

# **DVD MINI KARAOKE SYSTEM**

## **OWNER'S MANUAL**

**MODEL: LF-K5932** 

|LF-K5932A, LF-KP5932

LFS-K5932V, LFS-K5932C, LFS-K5932T























Please read this manual carefully before operating your set. Retain it for future reference.

Designs and specifications are subject to change without notice for improvement.

### **Safety Precautions**



#### CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



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



This 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.



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.

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CLASS 1 LASER PRODUCT KLASSE 1 LASER PRODUKT LUOKAN 1 LASER LAITE KLASS 1 LASER APPARAT CLASSE 1 PRODUIT LASER

#### **CAUTION:**

This product employs a Laser System.

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference, should the unit require maintenance, contact an authorized service location-see service procedure.

Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

**CAUTION:** The apparatus shall not be exposed to water, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

#### **CAUTION** concerning the Power Cord

servicer.

## Most appliances recommend they be placed upon a dedicated circuit:

That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized

Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

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#### About the symbols for instructions

Indicates hazards likely to cause harm to the unit itself or other material damage.

M Indicates special operating features of this unit.

Indicates tips and hints for making the task easier.

### **Before Use**

### **Playable Discs**

| VIDEO <sup>M</sup>                  | DVD<br>(8 cm / 12 cm disc)            |
|-------------------------------------|---------------------------------------|
| COMPACT DIGITAL VIDEO               | Video CD (VCD)<br>(8 cm / 12 cm disc) |
| COMPACT<br>COMPACT<br>DIGITAL AUDIO | Audio CD<br>(8 cm / 12 cm disc)       |

In addition, this unit can play a DVD±R, DVD±RW, SVCD, and CD-R or CD-RW that contains audio titles, MP3, WMA, JPEG or DivX files.

### **Notes**

- Depending on the conditions of the recording equipment or the CD-R/RW (or DVD±R/RW) disc itself, some CD-R/RW (or DVD±R/RW) discs cannot be played on the unit.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal). It may result in malfunctions.

### Notes on DVDs and Video CDs

Some playback operations of DVDs and Video CDs may be intentionally fixed by software manufacturers. As this unit plays DVDs and Video CDs according to disc content designed by the software manufacturer, some playback features of the unit may not be available or other functions may be added.

Refer also to the instructions supplied with the DVDs and Video CDs. Some DVDs made for business purposes may not be played on the unit.

#### Regional code of the DVD player and DVDs

This DVD player is designed and manufactured for play-back of region "5" encoded DVD software. The region code on the labels of some DVD discs indicates which type of player can play those discs. This unit can play only DVD discs labeled "5" or "ALL". If you try to play any other discs, the message "Check Regional Code" will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.

### Mote on DTS-encoded CDs

When playing DTS-encoded CDs, excessive audio level may be heard from the analog stereo output. To avoid possible damage to the audio system, turn down the volume before playing back such discs, adjust the volume gradually, and keep the volume level low. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output of the unit.

#### **Disc-related terms**

#### Title (DVD only)

The main film content or accompanying feature content or additional feature content, or music album. Each title is assigned a title reference number enabling you to locate it easily.

#### Chapter (DVD only)

Sections of a picture or a musical piece that are smaller than titles. A title is composed of one or several chapters. Each chapter is assigned a chapter number, enabling you to locate the chapter you want. Depending on the disc, chapters may not be recorded.

#### Track (Video CD and audio CD only)

Sections of a picture or a musical piece on a video CD or an audio CD. Each track is assigned a track number, enabling you to locate the track you want.

#### Scene

On a video CD with PBC (Playback control) functions, moving pictures and still pictures are divided into sections called "Scenes". Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want.

A scene is composed of one or several tracks.

#### Types of video CDs

There are two types of video CDs:

#### Video CDs equipped with PBC (Version 2.0)

PBC (Playback control) functions allow you to interact with the system via menus, search functions, or other typical computer-like operations. Moreover, still pictures of high resolution can be played if they are included in the disc.

#### Video CDs not equipped with PBC (Version 1.1)

Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

### Before Use (Cont'd)

### **Precautions**

#### Handling the unit

#### When shipping the unit

The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packed at the factory.

#### When setting up the unit

The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. In this case, position the unit away from the TV, VCR, or radio, or turn off the unit after removing the disc.

#### To keep the exterior surfaces clean

Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

### Cleaning the unit

#### To clean the cabinet

Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

#### To obtain a clear picture

The DVD player is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality will be poor.

Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)

For details, please contact your nearest dealer.

#### Notes on Discs

#### **Handling discs**

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints will not get on the surface.

Do not stick paper or tape on the disc.





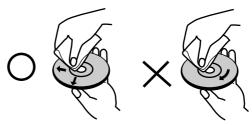
### Storing discs

After playing, store the disc in its case.

Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

### Cleaning discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

### **About Symbols**

### About the w symbol display

" w " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific DVD video disc.

#### About the disc symbols for instructions

A section whose title has one of the following symbol is applicable only to the disc represented by the symbol.

**DVD** DVD

VCD Video CDs

CD Audio CDs

MP3 MP3 disc

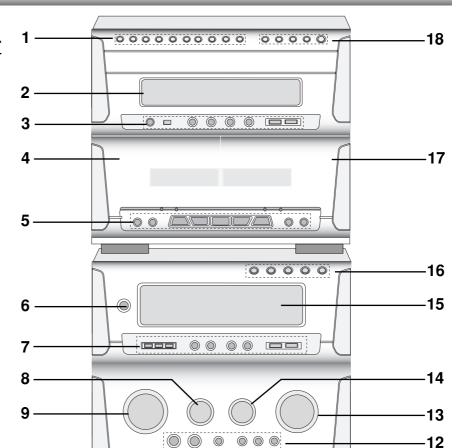
WMA WMA disc

JPEG JPEG disc

**DivX** DivX disc

### **Front Panel**

### Cassette tape player/ DVD/KARAOKE player



- 1. NUMERIC buttons (0~9)
- 2. DISPLAY WINDOW

**Tuner/ Amplifier** 

- 3. PLAY MODE/ REPEAT buttons
  - CD SEARCH (◀◀/▶▶) buttons
  - CD STOP (■STOP)/ CD PLAY (►) buttons

10

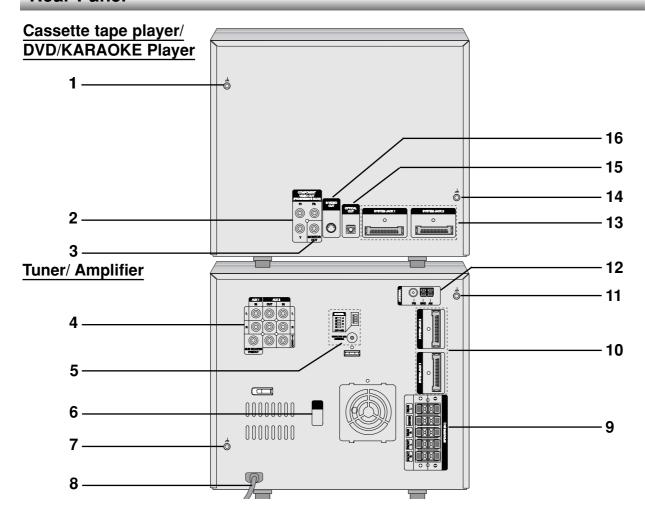
- CD PAUSE (▮)/ PROGRAM button
- 4. ▲ PUSH EJECT position (TAPE 1)
- 5. TAPE FUNCTION buttons
  - COUNTER RESET (COUNT. RESET) button
  - RECORD/ RECORD PAUSE (●REC/II) button
  - REWIND/ FAST FORWARD (◀◀/▶▶) buttons
  - REVERE PLAY (◄)/ PLAY (▶) buttons
  - STOP (■) button
  - NORMAL DUBBING/ CD SYNCHRO RECORDING (CD SYNC.) button
  - HIGH DUBBING button
- 6. POWER ( STANDBY/ON) button
- 7. CLOCK/ TIMER/ MEMORY/ CLEAR buttons
  - PRESET (▼/▲) buttons
  - AUTO TUNING (▼/▲) buttons
  - SET button
  - MODE/RIF/DEMO button

- 8. ECHO VOLUME KNOB (ECHO VOL.)
- 9. MULTI JOG DIAL
  - CD SKIP (I◄◄/▶►I)
  - MANUAL TUNING
  - CLOCK ADJUST
- 10. HEADPHONE SOCKET (  $\Omega$  PHONES)  $\emptyset$  6.3mm
- 11. MIC JACKS (MIC1, MIC2)
- 12. XDSS/ OAO/ SURROUND/ MUSIC/ DANCE/ USER buttons

11

- 13. VOLUME knob
- 14. MIC VOLUME KNOB (MIC VOL.)
- 15. DISPLAY WINDOW
- 16. FUNCTION SELECT buttons (TUNER/BAND, TAPE 1-2, DVD/CD/KARAOKE, AUX1/ AUX2)
- 17. ▲ PUSH EJECT position (TAPE 2)
- 18. DISC DIRECT PLAY buttons (DISC1, DISC2, DISC3)
  - DISC SKIP button (D. SKIP)
  - CD OPEN/CLOSE button (▲ OPEN/CLOSE)

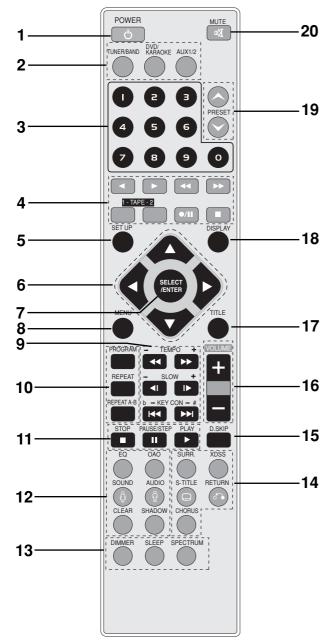
### **Rear Panel**



- 1. LUG Connector
- 2. COMPONENT VIDEO OUT (PROGRESSIVE SCAN) (Y Pb Pr) Connector
- 3. MONITOR OUT Connector
- 4. VIDEO INPUT/OUTPUT
  - AUX 1 INPUT (L/R)
  - AUX 2 INPUT/OUTPUT (L/R)
  - SUB WOOFER OUTPUT
- 5. WIRELESS MIC CHANNEL SWITCH
  - WIRELESS MIC ANTENNA Connector
- 6. VOLTAGE SELECTOR: OPTIONAL

- 7. LUG Connector
- 8. POWER CORD
- 9. SPEAKER Connector
- SYSTEM Connector
   (SYSTEM JACK1/ SYSTEM JACK2)
- 11. LUG Connector
- 12. ANTENNA Connector
- 13. SYSTEM Connector
  (SYSTEM JACK1/ SYSTEM JACK2)
- 14. LUG Connector
- 15. OPTICAL OUT Connector
- 16. S-VIDEO OUT Connector

### **Remote Control**



- 1. POWER button
- FUNCTION SELECT buttons (TUNER/BAND, DVD/KARAOKE, AUX1/2)
- 3. NUMERIC buttons (0-9)
- 4. TAPE FUNCTION buttons
  - REVERSE PLAY (◀)
  - PLAY (►)
  - REWIND/ FAST FORWARD PLAY (◀◀/▶▶)
  - TAPE 1/2 SELECT buttons
  - RECORD/ RECORD PAUSE (●/II)
  - TAPE STOP (■)
- 5. SET UP button
- ARROW buttons (♠ / ♦ / ♦ / ♦)
   (For use in highlighting a selection on a GUI menu screen, TITLE and MENU screen.)
- 7. SELECT/ENTER button
- MENU button
   (Use the MENU button to display the menu screen
- SCAN (◀◀/▶▶)/ TEMPO (-/+)/ SLOW (◀I/I▶)/ KEY CONTROL (#/b)/ SKIP (I◀◀/▶►I) buttons
- 10. PROGRAM/ REPEAT/ REPEAT A-B buttons

included on DVD video discs.)

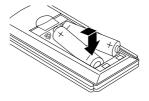
- 11. STOP (■), PAUSE(II)/ STEP, PLAY (▶) buttons
- 12. EQUALIZER (EQ)/ OAO/ SOUND/ FEMALE( \$ )
  AUDIO/ MALE( \$ )/ CLEAR/ SHADOW buttons
- 13. DIMMER/ SLEEP/ SPECTRUM buttons
- 14. SURROUND (SURR.)/ XDSS/ SUBTITLE (S-TITLE)/ RETURN buttons
  - CHORUS button (When a Song with chorus function is played, use this button.)
- 15. DISC SKIP (D.SKIP) buttons
- 16. VOLUME -/+ buttons
- TITLE button
   (Use the TITLE button to display the title screen included on DVD video discs.)
- 18. DISPLAY button
- 19. PRESET ( ➤ / ▲ ) buttons
- 20. MUTE button

### **Remote Control Operation Range**

Point the remote control at the remote sensor and press the buttons.

- Distance: About 23 ft (7 m) from the front of the remote sensor
- Angle: About 30° in each direction of the front of the remote sensor

#### Remote control battery installation



Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with • and

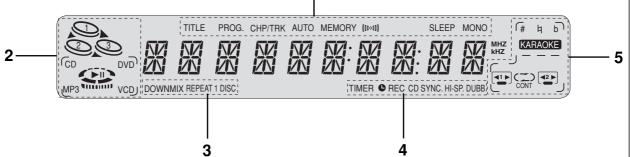
aligned correctly.

### riangle Caution

Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

### **Display Window**

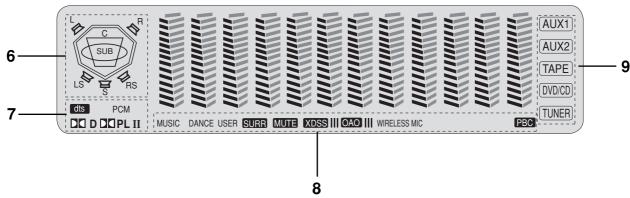
## Cassette tape player/ DVD/KARAOKE Player



- 1. TITLE indicator
  - PROGRAM (PROG.) indicator
  - CHAPTER/ TRACK indicator
  - AUTO SEARCH indicator
  - MEMORY indicator
  - FM STEREO RECEIVING indicator
  - SLEEP indicator
  - MONO indicator
- 2. DISC NUMBER indicator
  - DISC TYPE indicator (MP3/DVD/CD/VCD)
  - PLAY/ PAUSE indicator

- 3. DOWNMIX indicator
  - REPEAT indicator
- 4. TIMER indicator
  - RECORD/ RECORD PAUSE indicator
  - CD SYNCHRO RECORDING indicator
  - DUBBING indicator
- 5. KEY CONTROL (b#) indicator
  - KARAOKE indicator
  - TAPE 1/2 SELECT indicator
  - PLAY MODE indicator
  - TAPE PLAY DIRECTION indicator

### Tuner/ Amplifier



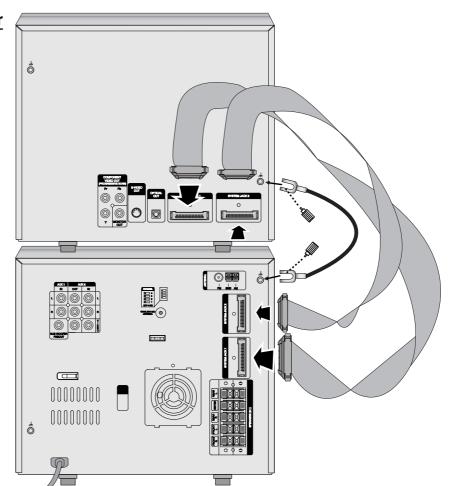
- 6. LEFT FRONT SPEAKER indicator (L)
  - RIGHT FRONT SPEAKER indicator (R)
  - RIGHT SURROUND SPEAKER indicator (RS)
  - LEFT SURROUND SPEAKER indicator (LS)
  - SUB WOOFER indicator (SUB)
  - CENTER SPEAKER indicator (C)
- 7. DTS/ PCM indicator
  - DOLBY DIGITAL/ DOLBY PRO LOGIC (II) indicator

- 8. MUSIC/ DANCE/ USER indicator
  - SURROUND/ MUTE/ XDSS/ OAO indicator
  - MICROPHONE/ WIRELESS MICROPHONE indicator
  - PBC indicator
- FUNCTION SELECT indicator (AUX1, AUX2, TAPE, DVD/CD, TUNER)

### Fitting the system connection cables

- Your unit consists of two separate parts, Cassette tape player/DVD/KARAOKE player and an integrated Tuner/ Amplifier.
- Before you can use your unit, the separate parts must be connected with the supplied system connection cables.
- Make sure that all connections are made with your unit unplugged from the mains supply.

### Cassette tape player/ DVD/KARAOKE Player



## Tuner/ Amplifier

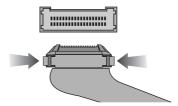
Stack the parts of your unit in the order shown above.

Position your unit so that you have easy access to the rear of it.

- Connect the SYSTEM JACK1 on the Cassette tape player/DVD/KARAOKE Player to the SYSTEM JACK1 connector on the Tuner/ Amplifier.
- Connect the SYSTEM JACK2 connector on the Cassette tape player/DVD/KARAOKE Player player to the SYSTEM JACK2 connector on the tuner/ Amplifier.
- Connect the LUG cable to the LUG connector on the unit with the supplied hand screw.

#### Notes

- The system connection cables will only connect and should 'click' into place, do not try to force them.
- If you need to unplug the system connection cables, squeeze both sides of each plug before pulling it out - this will 'unlock' the plug and allow it to be released.



### Connecting to a TV

 Make one of the following connections, depending on the capabilities of your existing equipment.

### T ips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the unit. Use one of the connections described below.
- Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.

### **A**Caution

- Make sure the unit is connected directly to the TV.
   Select the correct AV input on your TV.
- Do not connect your unit to TV via your VCR. The DVD image could be distorted by the copy protection system.

#### Video connection

Connect the MONITOR OUT jack from the unit to the VIDEO IN jack on the TV using the video cable supplied (V).

#### S-Video connection

Connect the S-VIDEO OUT jack on the unit to the S-VIDEO IN jack on the TV using the S-Video cable (S).

### Component Video (Color Stream®) connection

Connect the COMPONENT VIDEO (PROGRESSIVE SCAN) jacks from the unit to the corresponding in jacks on the TV using an Y Pb Pr cable **(C)**.

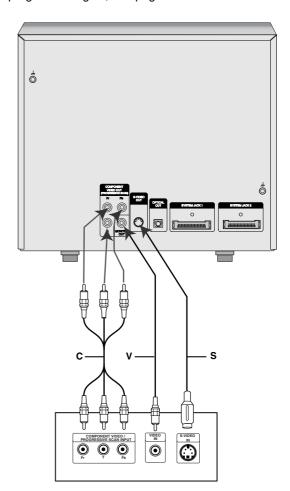
#### Progressive Scan (ColorStream® pro) connection

- If your television is a high-definition or "digital ready" television, you may take advantage of the unit's progressive scan output for the highest video resolution possible.
- If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the unit.

Connect the COMPONENT VIDEO OUT (PROGRESSIVE SCAN) jacks from the unit to the corresponding in jacks on the TV using an optional Y Pb Pr cable (C).

### N ote

 Set the Progressive to "On" on the Setup menu for progressive signal, see page 22.

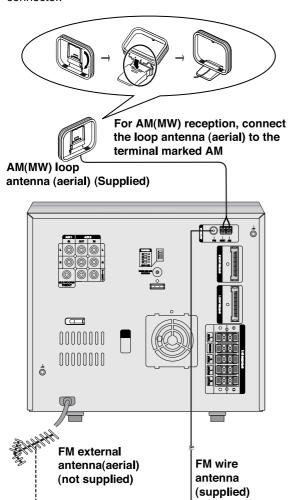


Rear of TV

### **Connecting to Antenna**

Connect the supplied FM/AM antennas for listening to the radio.

- Connect the AM loop antenna to the AM antenna connector.
- Connect the FM wire antenna to the FM antenna connector.



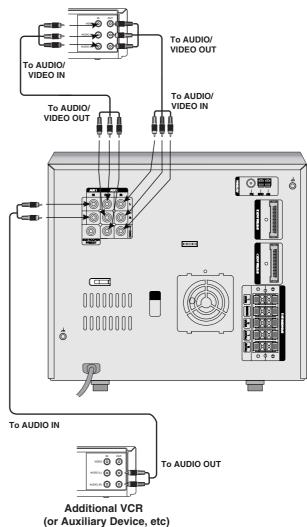
### √ otes

- To prevent noise pickup, keep the AM loop antenna away from the unit and other component.
- Be sure to fully extend the FM wire antenna.
- After connecting the FM wire antenna, keep it as horizontal as possible.

### **Connecting to Auxiliary Equipment**

You can use VCR or other unit connected to the AUX1, AUX2 connector.

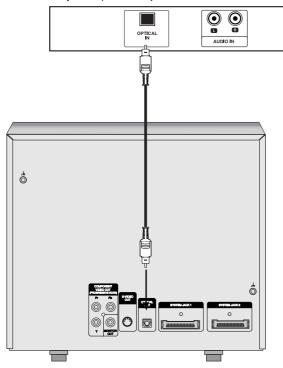
VCR (or Auxiliary Device, etc)



- Connect a VCR or auxiliary device, etc to the AUX 1 connector.
- **2** Connect a additional VCR or auxiliary device, etc to the AUX 2 connector.
- Select AUX1 or AUX2 pressing the AUX button on the Tuner/ Amplifier or the AUX1/2 button on the remote control.

### **Connecting to Optional Equipment**

#### **Amplifier (Receiver)**



[Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/ Video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2 or DTS)

Connect the OPTICAL OUT jack on the unit to the OPTICAL IN jack on your amplifier. Use an optional audio cable.

# ⚠ Caution:

Due to the DTS Licensing agreement, the digital output will be in DTS digital out when DTS audio stream is selected.

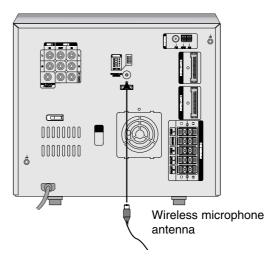
The sound is muted during playback on an audio CD recorded in dts.

# **Notes**

- If the audio format of the digital output does not match the capabilities of your unit, the DVD Karaoke will produce a strong, distorted sound or no sound at all
- Six Channel Digital Surround Sound via digital connection can only be obtained if your unit is equipped with a Digital Multi-channel decoder.
- To see the audio format of the current unit in the On-Screen Display, press AUDIO.

# Connecting to the Wireless microphone antenna

When you use the wireless microphone, connect the supplied wireless microphone antenna to the wireless microphone antenna jack of the unit.

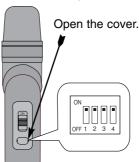


# Setting the Wireless microphone Channel

 If there is a similar wireless microphone product nearby, interference may occur. In this case, change the channel switch to other channel, and turn off the power, then turn on again.

By using the Channel Switch, set the same channel.

[Wireless microphone] [Rear panel of the unit]



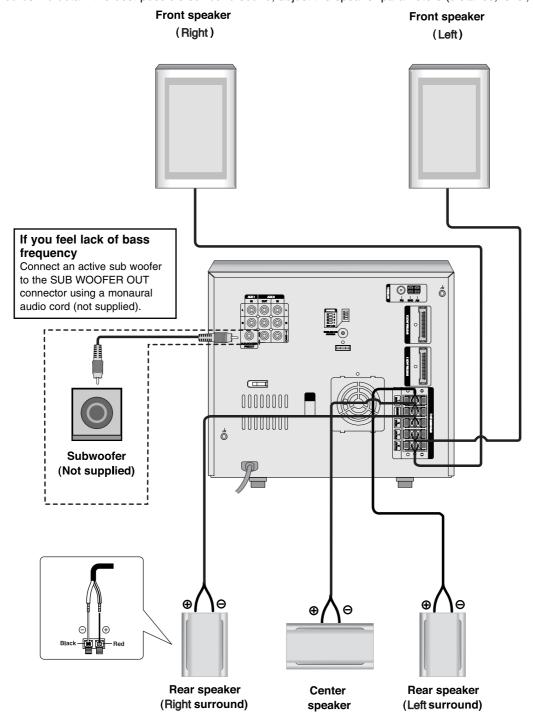


You can set the channel change with 10 types.

| Channel switch number |     |     | Channel number |      |  |
|-----------------------|-----|-----|----------------|------|--|
| 1                     | 2   | 3   | 4              |      |  |
| ON                    | OFF | OFF | OFF            | CH1  |  |
| OFF                   | ON  | OFF | OFF            | CH2  |  |
| ON                    | ON  | OFF | OFF            | CH3  |  |
| OFF                   | OFF | ON  | OFF            | CH4  |  |
| ON                    | OFF | ON  | OFF            | CH5  |  |
| OFF                   | ON  | ON  | OFF            | CH6  |  |
| ON                    | ON  | ON  | OFF            | CH7  |  |
| OFF                   | OFF | OFF | ON             | CH8  |  |
| ON                    | OFF | OFF | ON             | CH9  |  |
| OFF                   | ON  | OFF | ON             | CH10 |  |

### **Speaker System Connection**

Connect the speakers using the supplied speaker cords by matching the colors of the terminals and those of the cords. To obtain the best possible surround sound, adjust the speaker parameters (distance, level, etc.).



# **√** otes

- Be sure to match the speaker cord to the appropriate terminal on the components: + to + and to -. If the cords are reversed, the sound will be distorted and will lack base.
- If you use front speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.

### Speaker Positioning

In the case of normal position use the 6 speakers (2 front speakers, center speaker, 2 rear speakers and sub-woofer).

If you want to play the excellent bass sound or Dolby Digital surround, you should connect a subwoofer.

#### · Front speakers

According to your listening position set up the speakers for equal distance. And by hearing position set up the interval between speakers to 45 degree.

#### · Center speaker

It is ideal that the center speakers and front speakers are same height. But normally place it above or below the television.

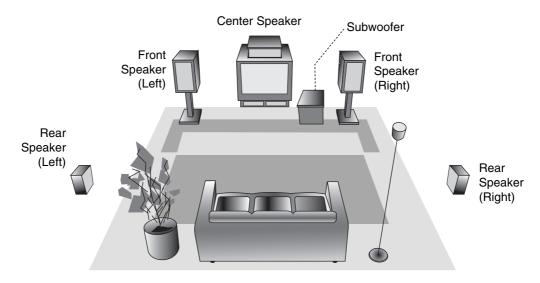
#### · Rear speakers

Place left and right behind the listening area.

These speakers recreate sound motion and atmosphere required for surround playback. For best results, do not install the rear speakers too far behind the listening position and install them at or above the level of the listener's ears. It is also effective to direct the rear speakers towards a wall or ceiling to further disperse the sound. In the case of a smaller room size, if the audience is near to the rear wall set the rear speakers opposite each other, and set the rear speakers above 60-90cm than the listener's ears.

#### Subwoofer

This can be placed in any front position.



**Speaker Positioning Example** 

### **Volume Adjustment**

- Turn VOLUME knob clockwise to increase the sound level, or counterclockwise to decrease it.
- Press VOLUME + to increase the sound level, or use VOLUME - to decrease it on the remote control.

### **Sound Quality Adjustment**

- · To activate stereo sound
  - You can choose between 8 fixed sound impressions and 1 USER MODE.

Select a desired sound mode by using the **EQ** button on the remote control.

- Each you press the button the indication changes as follows in the display window.

- If you press the MUSIC button, the indication changes as follows in the display window.

$$\mathsf{FLAT} \to \mathsf{POP} \to \mathsf{CLASSIC} \to \mathsf{ROCK} \to \mathsf{VOCAL}$$

 If you press the DANCE button, the indication changes as follows in the display window.

### **√** ote

This function is only available to the "BYPASS" sound mode.

#### · Headphone Jack

Connect a stereo headphone plug ( $\emptyset$ 6.3mm) into the headphone jack.

The speakers are automatically disconnected when you plug in the headphones (not supplied).

### **MUTE**

Press MUTE to turn off the sound, press again to restore. You can mute your unit in order, for example, to answer the telephone, "MUTE" indicator flashes in the display window.

### **SURROUND**

#### To activate surround mode

- You can choose between 6 fixed sound impressions.
- Select a desired surround mode by using the SURROUND button on the front panel or the SURR. button on the display window.
- Each you press the button the indication changes as follows.

SURROUND OFF  $\rightarrow$  SIMULATED LOW  $\rightarrow$  SIMULATED HIGH  $\uparrow$ 

MOVIE HIGH ← MOVIE LOW ← MUSIC HIGH ← MUSIC LOW

### N ote

This function is only available to the "BYPASS" sound mode.

### XDSS (Extreme Dynamic Sound System)

Press XDSS button repeatedly to reinforce treble and bass.

### N ote

This function is only available to the "BYPASS" sound mode.

# OAO (Orientation Acoustic Optimizer) ON/OFF

Press OAO to reinforce the bass sound. The "OAO ON" or "OAO OFF" indicator lights. To cancel, press OAO again.

#### SPECTRUM Effect

Whenever you press the SPECTRUM button on the remote control, you can enjoy the spectrum change with 6 types in the display.

#### **DIMMER**

This function will change the brightness of the display window on the front panel in power-on status.

Press the DIMMER button on the remote control.

#### **DEMO**

Press **DEMO** in power off state to demonstrate the function in the display window.

To cancel it, press **POWER** or **DEMO** again. During demonstration in power-on status you can cancel it by using the other buttons.

### Setting the Clock

#### Press CLOCK.

(If the clock requires setting, press and hold CLOCK for more than 2 seconds.)

- The hours display begins to blink.
- 2 Select either the 12 hour cycle or the 24 hour cycle by turning MULTI JOG DIAL.

(12HR) or (24HR)

Press SET to confirm the selected hour cycle.

Use MULTI JOG DIAL to set the current hour.

Press SET.

Use MULTI JOG DIAL to set current minutes.

Press SET and the correct time is shown on the display.

Press CLOCK at any time to show the time on the display, for about 5 seconds.

### **Sleep Timer Function**

When the sleep timer is set, the unit automatically turns off after the specified time has elapsed.

# To specify the time delay before the power is turned off, press SLEEP.

In the display window you can see 5LEEP 90 for about 5 seconds. This means that the system turns off automatically after 90 minutes.

Each time the button is pressed the time interval before it turns off is reduced by 10 minutes. i.e. 80...70... etc. Select the desired time to turn off.

# To check the remaining time until the power is turned off.

While the sleep function is active press **SLEEP** briefly. The time remaining until the unit turns off is displayed for about 5 seconds.

### N ote

If you press **SLEEP** while the sleep time is displayed, the SLEEP time is reset.

#### To cancel Sleep Timer setting

If you wish to stop the function, press the **SLEEP** button repeatedly until "SLEEP 10" appears, and then press **SLEEP** once again after "SLEEP 10" shows on the display.

### **Using Microphone**

You can sing to a music source by connecting a microphone to the unit.

Connect your microphone to the MIC socket. "MIC" will be shown in the display window.

Play a music you want.

Sing along with the accompaniment.

Adjust the microphone volume by turning MIC VOLUME KNOB.

#### For your reference

You can record during using microphone. Refer to the "Recording" explanation section.

## **√** otes

- When not using the microphone, set the MIC volume knob to minimum or turn off the MIC and remove the microphone from the MIC socket.
- If the microphone is set too near the speaker, a howling sound may be produced. In this case, move the microphone away from the speaker or decrease the sound level by using the MIC volume control.
- If sound through the microphone is extremely loud, it may be distorted. In this case, turn the MIC volume control toward minimum.

#### Using the wireless microphone

Before you use the wireless microphone, detach the cover on the rear of the wireless microphone and insert three R06 (size AA) batteries with  $\bullet$  and  $\bullet$  aligned correctly.

Connect the supplied wireless microphone antenna. (Page 13)

Turn the wireless microphone on.



Set the wireless microphone channel. (Page 13)

#### To Adjust ECHO Volume

You can give an echo effect to the sound from the microphones.

Turn ECHO VOLUME KNOB (ECHO VOL.) on the front panel the echo volume clockwise to increase the sound level, or counterclockwise to decrease it.

### **Timer Function**

With the TIMER function you can have the radio reception and recording, CD or tape playing turned on and off at the time desired.

1 P

Press CLOCK to check the current time.

#### For your reference

If you don't set clock, timer function doesn't work.

Press TIMER to enter the timer setting mode.
TUNER-CD-TAPE flash in the display window in turn.

#### For your reference

If you want to correct the previous memorized TIMER setting, press and hold the **TIMER** button more than 2 seconds.

- The previous memorized timer setting for on Time and "TIMER" indicators appear in the display.

3

Press SET when the desired function flashes.

4

 a. When you select TUNER function, 'PLAY' and 'REC' indicator flash in the display window alternately for about 3 seconds.

'PLAY' indicator: TUNER play only 'REC' indicator: TUNER play and recording

 Select the previous memorized preset number with MULTI JOG DIAL on the front panel and press SET.

'ON TIME' indicator appears for about 0.5 seconds in the display window and then disappears.

When you select CD or TAPE function, 'ON TIME' indicator appears for about 0.5 seconds in the display window and then disappears.

Set the turn on hour turning MULTI JOG DIAL.

Press SET to confirm the turn on hour time.

Set the turn on minutes time turning MULTI JOG

Press SET to confirm the turn on minutes time.

'OFF TIME' indicator appears for about 0.5 seconds in the display window and then disappears.

Set the turn off hour time turning MULTI JOG DIAL.

Press SET.

Set the turn off minutes turning MULTI JOG DIAL.

19 Press SET.

Adjust the volume level turning MULTI JOG DIAL.

Press SET.

"TIMER" appear in the display window and the timer setting has been completed.

Turn the system off.

The selected timer functions are automatically switched on and off at the preset times.

### To cancel or check the timer

Each time the **TIMER** button is pressed you can select the timer set or cancel. You can also check the timer setting status.

To activate or check the timer, press the **TIMER** button repeatedly so that "TIMER" appears in the display window.

To cancel the TIMER, press the **TIMER** button repeatedly so that "TIMER" disappears from the display window.

N ote

If the disc is inserted the DVD,VCD or MP3 except audio CD on the DVD/VCD/CD player, the timer function plays to the TUNER.

# Mini Glossary for Audio Stream & Surround mode

dts

Allows you to enjoy 5.1(or 6) discrete channels of high quality digital audio from DTS program sources such as discs, DVD and compact discs, etc.bearing the trademark. DTS Digital Surround delivers up to 6 channels of transparent audio(which means identical to the original masters) and results in exceptional clarity throughout a true 360 degree sound field.

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

#### **□**□DIGITAL

The Dolby Digital surround format lets you enjoy up to 5.1 channels of digital surround sound from a Dolby Digital program source. If you play DVDs with " "mark, you can enjoy even better sound quality, greater spatial accuracy, and improved dynamic range.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and double-D symbol are trademarks of Dolby Laboratories.

#### DIPRO LOGIC II

Dolby Pro Logic II creates five full-bandwidth output channels from two-channel sources. This is done using an advanced, high-purity matrix surround decoder that extracts the spatial properties of the original recording without adding any new sounds or tonal colorations.

#### **MOVIE** mode:

The Movie mode is for use with stereo television shows and all programs encoded in Dolby Surround. The result is enhanced soundfield directionality that approaches the quality of discrete 5.1-channel sound.

#### **BYPASS**

Outputs the sound from the front left and right speakers and subwoofer.

### Sound Mode DVD VCD CD

You can enjoy surround sound simply by selecting one of the pre-programmed sound fields according to the program you want to listen to.

#### When DVD is inserted

You can change the Digital Audio Output mode by pressing the **AUDIO** button on the remote control during playback. Although the DVD contents differ from disc to disc, the following explains the basic operation when this feature is used.

a) After you select 2 channel (For example sime or sime ) by pressing AUDIO button, press SOUND button repeatedly.



- b) After you select 5.1 channel (For example or ) by pressing AUDIO button, press SOUND button.
  - " w" indicator will be displayed on the TV screen.
  - "NORMAL (BYPASS)" indicator will be only displayed on the display window.

#### When Video CD is inserted

Each time you press SOUND button, the sound mode of Video CD is changed on the display window as the following order.

NORMAL (BYPASS)  $\rightarrow$  STUDIO  $\rightarrow$  CLUB  $\rightarrow$  HALL  $\rightarrow$  THEATER 1  $\rightarrow$  CHURCH  $\rightarrow$  PL 2 MOVIE  $\rightarrow$  NORMAL (BYPASS)...

### ✓ ote

After you select the "Bypass" of sound mode by pressing SOUND button, press AUDIO button. The Left, Right and Stereo of audio channel will be displayed on the TV screen.

#### When CD is inserted

Each time you press SOUND button, the sound mode of Audio CD is changed on the display window as the following order.

NORMAL (BYPASS)  $\rightarrow$  STUDIO  $\rightarrow$  CLUB  $\rightarrow$  HALL  $\rightarrow$  THEATER 1  $\rightarrow$  CHURCH  $\rightarrow$  PL 2 MOVIE  $\rightarrow$  NORMAL (BYPASS)...

#### For your reference

- The unit memorizes the last mode settings for each source individually.
- You can identify the encoding format of program software by looking at its packaging.
  - Dolby Digital discs are labelled with the sum logo.
  - Dolby Surround encoded programs are labelled with the labelled with ogo.
  - DTS Digital Surround discs are marked with DTS.

### N ote

When you play sound tracks with 96kHz sampling frequency, the output signals will be converted to 48kHz (sampling frequency).

### **A** Caution:

Before using the remote control, press the **DVD/CD** /**KARAOKE** (or **DVD/KARAOKE**) button to select the device to be operated.

### **General Explanation**

This manual gives basic instructions for operating the unit. Some DVDs require specific operation or allow only limited operation during playback.

When this occurs, the symbol **w** appears on the TV screen, indicating that the operation is not permitted by the unit or is not available on the disc.

### **On-Screen Display**

General playback status can be displayed on the TV screen. Some items can be changed on the menu.

### On-screen display operation

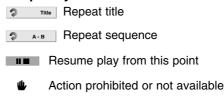
Press DISPLAY during playback.

Press ♠ / ❤ to select an item.

The selected item will be highlighted.

# Press of or to change the setting of an item. The number buttons can be also be used for setting numbers (e.g., title number). For some functions, press SELECT/ENTER to execute the setting.

#### **Temporary Feedback Field Icons**



### Notes

- Some discs may not provide all of the features on the on-screen display example shown below.
- If no button is pressed for 10 seconds, the on-screen display disappears.

### **Example: On-Screen Display during playing DVD**

| Items  |            |                          | Function / Action using ♠ / ❤ to select item  | Selection Method                               |
|--|------------|--------------------------|---|--|
| Title Number                                       | € 4        | 1/3▶                     | Shows the current title number and total number of titles / skips to the desired title number.          | (/ ), Numbers, or SELECT/ENTER                 |
| Chapter Number                                     | <b> </b>   | 1 / 12 ▶                 | Shows the current chapter number and total number of chapters / skips to the desired chapter number.    | <b>₫</b> / <b>⊉</b> , Numbers, or SELECT/ENTER |
| Time search  | •          | 0:20:09                  | Shows the elapsed playing time / searches by elapsed time.  | Numbers, SELECT/ENTER                          |
| Audio language<br>and Digital Audio<br>Output mode | •••        | 1 ENG<br>□□D ►<br>5.1 CH | Shows the current audio soundtrack language, encoding method, and channel number / changes the setting. | <b>₫</b> / <b>D</b> or AUDIO                   |
| Subtitle language                                  | ABC ◀      | 1 ENG ▶                  | Shows the current subtitle language / changes the setting.  | <b>₫</b> / <b>D</b> or<br>S-TITLE              |
| Angle  | 200,∢      | 1/3 ▶                    | Shows the current angle number and total number of angles / changes the angle.                          | <b>4</b> / <b>b</b>                            |
| Sound  | <b>O</b> 4 | Bypass ▶                 | Shows the current sound mode / changes the setting.   | <b>₫</b> / <b>D</b> or<br>SOUND                |

#### **Example: On-Screen Display during playing VCD**

| Items         |                 | Function / Action using ♠ / ❤ to select item  | Selection Method                |
|---------------|-----------------|---|---------------------------------|
| Track Number  | € 1/3)          | Shows the current track number, total number of tracks and PBC On mode / skips to the desired track number. | (/ ), Numbers, or SELECT/ENTER  |
| Time          | 0:20:09         | Shows the elapsed playing time (display only).  | -                               |
| Audio Channel | Stereo          | Shows the audio channel / changes the audio channel.  | <b>₫</b> / <b>⊅</b> or<br>AUDIO |
| Sound         | <b>△</b> Bypass | Shows the current sound mode / changes the setting.   | <b>₫</b> / <b>D</b> or<br>SOUND |

### **Initial Settings**

By using the Setup menu, you can make various adjustments to items such as picture and sound. You can also set a language for the subtitles and the Setup menu, among other things. For details on each Setup menu item, see pages 21 to 25.

#### To display and exit the Menu:

Press SETUP to display the menu. A second press of SETUP will take you back to initial screen.

#### To go to the next level:

Press on the remote control.

To go back to the previous level:

Press **q** on the remote control.

### **General Operation**

Press SETUP.

The setup menu appears.

2 Use ♠ / ♥ to select the desired option then press > to move to the second level.

The screen will be shown the current setting for the selected item, as well as alternate setting(s).

Use 📤 / 🔝 to select the second desired option then press 🕽 to move to the third level.

Use ♠ / ❤ to select the desired setting then press SELECT/ENTER to confirm your selection. Some items require additional steps.

Press SETUP or PLAY to exit the setup menu.

### **LANGUAGE**



#### OSD

Select a language for the Setup menu and on-screen display.

#### Disc Audio / Subtitle / Menu DVD

Select the language you prefer for the audio track (disc audio), subtitles, and the disc menu.

**Original**: Refers to the original language in which the disc was recorded.

**Other:** To select another language, press number buttons to enter the corresponding 4-digit number according to the language code list on page 41. If you enter the wrong language code, press CLEAR on the remote control.

#### **DISPLAY**



### TV Aspect DVD

**4:3:** Select when a standard 4:3 TV is connected. **16:9:** Select when a 16:9 wide TV is connected.

### Display Mode DVD

Display Mode setting works only when the TV Aspect mode is set to "4:3".

**Letterbox:** Displays a wide picture with bands on the upper and lower portions of the screen.

**Panscan:** Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.

#### Progressive Scan DVD

Progressive Scan Video provides the highest quality pictures with less flickering.

If you are using the Component Video jacks for connection to a TV or monitor that is compatible with a progressive scan signal, set Progressive Scan to On.

#### To Turn ON progressive scan:

Connect component out of the DVD to the input of your monitor/television, set your television or monitor to Component Input.

- 1. Select "Progressive Scan" on the DISPLAY menu then press .
- 2. Select "On" using the 🕰 / 🔝 buttons.
- 3. Press SELECT/ENTER to confirm your selection. The confirm menu will appear.



- 4. When the confirm menu appears on your screen Cancel is highlighted as default. Use the ◀/ ▶ buttons to highlight Enter.
- Pressing ENTER will set the player to Progressive scan mode.

### **A**Caution

Once the setting for progressive scan output is entered, an image will only be visible on a progressive scan compatible TV or monitor. If you set Progressive Scan to On in error, you must reset the unit.

- Remove any disc from the unit and close the disc tray. See that "NO DISC" is displayed on the display window
- 2) Press and hold STOP (■) for five seconds then release it. The video output will be restored to the standard setting, and a picture will once again be visible on a conventional analog TV or monitor.

#### **AUDIO**

Each DVD disc has a variety of audio output options. Set the player's AUDIO options according to the type of audio system you use.



#### Dolby Digital / DTS / MPEG DVD

**Bitstream:** Select "Bitstream" if you connect the DVD Player's DIGITAL OUT jack to an amplifier or other equipment with a Dolby Digital, DTS or MPEG decoder.

**PCM**: Select when connected to a two-channel digital stereo amplifier. DVDs encoded in Dolby Digital or MPEG will be automatically downmixed to two-channel PCM audio.

#### Sample Freq. (Frequency) DVD

If your receiver or amplifier is NOT capable of handling 96 kHz signals, select 48 kHz. When this choice is made, this unit automatically converts any 96 kHz signals to 48 kHz so your system can decode them.

If your receiver or amplifier is capable of handling 96 kHz signals, select 96 kHz. When this choice is made, this unit passes each type of signal through without any further processing.

Check the documentation for your amplifier to verify its capabilities.

#### 5.1 Speaker Setup DVD

Select speaker settings, including volume balance and distance, or test the speaker settings.

Speaker settings are only active on the Analog Multi-Channel Output.

#### **Speaker Setup**

Make the following settings for the built-in 5.1 channel surround decoder.



- 1. Press SETUP. The setup menu appears.
- Use ♠ / ❤ to select the AUDIO option then press
   to move to the second level.
- 3. Use ♠ / ❤ to select the Speaker Setup option then press ▶ to move to the third level. "Select" is highlighted.
- Press SELECT/ENTER and 5.1 Speaker Setup menu appears.
- 5. Use **4**/**b** to select the desired speaker.
- 6. Adjust options using ♠ / ❤ / ◀ / ▶ buttons.
- 7. Press SELECT/ENTER to confirm your selection. Returns to the previous menu.

#### Speaker selection

Select a speaker that you want to adjust. [Front speaker (Front L), Center Speaker (Center), Front speaker (Front R), , Rear speaker (Rear R), Rear speaker (Rear L) or Subwoofer (Woofer)]

#### Size

Press **4**/**b** to set a mode. (Large, Small or None)

- The size of the Front L/R speaker can be selected to "Large" or "Small".
- The size of the Subwoofer can be selected to "Large" or "None".
- Since the size of the Center and Rear L/R speaker are fixed to "Small", you can not change settings.
- If you have connected the system to a speaker with low frequency of 100Hz or below, select to "Large" the size of the Front L/R speaker. The size of the Subwoofer is selected to "None" automatically.
- If you have connected the system to a speaker without low frequency of 100Hz or below, select to "Small" the size of the Front L/R speaker. The size of the Subwoofer is selected to "Large" automatically. But if you haven't connected to subwoofer, always select to "Large" the size of Front L/R Speaker.

#### Volume

Press **4**/**b** to adjust the output level of the selected speaker. (-5dB ~ 5dB)

#### **Distance**

If you have connected speakers to your DVD Player, setting the Distance lets the speakers know how far the sound has to travel to reach your set listening point. This allows the sound from each speaker to reach the listener at the same time.

Press ( ) to adjust the Distance of the selected speaker (Center, Rear L and Rear R).

#### Test

Select "All" to test the signals of each speaker. Adjust the volume to match the volume of test signals memorized in the system.

(When the size of the Front L/R speaker is selected to "Large", the subwoofer (Woofer) is not available.)

Front  $L \rightarrow Center \rightarrow Front R \rightarrow Rear R \rightarrow Rear L \rightarrow Woofer$ 

You can adjust the volume during operating the test tone, first use / to select Volume or Speaker option then use / buttons to select volume or speaker, so that all speaker's volume is same from the listener's position.

#### **Dynamic Range Control (DRC)**

With the DVD format, you can hear a program's sound-track in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). Then, you may listen to a movie at a lower volume without losing dialog intelligibility. Set DRC to On for this effect.

### **Notes**

- The DRC function works only during playback of Dolby Digital recorded discs.
- The level of Dynamic Range Compression may differ depending on the DVD disc.

#### Vocal

Set Vocal to On only when a multi-channel Karaoke DVD is playing. The karaoke channels on the disc will mix into a normal stereo sound.

### **OTHERS**



#### PBC VCD

Set Playback Control (PBC) to On or Off.

On:Video CDs with PBC are played according to the PBC.

Off: Video CDs with PBC are played the same way as Audio CDs.

#### DivX(R) Registration DivX

You can show the DivX DRM (Digital Right Management) Registration code for your unit only.



The Registration code is used for VOD (Video-On-Demand) service agent. You can purchase or rental an encrypt movie file.

### **Notes**

If you rent the DivX VOD file, it has several options of viewing limits as show below.

• Display the number which you can watch the file.



• The rental has been expired.



· Display the authorization error.

This video player is not authorized to play this video.

### **LOCK (Parental Control)**



### Rating DVD

Some movies contain scenes that may not be suitable for children to view. Many of these discs contain parental control information that applies to the complete disc or to certain scenes on the disc. Movies and scenes are rated from 1 to 8, depending on the country. Some discs offer more suitable scenes as an alternative.

The parental control feature allows you to block access to scenes below the rating you input, thereby preventing your children from being able to view material you believe is unsuitable.

Select "Rating" on the LOCK menu then press **)**.

To access the Rating, Password and Country Code features, you must input the 4-digit security code you created.

If you have not yet entered a security code you are prompted to do so.

Input a 4-digit code and press SELECT/ENTER. Enter it again and press SELECT/ENTER to verify. If you make a mistake before pressing SELECT/ENTER, press CLEAR.

Select a rating from 1 to 8 using the 🕰 / 🔝 buttons.

Rating 1-8: Rating one (1) has the most restrictions and rating eight (8) is the least restrictive.

#### Hnlock

If you select unlock, parental control is not active and the disc plays in full.

### N ote

If you set a rating for the player, all disc scenes with the same rating or lower are played. Higher rated scenes are not played unless an alternate scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback stops. You must enter the 4-digit password or change the rating level in order to play the disc.

Press SELECT/ENTER to confirm your rating selection, then press SETUP to exit the menu.

### Password (Security Code)

You can enter or change password.

- 1 Select Password on the LOCK menu then press .
- 2 Follow step 2 as shown left (Rating). "Change" or "New" is highlighted.
- 3 Enter the new 4-digit code, then press SELECT/ENTER. Input it again to verify.
- 4 Press SETUP to exit the menu.

#### If you forget your Security Code

If you forget your security code you can clear it using the following steps:

- 1 Input the 6-digit number "210499" on the setup menu and the security code is cleared.
- 2 Enter a new code as described above.

### N ote

When "INPUT PASSWD ■■■■ " appears on the TV screen, press STOP (■) and then press SETUP to move to the setup menu.

### Country Code DVD

Enter the code of the country/area whose standards were used to rate the DVD video disc, based on the list in the reference chapter.

- Select "Country Code" on the LOCK menu then press .
- P Follow step 2 as shown left (Rating).
- Select the first character using ♠ / ♥ buttons.
- Shift the cursor using button and select the second character using \( \times / \times \) buttons.
- Press SELECT/ENTER to confirm your country code selection.

### **Operation with RADIO**

### Presetting the radio stations

You can preset 50 stations for FM and AM. Before tuning, make sure that you have turned the volume down to the minimum level.

Press TUNER/BAND to show either FM or AM in the display window.

Every time you press this button, AM and FM changes alternately.

Turn the MULTI JOG DIAL on the front panel until the frequency indication starts to change.

## **√** otes

Automatic Tuning

Press the AUTO TUNING (▼/▲) buttons.

- Scanning stops when the unit tunes in a station.
- Manual Tuning
   Use the MULTI JOG DIAL.
- Press MEMORY on the front panel.

  A preset number will flash in the display window.
- Press PRESET ▲/▼ (or PRESET ➤ / on the remote control) to select the preset number you want.
- Press MEMORY again.
  The station is stored.
- Repeat steps 2 to 5 to store other stations.

#### To clear all memorized stations

Press and hold **MEMORY** on the front panel for about two seconds, "CLEAR" appears in the display window and then press CLEAR on the front panel, the stations are cleared.

#### For your reference

If all stations have already been entered, "FULL" message will appear in the display window for a moment and then a preset number will flash. To change the preset number, follow the steps 4-5.

#### To recall preset numbers

Press and hold PRESET ▲/▼ (or PRESET ➤ / ▲ on the remote control) until the desired preset number appears or press the button repeatedly.

### Listening to the radio

Press TUNER/BAND to select either AM or FM in the display window.

The last received station is tuned in.

Press PRESET ▲/▼ (or PRESET ➤ / ▲ on the remote control) repeatedly to select the preset station you want.

Each time you press this button, the unit tunes in the next preset station.

Adjust the volume by rotating VOLUME knob (or pressing VOLUME -/+ on the remote control) repeatedly.

#### To listen to non-preset radio stations

- · For manual tuning, see "Manual Tuning".
- For automatic tuning, see "Automatic Tuning".

#### To turn the radio off

Press POWER to turn off the unit or select another function mode (TAPE, DVD/CD/KARAOKE or AUX).

#### For your reference

· If a FM program is noisy

Press MODE/RIF repeatedly so that """ disappears in the display window. There will be no stereo effect, but the reception will improve. Press MODE/RIF again to restore the stereo effect.

To improve reception

Reposition the supplied antennas.

### **M** otes

- Use MODE/RIF (Radio Interference Filter) function to switch to Mono reception if stereo reception is distorted by noise.
- While recording weak AM broadcasts, if noises occurs, press MODE/RIF once.

### **Operation with TAPE**

### **Basic Playback**

- Press TAPE1-2 to select tape function.

  ("NO TAPE" appears in the display window.)
- Open cassette TAPE1-2 by pushing to the ▲PUSH EJECT position.
- Insert one or two cassettes with the tape side to the bottom and then close the TAPE 1 (and/or 2)

Press ► (or <: OPTIONAL).

#### **AUTO REVERSE DECK (TAPE 1 or 2): OPTIONAL**

You can select direction of the cassette you want by pressing PLAY MODE.

| Pressing    | Display      | Function  |
|-------------|--------------|---|
| -           | <del>-</del> | After the cassette of TAPE 1 or 2 plays front or reverse (backward play) side, stops automatically.       |
| Once        | こ            | After the cassette of TAPE 1 or 2 plays front and reverse side, stops automatically.                      |
| Twice       | (エ)          | After the cassette of TAPE 1 or 2 plays six times repeatedly front and reverse side, stops automatically. |
| Three times | CONT         | After a cassette of TAPE 1 and 2 plays six times repeatedly front and reverse side, stops automatically.  |

### To Stop Play

Press STOP(■) on the front panel or TAPE STOP(■) on the remote control during playback.

### **Tape Counter Reset**

**Press COUNT. RESET during playback.** Playing time appears "*TAP -1 (or 2) 0000*" in display window.

### To Play Rewind or Fast Forward

After press ◀◀/▶▶ on the front panel or on the remote control during playback, press ▶ (or ◀ :optional) at the tape position you want.

### **Dubbing**

This function shows how to record from tape to tape.

Press TAPE1-2.

- Cassette TAPE 1- Insert the playback tape to dub.
  - Cassette TAPE 2- Insert a blank tape to copy on.
- Press NORMAL DUBBING/HIGH DUBBING.
  - NORMAL DUBBING Normal speed copying
  - HIGH DUBBING Double speed copying

To stop recording, press STOP (■).

### Recording

### **Basic Setting**

Press CD or TUNER to select source.

Open the cassette deck TAPE 2 and insert a blank cassette into the cassette compartment. Set the recording direction: OPTIONAL Press PLAY MODE repeatedly to set the recording direction.

### Recording from Radio, CD or Auxiliary source

Press •REC/II on the front panel.

"REC" flashes and holds the cassette in pause mode.

Press ► (or <: OPTIONAL).
The recording is begun.

To pause the recording Press ●REC/II.

To Stop the recording Press STOP(■).

### **CD to Tape Synchronized Recording**

The CD synchro recording function dubs a complete CD and programmed titles automatically into a cassette.

Press CD SYNC. in stop mode.

"REC" flashes and "CD SYNCHRO" displays in the display window.

The synchronized recording is started automatically after about 7 seconds.

### N otes

- If you wish to record from the desired track, select the desired track with MULTI JOG DIAL before commencing CD synchro recording.
- A function change is not possible during recording.

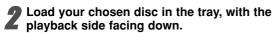
### Operation with DVD and Video CD

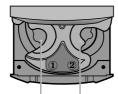
### Playing a DVD and Video CD

#### **Playback Setup**

- Turn on the TV and select the video input source connected to the unit.
- Audio system: Turn on the audio system and select the input source connected to the unit.

# Press ■ OPEN/CLOSE button to open the disc tray.





Number 1 disc Number 2 disc

- Playing one or two discs
  Place discs on trays 1 and 2.
- Playing three discs
   After placing two discs, press the D.SKIP button to rotate the trays. Place the next disc on tray 3.

#### 

In some cases, the disc menu might appear instead.

#### DVD

Use the  $\triangle$  /  $\bigcirc$  /  $\bigcirc$  buttons to select the title/chapter you want to view, then press SELECT/ ENTER to start. Press TITLE or MENU to return to the menu screen.

#### VCD

Use the number buttons to select the track you want to view and press RETURN to return to the menu screen. Menu settings and operating procedures may differ. Follow the instructions on the each menu screen. You also may set PBC to Off (See "PBC" on page 24).

### **Notes**

- If parental control is set and the disc is not within the rating settings you must input the password.
   (See "Lock Menu" on page 25.)
- DVDs may have a region code. Your player will not play discs that have a region code different from your player. The region code for this player is 5 (five).

#### To Select a disc directly

Press DISC 1, DISC 2 or DISC 3 during playing or stopping.

When you press DISC 1,2 or 3 before playing a disc, the unit will automatically start playing the selected disc.

### **General Features**

### ote

Unless stated otherwise, all operations described use the remote control. Some features may also be available on the Setup menu.

### Moving to another TITLE **DVD**

When a disc has more than one title, you can move to another title. Press DISPLAY while playback is stopped then the appropriate number (0-9) or use **4**/ to move to another title.

You can play any title by inputting its number while playback is stopped.

### 

When a title on a disc has more than one chapter or a disc has more than one track, you can move to another chapter/track as follows:

- Press I◄◄ or ►►I briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
- Press I twice briefly to step back to the previous chapter/track.
- To go directly to any chapter during DVD playback, press DISPLAY and press ♠ / ❤ to select the chapter/track icon. Then, input the chapter/track number or use ◀/ ▶.

### Search DVD VCD

- 1 Press ◀◀ or ▶▶ during playback.
  The player will now go into SEARCH mode.
- 2 Press ◀◀ or ▶▶ repeatedly to select the required speed: ◀◀X2, ◀◀X4, ◀◀X8, ◀◀X16, ◀◀X100 (backward) or ▶▶X2, ▶▶X4, ▶▶X8, ▶▶X16, ▶▶X100 (forward).

With a Video CD, the Search speed changes: ◀◀X2, ◀◀X4, ◀◀X8, ◀◀X16 (backward) or ▶▶X2, ▶▶X4, ▶▶X8, ▶▶X16 (forward).

3 To exit SEARCH mode, press PLAY.

### Operation with DVD and Video CD

### **General Features (continued)**

### Still Picture and Frame-by-frame playback

#### DVD VCD

- 1 Press PAUSE/STEP on the remote control during playback.
  - The player will now go into PAUSE mode.
- 2 You can advance the picture frame-by-frame by pressing PAUSE/STEP repeatedly on the remote control.
- 3 To exit still motion mode, press PLAY.

### Slow Motion DVD VCD

- 1 Press PAUSE/STEP on the remote control during playback.
  - The player will enter SLOW mode.
- 2 Use the ◀I or I► to select the required speed: ◀I 1/2, ◀I 1/4, ◀I 1/8 or ◀I 1/16 [(backward) DVD only] or I► 1/2, I► 1/4, I► 1/8 or I► 1/16 (forward).
- 3 To return to normal PLAY, press PLAY.

### N ote

Slow motion playback in reverse is not applicable for Video CD.

### Repeat DVD VCD

You can play a title/chapter/all/track on a disc.

Press REPEAT during playback to select a desired repeat mode.

#### DVD Video Discs - Repeat Chapter/Title/Off

- Chapter: repeats the current chapter.
- Title: repeats the current title.
- Off : does not play repeatedly.

#### Video CDs - Repeat Track/All/Off

- Track : repeats the current track
- All : repeats all the tracks on a disc.
- Off : does not play repeatedly.

### N ote

 On a Video CD with PBC, you must set PBC to Off on the setup menu to use the repeat function (See "PBC" on page 24).

### Repeat A-B DVD VCD

To repeat a sequence in a title:

- 1 Press REPEAT A-B at your chosen starting point. "A - " appears briefly on the TV screen.
- 2 Press REPEAT A-B again at your chosen end point. "A - B" appears briefly on the TV screen, and the repeat sequence begins.
- **3** To cancel the sequence, press REPEAT A-B.

#### Time Search DVD VCD

The Time Search function allows you to start playing at any chosen time on the disc.

- 1 Press DISPLAY during playback. The on-screen display appears on the screen. The Time Search box shows the elapsed playing time of the current disc.
- 2 Within 10 seconds, press ♠ / ❤ to select the Time Search icon in the on-screen display. The "-:---" appears in the Time Search box.
- 3 Within 10 seconds, use the number buttons to enter the required start time. Enter hours, minutes, and seconds from left to right in the box. If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then enter the correct numbers.
- 4 Within 10 seconds, press SELECT/ENTER to confirm the start time.
  - Playback starts from the selected time on the disc. If you enter an invalid time, playback will continue from the current point.

### Last Scene Memory DVD

This player memorizes last scene from the last disc that is viewed. The last scene remains in memory even if you remove the disc from the player or switch off the player. If you load a disc that has the scene memorized, the scene is automatically recalled.

### Note

This player does not memorize the scene of a disc if you switch off the player before commencing to play the disc

## Operation with DVD and Video CD

### Special DVD Features DVD

# Checking the contents of DVD Video discs: Menus

DVDs may offer menus that allow you to access special features. To use the disc menu, press MENU. Then, press the appropriate number button to select an option. Or, use the  $\bigtriangleup$  /  $\checkmark$  /  $\checkmark$  buttons to highlight your selection, then press SELECT/ENTER.

### Title Menu DVD

- 1 Press TITLE.
  - If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu may appear.
- 2 The menu can list camera angles, spoken language and subtitle options, and chapters for the title.
- 3 To remove the title menu, press TITLE again.

#### Disc Menu DVD

Press MENU.

The disc menu is displayed.

### Camera Angle DVD

If the disc contains scenes recorded at different camera angles, you can change to a different camera angle during playback.

- Press DISPLAY and then press the ♠ / ❤ to select a angle.
  - The number of the current angle appears on the display window.
- 2 Select a desired angle pressing the **4**/**b** buttons.

### Changing the Audio Language DVD

Press AUDIO repeatedly during playback to hear a different audio language or audio track.

### Changing the Audio Channel VCD

Press AUDIO repeatedly during playback to hear a different audio channel (STER., LEFT or RIGHT).

#### Subtitle **DVD**

Press S-TITLE repeatedly during playback to see the different subtitle languages.

### N ote

If **w** appears, the feature is not available on the disc.

### Operation with Audio CD and MP3/WMA Disc

### Playing an Audio CD and MP3/WMA

### Disc CD MP3 WMA

The unit can play MP3/WMA formatted recordings on CD-ROM, CD-R, or CD-RW discs.

#### **Audio CD**

Once you insert an audio CD a menu appears on the TV screen. Press ♠ / ❤ to select a track then press PLAY or SELECT/ENTER and playback starts.



#### MP3 / WMA

- Press A / To select a folder, and press SELECT/ENTER to see the folder contents.
- Press ♠ / ❤ to select a track then press PLAY or SELECT/ENTER. Playback starts.



### N otes

- If you are in a file list on the MP3/WMA menu and want to return to the Folder list, use the ♠ / ❤ to highlight
   L on the stop mode and press SELECT/ENTER.
- Press and hold to go to the next / previous page.

# MP3 / WMA disc compatibility with this player is limited as follows:

- Sampling frequency: within 32 48 kHz (MP3), within 24 - 48kHz (WMA)
- Bit rate: within 32 320kbps (MP3), 40 - 192kbps (WMA)
- The player cannot read an MP3/WMA file that has a file extension other than ".mp3" / ".wma".
- CD-R physical format should be ISO 9660
- If you record MP3 / WMA files using software that cannot create a file system (eg. Direct-CD) it is impossible to playback MP3 / WMA files. We recommend that you use Easy-CD Creator, which creates an ISO 9660 file system.
- File names should have a maximum of 8 letters and must incorporate an .mp3 or .wma extension.
- They should not contain special letters such as /?
   " < > I etc.
- The total number of files on the disc should be less than 999.

This unit requires discs and recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files) and these require certain pre-existing conditions (see above) to ensure compatible playback.

Customers should note that permission is required in order to download MP3 / WMA files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

### Operation with Audio CD and MP3/WMA Disc

### Pause CD MP3 WMA

- 1 Press PAUSE/STEP during playback.
- 2 To return to playback, press PLAY or press PAUSE/STEP again.

### Moving to another Track CD MP3 WMA

- Press I◄◀ or ►►I briefly during playback to go to the next track or to return to the beginning of the current track.
- Press I◄◄ twice briefly to step back to the previous track.
- In case of audio CD, to go directly to any track, enter the track number using the numbered buttons (0-9) during playback.

### Repeat Track/All/Off CD MP3 WMA

You can play a title/chapter/all/track on a disc.

- 1 Press REPEAT when playing a disc. The repeat icon appears.
- 2 Press REPEAT to select a desired repeat mode.
  - Track: repeats the current track
  - All: repeats all the tracks on a disc.
  - Off(No display): does not play repeatedly.

#### Search CD MP3 WMA

- 1 Press ◀◀ or ▶▶ during playback.
  The player will now go into SEARCH mode.
- 2 Press ◀◀ or ▶▶ repeatedly to select the required speed: ◀◀X2, ◀◀X4,◀◀X8 (backward) or ▶▶X2, ▶▶X4, ▶▶X8 (forward).
- 3 To exit SEARCH mode, press PLAY.

### **Operation with JPEG Disc**

### Viewing a JPEG disc **JPEG**

This unit can play discs with JPEG files. Before playing JPEG recordings, read the notes on JPEG Recordings on right.

Insert a disc and close the tray.
The JPEG menu appears on the TV screen.



Press ♠ / ❤ to select a folder, and press SELECT/ENTER. A list of files in the folder appears.

### T Tip

If you are in a file list and want to return to the Folder list, use the ♠ / ❤ buttons on the remote to highlight " ➡ " and press SELECT/ENTER to return to the previous menu screen.

If you want to view a particular file, press / > to highlight a file and press SELECT/ENTER or PLAY.

Slide Show starts from the selected file if Speed option is not Off.

While viewing a file, you can press STOP(■) to move to the previous menu (JPEG menu).

### T Tip

- · Press MENU to move to the next page.
- If you set Speed option to Off, Slide Show is not active.

#### Slide Show

Use  $\triangle$  /  $\checkmark$  /  $\bigcirc$  to highlight the  $\blacksquare$  (Slide Show) then press SELECT/ENTER.

#### Moving to another File

Press ► once during viewing a picture to advance to the next file or to the previous file.

#### Still Picture

- 1 Press PAUSE/STEP during slide show. The player will now go into PAUSE mode.
- 2 To return to the slide show, press PLAY or press PAUSE/STEP again.

# JPEG disc compatibility with this player is limited as follows:

- Depending upon the size and number of JPEG files, it could take a long time for the DVD player to read the disc's contents. If you don't see an onscreen display after several minutes, some of the files may be too large — reduce the resolution of the JPEG files to less than 2760 x 2048 pixels and burn another disc.
- The total number of files and folders on the disc should be less than 999.
- Some discs may be incompatible due to a different recording format or the condition of disc.
- Ensure that all the selected files have the ".jpg" extensions when copying into the CD layout.
- If the files have ".jpe" or ".jpeg" extensions, please rename them as ".jpg" file.
- File names without ".jpg" extension will not be able to be read by this DVD player. Even though the files are shown as JPEG image files in Windows Explorer.

### Programmed Playback CD MP3 WMA

The Program function enables you to store your favorite tracks from any disc in the player memory. A program can contain 300 tracks (Audio CD/MP3/WMA).

Insert a disc.

### Audio CD and MP3/WMA Discs:

Audio CD or MP3/WMA menu appears as below.





Audio CD Menu

MP3/WMA Menu

Select a track on the List.

Press PROGRAM. Or, select " n→ (Add)" icon then SELECT/ENTER to place the selected track on the Program list. Repeat to place additional tracks on the list.

N ote

You can add all tracks in the disc. Select " Ap→ (Add All)" icon then press SELECT/ENTER.

Select the track you want to start playing on the Program list.

T Tip

Press MENU to move to the next page.

Press PLAY or SELECT/ENTER to start.
Playback begins in the order in which you programmed the tracks and "PROG." appears on the display window. Playback stops after all of the tracks on the Program list have played once.

#### **Repeat Programmed Tracks**

You can play a title/chapter/all/track on a disc.

- 1 Press REPEAT when playing a disc. The repeat icon appears.
- 2 Press REPEAT to select a desired repeat mode.
  - Track: repeats the current track
  - All: repeats all the tracks on a disc.
  - Off (No display): does not play repeatedly.

### **Erasing a Track from Program List**

- 1 Use ♠ / ❤ / ¶ / b to select the track that you wish to erase from the Program list.
- 2 Press CLEAR. Or, select " Îm (Delete)" icon then Press SELECT/ENTER to place the selected track on the Program list. Repeat to erase additional tracks on the list.

#### **Erasing the Complete Program List**

Select "  $^{a_{2\overline{m}}}$  (Del all)", then press SELECT/ENTER. The complete Program for the disc is erased.

**√** ote

The programs are also cleared when the disc is removed.

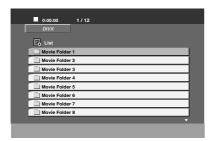
To resume normal playback from programmed playback Select a track on the List then press SELECT/ENTER. "PROG." disappears from the display window.

### **Operation with DivX Disc**

The unit can play the MPEG4 encoded files (.avi, mpg, .mpeg, .divx etc) and subtitle files (.srt, .smi, sub).

# Insert the MPEG4 encoded disc and close the tray.

The DivX menu appears on the TV screen.



- Press 📤 / 🔝 to select a folder, and press SELECT/ENTER to see the folder contents.
- Press ♠ / ❤ to select a track then press PLAY or SELECT/ENTER.
  Playback starts.

### Pause DivX

- 1. Press PAUSE/STEP during playback.
- 2. To return to playback, press PLAY.

### Repeat Track/All/Off DivX

You can play a title/chapter/all/track on a disc.

- 1 Press REPEAT when playing a disc. The repeat icon appears.
- 2 Press REPEAT to select a desired repeat mode.
  - Track: repeats the current track
  - All: repeats all the tracks on a disc.
  - Off (No display): does not play repeatedly.

### Subtitle DivX

Press S-TITLE repeatedly during playback to see the different subtitle language.

### Search DivX

- 1 Press SCAN ◀ or ▶▶ during playback.
- 2 Press SCAN◀◀ or ▶▶ repeatedly to select the required speed.
- 3 To exit SEARCH mode, press PLAY.

### Display DivX

Press DISPLAY during playback.

General playback status can be displayed on the TV screen.

# DivX disc compatibility with this player is limited as follows:

- Available resolution size of the DivX file is under 720x576 (W x H) pixel.
- The file name of the DivX subtitle is available by 20-40 characters (differs from language).
- If there is impossible code to express in the DivX file, it may be displayed as "\_ " mark on the display.
- If the number of the screen frame is over 30 per 1 second, this unit may not operate normally.
- If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.
- If the file is recorded with GMC, the unit supports some of 1-point of the record level.

GMC is the acronym for Global Motion Compensation. It is an encoding tool specified in MPEG4 standard. Some MPEG4 encoders, like DivX or Xvid, have this option. There are different levels of GMC encoding, usually called 1-point, 2-point, or 3-point GMC.

#### Playable DivX subtitle file

".srt ", ".smi ", ".sub ".

#### Playable DivX file

".avi ", ".mpg ", ".mpeg "

#### Playable Codec format

"DIVX3.xx ", "DIVX4.xx ", "DIVX5.xx ", "XVID ", "MP43 ", "3IVX ", "MP42 ".

#### Playable Audio format

- "AC3 ", "DTS ", "PCM ", "MP3 ", "WMA ".
  - Sampling frequency: within 32 48 kHz (MP3), within 24 - 48kHz (WMA)
  - Bit rate: within 32 320kbps (MP3), 40 - 192kbps (WMA)

You can play KARAOKE (singing along) with karaoke disc by connecting a microphone to the unit. You can enjoy KARAOKE with a stereo-recorded disc, even if it is a non-karaoke disc, by reducing the singer's voice.

### Karaoke Basic Playback

- Check if the system is connected. (Refer to the page 10-15.)
- **2** Turn on the powers of TV (or Amplifier) and DVD Karaoke and enter to the video mode on TV.
- Press ■ OPEN/CLOSE to close the tray.
- Press KARAOKE/DVD twice to enter to the karaoke mode.

[TV Screen]



- Turn on the powers of the wireless microphone or connect the microphone to the MIC 1 or MIC 2 jack.
- **7** Select the melody number you want by pressing NUMERIC buttons.

If you cancel the selected melody number, press the CLEAR.

Press PLAY (▶).
The selected melody number is played.
Sing in tone with microphone.
After melody ends, it is stopped automatically and score appears.

### Karaoke Advanced Playback

### To Adjust MIC Volume

Turn the MIC VOLUME CONTROL on the front panel clockwise to increase the volume, or counterclockwise to decrease it.

### To Adjust ECHO Volume

You can give an echo effect to the sound from the microphones.

Turn ECHO VOLUME KNOB (ECHO VOL.) clockwise to increase the sound level, or counterclockwise to decrease it.

### **Key Control**

You can change the key to suit your vocal range. You can adjust the key to 13 steps (6steps higher, 6steps lower and the original key).

- The setting appears on the screen.

Press KEY CONTROL (b/#) repeatedly on the remote control or turn KEY CONTROL (b/#) on the front panel to find the key that suits your vocal range.

- To flatten the key one by one, press the KEY CONTROL (b) repeatedly during playback.
- To sharp the key one by one, press the KEY CONTROL (#) repeatedly during playback.
- To return to the original key, press the KEY CONTROL (b/#) repeatedly to appear the original key.

### Reserving the Songs

When you want to make a reservation of next melody, you can enjoy the most 8 melodies reservation Without waiting.

Press the NUMERIC buttons to reserve melody number you want in the karaoke disc play mode.

Melody number appears on the TV screen.

Press PROGRAM.

The melody number is made a reservation.

Repeat steps 1-2.
You can reserve 8 songs.

 $T_{ip}$ 

After the one song finishes its playback, the next song will be playback automatically.

#### To cancel the reserved song

Each time you press CLEAR, the reserved song will be cancelled one by one.

To cancel or change the wrong reserved song Press the PROGRAM to move to the desired position, then press the CLEAR to cancel the reserved song.

### Male/Female Function

If you want to sing a song of MAN's or WOMEN's key, press MALE( $\frac{a}{2}$ )/FEMALE( $\frac{a}{2}$ ) button repeatedly to change MAN's or WOMEN's key.

### **Tempo Change**

You can use this function when you want to play fast or slow.

- Press TEMPO + repeatedly during singing to play faster.
- · Press TEMPO repeatedly during singing slower.

### Screen Change Function VCD DVD

This function is used when you want to change the current screen during playing karaoke disc.

Press the DISC SELECT (DISC 1, DISC 2, DISC 3) or D.SKIP button during playing karaoke disc. It is played a screen existing another disc.

### Shadow Function

If Video CD caption and the song's subtitle are mixed up, the song's subtitle may be invisible. In this case, to highlight the song's subtitle, press SHADOW.

- It will be highlighted by background shadow image.

### Karaoke MENU Playback

#### **Preparation**

Press MENU on the karaoke mode.

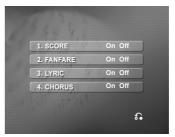
The main MENU appears on the screen.

#### Main MENU (On the TV screen)



#### **SETUP**

- Select "1. SETUP" by pressing ♠ / ❤ on the main menu.
- 2 Use ( ) to select the desired option, and press SELECT/ENTER.



#### SCORE On/Off

On: When singing by selection of melody, song score comes out after one piece of song is ended.

To cancel it, select the Off .

#### **FANFARE On/Off**

on: In condition of POWER ON, scoring fanfare operates. The fanfare sound comes out after singing finished.

To cancel it, select the Off .

#### LYRIC On/Off

On: When singing by selection of melody, song lyric appears on the TV screen.

To cancel it, select the Off .

#### **CHORUS On/Off**

On: When singing by selection of melody, song chorus is heard a sound.

To cancel it, select the Off .

### N ote

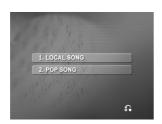
To move to the main menu, press MENU or RETURN.

### **MUSIC LIST**

#### **LOCAL SONG and POP SONG**

Select "2. MUSIC LIST" by pressing the 🕰 / 🔝 on the main menu.

The LOCAL SONG and POP SONG menu will be shown on the TV screen.



2 Select "1. LOCAL SONG" or "2. POP SONG" by pressing the ♠/ ♥, and press SELECT/ ENTER. SONG LIST and SINGER LIST menu will be shown on the TV screen.



#### **SONG LIST**

1 Select "1. SONG LIST" and select the initial of the song title you want by pressing the ♠ / ❤, then press SELECT/ ENTER.





"1. LOCAL SONG" Menu

" 2. POP SONG" Menu

2 Select the song title you want by pressing the 📤 / 👽, and press SELECT/ ENTER.





"1. LOCAL SONG" Menu

" 2. POP SONG" Menu

#### SINGER LIST

1 Select "2.SINGER LIST" and select the initial of the singer you want by pressing the ♠ / ❤ , and press SELECT/ ENTER.



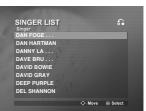


"1. LOCAL SONG" Menu

" 2. POP SONG" Menu

2 Select the singer you want by pressing the ♠ / ❤, and press SELECT/ ENTER.





"1. LOCAL SONG" Menu

" 2. POP SONG" Menu

3 Select the song title of the singer you want by pressing the ♠ / ❤, and press SELECT/ ENTER.





"1. LOCAL SONG" Menu

" 2. POP SONG" Menu



### **RANDOM**

**1** Select "3. RANDOM" by pressing ♠ / ❤ on the main menu.



Press SELECT/ENTER to begin ramdomly.

### **CHALLENGE**

It has a function which enjoy a song game dividing by two teams of red team & blue team.

**1** Select "4. CHALLENGE" by pressing ♠ / ❤ on the main menu.

It appears as below.



- 2 Select "SET NUMBER TO WIN" by pressing ♠ /
  , and select one of NUMERIC buttons 1~9 by pressing ¶ / p to select winner's number, then press SELECT/ ENTER.
- Select "CHALLENGE SCORE" by pressing , and select one of 60,70,80 or 90 by pressing , b to select success score, then press SELECT/ ENTER.
- **4** Select "START" by pressing ♠ / ❤, then press SELECT/ ENTER.

It appears as below.



- Select number you want by pressing 🕰 / 🔝 and press SELECT/ ENTER.
  - Sing along with the accompaniment.
  - Repeat step 4~5.
    Change the team of red team or blue team
- alternately.

  When reaching the targeted winning number, the "CONGRATULATION!" will be shown on the TV screen.

It appears as below.



Whether you keep going the song game or not, select "1. YES" or "2. NO" by pressing ♠ / ❤ as below.



# Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.

| Symptom  | Cause  | Correction   |
|--|--|--|
| No power.  | The power cord is disconnected.  | Plug the power cord into the wall outlet securely.   |
| The power is on, but the unit does not work.                 | No disc is inserted.   | Insert a disc. (Check that the DVD or, audio CD indicator in the DVD display is lit.)                          |
| No picture.  | The TV is not set to receive DVD signal output.  | Select the appropriate video input mode on<br>the TV so the picture from the unit appears<br>on the TV screen. |
|  | The video cable is not connected securely.   | Connect the video cable into the jacks securely.   |
|  | The connected TV power is turned off.  | Turn on the TV.  |
| There is no sound or only a very low-level sound is heard.   | The equipment connected with the audio<br>cable is not set to receive DVD signal output.                     | Select the correct input mode of the audio so<br>you can listen to the sound from the unit.                    |
|  | The audio cables are not connected securely .  | Connect the audio cable into the jacks securely.   |
|  | The power of the equipment connected with<br>the audio cable is turned off.                                  | Turn on the equipment connected with the audio cable.  |
|  | The audio connecting cord is damaged.  | Replace it with new one.   |
| The playback picture is poor.                                | The disc is dirty.   | Clean the disc.  |
| The unit does not start playback.                            | No disc is inserted.   | Insert a disc. (Check that the DVD, or audio CD indicator in the DVD display is lit.)                          |
|  | An unplayable disc is inserted.  | Insert a playable disc. (Check the disc type, color system and Regional code.)                                 |
|  | The disc is placed upside down.  | Place the disc with the playback side down.  |
|  | The disc is not placed within the guide.   | Place the disc on the disc tray correctly inside the guide.  |
|  | The disc is dirty.   | Clean the disc.  |
|  | A menu is on the TV screen.  | Press the SET-UP button to turn off the menu screen.   |
|  | The Rating level is set.   | Cancel the Rating function or change the rating level.   |
| Severe hum or noise is heard.                                | The plugs and jacks are dirty.   | Wipe them with a cloth slightly moistened with alcohol.  |
|  | The disc is dirty.   | Clean the disc.  |
|  | The speakers and components are connected poorly.  | Connect the speakers and components securely.  |
|  | The unit is located with too close to the TV.  | Move your TV away from the audio components.   |
| Radio stations cannot be                                     | The antenna is positioned or connected   | Connect the antenna securely.  |
| tuned in.  | poorly.  | Adjust the antennas and connect an external antenna if necessary.  |
|  | The signal strength of the stations is too weak (when tuning in with automatic tuning).                      | Tune in the station manually.  |
|  | No stations have been preset or preset stations have been cleared (when tuning by scanning preset stations). | Preset the stations.   |
| The remote control does not work properly.                   | The remote control is not pointed at the remote sensor of the unit.  | Point the remote control at the remote sensor of the unit.   |
|  | The remote control is too far from the unit.   | Operate the remote control within about 23 ft (7 m).   |
|  | There is an obstacle in the path of the remote control and the unit.   | Remove the obstacle.   |
|  | The batteries in the remote control are exhausted.   | Replace the batteries with new ones.   |
| The sound mode or Pro<br>Logic II mode cannot<br>be changed. | The system cannot change while playing a MP3 or WMA disc.  | Insert such a CD disc.   |

# Language Code List

Enter the appropriate code number for the initial settings "Disc Audio", "Disc Subtitle" and/or "Disc Menu" (See page 21).

| Code | Language        | Code | Language         | Code | Language       | Code | Language   |
|------|-----------------|------|------------------|------|----------------|------|------------|
| 6566 | Abkhazian       | 7074 | Fiji             | 7678 | Lingala        | 8373 | Singhalese |
| 6565 | Afar            | 7073 | Finnish          | 7684 | Lithuanian     | 8375 | Slovak     |
| 6570 | Afrikaans       | 7082 | French           | 7775 | Macedonian     | 8376 | Slovenian  |
| 8381 | Albanian        | 7089 | Frisian          | 7771 | Malagasy       | 8379 | Somali     |
| 6577 | Ameharic        | 7176 | Galician         | 7783 | Malay          | 6983 | Spanish    |
| 6582 | Arabic          | 7565 | Georgian         | 7776 | Malayalam      | 8385 | Sudanese   |
| 7289 | Armenian        | 6869 | German           | 7784 | Maltese        | 8387 | Swahili    |
| 6583 | Assamese        | 6976 | Greek            | 7773 | Maori          | 8386 | Swedish    |
| 6588 | Aymara          | 7576 | Greenlandic      | 7782 | Marathi        | 8476 | Tagalog    |
| 6590 | Azerbaijani     | 7178 | Guarani          | 7779 | Moldavian      | 8471 | Tajik      |
| 6665 | Bashkir         | 7185 | Gujarati         | 7778 | Mongolian      | 8465 | Tamil      |
| 6985 | Basque          | 7265 | Hausa            | 7865 | Nauru          | 8484 | Tatar      |
| 6678 | Bengali; Bangla | 7387 | Hebrew           | 7869 | Nepali         | 8469 | Telugu     |
| 6890 | Bhutani         | 7273 | Hindi            | 7879 | Norwegian      | 8472 | Thai       |
| 6672 | Bihari          | 7285 | Hungarian        | 7982 | Oriya          | 6679 | Tibetan    |
| 6682 | Breton          | 7383 | Icelandic        | 8065 | Panjabi        | 8473 | Tigrinya   |
| 6671 | Bulgarian       | 7378 | Indonesian       | 8083 | Pashto, Pushto | 8479 | Tonga      |
| 7789 | Burmese         | 7365 | Interlingua      | 7065 | Persian        | 8482 | Turkish    |
| 6669 | Byelorussian    | 7165 | Irish            | 8076 | Polish         | 8475 | Turkmen    |
| 7577 | Cambodian       | 7384 | Italian          | 8084 | Portuguese     | 8487 | Twi        |
| 6765 | Catalan         | 7465 | Japanese         | 8185 | Quechua        | 8575 | Ukrainian  |
| 9072 | Chinese         | 7487 | Javanese         | 8277 | Rhaeto-Romance | 8582 | Urdu       |
| 6779 | Corsican        | 7578 | Kannada          | 8279 | Rumanian       | 8590 | Uzbek      |
| 7282 | Croatian        | 7583 | Kashmiri         | 8285 | Russian        | 8673 | Vietnamese |
| 6783 | Czech           | 7575 | Kazakh           | 8377 | Samoan         | 8679 | Volapük    |
| 6865 | Danish          | 7589 | Kirghiz          | 8365 | Sanskrit       | 6789 | Welsh      |
| 7876 | Dutch           | 7579 | Korean           | 7168 | Scots Gaelic   | 8779 | Wolof      |
| 6978 | English         | 7585 | Kurdish          | 8382 | Serbian        | 8872 | Xhosa      |
| 6979 | Esperanto       | 7679 | Laothian         | 8372 | Serbo-Croatian | 7473 | Yiddish    |
| 6984 | Estonian        | 7665 | Latin            | 8378 | Shona          | 8979 | Yoruba     |
| 7079 | Faroese         | 7686 | Latvian, Lettish | 8368 | Sindhi         | 9085 | Zulu       |

# **Country Code List**

Enter the appropriate code number for the initial setting "Country Code" (See page 25).

| Code | Country                  | Code     | Country                      | Code | Country                   | Code | Country                       |
|------|--------------------------|----------|------------------------------|------|---------------------------|------|-------------------------------|
| AD   | Andorra                  | ER       | Eritrea                      | LC   | Saint Lucia               | SC   | Seychelles                    |
| AE   | United Arab Emirates     | ES       | Spain                        | LI   | Liechtenstein             | SD   | Sudan                         |
| AF   | Afghanistan              | ET       | Ethiopia                     | LK   | Sri Lanka                 | SE   | Sweden                        |
| AG   | Antigua and Barbuda      | FI       | Finland                      | LR   | Liberia                   | SG   | Singapore                     |
| Al   | Anguilla                 | FJ       | Fiji                         | LS   | Lesotho                   | SH   | Saint Helena                  |
| AL   | Albania                  | FK       | Falkland Islands             | LT   | Lithuania                 | SI   | Slovenia                      |
| AM   | Armenia                  | FM       | Micronesia                   | LU   | Luxembourg                | SJ   | Svalbard and Jan Mayen        |
| AN   | Netherlands Antilles     | FO       | Faroe Islands                | LV   | Latvia                    |      | Islands                       |
| AO   | Angola                   | FR       | France                       | LY   | Libya                     | SK   | Slovak Republic               |
| AQ   | Antarctica               | FX       | France (European             | MA   | Morocco                   | SL   | Sierra Leone                  |
| AR   | Argentina                |          | Territory)                   | MC   | Monaco                    | SM   | San Marino                    |
| AS   | American Samoa           | GA       | Gabon                        | MD   | Moldavia                  | SN   | Senegal                       |
| AT   | Austria                  | GB       | Great Britain                | MG   | Madagascar                | SO   | Somalia                       |
| AU   | Australia                | GD       | Grenada                      | МН   | Marshall Islands          | SR   | Suriname                      |
| AW   | Aruba                    | GE       | Georgia                      | MK   | Macedonia                 | ST   | Saint Tome and Principe       |
| AZ   | Azerbaidjan              | GF       | French Guyana                | ML   | Mali                      | SU   | Former USSR                   |
| BA   | Bosnia-Herzegovina       | GH       | Ghana                        | MM   | Myanmar                   | SV   | El Salvador                   |
| BB   | Barbados                 | GI       | Gibraltar                    | MN   | Mongolia                  | SY   | Syria                         |
| BD   | Bangladesh               | GL       | Greenland                    | MO   | Macau                     | SZ   | Swaziland                     |
| BE   | Belgium                  | GM       | Gambia                       | MP   | Northern Mariana Islands  | TC   | Turks and Caicos Islands      |
| BF   | Burkina Faso             | GN       | Guinea                       | MQ   | Martinique (French)       | TD   | Chad                          |
| BG   | Bulgaria                 | GP       | Guadeloupe (French)          | MR   | Mauritania                | TF   | French Southern               |
| BH   | Bahrain                  | GQ       | Equatorial Guinea            | MS   | Montserrat                |      | Territories                   |
| BI   | Burundi                  | GR       | Greece                       | MT   | Malta                     | TG   | Togo                          |
| BJ   | Benin                    | GS       | S. Georgia & S. Sandwich     | MU   | Mauritius                 | TH   | Thailand                      |
| BM   | Bermuda                  | 0.0      | Isls.                        | MV   | Maldives                  | TJ   | Tadjikistan                   |
| BN   | Brunei Darussalam        | GT       | Guatemala                    | MW   | Malawi                    | TK   | Tokelau                       |
| BO   | Bolivia                  | GU       | Guam (USA)                   | MX   | Mexico                    | TM   | Turkmenistan                  |
| BR   | Brazil                   | GW       | Guinea Bissau                | MY   | Malaysia                  | TN   | Tunisia                       |
| BS   | Bahamas                  | GY       | Guyana                       | MZ   | Mozambique                | TO   | Tonga                         |
| BT   | Bhutan                   | HK       | Hong Kong                    | NA   | Namibia                   | TP   | East Timor                    |
| BV   | Bouvet Island            | HM       | Heard and McDonald           | NC   | New Caledonia (French)    | TR   | Turkey                        |
| BW   | Botswana                 | I IIVI   | Islands                      | NE   | Niger                     | TT   | Trinidad and Tobago           |
| BY   | Belarus                  | HN       | Honduras                     | NF   | Norfolk Island            | TV   | Tuvalu                        |
| BZ   | Belize                   | HR       | Croatia                      | NG   | Nigeria                   | TW   | Taiwan                        |
| CA   | Canada                   | HT       | Haiti                        | NI   | Nicaragua                 | TZ   | Tanzania                      |
| CC   | Cocos (Keeling) Islands  | HU       | Hungary                      | NL   | Netherlands               | UA   | Ukraine                       |
| CF   | Central African Republic | ID       | Indonesia                    | NO   | Norway                    | UG   | Uganda                        |
| CG   | Congo                    | IE       | Ireland                      | NP   | Nepal                     | UK   | United Kingdom                |
| CH   | Switzerland              | IL       | Israel                       | NR   | Nauru                     | UM   | USA Minor Outlying            |
| CI   | Ivory Coast              | IN       | India                        | NU   | Niue                      | Olvi | Islands                       |
| CK   | Cook Islands             | IO       | British Indian Ocean         | NZ   | New Zealand               | US   | United States                 |
| CL   | Chile                    | Ю        |                              | OM   | Oman                      | UY   |                               |
| CM   | Cameroon                 | IQ       | Territory                    | PA   | Panama                    | UZ   | Uruguay<br>Uzbekistan         |
| CN   | China                    | IR IR    | Iraq<br>Iran                 | PE   | Peru                      | VA   | Vatican City State            |
| CO   | Colombia                 | IS       | Iceland                      | PF   | Polynesia (French)        | VC   | Saint Vincent &               |
| CR   | Costa Rica               | IT       | Italy                        | PG   | Papua New Guinea          | VC   | Grenadines                    |
| CS   | Former Czechoslovakia    | JM       | Jamaica                      | PH   | Philippines               | VE   | Venezuela                     |
| CU   | Cuba                     | JO       | Jordan                       | PK   | Pakistan                  | VG   | Virgin Islands (British)      |
| CV   | Cape Verde               | JP       |                              | PL   | Poland                    | VI   | Virgin Islands (USA)          |
| CX   | <u> </u>                 |          | Japan                        | PM   | Saint Pierre and Miguelon | VN   | Virgin Islands (USA)  Vietnam |
| CY   | Christmas Island         | KE       | Kenya                        | PN   | Pitcairn Island           | VIV  | Vanuatu                       |
| CZ   | Cyprus Czech Republic    | KG<br>KH | Kyrgyzstan Cambodia6         | PR   | Puerto Rico               | WF   | Wallis and Futuna Islands     |
| DE   | <u> </u>                 | KI       | Kiribati                     | PT   | Portugal                  | WS   | Samoa                         |
| DJ   | Germany                  | KM       |                              | PW   | Palau                     | YE   |                               |
| DK   | Djibouti                 |          | Comoros                      | PY   | ******                    | YT   | Yemen<br>Mayotte              |
|      | Denmark                  | KN       | Saint Kitts & Nevis Anguilla |      | Paraguay                  |      |                               |
| DM   | Dominica Danublia        | KP       | North Korea                  | QA   | Qatar (Franch)            | YU   | Yugoslavia                    |
| DO   | Dominican Republic       | KR       | South Korea                  | RE   | Reunion (French)          | ZA   | South Africa                  |
| DZ   | Algeria                  | KW       | Kuwait                       | RO   | Romania                   | ZM   | Zambia                        |
| EC   | Ecuador                  | KY       | Cayman Islands               | RU   | Russian Federation        | ZR   | Zaire                         |
| EE   | Estonia                  | KZ       | Kazakhstan                   | RW   | Rwanda                    | ZW   | Zimbabwe                      |
| EG   | Egypt                    | LA       | Laos                         | SA   | Saudi Arabia              |      |                               |
| EH   | Western Sahara           | LB       | Lebanon                      | SB   | Solomon Islands           |      |                               |

### **Specifications**

General

Power supply Refer to the main label.

Power consumption 210W

Tuner/Amplifier

FM Tuning Range 87.5 - 108.0 MHz or 65 -74 MHz, 87.5 -108.0 MHz

Intermediate Frequency 10.7 MHz

Signal to Noise Ratio 60/55 dB (Mono/Stereo)

Frequency Response 60 - 10000 Hz

AM Tuning Range 522 - 1611 kHz or 530 - 1610 kHz or 530 - 1720 kHz

Intermediate Frequency 450 kHz
Signal to Noise Ratio 35 dB
Frequency Response 100 - 1800 Hz

Output Power Front: 100W + 100W (6Ω, THD 10 %), Center: 40W (6Ω, THD 10%)

Rear:  $40W + 40W (6\Omega, THD 10 \%)$ 

T.H.D 0.2%

Frequency Response 42 - 25000 Hz Signal-to-noise ratio 80 dB

Mass 5.5kg

External dimensions (W x H x D) 272 x 225 x 330 mm

### Cassette tape player/DVD/VCD/CD player

Mass 6.5kg

External dimensions (W x H x D) 272 x 225 x 330 mm

DVD/VCD/CD player

Frequency response (audio) 40 - 18000 Hz

 $\begin{array}{lll} \mbox{Signal-to-noise ratio (audio)} & \mbox{More than 70 dB (1 kHz)} \\ \mbox{Signal-to-noise ratio (video)} & \mbox{More than 60 dB (1 kHz)} \\ \mbox{Dynamic range (audio)} & \mbox{More than 70 dB} \\ \mbox{Video output} & \mbox{1.0 V (p-p), 75 } \Omega \\ \mbox{S-video output} & \mbox{(Y) 1.0 V (p-p), 75 } \Omega \end{array}$ 

(Y) 1.0 V (p-p), 75 Ω (C) 0.3 V (p-p), 75 Ω (Y) 1.0 V (p-p), 75 Ω

(Pb)/(Pr) 0.7 V (p-p), 75  $\Omega$ 

Cassette tape player

Component Video output

Tape Speed 3 kHz  $\pm$  3%

Wow Flutter 0.25% (MTT -111, JIS-WTD)

F.F/REW. Time 120sec (C-60) Frequency Response 125 - 8000Hz

Signal to Noise Ratio43dB(P/B)/43dB(R/B)Channel Separation45dB(P/B)/42dB(R/P)Erase Ratio52dB (MTT-5511)

#### **Speakers**

| Speaker Name               | Front Speaker (L/R) | Center Speaker  | Rear Speaker (L/R) |
|----------------------------|---------------------|-----------------|--------------------|
| Type                       | 3 Way 3 Speaker     | 2 Way 2 Speaker | 2 Way 2 Speaker    |
| Impedance                  | 6 Ω                 | 6 Ω             | 6 Ω                |
| Frequency Response         | 60 - 20000 Hz       | 120 - 20000 Hz  | 150 - 20000 Hz     |
| Sound Pressure Level       | 86 dB/W (1m)        | 84 dB/W (1m)    | 84 dB/W (1m)       |
| Rated Input Power          | 100 W               | 40 W            | 40 W               |
| Max. Input Power           | 200 W               | 80 W            | 80 W               |
| Net Dimensions (W x H x D) | 260X470X235.5mm     | 200X108X110mm   | 108X150X110mm      |
| Net Weight                 | 6.31 kg             | 0.85 kg         | 0.80 kg            |



P/NO: MFL37641078