

Important Safety Precautions



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

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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



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

CLASS 1
LASER PRODUCT



CAUTION Invisible laser radiation when open and interlock failed or defeated, avoid direct exposure to laser beam.



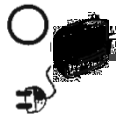
CAUTION Do not open any covers refer all servicing to qualified personnel.



CAUTION Be sure to operate product correctly as instructed.



CAUTION The product should not be used near heat sources such as radiators, stoves and other objects that produce heat.



CAUTION This product should be operated only from the type of power source indicated on the manual.



CAUTION Do not move the player during playback.



WARNING To reduce the risk of fire or electrical shock, do not expose this appliance to rain or moisture.



WARNING Do not watch motion picture while driving.

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1. COMPATIBLE DISCS

Available disc types in the DVD player.

Type of playable discs	Marks of playable discs	information	Diameter	Playback Time
DVD		Video & Audio	12cm	Single Layer Dual Layer
VIDEO-CD		Video & Audio	12cm	74minutes
AUDIO-CD		Audio	12cm	74minutes

2. HOW TO RECORD

CD-R, RW

MP3	File extension mp3 or disc by MP3
VCD	A disc is made in VCD format(Ver. 1,1, 2,0)
JPEG	File extension jpg or disc by JPG

DVD-R, RW, +R, +RW

This unit can play DVD-R/RW/+R/+RW discs recorded in DVD video format.

3. CAUTIONS ON HANDLING DISCS

1. HOW TO REMOVE FROM ITS STORAGE



- ① Pick up the disc by pressing the center of the supporting piece when taking out a disc from the case.
- ② Be careful not to leave a fingerprint.
- ③ Do not make any scratches on the signal surface and keep it clean.
- ④ Do not attach paper or seals on the disc.

2. HOW TO CLEAN

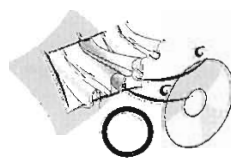


- ① Fingerprints or dirt on the disc may reduce sound and picture quality or cause break in playback.
- ② Wipe the disc with dry and soft cloth from center to edges.
- ③ Do not use thinner, benzene or other volatile chemicals which might cause damage the disc.

3. DISC STORAGE



Do not keep under direct sunlight and humid places.



Keep in a cool ventilated area.



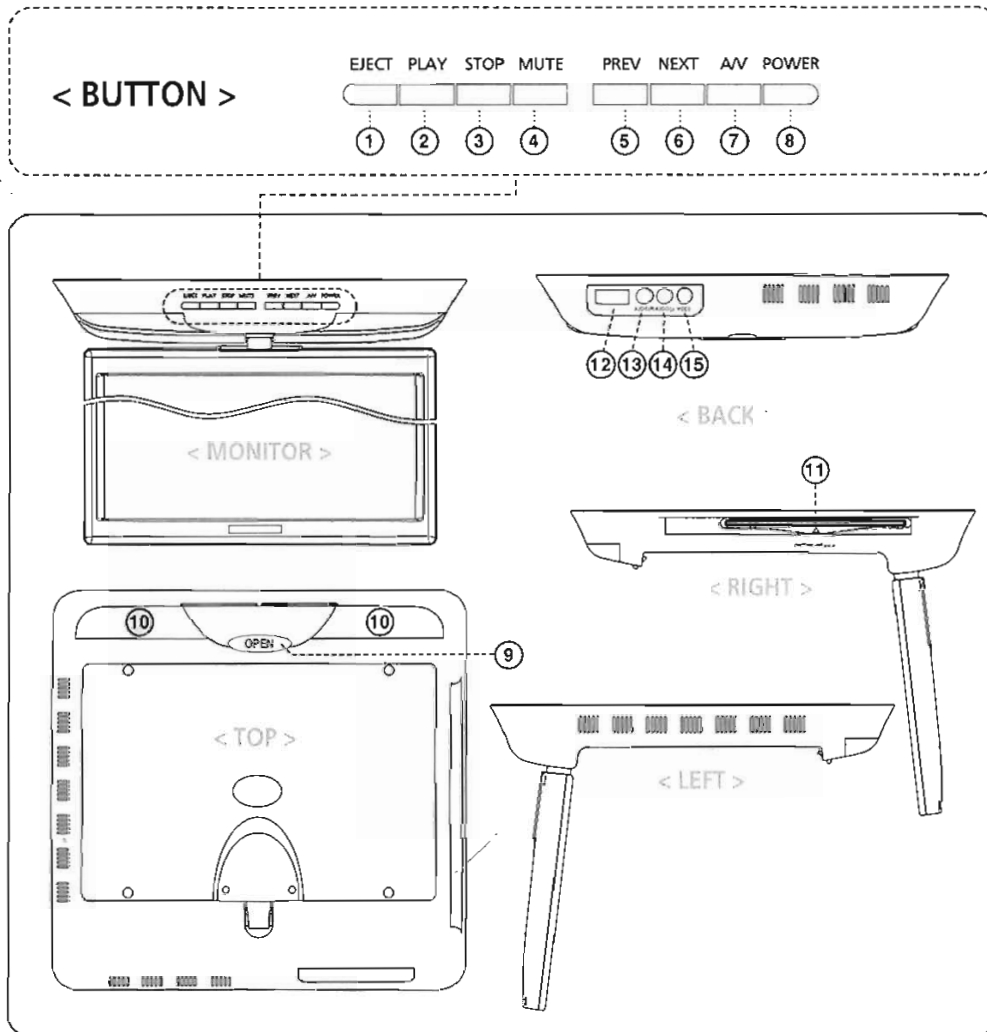
Keep in a clean protection jacket.

4. REGION CODE

There is national code DVD player and DISC by a nation if a code is matched, it can play use it code.

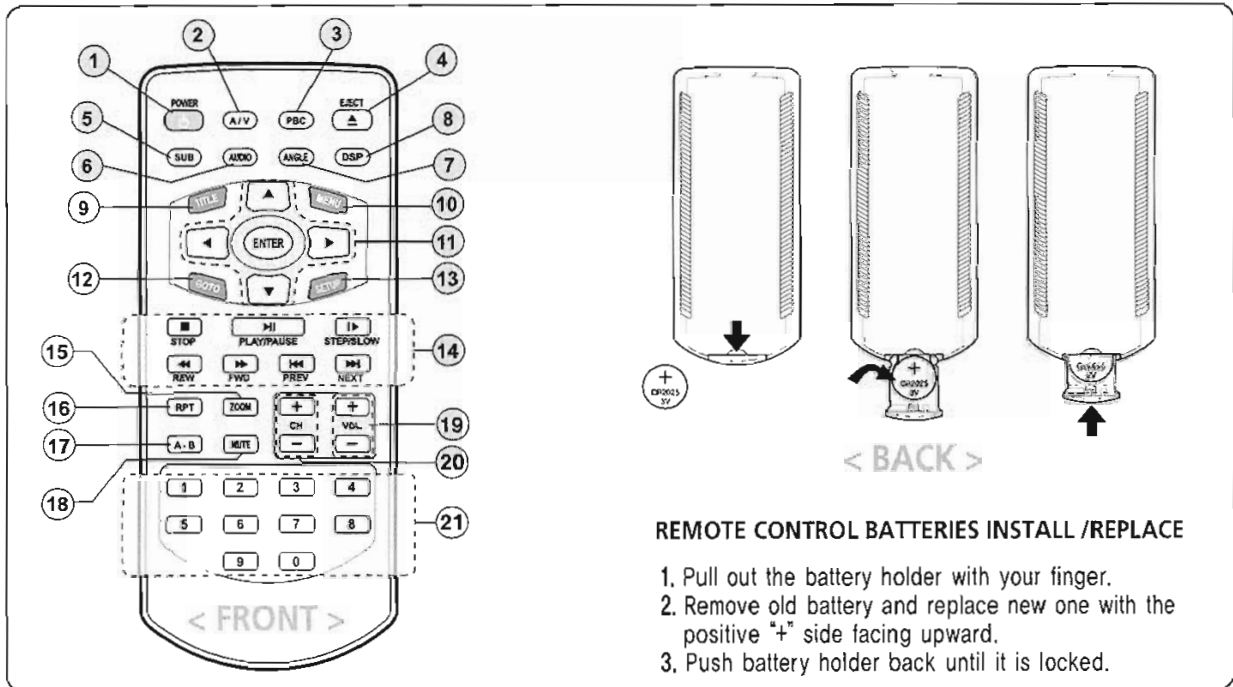
NO.	C O U N T R Y
1	U · S · A, Canada
2	Europe, Japan, South Africa, Egypt, Middle East
3	South Korea, Indonesia, Taiwan, Thailand, Philippines, Hong Kong
4	Australia, South America, Mexico, New Zealand the Caribbean Sea.
5	Eastern Europe, India, North Korea
6	China.

1. MONITOR



- ① DISC EJECT
- ② DISC PLAY
- ③ DISC STOP
- ④ MUTE
- ⑤ PREV
- ⑥ NEXT
- ⑦ CHANGE INPUT SOURCE
- ⑧ POWER
- ⑨ MONITOR OPEN SWITCH
- ⑩ DOME LIGHT LAMP(2EA)
- ⑪ CD INPUT
- ⑫ ⑩CONTROL SWITCH (OFF/DOOR/ON)
- ⑬ AUDIO "R" INPUT(Red, RCA)
- ⑭ AUDIO "L" INPUT(White, RCA)
- ⑮ VIDEO INPUT (Yellow, RCA)

2. REMOTE CONTROL

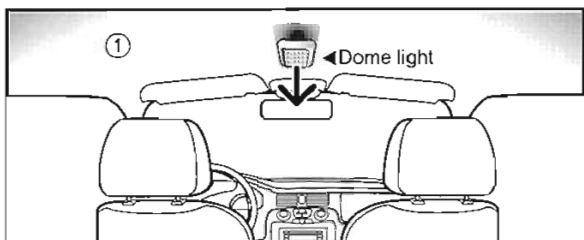


REMOTE CONTROL BATTERIES INSTALL /REPLACE

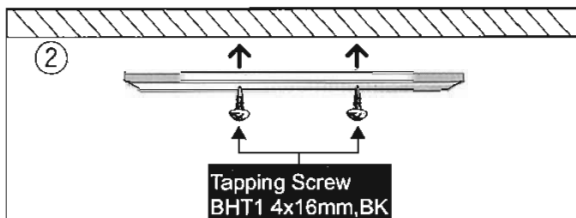
1. Pull out the battery holder with your finger.
2. Remove old battery and replace new one with the positive "+" side facing upward.
3. Push battery holder back until it is locked.

- | | | |
|-----------------------------------|---|---|
| ① POWER | : | Turns on/off the player. |
| ② A/V | : | Changes input source. |
| ③ PBC | : | Playback Control. |
| ④ EJECT | : | Eject disc. |
| ⑤ SUB | : | Changes the subtitle language to another available language or sets OFF. |
| ⑥ AUDIO | : | Changes the audio language to another available language (if the disc supports multiple audio languages.) |
| ⑦ ANGLE | : | View with a different frame angle.(This button is available only on multiple angle DVD's) |
| ⑧ DSP | : | Show an information of playing state. |
| ⑨ TITLE | : | Display title of DVD disc on the screen. |
| ⑩ MENU | : | Adjusting function.(TV or AV) |
| ⑪ ARROW BUTTONS
ENTER | : | Use to move to the desired menu.
Selects menu items and begins disc play. |
| ⑫ GOTO | : | Used to go to the chapter, track or song on the disc you want. |
| ⑬ SETUP | : | Adjusting function (DVD). |
| ⑭ STOP
PLAY/PAUSE
STEP/SLOW | : | Stop video playback in DVD and VIDEO CD mode.
Play or Pause video and audio media.
Press for slow reverse(or forward) scanning during pause.
(see the page 25 for further information) |
| REW/FWD
PREV/NEXT | : | Press for fast reverse or forward scanning during playback.(x2, x4, x8...) |
| ⑮ ZOOM | : | Select previous or next track, title, chapter or index. Select the beginning of current, track, title, chapter or index. |
| ⑯ RPT | : | Zoom in on picture. |
| ⑰ A-B | : | Selects an title, chapter or track you want to repeat. |
| ⑱ MUTE | : | Repeat selected zone that between first pressing and second pressing during playback. |
| ⑲ VOL +,- | : | Turn on/off the sound. |
| ⑳ CH +,- U/D +,- | : | Volume Up/Down, function adjusting. |
| ㉑ NUMERIC BUTTONS | : | TV channel Up/Down, FM frequency Up/Down. |
| | : | Use when making a selection on menu screens. |

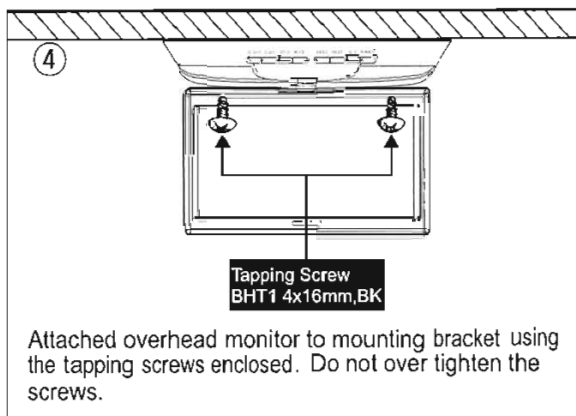
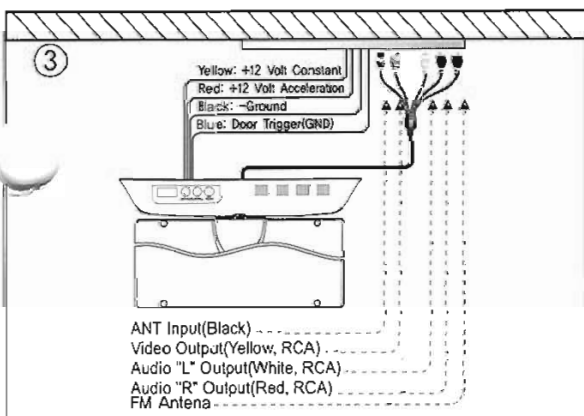
3. INSTALLATION



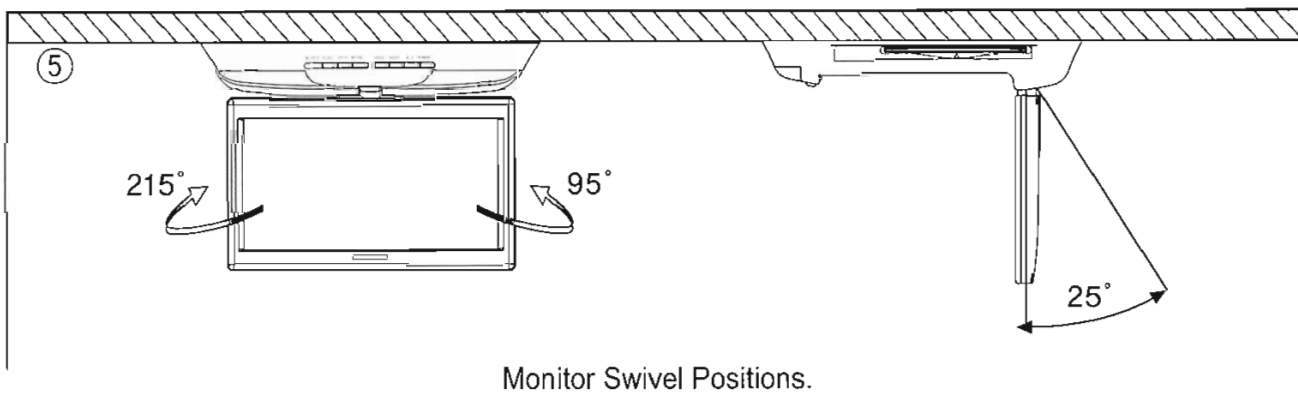
1
 Locate a mounting position on ceiling for your overhead monitor. Some vehicles may require the removal of the factory overhead dome light to ensure optimum viewing distance. Locate and secure the positive door trigger wire on the factory dome light harness. This wire will be used in step #3.



2
 After locating a proper mounting position for overhead, secure the overhead mounting metal bracket on to ceiling cross member roof support. DVD slot on bracket must be on the right side. Make sure to use proper size screws to avoid screwing thru theroof of car.

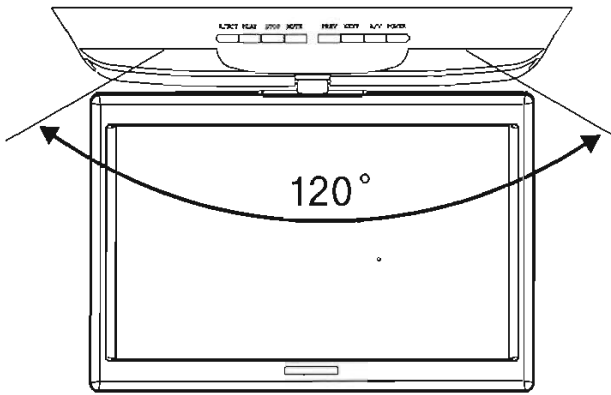


4
 Attached overhead monitor to mounting bracket using the tapping screws enclosed. Do not over tighten the screws.

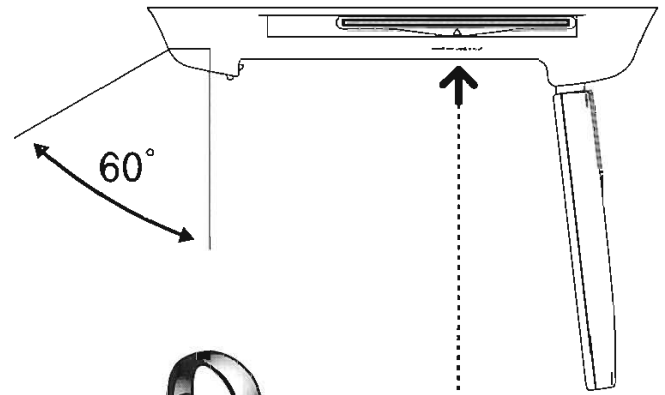


1. CONNECTION DIAGRAM

FRONT VIEW

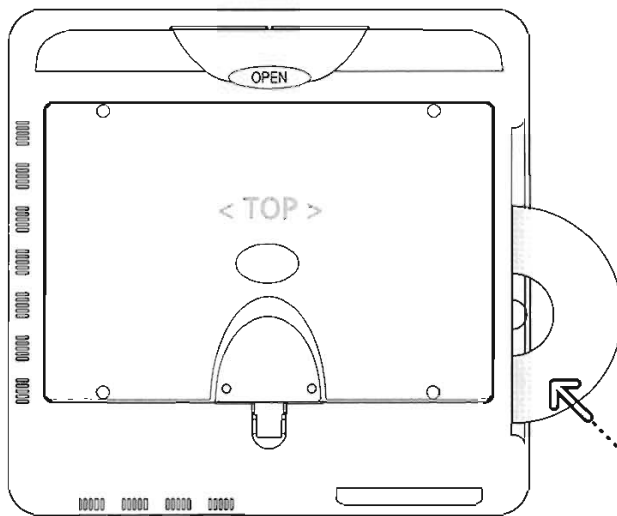


RIGHT SIDE VIEW



IR WIRELESS HEADPHONE
(Option)

TOP VIEW



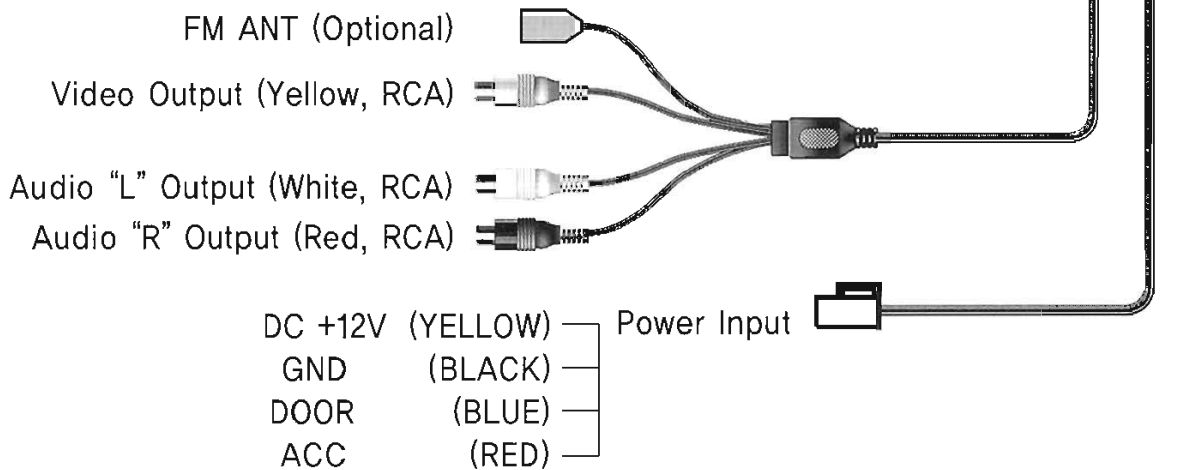
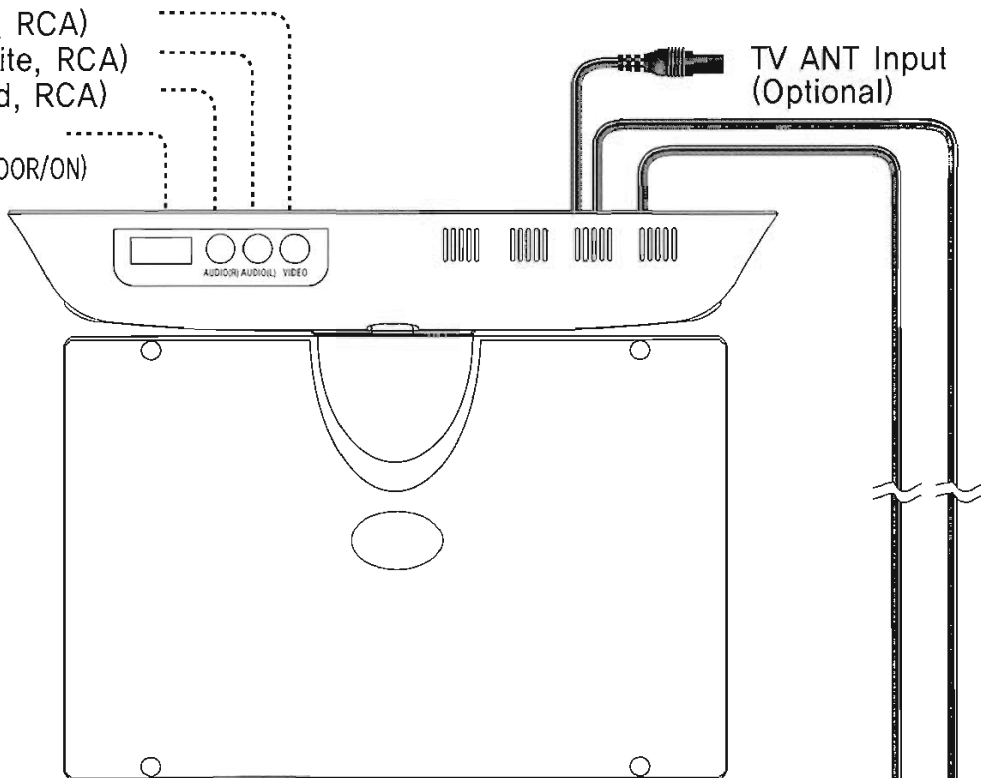
← DISC INPUT
(Labeled side facing up)

Signal Surface



REAR VIEW

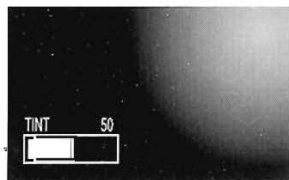
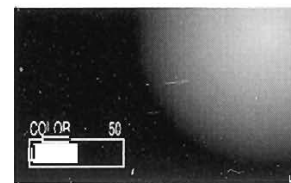
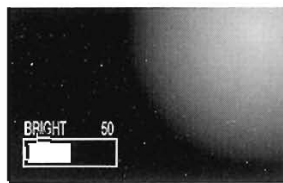
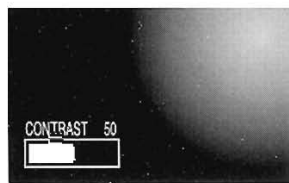
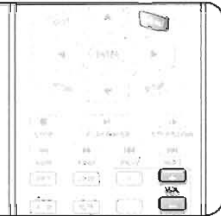
Video Input (Yellow, RCA)
 Audio "L" Input (White, RCA)
 Audio "R" Input (Red, RCA)
 DOME LIGHT LAMP
 CONTROL SWITCH (OFF/DOOR/ON)



1. MONITOR (AV/DVD MODE)

When pressing "MENU" button on the remote control the following menu will appear on the screen in order as below.

- ◆ Adjust each function with VOL(+,-)button.
- ◆ The OSD will disappear automatically after 5 seconds if no button.



TINT function is not available in PAL system.



(OPTIONAL)

If you want to listen to audio through for speakers, keep "FM TX ON" with VOL(+,-) button and select the frequency with CH/(+,-) U/D(+,-) button. Available frequency is 88.0 to 90.9MHz.



Change input source DVD/AV/TV(OPTIONAL)



When you put the ON.
This function allows power to be turned on automatically when the power jack is connected.



Screen can be changed to left and right.



Screen can be changed to up and down.



This function is for changing the picture ratio.
WIDE is 16 : 9 (Picture ratio)
Normal is 4 : 3 (Picture ratio)



Selectable language.



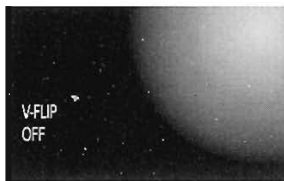
Change input source TV/DVD/AV.



With "Power Direct ON", it allows power to be turned on automatically.



Screen can be changed to left and right.



Screen can be changed to up and down.








This function is for changing the picture ratio.
WIDE is 16:9 (Picture ratio)
NORMAL is 4:3 (Picture ratio)

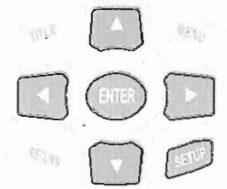


Selectable language.

2. DVD PLAYER (SETUP MENU)

When pressing "SETUP" button on the remote control. Following menu will appear on the screen.

- ◆ Press the STOP () button, during playback.
- ◆ To call the SETUP menu, press the SETUP Button.
- ◆ Adjust each function with Arrow (, , ENTER, , ) button.
- ◆ The menu will disappear when you press "SETUP" button again.

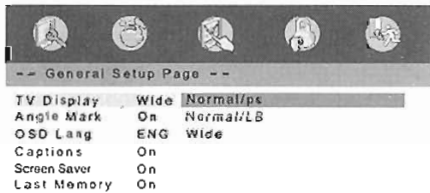


※ Hint of Arrow button : Previous(, Next(, Setup Fix(ENTER), List up(, List down()

1. GENERAL SETUP

TV DISPLAY

It is to select the aspect ratio of the playback picture.
Factory default setting is "WIDE"

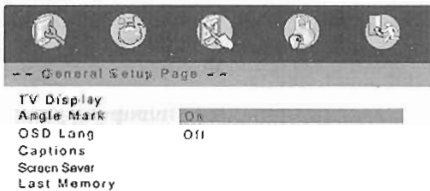


Set Display Mode

- NORMAL/PS : Pan and scan display.
This function is useful when the screen is 4:3 type.
- NORMAL/LB : Letter box display.

ANGLE MARK

You can set up so that the angle mark appears on scenes.

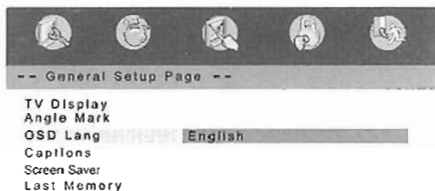


Set Angle Mark

- ON : When selected, the screen will show angle mark during playback.
(This option is available only when the disc is with angle marks.)
- OFF : When selected, no angle mark is shown on the screen.

OSD LANGUAGE

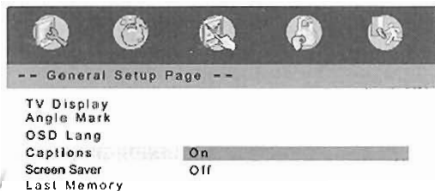
Use this option to set the on-screen display language.



Choose your prefer language.

Set OSD Language

CAPTIONS

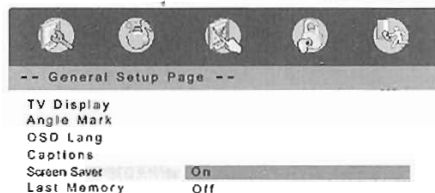


Adjusts caption selections.
(This option is available only when the disc has caption function.)

- ON : Choose this setting to display captions.
- OFF : Choose this setting to close captions.

Closed Caption

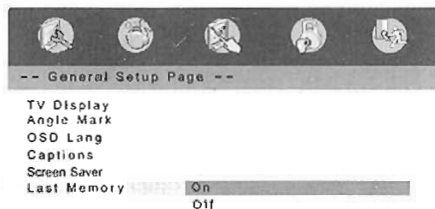
SCREEN SAVER



The screen saver is useful to prevent your display from becoming damaged. The screen saver picture appears when you leave the DVD player in stop mode in about 12 minutes.

Screen Saver

LAST MEMORY



Adjusts Last Memory selections

Set Last Memory State

2. DVD PLAYER (SETUP MENU)

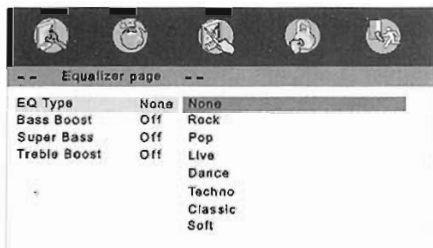
2. AUDIO SETUP

DOLBY DIGITAL SETUP

- Dual Mono
This is useful only when the input consists of two independent audio channels.
 - Stereo : Reproduce both channels as it is
 - L-Mono : Reproduce left channel only.
 - R-Mono : Reproduce right channel only.
 - Mix-Mono : Mix both channels.
- Dynamic
It compresses the dynamic range of a disc's soundtrack. It is useful when you listen to audio(of the video) at lower volume without losing dialogue intelligibility.

EQUALIZER

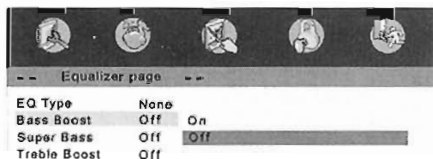
- EQ Type



Select Equalizer Type

This unit can produce a 3D Surround effect, using 3D Surround Sound technology. Choose the desired preset equalizer mode. (Rock, Pop, Live, Dance, Techno, Classic, Soft)

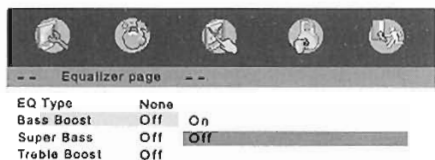
- BASS BOOST



Bass Boost

This is enhanced at all levels without distorting other frequency.

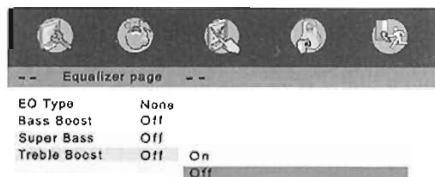
• SUPER BASS



This is enhanced at all levels without distorting other frequency.

Bass Boost

• TREBLE BOOST



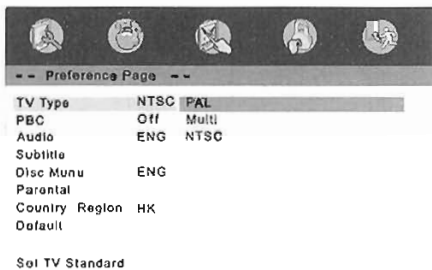
This is enhanced at all levels without distorting other frequency.

Treble Boost

3. PREFERENCE SETUP

It is not allowed to select this function during playback after playing when DVD stops select each function.

TV TYPE



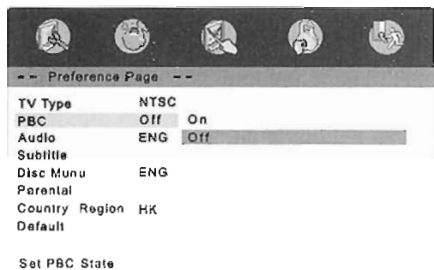
Choose the color system

- PAL : Available in Europe, Asia and China etc.
- MULTI : For multi system.
- NTSC : Available in U.S.A, Japan etc.

2. DVD PLAYER (SETUP MENU)

PBC

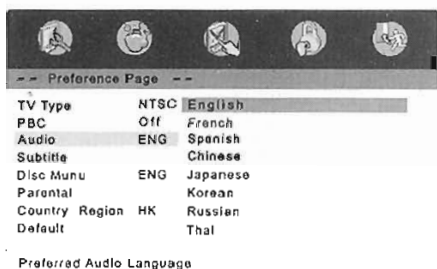
This feature is only available when a (Super) Video CD is loaded. It allows you to disable or enable the PBC (Playback Control) menu of VCD discs.



- 1) Press the SETUP() button when during stop mode.
- 2) Press the LEFT/RIGHT() button to move to Preference.
- 3) Press the UP/DOWN() button to move PBC.
- 4) Press the ENTER() button.
- 5) Press the UP/DOWN() button to select ON/OFF.

AUDIO

Use the Audio language menu to select the subtitle language that prefer. If the disc you are playing has that language available, it will display subtitle in that language.



- 1) Press the SETUP() button when during stop mode.
- 2) Press the LEFT/RIGHT() button to move to Preference.
- 3) Press the UP/DOWN() button to move Audio.
- 4) Press the ENTER() button.
- 5) Press the UP/DOWN() button to select desired audio language.

SUBTITLE

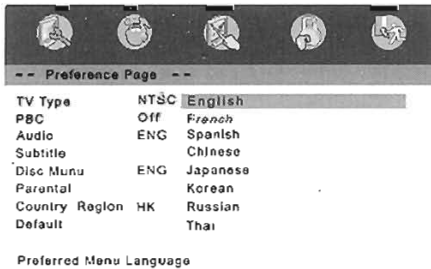
Use the subtitle language menu to select the subtitle language that you prefer. If the disc you are playing has that language available, it will display subtitle in that language.



- 1) Press the SETUP() button when during stop mode.
- 2) Press the LEFT/RIGHT() button to move to Preference.
- 3) Press the UP/DOWN() button to move Subtitle.
- 4) Press the ENTER() button.
- 5) Press the UP/DOWN() button to select desired Subtitle language.

DISC MENU

Use the Disc Menu option to select the language you want a DVD's disc menu to be displayed in (not the same as the player menu)

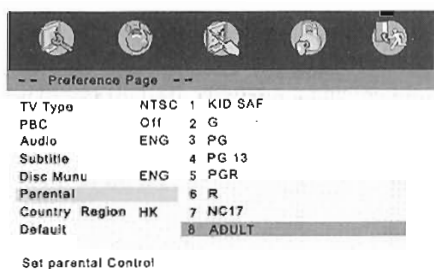


- 1) Press the SETUP() button when during stop mode.
- 2) Press the LEFT/RIGHT() button to move to Preference.
- 3) Press the UP/DOWN() button to move Disc Menu.
- 4) Press the ENTER() button.
- 5) Press the UP/DOWN() button to select Disc Menu.

2. DVD PLAYER (SETUP MENU)

PARENTAL

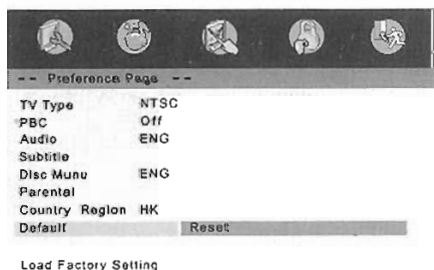
The Parental feature is a rating limit system, like movie ratings. It works with DVD disc that have been assigned a rating. This option lets you determine how your player will react to discs that contain movies that are rated (in the U.S.A., the Motion Pictures Association of America rates movies as G, PG, PG-13, etc.) You decide which ratings require a password and which ones don't.



- 1) Press the SETUP() button when during stop mode.
- 2) Press the LEFT/RIGHT() button to move to Preference.
- 3) Press the UP/DOWN() button to move Parental.
- 4) Press the ENTER() button.
- 5) Press the UP/DOWN() button to select desired parental level.

DEFAULT

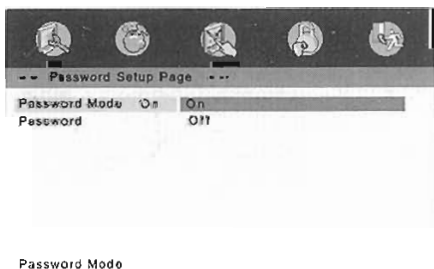
Use the function to reset all functions to the factory defaults.



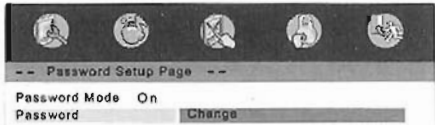
- 1) Press the SETUP() button when during stop mode.
- 2) Press the LEFT/RIGHT() button to move to Preference.
- 3) Press the UP/DOWN() button to Default.
- 4) Press the ENTER() button.

4. PASSWORD SETUP

PASSWORD MODE



PASSWORD CHANGE



• Select "Password Change" sub item.

Change Password



• Enter your old password and new password

Old password
New Password
Confirm PWD
OK



• Re-enter new password for confirming then press OK

Old password
New Password
Confirm PWD
OK



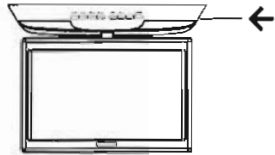
NOTE


- ◆ Temporary password : 136900
- ◆ Do not forget the password.
- ◆ The setting cannot be changed without the correct password.

2. DVD PLAYER (BASIC OPERATION)







1. DVD/ VCD

HOW TO PLAY A DVD







- ① Press the POWER() button.
- ② Insert a DVD disc. Ensure that the labeled side facing up

BASIC PLAYBACK CONTROLS

- PLAY/PAUSE() : Start playback or pause on a disc on playing (press it again to replay).
- STOP () : Stop playback.
- REW () : Press for fast backward searching.
- FWD(F) () : Press for fast forward searching.
- PREV () : Skip to the previous chapter.
- NEXT () : Skip to the next chapter.

BASIC DISC MENU CONTROLS

Some DVD's has its own menu. Sometimes it is displayed automatically when you start playback

- TITLE () : Displays the top menu of a DVD disc.
- MENU () : Displays DVD menu. This varies with the disc and may be the same as the top menu.
- ARROW () : Move the cursor on the screen.
- ENTER () : Selects the current menu option.



- ◆ Do not move the DVD player during playback, doing so may damage the disc and the DVD player.
- ◆ When "⊘" appears on the TV screen while a button is pressed, it means that this function is not available on the disc you are playing.
- ◆ Depending on the DVD, some operations may be different or restricted. Refer to the jacket or case of disc you are playing.

FAST FORWARD/ REVERSE

Use this function to play the DISC contents in fast forward or fast reverse.
When searching, audio will be muted on searching (except CD-DA).

DVD

◀ x2 ◀ x4 ◀ x8 ◀ x16 ◀ x32
▶ x2 ▶ x4 ▶ x8 ▶ x16 ▶ x32

- Press the REW(◀) or FWD(▶) button during playback.
- Press the PLAY/PAUSE(⏸) button to resume normal playback.

VCD

◀ x2 ◀ x4 ◀ x8 ◀ x16 ◀ x32
▶ x2 ▶ x4 ▶ x8 ▶ x16 ▶ x32

SKIP FORWARD/ REVERSE

Use this function to move to the next or previous chapter for DVD and CD-DA.

- Press the PREV(◀◀) button to go to the previous chapter or track.
- Press the NEXT(▶▶) button to go to the next chapter or track.



◆ This function will not operate if there is only one chapter on the disc.

SLOW FORWARD/ REVERSE

Use this function to play the DISC contents in slow forward or slow reverse.

DVD

▶▶ 1/2 ▶ 1/4 ▶ 1/8 ▶ 1/16
◀◀ 1/2 ▶ 1/4 ▶ 1/8 ▶ 1/16

- Press STEP/SLOW(▶▶) button during playback, above will appear on the screen and play slowly. During searching, audio will be muted.
- Press REW(◀◀) or FWD(▶▶) button repeatedly.
- Press PLAY/PAUSE(⏸) button to resume normal playback.

VCD(SVCD)

◀◀ ∅
▶▶ 1/2 ▶ 1/4 ▶ 1/8

FRAME-BY-FRAME PLAYBACK

- Press STEP/SLOW(▶▶) button twice during play mode.
- Press NEXT(▶▶) or PREV(◀◀) button repeatedly, it plays frame by frame at a time.
- Press PLAY/PAUSE(⏸) button to resume normal playback.

2. DVD PLAYER (BASIC OPERATION)

DISPLAY A PLAYBACK STATES

You can display the playback states on the screen as follows :
Title, Chapter number, Playing time, Disc.



- Press the DISPLAY(**DSP**) button during playback. Disc, Chapter (DVD), Track (CD-DA), Time information appears on screen.
- To turn off the OSD, press the DISPLAY (**DSP**) button.

SELECTING SUBTITLES

It is possible to change the subtitle language to a different language from the one selected at the initial settings. This operations works only with discs on which multiple subtitle languages are recorded.




- Press the SUB(**SUB**) button during playback. The subtitle info banner appears. The default is Subtitle off. If no subtitles are recorded, the (**Ø**) icon will appear.
- Press the SUB(**SUB**) button repeatedly until the desired subtitle language is displayed.
- To turn the subtitles off, press the SUB(**SUB**) button until Subtitle off is displayed.



NOTE

- ◆ This function is depend on the disc. There are some DVDs that prevent selecting subtitle even if it supports multiple subtitles. In this case, the subtitle should be selected via the disc menu.


REPEATING A TITLE, CHAPTER(DVD), TRACK(CD-DA)

You can play the desired title, chapter, section repeatedly. Press the RPT() button during playback. When the button is pressed, it will show the repeat mode as the following.

DVD
CHAPTER ▷ TITLE ▷ ALL ▷ REPEAT OFF

CD-DA
SHUFFLE ▷ TRACK ▷ ALL

MP3
SHUFFLE ▷ RANDOM ▷ SINGLE ▷ REPEAT ONE
▷ REPEAT FOLDER ▷ FOLDER




- To Resume normal playback, press the RPT() button repeatedly until the repeat mode indicator disappears on screen.



NOTE

- ◆ The repeat mode may not operate for some types of disc.

REPEATING A SPECIFIC SECTION


- During playback, press the A-B() button on at the beginning of the desired section.
- Press the A-B() button again at the end of the section. "AB" will be displayed on the screen then the A-B section is continually repeated.
- To resume normal playback, press the A-B() button repeatedly until the repeat mode indicator disappears on screen.

2. DVD PLAYER (BASIC OPERATION)



SELECTING AUDIO LANGUAGE

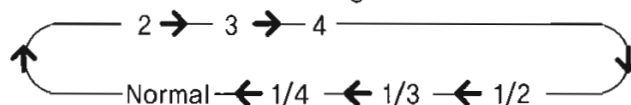
It is possible to change the audio soundtrack language to a different language from the one selected at the initial setting. This operation works only with discs on which multiple audio soundtrack languages are recorded. If the loaded disc supports multiple languages, you can select the audio language.




- Press the AUDIO () button repeatedly during playback. Each time you press the audio button, the language is changed.

ZOOM A PICTURE




- Press the ZOOM () button during playback.
- Each press of the ZOOM () button changes the zoom mode in the following sequence.



- If you press the direction button during the ZOOM mode, the ZOOM point will shift.
- To resume normal playback, press ZOOM () button repeatedly until the repeat mode indicator disappears on screen.

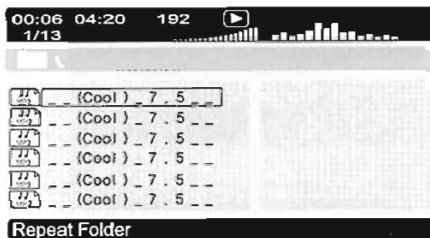
SWITCHING THE CAMERA ANGLE

Some DVDs contain scenes that have been shot simultaneously from multiple angles.

- Press the ANGLE () button on the remote control during playback. The ANGLE icon appears. If no additional camera angle are recorded, the () icon will be displayed.
- If multiple camera angles are recorded, the ANGLE icon displays the current angle number and the number of angles available.
- Press the ANGLE () button again to go to the next camera angle.

2. MP3

HOW TO PLAY A MP3 FILE



- Insert the MP3 disc. Make sure that labeled side facing up.
- MP3 menu screen is displayed automatically depending on MP3 discs folder(directory) structure.
- Use UP (▲) or DOWN (▼) button to find the desired folder.
- Press the ENTER (ENTER) button to select. The file list of the folder will be displayed.



- ◆ MP3 file must be formatted by ISO 9660 or JOLIET.
- ◆ The file name of MP3 can not use particular letters(/,\,;,*,!,",<,>,|...).
- ◆ You can not record copy protected MP3 file.
- ◆ You may not play contain MP3 disc depending on the recording condition.

3. JPEG

HOW TO SEE A JPEG FILE

When a JPEG file is loaded, the table of contents is displayed on the screen. 12 slide show transition modes are provided.

1. Select the picture

Select the picture that you want to see, by pressing the UP (▲) or DOWN (▼) button. The selected item is displayed on the screen.

2. Image rotation

There are 4 modes to rotate a picture : Left, Right, Invert, Mirror

- UP (▲) button : Invert
- DOWN (▼) button : Mirror
- LEFT (◀) button : Rotate to left
- RIGHT (▶) button : Rotate to right

TFT LCD DVD PLAYER

Power Source	DC 12V
Power Consumption	MAX3.0, 36W(Built-in dome light)
System	NTSC/PAL/MULTI
Operate Temperature	-5°C ~ +55°C
Storage Temperature	-20°C ~ +80°C
LCD Panel	Digital TFT Panel
Resolution	800(RGB)×480(V) Pixels
Angle of Sight	L/R: ±60°, UP +50°, DOWN -60°
Video Out	1.0 Vp-p(75Ω)
Audio Out	1 Vrms(1KHz)
Supported Disc	DVD DISC VIDEO CD SUPER-VCD MP3
Dimension	278(W)×273(H)×49(D)

