker and playback indicators

The playback indicator (▶) lights during playback, and the speaker indicators (EV700/1000 only) show which speakers are being used to output the current source. The illustrations below show some example displays.



5.1 channel surround sound



Stereo (2.1 channel) sound



2 channel sound



5.1 channel surround sound
with the Front Surround mode
active

(When headphones are connected, none of the speaker indicators are lit.)

9 Playback mode indicators

PGM – Lights during program play

RDM – Lights during random playback


RPT-1 – **RPT** lights during repeat play (**RPT-1** lights during repeat one-track play)

10 96 kHz

Lights when a 96kHz source is detected (may not light if the source is copy-protected).

11 Timer indicators

WAKE-UP – Lights when the wake-up timer is set.

 – Lights when the wake-up timer is set and flashes when it activates.

REC – Lights when the record timer is set and flashes when the timer starts recording.

12 DIALOGUE (EV700/1000 only)

Lights when Dialog Enhancement is on.

13

Lights when the sleep timer is active

14

Lights during multi-angle scenes on a DVD

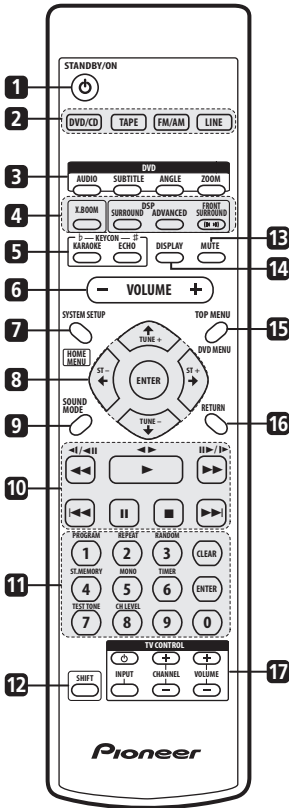
15 LINE REC (EV700/1000 only)

Lights when the line recording mode is switched on (see *Using the Sound menu* on page 27).

16 Level meter

Remote control

Illustration shows the EV700/1000 model



1 **⏻ STANDBY/ON**

Switches the player on or into standby.

2 **Input source function select**

Selects the source you want to listen to.

3 **DVD control buttons**

AUDIO – Selects the audio channel or language (page 33).

SUBTITLE – Selects a subtitle display (page 33).

ANGLE – Changes the camera angle during DVD multi-angle scene playback (page 33).

ZOOM – Changes the zoom level (page 33).

4 **Sound Field / DSP buttons**

X.BOOM – Switches the bass boost on or off (page 39).

SFC / SOUND FIELD (EV500 only)

Selects sound modes or custom settings from the Sound Field Control (page 39).

SURROUND (EV700/1000 only) – Selects a surround listening mode (page 25)

ADVANCED (EV700/1000 only) – Selects an advanced listening mode (page 26)

FRONT SURROUND (EV700/1000 only) – Switches on the Front Surround mode (page 26).

5 **KARAOKE controls**

KARAOKE – Selects audio channels for karaoke (page 38).

ECHO – Changes the echo level on the karaoke mics (page 38).

KEY CONTROL – Lowers/raises the pitch of the backing track (page 38).

6 **VOLUME**

Adjusts the volume level.

7 **HOME MENU**

Press to display (or exit) the on-screen menu for Initial Settings, Play Mode functions, etc.

SYSTEM SETUP (SHIFT+HOME MENU)

Use to make various system and surround sound settings (page 48 and (EV700/1000 only) page 24). Also used when automatically saving station presets when using the tuner (page 37).

8 **ENTER, TUNE & cursor control buttons**

Navigates on-screen displays and menus.

ENTER selects an option or executes a command.

9 SOUND MODE

Accesses settings in the Sound menu, such as the tone controls (page 39).

10 Playback controls

- ▶ – Starts/resumes playback
- ◀◀ and ◀|/◀|| – Use for reverse slow motion playback, frame reverse and reverse scanning
- ▶▶ and ||▶/|▶ – Use for forward slow motion playback, frame advance and forward scanning
- ▶▶| – Jumps to the next chapter or track
- |◀◀ – Jumps to the beginning of the current chapter or track, then to previous chapters/tracks
- || – Pauses playback; press again to restart
- – Stops playback

11 Number buttons and SHIFT functions

The number buttons can be used for selecting tracks directly, the functions above the buttons are accessed by pressing **SHIFT** at the same time as the button.

- PROGRAM (SHIFT+1)** – Use to program/play a program list (page 31).
- REPEAT (SHIFT+2)** – Selects a repeat play mode (page 30).
- RANDOM (SHIFT+3)** – Selects a random play mode (page 31).
- ST.MEMORY (SHIFT+4)** – Use for saving and listening to station presets (page 37).
- MONO (SHIFT+5)** – Press to listen to a stereo FM broadcast in mono (page 22).
- TIMER (SHIFT+6)** – Use for setting and checking the clock (page 19) and the timers (page 40).

TEST TONE (SHIFT+7) (*EV700/1000 only*) – Press to output the test tone for speaker setup (page 23).

CH LEVEL (SHIFT+8) (*EV700/1000 only*) – Use to adjust the speaker level (page 23).

CLEAR – Clears an entry

ENTER – Selects menu options, etc. (works exactly the same as the **ENTER** button in **8** above)

12 SHIFT

Press to access the functions/commands written in green on the remote

13 MUTE

Mutes the volume (page 39).

14 DISPLAY

Switches between information displays (page 33).

15 TOP MENU

Displays the top menu of a DVD disc.

DVD MENU

Displays the DVD menu (for Video CD/ Super VCDs, DivX video and WMA/MP3/ JPEG discs, the Disc Navigator screen appears).

16 RETURN

Press to return to a previous menu screen.

17 TV CONTROL¹

- ⏻ – Switches the TV on or into standby
- INPUT** – Switches the TV input
- CHANNEL +/-** – Selects channels
- VOLUME +/-** – Adjusts the TV volume

Note

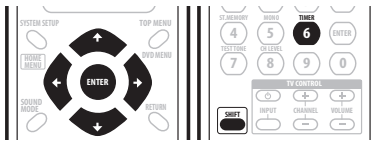
¹ Refer to *Setting up the remote to control your TV* on page 19 to use these controls with your TV.

Chapter 4

Getting started

Setting the clock

Setting the clock allows you to use the timer.¹



- 1 Press **TIMER (SHIFT+6)**.
- 2 If 'CLK ADJ?' isn't in the display, select it with **←** or **→**, then press **ENTER**.
- 3 Use **↑/↓** to set the hour. Press **ENTER**.
- 4 Use **↑/↓** to set the minute then press **ENTER** to confirm.

Setting up the remote to control your TV

You can set up the supplied remote to control your TV using the **TV CONTROL** buttons.²

- 1 **Switch on your TV.**
- 2 **Find the name of the manufacturer of your TV in the Preset Code List on page 60.** Next to each manufacturer is one or more three digit codes. These tell the remote what kind of TV you have.

If the name of the manufacturer of your TV does not appear in the table, you won't be able to set up this remote to control your TV.

3 Point the remote at your TV, hold down the CLEAR button, then enter the three digit code for your TV.

The remote transmits an on/off signal to the TV. If you've entered the correct code, your TV should switch off.

If your TV doesn't turn off, repeat the procedure using the next code in the list until your TV switches off successfully. Once set, you can then use the individual TV controls shown below.

Button	What it does
	Switches your TV on or into standby.
CHANNEL +/-	Changes the TV channel.
VOLUME	Adjusts the volume.
INPUT	Switches the TV's input between the built in TV tuner and an external video source.

Using the on-screen displays

For ease of use, this system makes extensive use of graphical on-screen displays (OSDs).

All the screens are navigated in basically the same way, using the cursor buttons (**↑**, **↓**, **←**, **→**) to change the highlighted item and pressing **ENTER** to select it.³

Note

¹ The default setting is 12-hour format. See *Optional system settings* on page 48 to change it.

² • The default setting is for a Pioneer TV.

• Note that there are also cases where the codes listed for a manufacturer in the Preset Code List may not work for your TV.

³ The screen saver will appear after five minutes of inactivity.

**Important**

- Throughout this manual, 'Select' means use the cursor buttons to highlight an item on-screen, then press **ENTER**.

Button	What it does
HOME MENU	Displays/exits the on-screen display
←↑↓→	Changes the highlighted menu item
ENTER	Selects the highlighted menu item
RETURN	Returns to the main menu without saving changes

**Tip**

- The button guide at the bottom of every OSD screen shows you which buttons you'll need to use for that screen.

Playing discs

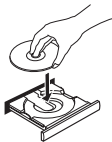
The basic playback controls for playing DVD, CD, Video CD/Super VCD, DivX video and MP3/WMA discs are covered here. Further functions are detailed in chapter 7.

1 If the player isn't already on, switch it on.

If you're playing a DVD, Video CD/Super VCD or DivX video, also turn on your TV and make sure that it is set to the correct video input.

2 Press ▲ on the front panel to load a disc.

Load a disc with the label side facing up, using the disc tray guide to align the disc (if you're loading a double-sided DVD disc, load it with the side you want to play face down).

**3 Press ► (play) to start playback.**

If you're playing a DVD or Video CD/Super VCD, a menu may appear. See *DVD-Video disc menus* on page 21 and *Video CD/Super VCD PBC menus* on page 21 to navigate these.

If you're playing a DivX video or WMA/MP3 disc, it may take a few seconds before playing.

If you loaded a CD/CD-R/RW containing JPEGs, a slideshow will start. See *Playing a JPEG slideshow* on page 28 for more on this.

- If a disc contains a mixture of DivX video and other media file types (MP3, for example), first select whether to play the DivX video files (**DivX**) or the other media file types (**MP3 / WMA / JPEG**) from the on-screen display.

4 Adjust the volume.

Use the **VOLUME +/-** control.

Basic playback controls

The following table shows the basic controls on the remote for playing discs¹. You can find other playback features in the chapter 7.

Button	What it does
►	Starts/resumes normal playback. <ul style="list-style-type: none"> If the display shows RESUME or LAST MEM playback starts from the resume or last memory point (see <i>Resume and Last Memory</i> below).
 	Pauses/unpauses a disc.
■	Stops playback or cancels the resume function (if the display shows RESUME).
◀◀	Press to start fast reverse scanning.
▶▶	Press to start fast forward scanning.
◀◀	Skips to the start of the current track or chapter, then previous tracks/chapters.
▶▶	Skips to the next track or chapter.

Note

¹ You may find with some DVD discs that some playback controls don't work in certain parts of the disc.

Button What it does

Numbers Use to enter a title/chapter/track number. Press **ENTER** to select.

- If the disc is stopped, playback starts from the selected title (for DVD) or track (for CD/Video CD/Super VCD).
- If the disc is playing, playback jumps to the start of the selected title (VR mode DVD-RW), chapter (DVD-Video) or track (CD/Video CD/Super VCD).

Resume and Last Memory

When you stop playback of a disc, **RESUME** shows in the display indicating that you can resume playback from that point.

With DVDs and Video CD/Super VCDs, even if ejected, the play position is stored in memory.¹ The next time you load the disc, the display shows **LAST MEM** and you can resume playback.

If you want to clear the resume point, press ■ (stop) while **RESUME** is displayed.

DVD-Video disc menus

Many DVD-Video discs contain menus from which you can select what you want to watch. Sometimes DVD-Video menus are displayed automatically when you start playback; others only appear when you press **DVD MENU** or **TOP MENU (SHIFT+DVD MENU)**.

Button What it does

TOP MENU (SHIFT+DVD MENU) Displays the 'top menu' of a DVD disc—this varies with the disc.

DVD MENU Displays a DVD disc menu—this varies with the disc and may be the same as the 'top menu'.



Moves the cursor around the screen.

Button What it does

ENTER Selects the current menu option.

RETURN Returns to the previously displayed menu screen.

Numbers Highlights a numbered menu option (some discs only). Press **ENTER** to select.

Video CD/Super VCD PBC menus

Some Video CD/Super VCDs have menus from which you can choose what you want to watch. These are PBC (Playback control) menus.

You can play a PBC Video CD/Super VCD without having to navigate the PBC menu by starting playback using a number button to select a track, rather than the ► (play) button.

Button What it does

RETURN Displays the PBC menu.

Numbers Selects numbered menu options. Press **ENTER** to select.

◀◀ Displays the previous menu page (if there is one).

▶▶ Displays the next menu page (if there is one).

Listening to the radio

The tuner can receive both FM and AM broadcasts, and lets you memorize your favorite stations so you don't have to manually tune in every time you want to listen (see *More tuner features* on page 37 for more on this).

1 Press FM/AM to switch to the tuner, then press repeatedly to select the AM or FM band. The display shows the band and frequency.

2 Tune to a frequency.

There are three tuning modes—manual, auto, and high-speed:

Note

- ¹ • The Last Memory function may not work with some discs.
• For DVD-Video discs (except VR mode DVD-RW), the player stores the play position of the last five discs.

- **Manual tuning:** Press **TUNE +/-** repeatedly to change the displayed frequency.
- **Auto tuning:** Press and hold **TUNE +/-** until the frequency display starts to move, then release. The tuner will stop on the next station it finds. Repeat to keep searching.
- **High-speed tuning:** Press and hold **TUNE +/-** until the frequency display starts to move rapidly. Keep the button held down until you reach the frequency you want. If necessary, fine tune the frequency using the manual tuning method.

Improving FM stereo sound

If you're listening to an FM station in stereo but the reception is weak, you can improve the sound quality by switching to mono.

- **Press MONO (SHIFT+5) to choose 'FM MONO?' then press ENTER.**

The **MONO** indicator lights when the tuner is in mono reception mode.

Select **FM AUTO?** above to switch back to auto-stereo mode (the **STEREO** indicator lights when receiving a stereo broadcast).

Listening to other sources

You can connect an external source for playback through this system's speakers. See *Connecting auxiliary components* on page 12 for more on this.

- 1 **Make sure that the external source (TV, MD player, etc.) is switched on.**
- 2 **Press LINE to select the source connected to the rear panel LINE input.**
- 3 **If necessary, start playback of the source.**

Tip

- If an auxiliary source is producing unpleasant distortion from the speakers, you can reduce the signal level by switching on the attenuator. See *Optional system settings* on page 48 to do this.

Chapter 5

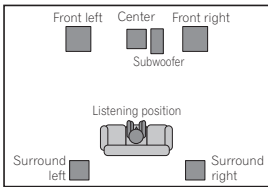
Setting up for surround sound

EV700/1000 model only

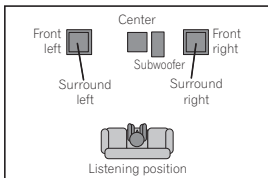
Home theater sound setup

Depending on the size and characteristics of your room, you can place your speakers in one of two ways using this system:¹

- **Standard surround 5-spot setup** – This is a standard multichannel surround sound speaker setup for optimal 5.1 channel home theater sound.



- **Front surround 3-spot setup** – This setup is ideal when rear surround speaker placement isn't possible or you want to avoid running long speaker cables in your listening area. Use this setup together with the Front Surround modes to take advantage of wall and ceiling reflections for a very realistic surround effect.



After placing your speakers, complete *Setting the channel levels* then refer to *Speaker distance setting* on the next page to complete your surround sound setup.

Setting the channel levels

Set the relative channel levels from your main listening position.²

1 Press TEST TONE (SHIFT+7).

The test tone is output in the following order (from the speakers active in the current listening mode):

- **L** – Front left speaker
- **C** – Center speaker
- **R** – Front right speaker
- **RS** – Surround right speaker
- **LS** – Surround left speaker
- **SW** – Subwoofer³

2 Use the VOLUME +/- button to adjust the volume to an appropriate level.

3 Use the ↑/↓ buttons to adjust the speaker levels in turn.

You should hear the test tone at the same volume from each speaker when seated in the main listening position. The channel level range is ± 10 dB.

4 When you're done, press TEST TONE to exit test tone setup.

Note

¹ See *About the listening modes* on page 25 for more on using the different listening modes with each speaker setup.

² • Make sure headphones are unplugged.

• The channel balance can be adjusted (independently for each listening mode) while listening to any sound source you want: Press **CH LEVEL (SHIFT+8)** then use **←/→** to select channels and **↑/↓** to adjust the level. Press **ENTER** when you're finished.

³ Since the subwoofer produces ultra-low frequencies its sound may seem quieter than it actually is.

Choosing your surround settings

To get the best possible surround sound from your system, make the settings below. You should only need to make these settings once (unless you change the placement of your speakers or wish to change settings for a particular disc).

1 Press **SYSTEM SETUP (SHIFT+HOME MENU)**.¹

2 Use **←/→** to choose the setting.

The current setting is shown for each option as you cycle through the display. See below for a full list and description of each.

3 Use **↑/↓** to adjust.

4 Repeat steps 2 and 3 for other settings.

5 When you're done, press **ENTER** to leave the System Setup menu.

System Setup menu options

Below are all the available settings in the setup menu.² The first setting in each section is the default. See also the notes in each section for additional information about the settings.

Speaker distance setting

Specifies the distance from your listening position to your speakers.

When **DIST.?** appears, press **ENTER**, then use **↑/↓** to adjust the distance, and **←/→** to switch between the following speakers:

- **L** – Front left speaker
- **C** – Center speaker
- **R** – Front right speaker
- **RS** – Surround right speaker
- **LS** – Surround left speaker
- **SW** – Subwoofer

Each speaker can be adjusted between **0.3m** ~ **9m**. The default setting is **3m**.

Note

¹ These settings can't be changed when recording, or when the Line Recording feature is on (see *Using the Sound menu* on page 27).

² If the tuner is selected, the auto preset feature also appears (see *Automatically saving station presets* on page 37).

³ This setting works only with Dolby Digital and some DTS soundtracks.

Dynamic Range Control

Specifies dynamic range adjustment to Dolby Digital or DTS soundtracks:³

- **DRC OFF** – No dynamic range adjustment (use when listening at higher volume)
- **DRC MID** – Mid setting
- **DRC HIGH** – Dynamic range is reduced (loud sounds are reduced in volume while quieter sounds are increased)

LFE attenuator setting

Dolby Digital and DTS audio sources include ultra-low bass tones. Set the LFE attenuator as needed to prevent the ultra-low bass from distorting the sound.

- **LFEATT 0** – No attenuation
- **LFEATT 10** – LFE channel attenuated 10dB
- **LFE Off** – LFE channel is not played

Subwoofer setting

You can switch between subwoofer settings to provide extra bass or to hear the subwoofer channel 'as is'.

- **SW PLUS** – This provides extra bass when listening to an audio source
- **SW AUTO** – The subwoofer channel is heard without any additional processing.

DTS CD setting

If you play a DTS-encoded CD, you will need to change this setting to hear the decoded signal.

When **CD TYPE?** appears, press **ENTER**, then use **↑/↓** to select the setting:

- **NORM.CD** – Regular CD playback, DTS-encoded CDs may output some noise
- **DTS-CD** – Proper decoding of DTS-encoded CDs, but regular CD playback may lose quality

Chapter 6

Home theater sound

EV700/1000 model only

About the listening modes

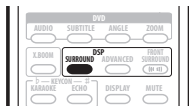
As explained in *Home theater sound setup* on page 23, there are two basic surround speaker setup options available. Of course you can select any of the listening modes regardless of how you place your speakers, but you will achieve the best surround effect by using the listening modes in conjunction with your speaker setup:

- **Standard surround 5-spot setup** – Use the Standard (*Listening in surround sound* on page 25) and Advanced (*Using Advanced Surround* on page 26) surround listening modes¹ with this setup.
- **Front surround 3-spot setup** – See *Using Front Surround* on page 26 for the options¹ available with this speaker setup.

Make sure you have completed *Setting the channel levels* on page 23. For a more detailed surround sound setup, see *Choosing your surround settings* on page 24.

Auto listening mode

The Auto listening mode is the simplest way to listen to any source as it was mastered: the output from the speakers mirrors the channels in the source material.



- **Press SURROUND to select the AUTO listening mode.**

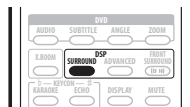
Note

¹ These listening modes do not work with 96kHz sources.

² When listening in **DOLBY DIGITAL / DTS** mode, two-channel material will automatically be played in surround sound using Dolby Pro Logic II decoding.

Listening in surround sound

You can listen to stereo or multichannel sources in surround sound. Surround sound is generated from stereo sources using one of the Dolby Pro Logic decoding modes.



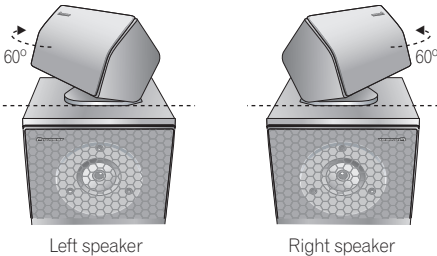
- **Press SURROUND repeatedly to select a listening mode.**

The choices that appear in the display will vary according to the type of source that's playing.

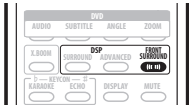
- **AUTO** – Auto listening mode (see above)
- **DOLBY DIGITAL / DTS** – Dolby Digital or DTS decoding (depending on the source).² For a multichannel source, this will be the same as **AUTO**.
- **PROLOGIC** (Dolby Pro Logic) – 4.1 channel surround sound for use with any two-channel source
- **MOVIE** (Dolby Pro Logic II Movie) – Pro Logic II 5.1 channel surround sound, especially suited to movie sources (use with any two-channel source)
- **MUSIC** (Dolby Pro Logic II Music) – Pro Logic II 5.1 channel surround sound, especially suited to music sources, for use with any two-channel source
- **STEREO** – See *Listening in stereo* below

Using Front Surround

The Front Surround modes are effective when you are using the Front surround 3-spot speaker setup as described in *Home theater sound setup* on page 23. The surround speakers should be placed on top of the front speakers and oriented (about 60°) towards the walls (as a guide, line up the edge of the speaker stand base with the front edge of the speaker as shown below).



You can adjust the amount of Front Surround effect in *Using the Sound menu* on page 27.



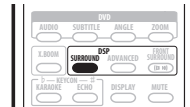
- Press **FRONT SURROUND** to select an Front Surround mode.

Press repeatedly to select from:

- **FRT MOVIE** – The Front Surround Movie mode gives a movie theater-type sound.
- **FRT MUSIC** – The Front Surround Music mode gives a concert hall-type sound.
- **EXT POWER** – The Extra Power mode gives additional energy to stereo sources.

Listening in stereo

You can listen to any source—stereo or multichannel—in stereo. When playing a multichannel source, all channels are downmixed to the front left/right speakers and the subwoofer.



- Press **SURROUND** repeatedly until **STEREO** shows in the display.

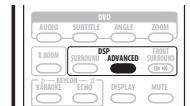
Listening with headphones

When headphones are connected, only the **STEREO** mode is available.¹

Using Advanced Surround

The Advanced Surround modes can be used with any multichannel or stereo source for a variety of additional surround sound effects.²

You can adjust the amount of effect applied in *Using the Sound menu* on page 27.



- Press **ADVANCED** to select an Advanced Surround mode.

Press repeatedly to select from:

- **ADV MOVIE** – Gives a movie theater-type sound
- **ADV MUSIC** – Gives a concert hall-type sound
- **EXPANDED** – Creates an extra wide surround field

Note

¹ When you disconnect them it reverts to the previous mode.

² The Standard surround setup described in *Home theater sound setup* on page 23 should be used with these effects.

- **TV SURR.** – Designed for mono or stereo TV broadcasts and other sources
- **SPORTS** – Designed for sports and other programs based on commentary
- **GAME** – Creates surround sound from video game sources
- **5 STEREO** – Designed to give powerful surround sound to stereo music sources

Using the Sound menu

There are several optional sound settings you can make from the sound menu.



- 1 Press SOUND MODE.**
- 2 Use ←/→ to choose the setting you want to adjust.**
The current setting is shown for each option (in the order shown in step 3, with the defaults in **bold**) as you cycle through the display.
- 3 Use ↑/↓ to adjust.**

Make adjustments to the following settings:

Setting	What it does	Option(s)
Bass	Adjusts the amount of bass.	-4 to +4
Treble	Adjusts the amount of treble.	-4 to +4
Effect	Sets the effect level for the currently selected Advanced or Front Surround mode (each mode can be set separately).	10 to 90
Dialog Enhancement (Press ENTER in step 2 to access)	Localizes dialog in the center channel to make it stand out from other background sounds in a TV or movie soundtrack.	OFF <i>MAX</i> <i>MID</i>

Setting	What it does	Option(s)
Center Width^a	Provides a better blend of the front speakers by spreading the center channel between the front right and left speakers, making it sound wider (higher settings) or narrower (lower settings).	0 to 7 Default: 3
Dimension^a	Adjusts the depth of the surround sound balance from front to back, making the sound more distant (minus settings), or more forward (positive settings).	-3 to +3 Default: 0
Panorama^a	Extends the front stereo image to include the surround speakers for a 'wraparound' effect.	OFF <i>ON</i>
Line Recording^b (Press ENTER in step 2 to access)	To record a surround-compatible downmix (left-total/right-total, or Lt/Rt) of a Dolby multichannel source (such as a DVD) from the line outputs of this system, switch this feature on. This enables improved playback with systems that can provide matrix-decoding (like Dolby Pro Logic). Switch to OFF for a simple stereo downmix (left-only/right-only, or Lo/Ro, which is suitable for playback on a two-channel stereo system or on headphones).	OFF <i>ON</i>

a. Only available when listening to 2-channel sources in Dolby Pro Logic II Music mode.

b. • When the Line Recording mode is on, most sound features cannot be used. The display will briefly blink **RMODE ON** if you try and use a prohibited function.

- This mode automatically switches off if you change the input function (**DVD/CD, TUNER**, etc.) or switch the power off.
- When the Line Recording mode is off, audio from the analog output may be interrupted, depending on the operation.

- 4 Repeat steps 2 and 3 for other settings.**
- 5 When you're done, press ENTER to leave the Sound menu.**

Chapter 7

Playing discs



Important

- Many of the functions covered in this chapter apply to DVD discs, Video CDs/Super VCDs, CDs, DivX video and WMA/MP3/JPEG discs, although the exact operation of some varies slightly with the kind of disc loaded.
- Some DVDs restrict the use of some functions (random or repeat, for example) in some or all parts of the disc. This is not a malfunction.
- When playing Video CD/Super VCDs, some of the functions are not available during PBC playback. If you want to use them, start the disc playing using a number button to select a track.

Scanning discs

You can fast-scan discs forward or backward at various different speeds.¹

- **During playback, press ◀◀ or ▶▶ to start scanning.**

Press repeatedly to increase the scanning speed (shown on-screen).

- To resume playback, press ▶ (play).²

Playing in slow motion

You can play DVDs, Video CD/Super VCDs and DivX video at four different forward slow motion speeds. DVD discs can also be played in reverse slow motion.

- 1 **During playback, press II (pause).**

- 2 **Press and hold ◀◀ or ▶▶ until slow motion playback starts.**

Press repeatedly to change the slow motion speed (shown on-screen).

- To resume playback, press ▶ (play).²

Frame advance/frame reverse

You can advance or back up DVD discs frame-by-frame. With Video CD/Super VCDs and DivX video you can only use frame advance.

- 1 **During playback, press II (pause).**

- 2 **Press ◀◀ or ▶▶ to reverse or advance a frame at a time.**

- To resume playback, press ▶ (play).²

Playing a JPEG slideshow

After loading a CD/CD-R/RW containing JPEG pictures, press ▶ to start a slideshow from the first folder/picture on the disc.³ The player displays the pictures in each folder in alphabetical order.

Pictures are automatically adjusted so that they fill as much of the screen as possible.

While the slideshow is running:

Button	What it does
II	Pauses the slideshow; press again to restart.
◀◀	Displays the previous picture.

Note

¹ Only one speed is available for DivX video discs.

² • Depending on the disc, normal playback may automatically resume when a new chapter is reached on a DVD disc.

• With Video CD/Super VCDs in PBC mode or a WMA/MP3 track, playback automatically resumes at the end or beginning of the track.

³ • The time it takes for the player to load a file increases with large file sizes.

Button	What it does
▶▶	Displays the next picture.
◀/▶/↑/↓	Pauses the slideshow and rotates/flips the displayed picture. (Press ▶ (play) to restart slideshow).
ZOOM	Pauses the slideshow and zooms the picture. Press again to toggle between 1x, 2x and 4x zoom. (Press ▶ (play) to restart slideshow).
DVD MENU	Displays the Disc Navigator screen (see below).

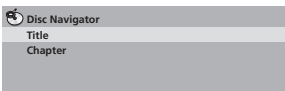
Browsing DVD or Video CD/ Super VCD discs with the Disc Navigator

Use the Disc Navigator to browse through the contents of a DVD or Video CD/Super VCD disc to find the part you want to play.

1 During playback, press HOME MENU and select 'Disc Navigator' from the on-screen menu.



2 Select a view option.



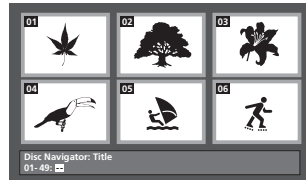
The options available depend on the kind of disc loaded and whether the disc is playing or not, but include:

- **Title** – Titles from a DVD-Video disc.
- **Chapter** – Chapters from the current title of a DVD-Video disc.
- **Track** – Tracks from a Video CD/Super VCD disc.

- **Time** – Thumbnails from a Video CD/Super VCD disc at 10 minute intervals.
- **Original: Title** – Original titles from a VR mode DVD-RW disc.
- **Playlist: Title** – Playlist titles from a VR mode DVD-RW disc.
- **Original: Time** – Thumbnails from the Original content at 10 minute intervals.
- **Playlist: Time** – Thumbnails from the Playlist at 10 minute intervals.

The screen shows up to six moving thumbnail images displayed one after another. To display the previous/next six thumbnails, press ◀◀/▶▶.

3 Select the thumbnail image for what you want to play.



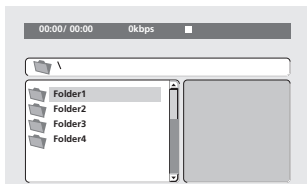
You can use either the cursor buttons (↑/↓/◀/▶) and **ENTER** to select a thumbnail, or the number buttons.

To select using the number buttons, enter a two-digit number then press **ENTER**.

Browsing WMA, MP3, DivX video and JPEG files with the Disc Navigator

Use the Disc Navigator to find a particular file or folder by filename.

1 Press HOME MENU and select 'Disc Navigator' from the on-screen menu.



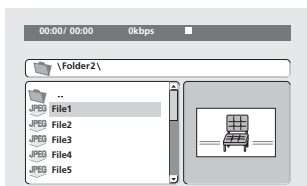
2 Use the cursor buttons (↑/↓/←/→) and ENTER to navigate.

Use the cursor up/down buttons (↑/↓) to move up and down the folder/file list.

Use the cursor left button (←) to return to the parent folder.¹

Use **ENTER** or cursor right (→) to open a highlighted folder.

- When a JPEG file is highlighted, a thumbnail image is displayed on the right.



3 To play the highlighted track or DivX video file or display the highlighted JPEG file, press ENTER.

- When a WMA/MP3 or DivX video file is selected, playback begins from that file, and continues until the end of the folder.
- When a JPEG file is selected, a slideshow begins, starting with that file, and continues to the end of the folder.

Tip

- To play the contents of the whole disc rather than just the current folder, exit the Disc Navigator and start playback using the ► (play) button.

Looping a section of a disc

The A-B Repeat function allows you to specify two points (A and B) within a track (CD, Video CD/Super Video CD) or title (DVD) that form a loop which is played over and over.

1 During playback, press HOME MENU and select 'Play Mode'.

2 Select 'A-B Repeat'.²

3 Press ENTER on 'A(Start Point)' to set the loop start point.

4 Press ENTER on 'B(End Point)' to set the loop end point.

After pressing **ENTER**, playback jumps back to the start point and plays the loop.

5 To resume normal playback, select 'Off'.

Using repeat play

In addition to various repeat play options, it's also possible to use repeat play together with program play (see *Creating a program list* on page 31).

1 During playback, press HOME MENU and select 'Play Mode'.

2 Select 'Repeat' then select a repeat play option.³

If program play is active, select **Program Repeat** to repeat the program list, or **Repeat Off** to cancel.

Note

¹ You can also do this by going to the '..' folder at the top, then pressing **ENTER**.

² You can't use repeat play with WMA/MP3 discs.

³ You can't use A-B Repeat play with WMA/MP3 or DivX video discs.

- For DVD discs, select **Title Repeat**, **Chapter Repeat** or **Repeat Off**.
- For CDs and Video CD/Super VCDs, select **Disc Repeat**, **Track Repeat** or **Repeat Off**.
- For DivX video discs, select **Repeat Title** (or **Repeat Off**).



Tip

- You can also use the **REPEAT (SHIFT+2)** button on the remote to select a repeat play option. The repeat modes available are the same as those from the **Play Mode** menu.

Using random play

Use this function to play titles or chapters (DVD-Video) or tracks (CD and Video CD/Super VCD) in a random order.¹

1 During playback, press HOME MENU and select 'Play Mode'.

2 Select 'Random' then select an option.

- For DVD discs, select **Random Title**, **Random Chapter** or **Random Off**.
- For CDs and Video CD/Super VCDs, select **On** or **Off** to switch random play on or off.



Tip

- Use the following controls during random play:

Button	What it does
	Selects a new track/title/chapter at random.

Button	What it does
	Returns to the beginning of the current track/title/chapter; further presses select another random track/title/chapter.

- You can also use the **RANDOM (SHIFT+3)** button on the remote to select a random play mode. The random modes available are the same as when choosing from the **Play Mode** menu. Press **ENTER** to start random play.
- Random play remains in effect until you select **Random Off** from the random play menu options.

Creating a program list

This feature lets you program the play order of titles/chapters/tracks on a disc.²

Using the OSD

1 During playback, press HOME MENU and select 'Play Mode'.

2 Select 'Program' then select 'Create/Edit' from the list of program options.

3 Use the cursor buttons and ENTER to select a title, chapter or track for the current step in the program list.

For a DVD disc, you can add a title or a chapter.

- For a CD or Video CD/Super VCD, select a track to add to the program list.

After pressing **ENTER** to select the title/chapter/track, the step number automatically moves down one.

4 Repeat step 3 to build up a program list. A program list can contain up to 24 steps.

Note

¹ • You can set the random play option when a disc is playing or stopped. However, you can't use random play together with program.

- You can't use random play with VR format DVD-RW discs, WMA/MP3 discs, DivX video discs, or while a DVD disc menu is being displayed.

² You can't use Program play with VR format DVD-RW discs, WMA/MP3 discs, DivX video discs, or while a DVD disc menu is being displayed.

- You can insert steps by just highlighting the position where you want the new step to appear and entering a title/chapter/track number.
- To delete a step, highlight it and press **CLEAR**.

5 To play the program list, press ► (play).

Program play remains active until you turn off program play (see below), erase the program list (see below), eject the disc or switch off.



Tip

- Use the following controls during program play:

Button	What it does
HOME MENU	Save the program list and exit without starting playback.
►►	Skip to the next step in the program list.

Other functions available from the program menu

There are a number of other options in the program menu in addition to Create/Edit.

- **Playback Start** – Starts playback of a saved program list
- **Playback Stop** – Turns off program play, but does not erase the program list
- **Program Delete** – Erases the program list and turns off program play

Using the front panel display

Even though the OSD is available for CDs, the front panel display provides information to make a program list easily. If a disc is playing, stop it first.

1 Press PROGRAM (SHIFT+1).

You're prompted to enter a track for the first step in the program list.

2 Use the number buttons to select a track, then press ENTER.

If you make a mistake, press **CLEAR** to delete the last (most recently) programmed track.

3 Repeat step 2 to build up a program list.

A program list can contain up to 24 steps.

4 To play the program list, press ► (play).

- Program play remains active until you press ■ (stop), clear the playlist (see tip above), eject the disc or switch off the player.

Searching a disc

You can search DVD discs by title or chapter number, or by time; CDs and Video CD/Super VCDs by track number or time; DivX video discs by time.

1 Press HOME MENU and select 'Play Mode'.

2 Select 'Search Mode'.

The search options that appear depend on the kind of disc loaded.

3 Select a search mode.

- The disc must be playing in order to use time search.

4 Use the number buttons to enter a title, chapter or track number, or a time.

- For a time search, enter the number of minutes and seconds into the currently playing title (DVD/ DivX video) or track (CD/ Video CD/Super VCD) you want playback to resume from. For example, press **4, 5, 0, 0** to have playback start from 45 minutes into the disc. For 1 hour, 20 minutes and 30 seconds, press **8, 0, 3, 0**.

5 Press ENTER to start playback.

Switching subtitles

Some DVD discs and DivX video discs have subtitles in one or more languages; the disc box will usually tell you which subtitle languages are available. You can switch subtitle language during playback.¹

- **Press SUBTITLE repeatedly to select a subtitle option.**
 - To set subtitle preferences, see *Language settings* on page 45.
 - See *Displaying DivX subtitle files* on page 50 for more on DivX subtitles.

Switching language / audio channels

When playing discs recorded with dialog in two or more languages, or with dual-mono audio² you can switch these during playback.³

- **Press AUDIO repeatedly to select an audio language option.**
 - To set audio language preferences, see *Language settings* on page 45.

Zooming the screen

Using the zoom feature you can magnify a part of the screen by a factor of 2 or 4, while watching a DVD, DivX video title or Video CD/ Super VCD or playing a JPEG disc.


- 1 **During playback, use the ZOOM button to select the zoom factor (Normal, 2x or 4x).**

- 2 **Use the cursor buttons to change the zoomed area.**

You can change the zoom factor and the zoomed area freely during playback.⁴

Switching camera angles

Some DVD discs feature scenes shot from two or more angles—check the disc box for details.

When a multi-angle scene is playing, a  icon appears on screen (this can be switched off if you prefer—see *Display settings* on page 45).

- **During playback (or when paused), press ANGLE to switch angle.**

Displaying disc information

Various track, chapter and title information can be displayed on-screen during playback.

- **To show/switch/hide the information displayed, press DISPLAY repeatedly.** Limited disc information also appears in the front panel display. Press **DISPLAY** to change the displayed information.

Note

¹ Some discs only allow you to change subtitle language from the disc menu. Press **TOP MENU** or **DVD MENU** to access.
² Some Super VCDs have two soundtracks. With these discs you can switch between the two soundtracks as well as individual channels in each.

³ Some discs only allow you to change audio language from the disc menu. Press **TOP MENU** or **DVD MENU** to access.

⁴ • Since DVD, Video CD/Super VCD, DivX video title and JPEG pictures have a fixed resolution, picture quality will deteriorate, especially at 4x zoom. This is not a malfunction.

- If the navigation square at the top of the screen disappears, press **ZOOM** again to display it.

Chapter 8




Using the tape deck

Playing cassette tapes

This unit has a tape deck that can be used for both recording and playback. In addition, it features automatic music search (AMS) and auto-reverse functions¹. See *Making tape recordings* below for more features.

- 1 **Push down on the cassette door where indicated to open it and insert a tape.**
- 2 **Close the cassette door.**
- 3 **Press REVERSE MODE (front panel only) to select the reverse mode.**

Press repeatedly to choose between:

-  – Single side playback
-  – Auto-reverse playback: stops after finishing playback in the 'reverse' (◀) direction
-  – Continuous playback (up to 16 complete plays)

4 Press TAPE to start playback.

You can also press ◀▶ (remote) or ▶/|| (front panel) to start playback when **TAPE** is selected. The side of the tape you'll hear is whichever is face up when you load it. This is the 'forward' (▶) direction, while the other side is 'reverse' (◀). The direction indicator is shown in the display.

Basic playback controls

The following table shows the basic controls on the remote for playing discs.

Button	What it does
TAPE (◀▶)	Starts/resumes normal playback. Each time you press either button during playback, the other side of the tape starts playing. Pressing TAPE (◀▶) when the tape is stopped starts playback on the side it was playing previously.
 	Pauses playback.
■	Stops playback. Also resets the tape counter to 0000 if pressed when the tape is already stopped.
◀◀	Press to fast-rewind a tape.
▶▶	Press to fast-forward a tape.
◀◀ / ▶▶ ^a	Searches for the previous / next blank space between tracks on the side currently playing (in other words, to the start of the current / next track), then resumes playback. By pressing more than once, the tape will skip several tracks at once (up to a maximum of 15). For example, press ▶▶▶ twice to skip forward two tracks.

- a. Track search is unlikely to work reliably if:
- the space between tracks is less than about 4 seconds.
 - the recording is noisy so the spaces are not recognized.
 - the recording contains frequent silences, such as a language study tape.
 - the recording contains sections of very quiet material, such as some classical music recordings.

Note

¹ The auto-reverse feature lets you play or record a tape without physically taking it out and turning it over.

Making tape recordings

You can make tape recordings from the radio, CDs, or from an external component connected to the auxiliary inputs.¹ If you're recording from CD it's convenient to use the ASES mode—see *Automatically recording CDs (ASES)* below.

Unlike some tape decks, there's no need to set recording levels; the deck sets the level automatically. When recording, the volume has no effect on the recording. This means that you can record something with the volume turned right down if you want.

1 Press TAPE then load a cassette into the tape deck.

In order to follow these instructions more easily, load the cassette² with side A facing up, then use the front panel controls.

2 Check the recording direction.

If you start recording in the ► direction, both sides of the tape can be recorded (unless the erase protect tab for side B is missing). If you switch sides and start recording in the ◀ direction, then recording will start from side B and stop when the end of the tape is reached. If you need to change the direction, press ►/|| (◀►) twice, then ■ (stop).

3 Set the reverse mode (page 34).

- ⏮ (record one side only)
- ⏪ or ⏩ (record both sides if recording starts in the ► (forward) direction, or one side if recording starts in the ◀ (reverse) direction)

4 Select the source you want to record.

For example, press **TUNER (FM/AM)** on the remote) to record from the radio. If you've selected a CD, make sure that it's stopped. You can't record while **TAPE** is selected.

5 Prepare the source for recording.

For example, tune in the radio station.

6 Press REC/STOP (front panel only).

The **REC** indicator lights in the display and the deck starts recording.

7 Start the source playing (if necessary).

8 When you're ready to stop recording, press REC/STOP again.

Automatically recording CDs (ASES)

Auto Synchro Editing System (ASES for short) makes recording CDs³ (including those with WMA/MP3 audio files) automatic. It also makes sure that a CD track isn't spread over two sides of a tape.

If the tape runs out midway through a CD track, the same track is automatically recorded from the beginning again on the other side.⁴

1 Prepare the tape deck for recording.

Recording starts in the ► (forward) direction, so take care which way you load the tape.

2 Load the CD you want to record.

3 Press DVD/CD, then press ■ (stop).

The CD should now be selected, but not playing.

Note

1 • Once recording has started, you can't switch to another component until recording has stopped. So, for example, you can't switch over to the tuner while you're recording a CD.

- *EV700/1000 model only* – During recording, all multichannel sources are downmixed to two channels.

2 • Before recording, check that the cassette erase-protect tabs have not been broken, and that the tape is Type I (normal position). You can't record on Type II (high/CrO₂) or IV (metal) tapes using this deck.

- If you're recording from the start of a tape, it's a good idea to wind the tape on a little so that you don't accidentally start recording over the leader tape. You can either do this by hand, or load the tape into the deck and play the tape for 5–6 seconds.

3 You can't make ASES tape recordings of Video CD/Super VCDs or DVD-Video discs.

4 ASES may not work correctly if the first side of the tape finishes at the same time as a track ends. If this happens, stop the recording then resume on the other side without ASES.

If you want to record the tracks in a different order, or record only one track, use the program play feature—see page 31 for how to make a program list. Make sure playback is stopped, then press **PROGRAM (SHIFT + 1)** before going to the next step.

4 Press ASES to start recording.

The **ASES REC** indicator lights, followed by a 4 second pause while the tape winds past the leader, then recording starts.

Recording finishes automatically when the end of the disc is reached, or the tape ends (whichever comes first).

5 If you want to stop recording before the end of the CD, press ■ (stop).



- If you find that you're getting noisy recordings from an AM radio station, see *Optional system settings* on page 48 to change the beat cut mode.
- If you find that the auxiliary source signal is too high (resulting in unpleasant distortion in your recording), you may need to reduce the signal level of the line source by switching on the attenuator (see *Optional system settings* on page 48 to do this).

Chapter 9

More tuner features

Memorizing stations

You can save up to 30 station presets so that you always have easy access to your favorite stations without having to tune in manually each time.¹

Manually saving station presets

1 Tune to an AM or FM radio station.

For the FM band, select mono or auto-stereo reception as necessary. This setting is saved along with the preset.

2 Use ST +/- or the number buttons to select a station preset then press ENTER.

Automatically saving station presets

1 Press SYSTEM SETUP (SHIFT+HOME MENU), use ←/→ to choose 'A. PRESET' then press ENTER.

Auto tuning starts in the FM band, stopping when a strong signal is received.

2 When auto tuning stops at a station, press ENTER to save the station as a preset, or press ↑/↓ to continue without saving.

Auto tuning resumes. After the FM band is finished, auto tuning continues in the AM band. Press ■ (stop) anytime to exit.

Auto tuning stops automatically after the AM band is finished, or after the limit of 30 presets has been reached. When this happens, the tuner automatically switches to preset **ST-1**.

Listening to station presets

1 Press FM/AM repeatedly to select the station preset mode.

The display shows **ST**.

2 Use the ST +/- buttons to select a station preset.

- You can also use the number buttons and **ENTER** to do this.

Note

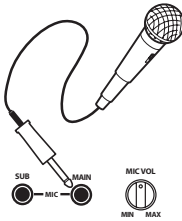
¹ If the system is unplugged, saved stations will remain for several days, after which you'll have to save them again.

Chapter 10

Singing karaoke

Singing karaoke

Using the karaoke features you can plug in a microphone and mix the sound of your own voice with a backing track.¹ The backing track can be anything you like, from a song on the radio, to a dedicated DVD karaoke disc. Adjust the microphone level relative to the backing track.



1 Set the MIC VOL knob (front panel) to minimum.

2 Plug in the microphone(s).

If you're only using one mic, plug it into the **MIC (MAIN)** jack. The **MIC (SUB)** jack can be used only if **MIC (MAIN)** is also connected.

- If the microphone has an on/off switch, make sure it's on.

3 Load a karaoke backing disc or tape.

You can also use the radio or a component connected to the auxiliary inputs as source material for a backing track.

4 To change the mix (CD or Video CD/Super VCD only), press KARAOKE.

Press to switch between these options:²

- **KARAOKE** (Vocal cancel) – Backing track vocals are partially eliminated using EQ.
- **L CH** – Left channel only. Use for tracks that have a vocal recorded in the right channel.
- **R CH** – Right channel only. Use for tracks that have a vocal recorded in the left channel.
- **L+R CH** – Use to put a single-channel vocal track into the center of the mix.
- **OFF** – Switches the Karaoke mode off.

5 Play the backing track.

6 Adjust the MIC VOL knob.

To avoid unpleasant feedback, make sure you don't point the microphone(s) at the speakers.³

7 Sing!

Changing the vocal mix

Adding some effects to the microphone mix can sometimes improve the overall sound. You can choose between three echo levels.

- To add effects to the microphone mix, press **ECHO**.

Pressing repeatedly switches between echo levels 1 to 3 and off.

Changing the backing track

You may want to lower or raise the pitch of the backing track to match your vocal range.

- Press **KEY CONTROL** \downarrow (**SHIFT** + **KARAOKE**) or **#** (**SHIFT** + **ECHO**) to lower or raise the pitch of the backing track.

Note

¹ *EV700/1000 model only* – These features are only possible when a microphone is connected. Also note that during DVD playback, using the karaoke features (including connecting a mic) automatically switches to **STEREO** playback and downmixes multichannel sources to two channels.

² The current setting is first shown in the display.

³ Depending on the microphone level, the sound of the disc may distort. If this happens, turn down the volume.

Chapter 11

Adjusting the sound

Using the Sound menu

*EV500 only*¹

There are several optional sound settings you can make from the sound menu.

1 Press **SOUND MODE**.

2 Use **←/→** to choose the setting you want to adjust.

The current setting is shown for each option (in the order shown in step 3) as you cycle through the display.

3 Use **↑/↓** to adjust.

Make adjustments to the following settings:

Setting	What it does	Option(s)
Bass	Adjusts the amount of bass.	-4 to +4
Treble	Adjusts the amount of treble.	-4 to +4
Balance	Adjusts the left and right channel balance.	CENTER to LEFT 10 / RIGHT 10
Stereo Wide	Makes the stereo spread appear wider than it really is	OFF <i>ON</i>

4 Repeat steps 2 and 3 for other settings.

5 When you're done, press **ENTER** to leave the Sound menu.



Tip

- You can store your current bass, treble and stereo-wide settings as a preset. Simply hold **ENTER** for three seconds, use **↑/↓** to select **USER 1** or **USER 2** then press **ENTER** again to confirm. You can now select this preset from the **SFC** menu (see *Using the Sound Field Control* below).

Note

¹ For the EV700/1000 model, see *Using the Sound menu* on page 27.

² If you have adjusted sound parameters for separate SFC modes (from the sound menu), these are applied as well.

Using the Sound Field Control

EV500 only

Depending on the source you're listening to, you may want to use the Sound Field Control to match the source you're listening to.²

- **Press SFC repeatedly to select a mode.**

The options are as follows:

- **ACTION** – Good for sound effects.
- **DOME** – Gives a 'live' feel to the sound.
- **DRAMA** – Good for enhancing dialogue.
- **KARAOKE** – Reduces the level of vocal tracks on pre-recorded music.
- **USER 1 / 2** – See *Tip* above.
- **SFC OFF** – (**SFC** indicator disappears)

Boosting the bass level

If you want to bring up the low end for certain kinds of music or sound sources, you can use the bass boost to do so.

- **Press X.BOOM repeatedly to select a mode.**

The options are as follows:

- **X.BOOM M** – Good for music with lots of bass.
- **X.BOOM MV** – Boosts low frequency (bass) sounds in movies.
- **OFF** – Switches the bass boost off.

Muting the sound

- **Press MUTE to switch off the volume.**

To switch the sound back on, adjust the volume or press **MUTE** again.

Chapter 12

Using the timer



Important

- The clock must be set for the timers to work properly (see *Setting the clock* on page 19).

Setting the wake-up timer

Use the wake-up timer to set the system to switch on at any time and start playing whatever source you want.¹

1 Select the source you want played.

For example, press **FM/AM** to select the radio as your source.

2 Prepare the source and set the volume.

For example, tune in the radio station you want to wake up to. Adjust the volume as necessary.

3 Press **TIMER (SHIFT+6)** twice, use **←/→** to select **WAKE-UP** then press **ENTER**.

4 Use **←/→** to select **EDIT** then press **ENTER**.

5 Set the switch-on time.

Use **↑/↓** to set the hour, then press **ENTER**. Set the minute in the same way, pressing **ENTER** when you're done.

6 Set the switch-off time.

Set as above, pressing **ENTER** when done. The **WAKE-UP** indicator lights, and the switch-on, switch-off times, the function (**DVD/CD**, etc.) and volume are confirmed in the display.

7 Switch the system into standby mode.

The wake-up timer will not work if the system is left on!

- You can check the timer settings in standby by pressing **TIMER (SHIFT+6)** twice.

Turning the wake-up timer on/off

If you have already set the wake-up timer, you can switch it on/off by selecting **TIME ON** or **TIME OFF** in step 4 above (press **ENTER**).

Setting the sleep timer

The sleep timer switches off the system after a specified time so you can fall asleep without worrying about it.²

1 Press **TIMER (SHIFT+6)** twice, use **←/→** to select **SLEEP** then press **ENTER**.

2 Use **↑/↓** (cursor up/down) to select a switch-off time then press **ENTER**.

Choose between the following options:

- **AUTO** – Switches off automatically after the currently playing CD or Video CD has finished.³
- **SLEEP 90** – Switches off after 90 minutes
- **SLEEP 60** – Switches off after an hour
- **SLEEP 30** – Switches off after 30 minutes
- **OFF** – Cancels the sleep timer

3 To check how much time is left, repeat step 1.

The remaining time is displayed momentarily.

Note

¹ You cannot have the wake-up timer and the record timer set at the same time.

² • If you set the sleep timer while either the wake-up or recording timer is active, the earlier switch off time takes priority.
• The system will switch into standby if you change the input function during **AUTO** sleep mode.

³ **AUTO** will not work with DVD/CDs in repeat play, cassette tapes, or Video CD/Super VCDs during PBC playback.

Setting the record timer

You can set the timer to record from the **LINE** source, or something off the radio. For example, you might want to record a program that is broadcast while you're at work.¹

1 Set up the tape deck.

Load a cassette tape, wind on past the leader tape and set the reverse mode (see *Making tape recordings* on page 35 for more on this).

2 Select the source you want to record.

Press **FM/AM (TUNER)** on the front panel) or **LINE** and prepare the source.²

3 Press **TIMER (SHIFT+6)** twice, use **←/→** to select **REC** then press **ENTER**.

4 Use **←/→** to select **EDIT** then press **ENTER**.

5 Set the switch-on time.

Use **↑/↓** to set the hour, then press **ENTER**. Set the minute in the same way, pressing **ENTER** when you're done.

6 Set the switch-off time.

Set as above, pressing **ENTER** when done. The **REC** indicator lights, then the switch-on, switch-off times and the function (or frequency, if you selected the tuner) are confirmed in the display.

7 Switch the system into standby mode.

The record timer will not work if the system is left on!

Turning the record timer on/off

If you have already set the record timer, you can switch it on/off by selecting **REC ON** or **REC OFF** in step 4 above (press **ENTER**).

Note

¹ • During the actual recording, the volume is automatically set to minimum. After the recording has finished, the record timer is canceled.

• You cannot have the record timer and the wake-up timer set at the same time.

² For example, if you select the tuner, tune in the station you want to record (see *Listening to the radio* on page 21).

Chapter 13

Audio Settings and Video Adjust menu

Audio Settings menu

EV500 only¹

The Audio Settings menu offers features for adjusting the way discs sound.

1 Press HOME MENU and select 'Audio Settings' from the on-screen display.



2 Select and change settings using the ↑/↓/←/→ (cursor) buttons, and ENTER.

Audio DRC

- Settings: **Low, Medium, High, Off** (default)

When watching Dolby Digital DVDs at low volume, it's easy to lose the quieter sounds completely—including some of the dialog. Switching Audio DRC (Dynamic Range Control) to on can help by bringing up the quieter sounds, while controlling loud peaks.

How much of a difference you hear depends on the material you're listening to. If the material doesn't have wide variations in volume, you may not notice much change.²

Virtual Surround

- Settings: **On, Off** (default)

Switch on Virtual Surround to enjoy realistic surround sound effects from just two speakers.³

Video Adjust menu

From the Video Adjust screen you can adjust various settings that affect how the picture is presented.

1 Press HOME MENU and select 'Video Adjust' from the on-screen display.



2 Make settings using the ↑/↓/←/→ (cursor) buttons and ENTER.

You can adjust the following picture quality settings:

- **Sharpness** – Adjusts the sharpness of edges in the picture (**Fine, Standard, Soft**)
- **Brightness** – Adjusts the overall brightness (**-20 to +20**).
- **Contrast** – Adjusts the contrast between light and dark (**-16 to +16**).
- **Gamma** – Adjusts the 'warmth' of the picture (**High, Medium, Low, Off**).
- **Hue** – Adjusts the red/green balance (**Green 9 to Red 9**).

Note

¹ For the EV700/1000 model, see *Dynamic Range Control* in *System Setup menu options* on page 24 (this method of adjustment is also available for the EV500 model, but an extra setting of **LOW** also appears).

² • Audio DRC is only effective with Dolby Digital audio sources.

- The effect of Audio DRC also depends on your speakers and settings.

³ • 96kHz Linear PCM audio is automatically downsampled to 48kHz if Virtual Surround is switched on.

- How good the surround effect is varies with the disc.

- **Chroma Level** – Adjusts how saturated colors appear (-9 to +9).

Adjust the Brightness, Contrast, Hue and Chroma Level settings using the ←/→ (cursor left/right) buttons.



3 Press ENTER to return to the Video Adjust screen, or HOME MENU to exit.

Chapter 14

Initial Settings menu

Using the Initial Settings menu

The Initial Settings menu provides audio and video output settings, parental lock settings, and display settings, among others.

If an option is grayed out it means that it cannot be changed at the current time. This is usually because a disc is playing. Stop the disc, then change the setting.

1 Press HOME MENU and select 'Initial Settings'.



2 Use the cursor buttons and ENTER to select the setting and option you want to set.

All the settings and options are explained on the following pages.

Video Output settings

Setting	Option	What it means
TV Screen (See also <i>Screen sizes and disc formats</i> on page 58.)	4:3 (Letter Box)	Set if you have a conventional 4:3 TV. Widescreen movies are shown with black bars top and bottom.
	<i>4:3 (Pan & Scan)</i>	Set if you have a conventional 4:3 TV. Widescreen movies are shown with the sides cropped so that the image fills the screen.
	<i>16:9 (Wide)</i>	Set if you have a widescreen TV.
Component Out (See also <i>Connecting using the component video output</i> on page 12.)	Interlace	Set if your TV is not compatible with progressive scan video.
	<i>Progressive</i>	Set if your TV is compatible with progressive scan video (see your TV's instruction manual for details). Press ENTER once more to confirm (or RETURN to cancel). <i>Note that progressive scan video is only output from the component video jacks.</i>



Important

- In the table below, the default setting is shown in **bold**; other settings are shown in *italics*.
- Some settings, such as **TV Screen**, **Audio Language** and **Subtitle Language** may be overridden by the DVD disc. Often these settings can also be made from the DVD disc menu.
- The **Component Out** setting only needs to be set if you have connected this player to your TV using component video.

Language settings

Setting	Option	What it means
Audio Language	English	If there is an English soundtrack on the disc, it is played.
	<i>Languages as displayed</i>	If there is a language selected on the disc, it is played.
	<i>Other Language</i>	Select to choose a language other than the ones displayed (see <i>Using the language code list</i> on page 58).
Subtitle Language	English	If there are English subtitles on the disc they are displayed.
	<i>Languages as displayed</i>	The subtitle language selected on the disc is displayed.
	<i>Other Language</i>	Select to choose a language other than the ones displayed (see <i>Using the language code list</i> on page 58).
DVD Menu Language	w/Subtitle Lang.	DVD disc menus are displayed in the same language as your selected subtitle language, if possible.
	<i>Languages as displayed</i>	DVD menus are displayed in the selected language, if possible.
	<i>Other Language</i>	Select to choose a language other than the ones displayed (see <i>Using the language code list</i> on page 58).
Subtitle Display	On	Subtitles are displayed in your selected subtitle language.
	<i>Off</i>	Subtitles are always off by default when you play a DVD disc.

Display settings

Setting	Option	What it means
OSD Language	English	On-screen displays of the player are in English.
	<i>Languages as displayed</i>	On-screen displays are shown in the language selected.
Angle Indicator	On	A camera icon is displayed on-screen during multi-angle scenes on a DVD disc.
	<i>Off</i>	No multi-angle indication is shown.

Options settings

Setting	Option	What it means
Parental Lock	–	See <i>Parental Lock</i> below.
DivX VOD	Display	See <i>About DivX® VOD content</i> below.

Parental Lock

- Default level: **Off**; Default password: *none*;
Default Country/Area code: **us (2119)**

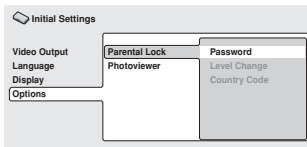
To give you some control over what your children watch on your DVD player, some DVD-Video discs feature a Parental Lock level. If your player is set to a lower level than the disc, the disc won't play.

Some discs also support the Country/Area Code feature. The player does not play certain scenes on these discs, depending on the Country/Area Code you set.

Registering a new password

Register a password to change the Parental Lock level or enter a Country/Area code.¹

1 Select 'Password'.



2 Use the number buttons to input a 4-digit password then press ENTER.

Changing your password

To change your password, confirm your existing password then enter a new one.

1 Select 'Password Change'.

2 Input your existing password, then press ENTER.

3 Enter a new password and press ENTER.

Setting/changing the Parental Lock

1 Select 'Level Change'.

2 Use number buttons to enter your password, then press ENTER.

3 Select a new level and press ENTER.

- Press ← (cursor left) repeatedly to lock more levels (more discs will require the password); press → (cursor right) to unlock levels. You can't lock level 1.

Setting/changing the Country/Area code

You can find the *Country/Area code list* on page 59.

1 Select 'Country Code'.

2 Input your password, then press ENTER.

3 Select a Country/Area code then press ENTER.

There are two ways you can do this:

- Select by code letter: Use ↑/↓ (cursor up/down) to change the Country/Area code.
- Select by code number: Press → (cursor right) then use the number buttons to enter the 4-digit Country/Area code.

The new Country/Area code takes effect after ejecting the disc once.

Note

¹ • Not all discs use Parental Lock, and will play without requiring the password first.

• If you forget your password, you'll need to reset the player to register a new password. (see *Resetting the system* on page 53).

About DivX® VOD content

In order to play DivX VOD (video on demand) content on this player, you first need to register the player with your DivX VOD content provider. You do this by generating a DivX VOD registration code, which you submit to your provider.¹



Important

- DivX VOD content is protected by a DRM (Digital Rights Management) system. This restricts playback of content to specific, registered devices.
- If you load a disc that contains DivX VOD content not authorized for your player, the message **Authorization Error** is displayed and the content will not play.

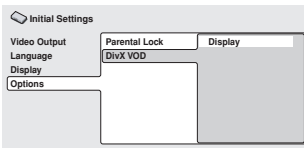
Playing DivX® VOD content

Some DivX VOD content may only be playable a fixed number of times. When you load a disc containing this type of DivX VOD content, the remaining number of plays is shown on-screen and you then have the option of playing the disc (thereby using up one of the remaining plays), or stopping. If you load a disc that contains expired DivX VOD content (for example, content that has zero remaining plays), the message **Rental Expired** is displayed.

If your DivX VOD content allows an unlimited number of plays, then you may load the disc into your player and play the content as often as you like, and no message will be displayed.

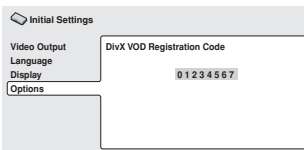
Displaying your DivX VOD registration code

- 1 Press **HOME MENU** and select 'Initial Settings'.
- 2 Select 'Options', then 'DivX VOD'.



3 Select 'Display'.

Your 8-digit registration code is displayed.



Make a note of the code as you will need it when you register with a DivX VOD provider.

Note

¹ Resetting the player (as described in *Resetting the system* on page 53) will not cause you to lose your registration code.

Chapter 15

Additional information

Optional system settings

These settings are accessed by using the System Setup menu while in standby.

- 1 **Switch the system into standby.**
- 2 **Press SYSTEM SETUP (SHIFT+HOME MENU).**
- 3 **Use ←/→ (cursor left/right) to choose the setting then press ENTER.**
The current setting is shown for each option as you cycle through the display. See below for a full list and description of each.
- 4 **Use ↑/↓ (cursor up/down) to adjust the setting then press ENTER to confirm.**
- 5 **Repeat steps 2 to 4 to make other settings.**

System Setup menu options in standby

Below are all the available settings in the setup menu. The first setting in each is the default.

System demo setting

Switches the automatic demo feature on or off¹ (this starts when you plug in for the first time):

- **DEMO ON** – Switches the demo feature on.
- **DEMO OFF** – Switches the demo feature off.

Key lock setting

The Key Lock feature is useful when you've set the wake-up timer and don't want the system switched on before it activates.

- **LOCK ON** – Makes the front panel buttons and controls inoperative.

- **LOCK OFF** – Restores regular use of the front panel buttons and controls.

Clock format setting

Specifies how the clock is displayed:

- **12-HOUR** – Display shows 12-hour format.
- **24-HOUR** – Display shows 24-hour format.

Line attenuator setting

If the source connected to the analog **LINE** input is distorting, the attenuator will reduce the signal level.

- **ATT 6DB** – Reduces signal level by 6dB.
- **ATT 10DB** (*EV700/1000 only*) – Reduces signal level by 10dB.
- **ATT OFF** – No attenuation

Tape deck beat cut setting

Recording AM broadcasts on cassette tape can result in noisy recordings. If you experience this, change the beat cut mode.

- **B.CUT 1**
- **B.CUT 2**

Frequency step setting

If you find that you can't tune into stations successfully, the frequency step may not be suitable for your country/region.

- **AM 9K** – AM 9kHz / FM50Hz
- **AM 10K** – AM10kHz / FM100Hz

Note

¹ After setting the clock, the demo mode switches off automatically. However, if you unplug the system from the wall outlet, the demo mode will revert to **DEMO ON** (and the clock will be reset).

TV system setting

The default setting of this system is **AUTO**, and unless you notice that the picture is distorted when playing some discs, you should leave it set to **AUTO**. If you find picture distortion with some discs, set the TV system to match your country or region's system. However, this may restrict the kinds of disc you can watch. See the table for the kinds of discs compatible with each setting (**AUTO**, **PAL** and **NTSC**).¹

- After selecting **TV SYS** in step 3 above, press **ENTER** to change the TV system.

The TV system as follows:

- **AUTO** → **NTSC**
- **NTSC** → **PAL**
- **PAL** → **AUTO**

The system automatically switches on and you'll see the new TV system setting in the display after seeing **Welcome**.²

Disc Type	Format	Player setting		
		NTSC	PAL	AUTO
DVD/Super VCD/ Video CD/DivX Video	NTSC	NTSC	PAL	NTSC
	PAL	NTSC	PAL	PAL
CD/MP3/WMA/ JPEG/no disc	—	NTSC	PAL	NTSC or PAL

Using and taking care of discs

DVD Video regions



All DVD Video discs carry a region mark that indicates which region(s) of the world the disc is compatible with. Your DVD system also has a region mark (on the rear panel). Discs from incompatible regions will not play in this player. Discs marked **ALL** play in any player.

Disc / content format playback compatibility

This player is compatible with a wide range of disc types (media) and formats. Playable discs will generally feature one of the following logos on the disc and/or disc packaging. Note however that some disc types, such as recordable CD and DVD, may be in an unplayable format.

See the *Disc compatibility table* below for more information.




-  is a trademark of Fuji Photo Film Co. Ltd.
-  is a trademark of DVD Format/Logo Licensing Corporation
- Also compatible with KODAK Picture CD

This player supports the IEC's Super VCD standard for superior picture quality, dual soundtracks, and widescreen support.



Note

¹ Most models of the newly developed countdown PAL TV system detect 50 Hz (PAL)/60 Hz (NTSC) and automatically switch vertical amplitude, resulting in a display without vertical shrinkage. However, in some cases, the image may appear without color. If your PAL TV does not have a V-Hold control, you may not be able to watch NTSC discs because of picture roll. If the TV has a V-Hold control, adjust it until the picture stops rolling. On some TVs, the picture may shrink vertically, leaving black bands at the top and bottom of the screen.

² You have to switch the player into standby (press  **STANDBY/ON**) before each change.

Disc compatibility table

Media	Compatible formats
CD-R/RW	<ul style="list-style-type: none"> • CD-Audio, Video CD/Super VCD, ISO 9660 CD-ROM* * ISO 9660 Level 1 or 2 compliant. <i>CD physical format: Mode1, Mode2 XA Form1, Romeo and Joliet file systems are both compatible.</i> • Multi-session playback: No • Unfinalized disc playback: No
DVD-R/RW	<ul style="list-style-type: none"> • DVD-Video, Video Recording (VR)* * <i>Edit points may not play exactly as edited; screen may go momentarily blank at edited points.</i> • Unfinalized playback: No • WMA/MP3/JPEG file playback on DVD-R/RW: No
PC-created disc	<ul style="list-style-type: none"> • Discs recorded using a PC may not be playable due to the setting of the software used to create the disc. In these instances, check the DVD-R/RW or CD-R/RW software manual or disc boxes for more on compatibility. • Discs recorded in packet write mode (UDF format) are not compatible.
Compressed audio	<ul style="list-style-type: none"> • MPEG-1 Audio Layer 3 (MP3), Windows Media Audio (WMA) • Sampling rates: 32, 44.1 or 48kHz • Bit-rates: Any (128Kbps or higher recommended) • VBR (variable bit rate) MP3 playback: No • VBR WMA playback: No • WMA lossless encoding: No • DRM (Digital Rights Management) compatible: Yes (DRM-protected audio files will <i>not</i> play in this player). • File extensions: .mp3, .wma (these must be used for the player to recognize MP3 and WMA files) • File structure (may differ): Up to 299 folders on a disc; up to 648 folders and files (combined) within each folder

Media	Compatible formats
JPEG file	<ul style="list-style-type: none"> • Baseline JPEG and EXIF 2.2* still image files up to a resolution of 3072 x 2048. *<i>File format for digital still cameras</i> • File extensions: .jpg (must be used for the player to recognize JPEG files) • File structure (may differ): Up to 299 folders on a disc; up to 648 folders and files (combined) within each folder

About DivX

DivX is a compressed digital video format created by the DivX[®] video codec from DivXNetworks, Inc. This player can play DivX video files burned on CD-R/RW/ROM discs. Keeping the same terminology as DVD-Video, individual DivX video files are called "Titles." When naming files/titles on a CD-R/RW disc prior to burning, keep in mind that by default they will be played in alphabetical order.

DivX video compatibility

- Official DivX[®] Certified product.
- Plays DivX[®] 5, DivX[®] 4, DivX[®] 3, and DivX[®] VOD video content (in compliance with DivX[®] Certified technical requirements).
- File extensions: .avi and .divx (these must be used for the player to recognize DivX video files). *Note that all files with the .avi extension are recognized as MPEG4, but not all of these are necessarily DivX video files and therefore may not be playable on this player.*

Displaying DivX subtitle files

The font sets listed below are available for DivX external subtitle files. You can see the proper font set on-screen by setting the **Subtitle Language** (in *Language settings* on page 45) to match the subtitle file.¹

This player displays subtitles for the following language groups:

Group 1: Albanian (sq), Basque (eu), Catalan (ca), Danish (da), Dutch (nl), English (en), Faroese (fo), Finnish (fi), French (fr), German (de), Icelandic (is), Irish (ga), Italian (it), Norwegian (no), Portuguese (pt), Rhaeto-Romanic (rm), Scottish (gd), Spanish (es), Swedish (sv)

Group 2: Albanian (sq), Croatian (hr), Czech (cs), Hungarian (hu), Polish (pl), Romanian (ro), Slovak (sk), Slovenian (sl)

Group 3: Bulgarian (bg), Byelorussian (be), Macedonian (mk), Russian (ru), Serbian (sr), Ukrainian (uk)

Group 4: Hebrew (iw), Yiddish (ji)

Group 5: Turkish (tr)

DivX, DivX Certified, and associated logos are trademarks of DivXNetworks, Inc. and are used under license.

About WMA



The Windows Media[®] logo printed on the box indicates that this player can playback Windows Media Audio content.

WMA is an acronym for Windows Media Audio and refers to an audio compression technology developed by Microsoft Corporation. WMA content can be encoded by using Windows Media[®] Player version 7, 7.1, Windows Media[®] Player for Windows[®] XP, or Windows Media[®] Player 9 Series.

Microsoft, Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Handling discs

Hold the disc by its edges when handling so as not to leave fingerprints, dirt or scratches on either side of the disc. Damaged or dirty discs can affect playback performance.

If a disc becomes marked with fingerprints, dust, etc., clean using a soft, dry cloth.



Wipe lightly from the center of the disc using straight strokes. Don't wipe the disc surface with circular strokes.

If necessary, use a cloth soaked in alcohol, or a commercially available CD/DVD cleaning kit to clean a disc more thoroughly. Never use benzene, thinner or other cleaning agents such as those designed for cleaning vinyl records.

Storing discs

Avoid leaving discs in excessively cold, humid, or hot environments (including under direct sunlight). Don't glue paper or put stickers onto the disc, or use a pencil, ball-point pen or other sharp-tipped writing instrument. These could all damage the disc.

Discs to avoid

Discs spin at high speed inside the player. If a disc is cracked, chipped, warped, or otherwise damaged, don't risk using it in your player—you could end up damaging the unit.

This unit is designed for use with conventional, fully circular discs only. Pioneer disclaims all liability arising in connection with the use of shaped discs.

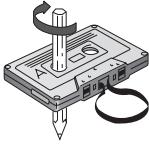
Note

¹ • For external subtitle files the following subtitle format filename extensions are supported (please note that these files are not shown within the disc navigation menu): .srt, .sub, .ssa, .smi

- Some external subtitle files may be displayed incorrectly or not at all.
- The filename of the movie file has to be repeated at the beginning of the filename for the external subtitle file.
- The number of external subtitle files which can be switched for the same movie file is limited to a maximum of 10.

Using cassette tapes

The tape of a cassette is quite easily damaged and loose tape can jam in the tape deck mechanism. If the tape has become unwound, use a pen or pencil to wind it back on to the spool.



When not using cassettes, always store in the case. Store cassettes away from magnetic fields, excessive heat, humidity, dust or oil.

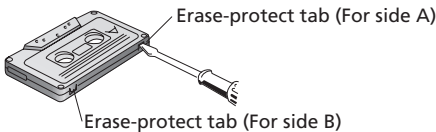
Before recording on a tape, wind the tape on past the leader tape (about the first 3 or 4 seconds of each side).

Tapes you should avoid

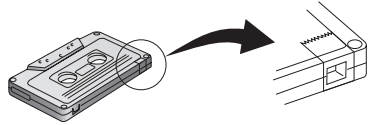
Since tapes longer than 90 minutes are so thin, they are more susceptible to jamming in the tape deck mechanism and other trouble such as irregular winding. Avoid using cassette tapes longer than 90 minutes.

Protecting your recordings

You can protect an important recording against accidental erasure by breaking the erase-protect tab(s) with a small screwdriver.



If you want to re-record on an erase-protected cassette, cover the space left by the broken tab with self-adhesive tape.



Installation and maintenance

Hints on installation

We want you to enjoy using this system for years to come, so please bear in mind the following points when choosing a location:

Do...

- ✓ Use in a well-ventilated room.
- ✓ Place on a solid, flat, level surface, such as a table, shelf or stereo rack.

Don't...

- ✗ Use in a place exposed to high temperatures or humidity, including near radiators and other heat-generating appliances.
- ✗ Place on a window sill or other place where the system will be exposed to direct sunlight.
- ✗ Use in an excessively dusty or damp environment.
- ✗ Place directly on top of an amplifier, or other component in your stereo system that becomes hot in use.
- ✗ Use near a television or monitor as you may experience interference—especially if the television uses an indoor antenna.
- ✗ Use in a kitchen or other room where the system may be exposed to smoke or steam.
- ✗ Use on a thick rug or carpet, or cover with cloth—this may prevent proper cooling of the system unit.
- ✗ Place on an unstable surface, or one that is not large enough to support all four of the system unit's feet.


Cleaning the pickup lens

The DVD player's lens should not become dirty in normal use, but if for some reason it should malfunction due to dust or dirt, consult your nearest Pioneer authorized service center. Although lens cleaners are commercially available, we do not recommend using them since some may damage the lens.

Problems with condensation





Condensation may form inside the player if it is brought into a warm room from outside, or if the temperature of the room rises quickly. Although this won't damage the player, it may temporarily impair performance. You should leave it to adjust to the warmer temperature for about an hour before switching on.

Moving the system unit

If you need to move the main unit, first remove a disc if there's one in the player, then press  **STANDBY/ON** on the front panel to turn the system off. Wait for **GOOD BYE** to disappear from the display, then unplug the power cord.¹ Never lift or move the unit during playback—discs rotate at high speeds and may damage.

Resetting the system

Use this procedure to reset all system settings to the factory default. Use the front panel controls to do this.

- 1 Switch the system into standby.**
- 2 Press and hold the  (stop) button for about 7 seconds until the display shows 'MEM.CLR?'**
Use  or  to select it if it does not show in the display.
- 3 Press the /II button.**
All the system's settings are now reset, and you should see **Welcome** in the front panel display.

Note

¹ Unplugging the unit before **GOOD BYE** disappears from the display may cause the system to return to the factory settings.

Troubleshooting

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest Pioneer authorized service center or your dealer to carry out repair work.

- If the unit does not operate normally due to external effects such as static electricity disconnect the power plug from the outlet and insert again to return to normal operating conditions.

General

Problem	Remedy
The power does not turn on.	<ul style="list-style-type: none"> • Connect the power plug to the wall outlet. • Disconnect the power plug from the outlet, and insert again. • Make sure the power source is the right voltage for the AC inlet.
The power suddenly switches off automatically and won't switch back on for a minute or so. Also, the timer indicator is blinking.	<ul style="list-style-type: none"> • If the speaker cables aren't connected properly, the system has a safety feature that shuts the power off automatically. Check the speaker wires to make sure they're connected properly. If there appears to be nothing wrong, try switching the power back on after the timer indicator has been blinking for a minute or so. • If you can't seem to switch the power back on after the timer indicator has been blinking for over a minute, the unit may be malfunctioning. Take it to your nearest Pioneer authorized service center or your dealer to carry out repair work.
No sound is output when a function is selected.	<ul style="list-style-type: none"> • If you're using the LINE input, make sure the component is connected correctly (see <i>Connecting auxiliary components</i> on page 12). • Press MUTE on the remote control to turn muting off. • Adjust the volume.
No image is output when watching discs.	<ul style="list-style-type: none"> • Make sure the TV is connected correctly (see <i>Connecting to your TV</i> on page 11).
System does not output digital audio at 96kHz.	<ul style="list-style-type: none"> • As a copy-protection measure, some DVDs do not output 96kHz audio. In this case, even if 96 kHz is selected, the player automatically outputs the audio at 48 kHz. This is not a malfunction.
Can't operate the remote control.	<ul style="list-style-type: none"> • Replace the batteries (see <i>Loading the batteries</i> on page 6). • Operate within 23 feet (7 m), 30° of the remote sensor on the front panel (see <i>Range of the remote control unit</i> on page 6). • Remove the obstacle or operate from another position. • Avoid exposing the remote sensor on the front panel to direct light.

Problem	Remedy
The microphone can't be heard.	<ul style="list-style-type: none"> • Stop the disc, then restart playback. • You are only using one microphone and it's plugged into the MIC (SUB) jack. The MIC (SUB) jack can only be used if there is also a microphone plugged into the MIC (MAIN) jack. • Adjust the MIC VOL.
Feedback noise when mic is switched on.	<ul style="list-style-type: none"> • The mic is pointing toward the speakers. Keep the mic pointed away from the speakers. • The microphone level is set too high. Turn down the mic control level.
SND. DEMO shows in the display and the unit can't be controlled.	<ul style="list-style-type: none"> • Press and hold ■ (stop) on the front panel for about five seconds. The disc tray ejects automatically to indicate the Sound Demo mode is disabled.
TRAYLOCK shows in the display and the tray can't be ejected.	<ul style="list-style-type: none"> • Press and hold ▲ (eject) on the front panel for about eight seconds. Then the tray can be opened/closed using ▲ (eject).

DVD/CD/Video CD player

Problem	Remedy
The disc is ejected automatically after loading.	<ul style="list-style-type: none"> • Clean the disc. • Align the disc properly in the disc guide. • If the region number on a DVD-video disc does not match the number on the player, the disc cannot be used (see <i>DVD Video regions</i> on page 49). • Allow time for any condensation inside the player to evaporate. Avoid using the player near an air-conditioning unit.
Playback is not possible.	<ul style="list-style-type: none"> • Disc may be loaded upside down. Reload the disc with the label side face up.
Picture playback stops and the operation buttons cannot be used.	<ul style="list-style-type: none"> • Press ■, then start playback again (▶). • Switch the power off once, then on again using the front panel ⏻ STANDBY/ON button.
Settings are canceled.	<ul style="list-style-type: none"> • When the power is cut due to power failure or by unplugging the power cord for several days, settings will be canceled.
No picture/No color.	<ul style="list-style-type: none"> • Check that connections are correct and that plugs are inserted fully. • Check the instruction manual of the TV/monitor to make sure the TV/monitor settings are incorrect.
Screen is stretched or aspect does not change.	<ul style="list-style-type: none"> • The TV Screen setting is incorrect. Set the TV Screen option to match the TV/monitor you're using (see <i>Video Output settings</i> on page 44).
When recorded on a VCR or passed through an AV selector, there is disturbance in the playback picture.	<ul style="list-style-type: none"> • Due to the player's copy protection circuits, connection of this device through a VCR or an AV selector may prevent recording or cause picture problems. This is not a malfunction.

Problem	Remedy
Picture disturbance during playback or dark.	<ul style="list-style-type: none"> This player is compatible with Macro-Vision System copy guard. Some discs include a copy prevention signal, and when this type of disc is played back, stripes etc., may appear on some sections of the picture depending on the TV. This is not a malfunction. Discs respond differently to particular player functions. This may result in the screen becoming black for a brief instant or shaking slightly when the function is executed. These problems are largely due to differences between discs and disc content and are not malfunctions of this player.
Noticeable difference in DVD and CD volume.	<ul style="list-style-type: none"> DVDs and CDs use different recording methods. This is not a malfunction.

WMA/MP3/JPEG discs

Problem	Remedy
CD-ROM disc is not recognized by the system.	<ul style="list-style-type: none"> Make sure that the CD-ROM was recorded using the ISO 9660 disc format. See <i>Disc / content format playback compatibility</i> on page 49 for other disc compatibility information.
Files don't show up in the Disc Navigator/ Photo Browser.	<ul style="list-style-type: none"> The files on the disc must be named with the correct file extension: .mp3 for MP3 files; .wma for WMA files; .jpg for JPEG files (upper or lower-case is OK). See <i>Disc / content format playback compatibility</i> on page 49 for other disc compatibility information.

Tuner

Problem	Remedy
Considerable noise in radio broadcasts.	<ul style="list-style-type: none"> Connect the antenna (see <i>Connecting the radio antennas</i> on page 10). Fully extend the FM wire antenna, position for best reception, and secure to a wall. Connect an outdoor FM antenna (see <i>Connecting external antennas</i> on page 11). Adjust the direction and position for best reception. Connect an additional internal or external AM antenna (see <i>Connecting the radio antennas</i> on page 10). Turn off any other equipment that may be causing the noise or move it away from the unit. Place the antenna farther away from any other equipment that may be causing the noise. The tuning interval is incorrect for your country or region. Try switching the tuning interval (see <i>Frequency step setting</i> on page 48).
Auto tuning does not pick up some stations.	<ul style="list-style-type: none"> The radio signal is weak. Auto tuning will only detect radio stations with a good signal. For more sensitive tuning, connect an outdoor antenna.

Problem	Remedy
Sound is mono only.	<ul style="list-style-type: none"> • Check that the tuner is not set to FM mono (see <i>Improving FM stereo sound</i> on page 22).

Tape deck

Problem	Remedy
Cannot record.	<ul style="list-style-type: none"> • Check that the cassette still has its erase-protect tabs intact, or that they are covered with self-adhesive tape (<i>Using cassette tapes</i> on page 52).
Sound is muffled or previous recording is still audible underneath the new one.	<ul style="list-style-type: none"> • The tape heads may be dirty. Clean the tape heads using a head-cleaning cassette or cleaning kit. • Check that you're using a Type I (normal) tape. Do not use Type II (high/CrO₂) or Type IV (metal) tapes.
Music search does not work	<ul style="list-style-type: none"> • The spaces between songs may be too short for music search to work. • Make sure that the tape is playing when using music search—it will not work if the tape is stopped.
Recording made from the LINE input are distorted or very quiet.	<ul style="list-style-type: none"> • Set the line attenuator on or off as necessary (see <i>System Setup menu options in standby</i> on page 48).

Error Messages

Message	Description
KEY LOCK	<ul style="list-style-type: none"> • This message appears when the front panel buttons are pressed when the child lock feature is active. See <i>Optional system settings</i> on page 48 for more on switching on/off the child lock.
RMODE ON	<ul style="list-style-type: none"> • An operation is prohibited because the line recording mode is on (see <i>Using the Sound menu</i> on page 27), or when recording to the tape deck.
PHONES IN	<ul style="list-style-type: none"> • An operation is prohibited because headphones are connected.
96K	<ul style="list-style-type: none"> • An operation is prohibited because the source is digital 96kHz PCM.
MUTING	<ul style="list-style-type: none"> • An operation is prohibited because the sound is muted.
EXIT	<ul style="list-style-type: none"> • Appears briefly when a menu is automatically exited after a set period of inactivity.
NO MIC	<ul style="list-style-type: none"> • A karaoke feature is prohibited because no mic is connected.
MIC IN	<ul style="list-style-type: none"> • An operation is prohibited because the mic is connected.

Screen sizes and disc formats

DVD-Video discs come in different screen aspects, ranging from TV programs, which are generally 4:3, to CinemaScope widescreen movies¹, with an aspect ratio of up to about 7:3. Televisions also come in different aspect ratios; 'standard' 4:3 and widescreen 16:9.²



Set to 4:3 (Letter Box), widescreen discs are shown with black bars top and bottom.



Set to **4:3 (Pan&Scan)**, widescreen discs are shown with the left and right sides cropped. Although the picture looks larger, you don't actually see the whole picture.

Using the language code list

Some of the language options (see *Language settings* on page 45) allow you to set your preferred language from any of the 136 languages listed in the *Language code list*.

- 1 **Select 'Other Language'.**
- 2 **Use ←/→ (cursor left/right) to select either a code letter or a code number.**
- 3 **Use ↑/↓ (cursor up/down) to select a code letter or a code number.**

See the *Language code list* (next page) for a complete list of languages and codes.

Note

- ¹ Many widescreen discs override the system's settings so that the disc is shown in letterbox format regardless of the setting.
- ² • Using the **16:9 (Wide)** setting with a standard 4:3 TV, or one of the **4:3** settings with a widescreen TV, will result in distortion.
 - When you watch discs recorded in 4:3 format, you can use the TV controls to select how the picture is presented. Your TV may offer various zoom and stretch options; see the instructions that came with your TV for details.
 - Some movie aspect ratios are wider than 16:9, so even with a widescreen TV, these discs will still play in a 'letterbox' style.

Language code list

Language (Language code letter), **Language code**

Japanese (ja), 1001	Estonian (et), 0520	Lingala (ln), 1214	Slovak (sk), 1911
English (en), 0514	Basque (eu), 0521	Laothian (lo), 1215	Slovenian (sl), 1912
French (fr), 0618	Persian (fa), 0601	Lithuanian (lt), 1220	Samoan (sm), 1913
German (de), 0405	Finnish (fi), 0609	Latvian (lv), 1222	Shona (sn), 1914
Italian (it), 0920	Fiji (fj), 0610	Malagasy (mg), 1307	Somali (so), 1915
Spanish (es), 0519	Faroese (fo), 0615	Maori (mi), 1309	Albanian (sq), 1917
Dutch (nl), 1412	Frisian (fy), 0625	Macedonian (mk), 1311	Serbian (sr), 1918
Russian (ru), 1821	Irish (ga), 0701	Malayalam (ml), 1312	Siswati (ss), 1919
Chinese (zh), 2608	Scots-Gaelic (gd), 0704	Mongolian (mn), 1314	Sesotho (st), 1920
Korean (ko), 1115	Galician (gl), 0712	Moldavian (mo), 1315	Sundanese (su), 1921
Greek (el), 0512	Guarani (gn), 0714	Marathi (mr), 1318	Swedish (sv), 1922
Afar (aa), 0101	Gujarati (gu), 0721	Malay (ms), 1319	Swahili (sw), 1923
Abkhazian (ab), 0102	Hausa (ha), 0801	Maltese (mt), 1320	Tamil (ta), 2001
Afrikaans (af), 0106	Hindi (hi), 0809	Burmese (my), 1325	Telugu (te), 2005
Amharic (am), 0113	Croatian (hr), 0818	Nauru (na), 1401	Tajik (tg), 2007
Arabic (ar), 0118	Hungarian (hu), 0821	Nepali (ne), 1405	Thai (th), 2008
Assamese (as), 0119	Armenian (hy), 0825	Norwegian (no), 1415	Tigrinya (ti), 2009
Aymara (ay), 0125	Interlingua (ia), 0901	Occitan (oc), 1503	Turkmen (tk), 2011
Azerbaijani (az), 0126	Interlingue (ie), 0905	Oromo (om), 1513	Tagalog (tl), 2012
Bashkir (ba), 0201	Inupiak (ik), 0911	Oriya (or), 1518	Setswana (tn), 2014
Byelorussian (be), 0205	Indonesian (in), 0914	Panjabi (pa), 1601	Tonga (to), 2015
Bulgarian (bg), 0207	Icelandic (is), 0919	Polish (pl), 1612	Turkish (tr), 2018
Bihari (bh), 0208	Hebrew (iw), 0923	Pashto, Pushto (ps), 1619	Tsonga (ts), 2019
Bislama (bi), 0209	Yiddish (ji), 1009	Portuguese (pt), 1620	Tatar (tt), 2020
Bengali (bn), 0214	Javanese (jw), 1023	Quechua (qu), 1721	Twi (tw), 2023
Tibetan (bo), 0215	Georgian (ka), 1101	Rhaeto-Romance (rm), 1813	Ukrainian (uk), 2111
Breton (br), 0218	Kazakh (kk), 1111	Kirundi (r), 1814	Urdu (ur), 2118
Catalan (ca), 0301	Greenlandic (kl), 1112	Romanian (ro), 1815	Uzbek (uz), 2126
Corsican (co), 0315	Cambodian (km), 1113	Kinyarwanda (rw), 1823	Vietnamese (vi), 2209
Czech (cs), 0319	Kannada (kn), 1114	Sanskrit (sa), 1901	Volapük (vo), 2215
Welsh (cy), 0325	Kashmiri (ks), 1119	Sindhi (sd), 1904	Wolof (wo), 2315
Danish (da), 0401	Kurdish (ku), 1121	Sangho (sg), 1907	Xhosa (xh), 2408
Bhutani (dz), 0426	Kirghiz (ky), 1125	Serbo-Croatian (sh), 1908	Yoruba (yo), 2515
Esperanto (eo), 0515	Latin (la), 1201	Sinhalese (si), 1909	Zulu (zu), 2621

Country/Area code list

Country/Area, Country/Area code, **Country/Area code letter**

Argentina, 0118, ar	Hong Kong, 0811, hk	Philippines, 1608, ph
Australia, 0121, au	India, 0914, in	Portugal, 1620, pt
Austria, 0120, at	Indonesia, 0904, id	Russian Federation, 1821, ru
Belgium, 0205, be	Italy, 0920, it	Singapore, 1907, sg
Brazil, 0218, br	Japan, 1016, jp	Spain, 0519, es
Canada, 0301, ca	Korea, Republic of, 1118, kr	Switzerland, 0308, ch
Chile, 0312, cl	Malaysia, 1325, my	Sweden, 1905, se
China, 0314, cn	Mexico, 1324, mx	Taiwan, 2023, tw
Denmark, 0411, dk	Netherlands, 1412, nl	Thailand, 2008, th
Finland, 0609, fi	New Zealand, 1426, nz	United Kingdom, 0702, gb
France, 0618, fr	Norway, 1415, no	United States of America, 2119, us
Germany, 0405, de	Pakistan, 1611, pk	

Preset code list

Please note that there are cases where only certain functions may be controllable after assigning the proper preset code, or the codes for the manufacturer in the list will not work for the model that you are using.

ACURA 644	FRONTECH/PROTECH 632	MANESTH 639, 646	SAMBERS 649
ADMIRAL 631	FUJITSU 648, 629	MARANTZ 607	SAMSUNG 607, 638, 644, 646
AIWA 660	FUNAI 640, 646, 658	MARK 607	SANYO 635, 645, 648, 621, 614
AKAI 632, 635, 642	GBC 632, 642	MATSUI 607, 639, 640, 642, 644, 647, 648	SBR 607, 634
AKURA 641	GE 601, 608, 607, 610, 617, 602, 628, 618	MEDIATOR 607	SCHAUB LORENZ 642
ALBA 607, 639, 641, 644	GEC 607, 634, 648	MEMOREX 644	SCHNEIDER 607, 641, 647
AMSTRAD 642, 644, 647	GELOSO 632, 644	METZ 631	SEG 642, 646
ANITECH 644	GENEXXA 631, 641	MINERVA 631, 653	MCMICHAEL 634
ASA 645	GOLDSTAR 610, 623, 621, 602, 607, 650	MITSUBISHI 609, 610, 602, 621, 631	SEI 632, 640, 649
ASUKA 641	GOODMANS 607, 639, 647, 648, 656	MULTITECH 644, 649	SELECO 631, 642
AUDIOGONIC 607, 636	GORENJE 638	NEC 659	SHARP 602, 619, 627
BASIC LINE 641, 644	GPM 641	NECKERMANN 631, 607	SIAREM 632, 649
BAUR 631, 607, 642	GRAETZ 631, 642	NEI 607, 642	SIEMENS 631
BEKO 638	GRANADA 607, 635, 642, 643, 648	NIKKAI 605, 607, 641, 646, 648	SINUDYNE 632, 639, 640, 649
BEON 607	GRADIENTE 630, 657	NOBLIKO 649	SKANTIC 643
BLAUPUNKT 631	GRANDIN 618	NOKIA 632, 642, 652	SOLAVOX 631
BLUE SKY 641	GRUNDIG 631, 653	NORDMENDE 632, 636, 651, 652	SONOKO 607, 644
BLUE STAR 618	HANSEATIC 607, 642	OSAKI 641, 646, 648	SONOLOR 631, 635
BPL 618	HCM 618, 644	OSO 641	SONTEC 607
BRANDT 636	HINARI 607, 641, 644	OSUME 648	SONY 604
BTC 641	HISAWA 618	OTTO VERSAND 631, 632, 607, 642	SOUNDWAVE 607
BUSH 607, 641, 642, 644, 647, 656	HITACHI 631, 633, 634, 636, 642, 643, 654, 606, 610, 624, 625, 618	OSAKI 641, 646, 648	STANDARD 641, 644
CASCADE 644	HUANUYU 656	OSO 641	STERN 631
CATHAY 607	HYPSON 607, 618, 646	OSUME 648	SUSUMU 641
CENTURION 607	ICE 646, 647	OTTO VERSAND 631, 632, 607, 642	SYSLINE 607
CGB 642	IMPERIAL 638, 642	PALLADIUM 638	TANDY 631, 641, 648
CIMLINE 644	INDIANA 607	PANAMA 646	TASHIKO 634
CLARIVOX 607	INGELEEN 631	PANASONIC 631, 607, 608, 642, 622	TATUNG 607, 648
CLATRONIC 638	INTERFUNK 631, 632, 607, 642	PATHO CINEMA 642	TEC 642
CONDOR 638	INTERVISION 646, 649	PAUSA 644	TELEAVIA 636
CONTEC 644	ISUKAI 641	PHILCO 632, 642	TELEFUNKEN 636, 637, 652
CROSLEY 632	ITC 642	PHILIPS 631, 607, 634, 656	TELETECH 644
CROWN 638, 644	JEC 605	PHONENIX 632	TENSAI 640, 641
CRYSTAL 642	JVC 613, 623	PHONOLA 607	THOMSON 636, 651, 652, 663
CRYBERTRON 641	KAISUI 618, 641, 644	PROFEX 642, 644	THORN 631, 607, 642, 645, 648
DAEWOO 607, 644, 656	KAPSCH 631	PROTECH 607, 642, 644, 646, 649	TOMASHI 618
DAINICHI 641	KENDO 642	QUELLE 631, 632, 607, 642, 645, 653	TOSHIBA 605, 602, 626, 621, 653
DANSAI 607	KENNEDY 632, 642	R-LINE 607	TOWADA 642
DAYTON 644	KORPEL 607	RADIOLA 607	ULTRAVOX 632, 642, 649
DECCA 607, 648	KOYODA 644	RADIOSHACK 610, 623, 621, 602	UNIVERSUM 631, 607, 638, 642, 645, 646, 654, 655
DIXI 607, 644	LEYCO 607, 640, 646, 648	RBM 653	VESTEL 607
DUMONT 653	LIESENKÄTTER 607	RCA 601, 610, 615, 616, 617, 618, 661, 662, 609	VICTOR 613
ELIN 607	LOEWE 607	REDIFFUSION 632, 642	VOXSON 631
ELITE 641	LUXOR 632, 642, 643	REX 631, 646	WALTHAM 643
ELTA 644	M-ELECTRONIC 631, 644, 645, 654, 655, 656, 607, 636, 651	ROADSTAR 641, 644, 646	WATSON 607
EMERSON 642	MAGNADYNE 632, 649	SABA 631, 636, 642, 651	WATT RADIO 632, 642, 649
ERRER 607	MAGNAPON 649	SAISHO 639, 644, 646	WHITE
FERGUSON 607, 636, 651	MAGNAVOX 607, 610, 603, 612, 629	SALORA 631, 632, 642, 643	WESTINGHOUSE 607
FINLANDIA 635, 643, 655			YOKO 607, 642, 646
FINLUX 632, 607, 645, 648, 653, 654, 655			ZENITH 603, 620
FIRSTLINE 640, 644			PIONEER 600, 631, 632, 607, 636, 642, 651
FISHER 632, 635, 638, 645			
FORMENTI 632, 607, 642			
FRONTECH 631, 642, 646			

Specifications

• **Amplifier section**

EV700/1000 model

Continuous power output:

- Front 100 W per channel
(1kHz, 10 % T.H.D., 6 Ω)
- Center 100 W (1kHz, 10 % T.H.D., 6 Ω)
- Surround 100 W per channel
(1kHz, 10 % T.H.D., 6 Ω)
- Subwoofer 100 W (100Hz, 10 % T.H.D., 6 Ω)

EV500 model

- Front 100 W per channel
(1 kHz, 10 % T.H.D., 6 Ω)

• **Disc section**

Digital audio

- characteristics DVD fs: 96 kHz, 24-bit
- Type DVD system, Video CD/Super VCD system
and Compact Disc digital audio system
- Frequency response 4 Hz to 44 kHz
- S/N ratio 95 dB
- Dynamic range 95 dB
- Total harmonic distortion 0.005 %
- Wow and Flutter Limit of measurement
(±0.001 % W.PEAK) or less (JEITA)

• **Cassette deck section**

- Systems 4 track, 2-channel stereo
- Heads Recording/playback head x 1
Erasing head x 1
- Motor DC servo motor x 1
- Tape types Type I (Normal)

• **FM tuner section**

- Frequency range 87.5 MHz to 108 MHz
- Antenna 75 Ω, unbalanced

• **AM tuner section**

- Frequency range
With 9kHz step 531 kHz to 1,602 kHz
With 10kHz step 530 kHz to 1,700 kHz
- Antenna Loop antenna

• **Miscellaneous**

Power requirements

- Multi voltage model. AC 110-127/220-230/
240 V (switchable), 50/60 Hz

Power consumption

- EV700/1000 model 179 W
- EV500 model 151 W
- Power consumption in standby mode 0.5 W

Dimensions:

- DVD Tuner Deck Receiver 170(W) 351.5 (H)
340.1 (D) mm

Weight:

- DVD Tuner Deck Receiver 7.2 kg

• **Accessories (Stereo DVD Tuner Deck)**

- Remote control 1
- Power cord
Central and South American, Taiwan,
Philippines models 2
All other models 1
- Power plug adapter (Central and South American,
US Military and Duty Free models only) 1
- Video cord 1
- AM loop antenna 1
- FM antenna 1
- Dry cell batteries (AA/R6) 2
- Warranty Card (US Military and Duty
Free models only) 1
- These operating instructions

Speaker system

• **Front speakers (S-EV500V/700V)**

- Enclosure Bass-reflex bookshelf type
(magnetically shielded)
- System 16 cm 2-way system
- Speakers:
Woofers 16 cm cone type
Tweeter 5.2 cm come type
- Nominal impedance 6 Ω
- Frequency range 42 Hz to 20 kHz
- Maximum input power 100 W
- Dimensions
. 200 (W) x 351.5 (H) x 235.5 (D) mm
- Weight 3.7 kg

- **Front speakers (S-EV1000V)**

Enclosure	Passive radiator type (magnetically shielded)
System	16 cm 2-way system
Speakers:	
Woofer	16 cm cone type
Tweeter	5.2 cm cone type
Nominal impedance	6 Ω
Frequency range	50 Hz to 20 kHz
Maximum input power	100 W
Dimensions	
	200 (W) x 465.5 (H) x 294 (D) mm
Weight	5.4 kg

- **Center speaker (S-EV700V/1000V only)**

Enclosure	Closed-box bookshelf type (magnetically shielded)
System	7.7 cm 1-way system
Speaker	7.7 cm cone type
Nominal impedance	6 Ω
Frequency range	94 Hz to 18 kHz
Maximum input power	100 W
Dimensions	361 (W) x 108 (H) x 96 (D) mm
Weight	0.9 kg

- **Surround speakers (S-EV700V/1000V only)**

Enclosure	Closed-box bookshelf type (magnetically shielded)
System	7.7 cm 1-way system
Speaker	7.7 cm cone type
Nominal impedance	6 Ω
Frequency range	104 Hz to 20 kHz
Maximum input power	100 W
Dimensions	190 (W) x 108 (H) x 96 (D) mm
Weight	0.75 kg

- **Subwoofer (S-EV700V/1000V only)**

Enclosure	Passive radiator type (magnetically shielded)
System	16 cm 1-way system
Speaker	16 cm cone type
Nominal impedance	6 Ω
Frequency range	.38 Hz to 2 kHz
Maximum input power	100 W
Dimensions	
	200 (W) x 351.5 (H) x 430 (D) mm
Weight	5.9 kg

- **Accessories (Speaker System)**

Speaker cords (S-EV1000 only)	3
Speaker stands (S-EV700/1000 only)	2
Non-skid pads (S-EV700/1000 only)	12


Note

- Specifications and design subject to possible modification without notice, due to improvements.

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