

KENWOOD

10.2" OVERHEAD MONITOR WITH DVD PLAYER

LZH-D120B LZH-D120G

INSTRUCTION MANUAL

Kenwood Corporation



Contents

Safety precautions/Notes	3	DVD Setup	16
Before use	4	Basic Operation	16
About discs	6	LANGUAGE	16
About the Remote Controller	7	VIDEO	18
Component Names and Functions	8	AUDIO	18
Basic Operations	11	LOCK	19
Releasing the Monitor	11	OTHER	19
PWR (Power) ON and OFF	11	Display Control Setup	20
SRC (Source) select	11	Basic Operation	20
Basic Playback of Disc	12	PICTURE	20
On screen display	12	FUNCTION	21
Last Scene Memory	12	OTHER	21
Basic Play	12	DISPLAY	22
To start playback of DVD video, audio CD or VCD	12	Accessories/Installation	23
To start playback of audio CD, DivX, MP3, WMA or JPEG files	12	Connecting Wires to Terminals	25
To stop playback	13	Troubleshooting	26
To pause playback	13	Check Point	26
Skipping chapters, tracks or files	13	Changing the Lamp Bulbs	26
Searching	13	Specifications	27
Repeat play	13		
Movie Disc Playback	14		
Playback from desired title, chapter or track	14		
Time Search	14		
Select Audio Language	14		
Select Subtitle Language	14		
Select Camera angle	14		
Music Disc/Photo Files Playback	15		
Music disc Playback	15		
Playback from desired track or file	15		
Photo files Playback (Slide show)	15		

Safety precautions/Notes

▲WARNING

To prevent injury or fire, take the following precautions:

- Insert the unit all the way in until it is fully locked in place. Otherwise, it may fall out place when jolted.
- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer.
- Do not connect the unit to the front monitor. This unit is for rear seat entertainment.

▲CAUTION

To prevent damage to the unit, take the following precautions:

- Make sure to ground the unit to a negative 12V power supply.
- Do not open the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit. When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- To minimize the risk of improper installation, Kenwood recommends that the installation of this product be performed by an MECP-Certified professional installer. Improper installation may cause damage to the vehicle or injury to the driver and occupants.
- Installation must be performed according to this product installation manual. Kenwood is not responsible for damages or injuries resulting from installation not performed strictly in accordance with the procedures described in this manual.
- Proper installation of this product may require the use of mounting hardware not included with this product.
- Use only new, unused and properly-sized fasteners to install this product. Do not use previously-installed or worn fasteners.
- No modifications to the product or mounting hardware are permitted.
- This product is designed to be used and viewed by rear seat passengers only. The monitor screen must not be visible to the driver. Viewing by the driver while operating the vehicle will create an unsafe condition.

- Kenwood does not recommend connecting hanging wires or cables to auxiliary connectors while the vehicle is in motion.
- This product must not obstruct the driver's rear view when installed or used.
- It is the responsibility of the purchaser and installer to comply with all applicable laws and regulations governing the installation and use of this product.
- Kenwood disclaims all liability for any property damage or personal injury that may result from improper or unintended installation or use of this product.

NOTE

- If you experience problems during installation, consult your Kenwood dealer.
- The illustrations of the display and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the actual display some of the illustrations on the display may represent something impossible in actual operation.

Handling the LCD screen

Do not scratch the LCD or exert pressure it. This could cause malfunction.

Lens Fogging

Right after you turn on the car heater in cold weather, dew or condensation may form on the lens in the DVD player of the unit. Called lens fogging, DVD may not be played in such condensation. If the unit still does not operate normally after while, consult your Kenwood dealer.

Cleaning the Unit

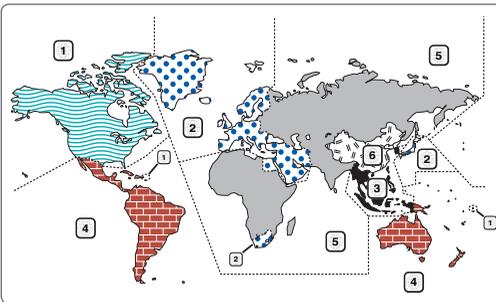
- If the faceplate of this unit is stained, wipe it with a dry soft cloth such as a silicon cloth. If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe neutral cleaner off.
- Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the faceplate with a hard cloth or using a volatile liquid such as thinner or alcohol may scratch the surface or erase characters.

Before use

Icons on the DVD discs

Icon	Description
	Indicates the region code where the disc can be played.
	Number of voice languages recorded with the audio function. The number in the icon indicates the number of voice Languages. (Max. 8 languages)
	Number of subtitle languages recorded with the subtitle function. The number in the icon indicates the number of subtitle languages. (Max. 32 languages)
	Number of angles provided by the angle function. The number in the icon indicates the number of angles. (Max. 9 angles)
	Aspect ratios that can be selected. "LB" stands for letter Box and "PS" for Pan/Scan. In the example on the left, the 16:9 video can be converted into letter box video.

Region codes in the world



※ The Region Code of the unit is labeled on the gift box.

About "DualDisc"

When playing a "DualDisc" on this unit, the surface of the disc that is not played may be scratched while the disc is inserted or ejected. Since the music CD surface does not conform to the CD standard, playback may be impossible. (A "DualDisc" is a disc with one surface containing DVD standard signals and the other surface containing music CD signals.)

Playable discs

- CD
- CD-R
- DVD-Video
- DVD-R
- DVD-RW
- VCD
- CD-RW
- DVD+R
- DVD+RW

Playable media format

- MPEG1
- DVD-Video
- Video CD Ver.1.1
- CD-DA
- JPG
- MPEG2
- Video CD Ver.1.0
- Video CD Ver.2.0
- MP3

Unplayable discs

- DVD-ROM/DVD-RAM
 - CDV*
 - CDG/CD-EG/CD-Extra*
 - HQ-VCD
 - Photo CD
 - SACD/Hybrid SACD
- * Only the audio part can be played.

Restrictions due to difference between discs

Some DVD and VCD discs can be played only in certain playback modes according to the intentions of the software producers. As this player plays discs according to their intentions, some functions may not work as intended by you. Please be sure to read the instructions provided with each disc. When an inhibition icon is displayed on the monitor, it indicates that the disc being played is under the restriction as described above.



Playable files with this unit

Category / Item	Extension	Detail	(Audio)
MOVIE [file size : 4GB (Max.)]			
MPEG1	.MPG, .MPEG	Video resolution : 352 x 240 (Max.) Bit Rate : 2M bps (Max.)	MPEG1 Layer1 & 2
MPEG2	.MPG, .MPEG	Video resolution : 720 x 576 (Max.) Bit Rate : 9.8M bps (Max.)	MPEG1 Layer1 & 2
DivX® VIDEO *	.AVI, .DIVX	Video resolution : 720 x 576 (Max.) Bit Rate : 6M bps (Max.)	WAV, MP3, WMA Dolby Digital
MUSIC [file size : 4GB (Max.)]			
MPEG Audio	.MP3	Layer III Bit Rate 8 - 320 kbps, CBR/VBR FS 32k, 44.1k, 48kHz	
WMA	.WMA	Bit Rate 32 - 192 kbps, CBR/VBR FS 32k, 44.1k, 48kHz	
PHOTO [file size : 4MB (Max.)]			
JPEG	JPG, JPEG	Video resolution : 3072 x 2048 (Max.) 24 bit True color	

- Depending on the data recording condition and other factors, playback may not be possible.
- Usable formats for MP3/WMA/JPEG : ISO9660 level 1, 2 (excluding expanded formats : Joliet, Romeo)
- * Official DivX® Certified product. Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files.

About discs

Handling discs

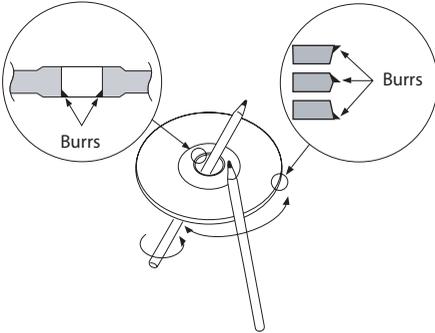
- Don't touch the recording surface of the disc.



- CD-R and CD-RW are easier to damage than a normal music CD. Use a CD-R/RW, DVD-R/RW or DVD+R/RW after reading the caution items on the package etc.
- Don't stick tape etc. on the disc. Also, Don't use a disc with tape stuck on it.

When using a new disc

If the disc center hole or outside rim has burrs, use it after removing them with a ball point pen etc.

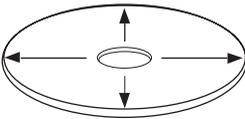


Disc accessories

Don't use disc type accessories.

Disc cleaning

Clean from the center of the disc and move outward.



Removing discs

When removing discs from this unit, pull them out horizontally.

Discs that can't be used

- Discs that aren't round can't be used.
- Discs with coloring on the recording surface of discs that are dirty can't be used.
- This unit can only play the CDs with



It may not correctly play discs which do not have the logo.

- A CD-R or CD-RW that hasn't been finalized can't be played. (For the finalization process, refer to your CD-R/CD-RW writing software and recorder instruction manual.)

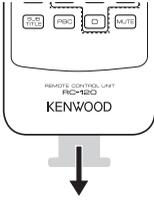
Disc storage

- Don't place them in direct sunlight (on the seat or dashboard etc.) and where the temperature is high.
- Store discs in their cases.

About the Remote Controller

Preparing the remote control unit

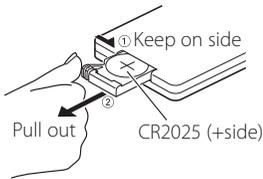
Pull the battery sheet out from the remote control unit to the direction of the arrow.



Changing the battery of the remote control unit

Use a commercially available button battery (CR2025).

Insert the battery with the + and – poles aligned properly, following the illustration inside the case.



⚠ CAUTION

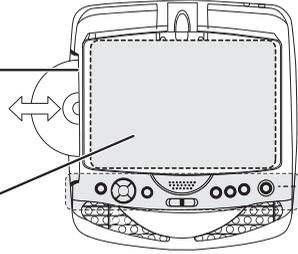
- Do not set the remote control in hot places such as on the dashboard.
- Lithium battery.
Danger of explosion if the battery is incorrectly replaced.
Replace only with the same or equivalent type.
- The battery pack or batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- Keep battery out of reach of children and in original package until ready to use. Dispose of used batteries promptly. If swallowed contact physician immediately.

Component Names and Functions

Unit

Disc Loading Slot

Load a disc in the disc loading slot with the label side up. When removing discs from this unit, pull them out horizontally.



⚠ CAUTION

Do not push the display area strongly during the installation or operation.

Door Light Switch

OFF: Light is off.

DOOR: Light goes on when car doors are opened and goes off when car doors are closed.

ON: Light is on and stays on until switch is moved to "DOOR" or "OFF" position.

PWR (Power)

Switches the unit ON and OFF.

PLAY

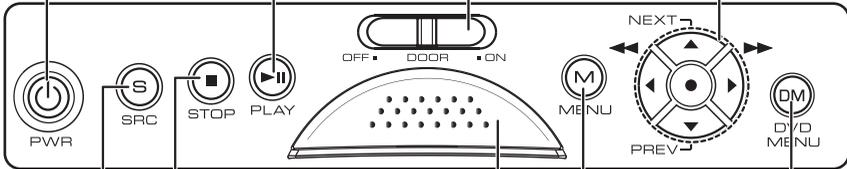
Play/Pause disc play.



Selects an item in the menu.

● (ENTER)

Confirms menu selection.



STOP

Stops playback.

Monitor Open Button

DM (DVD MENU)

Display the title menu of the loaded DVD disc.

SRC (Source Select)

Select the Source (DVD, AV1, AV2).

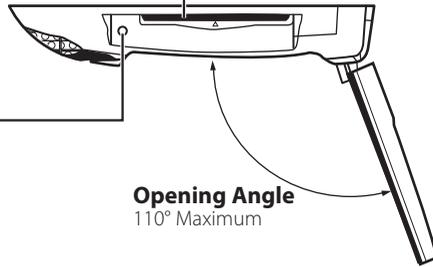
M (MENU)

Calls the Display Control Menu.

Disc Loading Slot

EJECT
Eject a disc

Opening Angle
110° Maximum



PWR (Power)

Switches the unit ON and OFF.

Reset

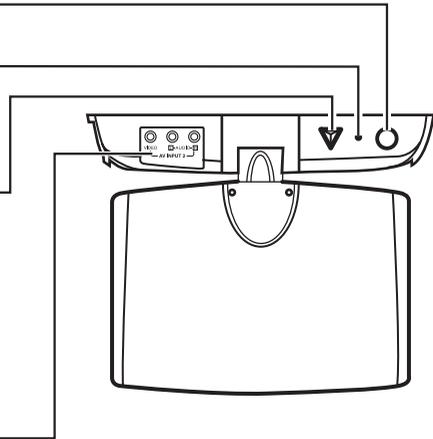
If all buttons on the Unit or Remote Control are in malfunction, a User can reset the Unit by pushing this button. Then, the unit will be automatically power off.

SPC (Smart Parental Control)

While a DVD is being used or playing, the driver or front seat passenger can gain the attention from the rear seat passenger by pushing the SPC button. The audio will be muted and video paused with "ATTENTION ! Press SPC to resume" warning displayed on the screen. Pressing this button again will resume the movie from the point it was paused, un-mute the audio, and turn off the warning message.

AV2 Input Terminal

- Visual input (Yellow)
- Audio left input (White)
- Audio right input (Red)



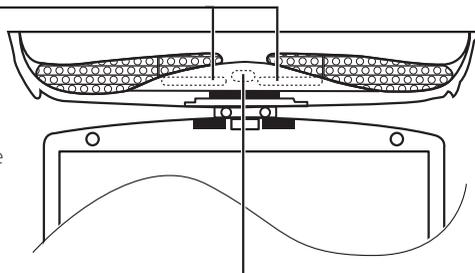
IR Wireless Transmitter

This module sends the audio signal to wireless IR headphones. The audio signal is converted to an infrared light transmitted to your headphones by line of sight.



IR Wireless Headphone (Optional)

KHP-IR72

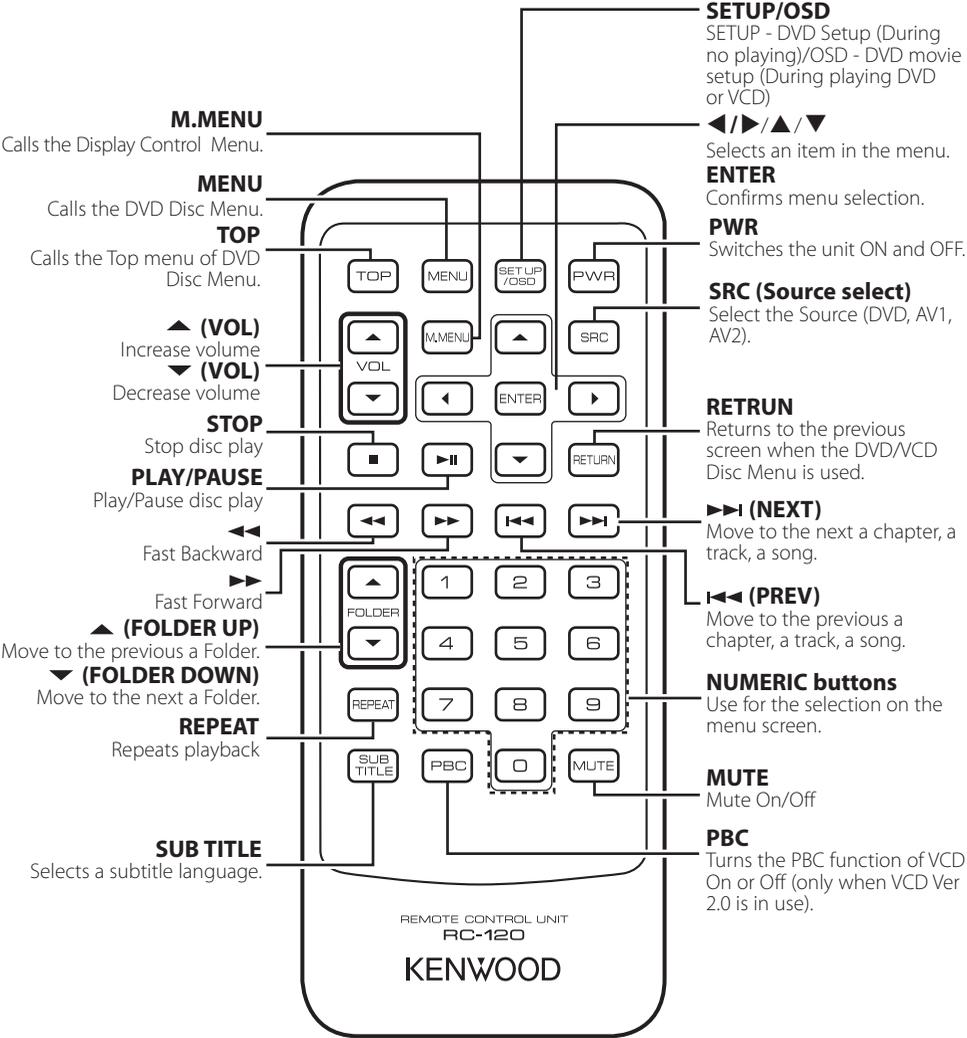


Remote Control Sensor

This allows transmitting of the remote control IR signals for controlling some functions of the unit.

Component Names and Functions

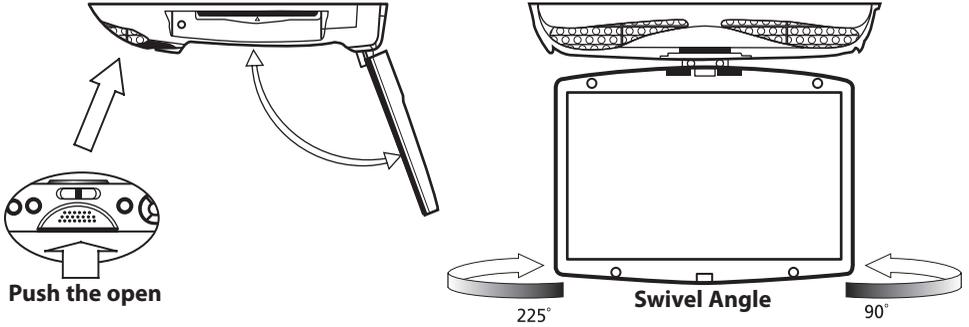
Remote Controller



Basic Operations

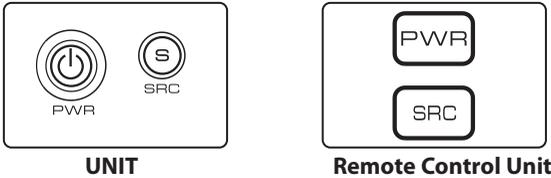
Releasing the Monitor

Push the open button (located at the front of your screen) and open the monitor to the desired level. You can also adjust the swivel angle.



PWR (Power) ON and OFF

Press the PWR (Power) button on the unit or remote control unit to turn on the unit. Press the PWR (Power) button again to turn off the unit.

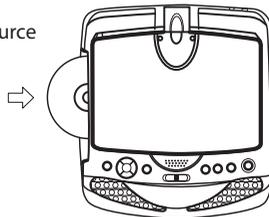


SRC (Source) select

To change the source, press the SRC (Source) button repeatedly.



When inserted a disc (label side up), the source is switched automatically, and a disc starts playing.



Basic Playback of Disc

On screen display

The on-screen Banner Display contains many playback features. To see the Banner Display, press the SETUP/OSD button while a disc is playing. Use the up ▲ / down ▼ buttons to move through the different features in the Banner Display.



Banner Display

Example:

On-Screen Display during playing DVD video

TITLE	0001/0003	Title Number
CHAPTER	0001/0012	Chapter Number
TIME	00:20:09	Time code
AUDIO	1/1	Audio language
SUBTITLE	SUBTITLE	Subtitle language
ANGLE	1/3	Angle

On-Screen Display during playing VCD

TRACK	0001/0012	Track Number
TIME	00:20:09	Time code
AUDIO	Stereo	Audio Channel

On-Screen Display during playing DivX

TRACK	0001/0012	Track Number
TIME	00:20:09	Time code
AUDIO	1/1	Audio language
SUBTITLE	SUBTITLE	Subtitle language



- The on screen display is switched off when no operation is performed for a few seconds.

Last Scene Memory

This unit memorizes last scene from the last disc that is viewed. The last scene remains in memory even if you remove the disc from the unit or switch off the unit. If you load a disc that has the scene memorized, the scene is automatically recalled. If you don't want to use the Last Scene Memory, press the ■ (STOP) button during stop.

Basic Play

1. Press the PWR (Power) button to power on.
2. Inserted a disc (label side up) for disc loading slot, the source is switched automatically, and a disc starts playing.

To start playback of DVD video, audio CD or VCD

1. Press the ►|| (PLAY) button.



When a Disc Menu appears on the screen

In case of interactive DVDs, a Disc Menu appears on the screen. Then press the ENTER button to select specific menu you want to play by using Cursor buttons.

To start playback of audio CD, DivX, MP3, WMA or JPEG files

It is not possible to play back folders and files that exceed the maximum limitations of the media. A certain amount of time is required for the player to confirm the media on which DivX/MP3/WMA/JPEG files have been recorded before playback will commence.

1. Press the up ▲ / down ▼ / left ◀ / right ▶ arrow buttons to select desired track or file, then press the ►|| (PLAY) button or the ENTER button to start playback.



- After all files of a folder have been played, playback will stop.

To stop playback

1. Press the ■ (STOP) button.

To pause playback

1. Press the ►|| (PLAY) button.



- Each press pauses and plays the disc alternately.
- During DVD, VCD playback, step operation is performed each time this button is pressed.

Skipping chapters, tracks or files

1. Press the ◀◀/▶▶ button.



- The chapter (or track) in the direction of the button pressed is skipped, and the selected chapter (or track) will be played from the beginning.
- When the ◀◀ button is pressed once during playback, the chapter (or track) being played will be played from the beginning.
- When the ▶▶ button is pressed within 3 seconds after the start of chapter (or track) playback, playback starts from the start of the preceding chapter (or track).

Searching

During playback, press the ◀◀ or ▶▶ button to select the searching speed. Each time press the ◀◀ or ▶▶ button switches the searching speed.



- Press the ►|| (PLAY) at any time to resume normal playback.
- P.B.C. on mode of VCD, the search function does not work.

Repeat play

Desired title, chapter, track or disc can be played back repeatedly.

1. Press the REPEAT button.

At the time of DVD video playback.

- 1 "TITLE REPEAT"
- 2 "CHAPTER REPEAT"
- 3 "REPEAT OFF"

At the time of Music CD/Video CD.

- 1 "TRACK REPEAT"
- 2 "REPEAT OFF"

At the time of Audio file listening & Video file/ Picture file watching.

- 1 "TRACK REPEAT"
- 2 "FOLDER REPEAT"
- 3 "REPEAT OFF"



- If you press the ▶▶ button once during Repeat Chapter or Repeat Track playback, the repeat playback cancels.
- P.B.C. on mode of VCD, the Repeat play function does not work.

Movie Disc Playback

Playback from desired title, chapter or track

A title can be divided into individual chapters (similar to tracks on a CD).

At the time of DVD video playback

1. Press the **SETUP/OSD** button.
2. Press the up ▲ / down ▼ buttons to select the **TITLE** or **CHAPTER**.
3. Press the numeric buttons, then press **ENTER** button.
To select track No.23: Press the 2, 3 and **ENTER** button.

At the time of VCD playback

1. Press the numeric buttons, then press **ENTER** button.
To select track No.23: Press the 2, 3 and **ENTER** button.



- P.B.C. on mode of VCD, the Selecting a Track function may not work.

Time Search

To start playing at any chosen time on the disc.

1. During playback, press the **SETUP/OSD** button.
2. Press the up ▲ / down ▼ buttons to select the **TIME**.
3. Press Numeric keys to input the required start time in hours, minutes and seconds.
4. Press the **ENTER** button.
Playback starts from the selected time.

Select Audio Language

If the disc was created with different language tracks, you can select to temporarily change the DVD player's Audio setting.

1. Press the **SETUP/OSD** button.
2. Press the up ▲ / down ▼ buttons to select the **AUDIO**.

3. Select the language with press left ◀ / right ▶ button.



- The language feature only works if the disc was created with multiple audio tracks.
- When you chose an audio language in this function, you only override the audio language setting in the DVD Player's main menu (in the language preferences menu within DVD SETUP) temporarily.

Select Subtitle Language

You can change the Subtitle language while you're watching a disc (but only if the disc was created with subtitles).

1. Press the **SETUP/OSD** button.
2. Press the up ▲ / down ▼ buttons to select the **SUBTITLE**.
3. Select the language with press left ◀ / right ▶ button.



- The subtitle feature only works if the disc was created with multiple subtitle tracks.
- The subtitle menu of the disc appears in some discs.
- The subtitle file of the DivX file is displayed only srt, txt, smi, ssa and sub.
- If there is no information or there is a code that can not read in the DivX file, " 1 " etc are displayed.

Select Camera angle

Some disc contains multiple angles particular scene or sequence. If the disc only has one angle, this feature won't work. When you are playing a DVD disc contains scenes recorded different camera angles, the angle indicator will blink on the monitor screen.

1. Press the **SETUP/OSD** button.
2. Press the up ▲ / down ▼ buttons to select the **ANGLE**.
3. Select the camera angle with press left ◀ / right ▶ button.

Music Disc/Photo Files Playback

Music disc Playback

Once you insert an audio CD , MP3 or WMA disc a menu appears on the screen.

- 1. Press the up ▲ / down ▼ / left ◀ / right ▶ buttons to select the track or file and then press the ENTER button.**

Playback from desired track or file

- 1. Press the numeric buttons.**

To select track No.23: Press the 2, 3 and ENTER button.

Photo files Playback (Slide show)

Once you insert an Photo disc a menu appears on the screen.

- 1. Press the up ▲ / down ▼ / left ◀ / right ▶ buttons to select the track or file and then press the ENTER button.**

Start playback to slide show function. The Slide show function can be used to switch photo images automatically from one file to the next. There are 3 Slide speed options.

DVD Setup

Basic Operation

When the SETUP/OSD button on the remote controller is pressed (During no playing), the DVD OSD will display the DVD setup as follows.



LANGUAGE	Setting
LANGUAGE	Select Language in OSD Menu, Disc Audio, Subtitle & Disc
VIDEO	Select Screen Ratio & Video Output
AUDIO	Select Dynamic Range
LOCK	Input Rating & Password
OTHER	Select Picture Time, Angle MARK, Default & Divx VOD

1. Press the SETUP/OSD button.
2. Press the up ▲ / down ▼ / left ◀ / right ▶ arrow buttons on the unit or remote controller to move the highlight cursor up/down/left/right in the menu list, and press the ENTER button to change the value/ level while the OSD is still displayed on the screen.

Exit DVD Setup mode

Press the SETUP/OSD button.

LANGUAGE



1. Use to achieve the desired settings for **AUDIO, SUBTITLE & MENU.**

Item	Setting
AUDIO	Language for DVD movie "ORIGINAL"/ "ENGLISH"/ "FRENCH"/ "GERMAN"/ "SPANISH"/ "OTHER" Instruct of "ORIGINAL". The original language of the disc.
SUBTITLE	Select for subtitle "ENGLISH"/ "FRENCH"/ "GERMAN"/ "SPANISH"/ "OTHER"
MENU	Language for DVD movie menu "ENGLISH"/ "FRENCH"/ "GERMAN"/ "SPANISH"/ "OTHER"

(Factory setting: Underlined)

2. Press the up ▲ / down ▼ / left ◀ / right ▶ arrow buttons on the unit or remote controller to move the highlight cursor up/down/left/right in the menu list, and press the ENTER button to change the value/level while the OSD is still displayed on the screen.



- **ORIGINAL:** Refers to the original language in which the disc was recorded.
- **OTHER:** To select another language, press numeric button of remote controller then ENTER button to enter the corresponding digit number according to the other language code list. (Same sentence for P17)

Other Language Code List

Language Code	Country	Language Code	Country
6566	Abkhazian	7678	Lingala
6565	Afar	7684	Lithuanian
6570	Afrikaans	7775	Macedonian
8381	Albanian	7771	Malagasy
6577	Ameharic	7783	Malay
6582	Arabic	7776	Malayalam
7289	Armenian	7784	Maltese
6583	Assamese	7773	Maori
6588	Aymara	7782	Marathi
6590	Azerbaijani	7779	Moldavian
6665	Bashkir	7778	Mongolian
6985	Basque	7865	Nauru
6678	Bengali; Bangla	7869	Nepali
6890	Bhutani	7879	Norwegian
6672	Bihari	7982	Oriva
6682	Breton	8065	Panjabi
6671	Bulgarian	8083	Pashto, Pushto
7789	Burmese	7065	Persian
6669	Byelorussian	8076	Polish
7577	Cambodian	8084	Portuguese
6765	Catalan	8185	Quechua
9072	Chinese	8277	Rhaeto-Romance
6779	Corsican	8279	Rumanian
7282	Croatian	8285	Russian
6783	Czech	8377	Samoan
6865	Danish	8365	Sanskrit
7876	Dutch	7168	Scots Gaelic
6978	English	8382	Serbian
6979	Esperanto	8372	Serbo-Croatian
6984	Estonian	8378	Shona
7079	Faroese	8368	Sindhi
7074	Fiji	8373	Singhalese
7073	Finnish	8375	Slovak
7082	French	8376	Slovenian
7089	Frisian	8379	Somali
7176	Galician	6983	Spanish
7565	Georgian	8385	Sudanese
6869	German	8387	Swahili
6976	Greek	8386	Swedish
7576	Greenlandic	8476	Tagalog
7178	Guarani	8471	Tajik
7185	Gujarati	8465	Tamil
7265	Hausa	8484	Tatar
7387	Hebrew	8469	Telugu
7273	Hindi	8472	Thai
7285	Hungarian	6679	Tibetan
7383	Icelandic	8473	Tigrinya
7378	Indonesian	8479	Tonga
7365	Interlingua	8482	Turkish
7165	Irish	8475	Turkmen
7384	Italian	8487	Twi
7465	Japanese	8576	Ukrainian
7487	Javanese	8582	Urdu
7578	Kannada	8590	Uzbek
7583	Kashmiri	8673	Vietnamese
7575	Kazakh	8679	Volapük
7589	Kirghiz	6789	Welsh
7579	Korean	8779	Wolof
7585	Kurdish	8872	Xhosa
7679	Laothian	7473	Yiddish
7665	Latin	8979	Yoruba
7686	Latvian, Lattish	9085	Zulu

DVD Setup

VIDEO



1. Use to achieve the desired settings for **SCREEN RATIO & OUTPUT**.

Item	Setting
SCREEN RATIO	Selecting " <u>16:9</u> "/"4:3 LB"/"4:3 PS"
OUTPUT	Selecting " <u>AUTO</u> "/"NTSC"/"PAL"

(Factory setting: Underlined)

2. Press the up ▲ / down ▼ / left ◀ / right ▶ arrow buttons on the unit or remote controller to move the highlight cursor up/down/left/right in the menu list, and press the ENTER button to change the value/ level while the OSD is still displayed on the screen.

SCREEN RATIO



16:9 Wide screen



4:3 PS (Pan Scan)



4:3 LB (Later Box)

AUDIO



1. Use to achieve the desired settings for **DYNAMIC RANGE**.

Item	Setting
DYNAMIC RANGE	Selecting " <u>WIDE</u> "/"NORMAL"/"DIALOG"

(Factory setting: Underlined)

2. Press the up ▲ / down ▼ / left ◀ / right ▶ arrow buttons on the unit or remote controller to move the highlight cursor up/down/left/right in the menu list, and press the ENTER button to change the value/ level while the OSD is still displayed on the screen.



Dynamic Range

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). This allows you to listen to a movie at a lower volume without losing clarity of sound.

LOCK



1. Use to achieve the desired settings for PARENTAL LEVEL & PASSWORD.

Item	Setting
PARENTAL LEVEL	Selecting " <u>LOCK</u> "(1~8)/" <u>UNLOCK</u> " for parental mode. To change the rating, you must input the 4-digit password you created. If you have not yet entered a password you are prompted to do so. Input a 4-digit password press numeric button of remote controller then ENTER button.
PASSWORD	A user can register a password with 4-digit number on the remote controller.

(Factory setting: Underlined)

2. Press the up ▲ / down ▼ / left ◀ / right ▶ arrow buttons on the unit or remote controller to move the highlight cursor up/down/left/right in the menu list, and press the ENTER button to change the value/ level while the OSD is still displayed on the screen.



- Password (Factory Default) : 0000
- The parental lock is a rating limit system for DVD movies. It works with DVD discs that have been assigned a rating. The user can decide which ratings can be played without blocking.
- Rating one (1) has the most restrictions and rating eight (8) is the least restrictive. Determining how the unit re-acts to a movie disc according to rating.

OTHER



1. Use to achieve the desired settings for PICTURE TIME, ANGEL MARK, DEFAULT, DivX(R) VOD.

Item	Setting
PICTURE TIME	Selecting " <u>SHORT</u> " (2 sec)/ " <u>MIDDLE</u> " (5 sec)/ " <u>LONG</u> " (10 sec) The Slide show function can be used to switch photo images automatically from one file to the next. There are 3 slide speed options.
ANGLE MARK	Selecting " <u>ON</u> "/" <u>OFF</u> " Some disc contains multiple angles particular scene or sequence. When you are playing a DVD disc contains scenes recorded different camera angles, you can select multi angle.
RESET	The setting of DVD setup value is returns to factory settings.
DivX(R) VOD	You can display the DivX DRM (Digital Rights Management) Registration code for your unit only. The Registration code is used for VOD (Video-On-Demand) service agent. You can purchase or rent an encrypt movie file. <div style="border: 1px solid black; padding: 5px; background-color: #f0f0f0;"> <p>You must register your device to play DivX protected videos. Registration code: xxxxxxxxx Register at http://vod.divx.com OK</p> </div>

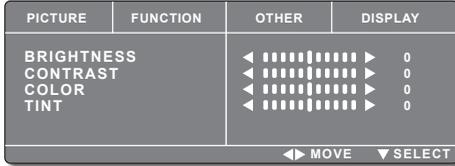
(Factory setting: Underlined)

2. Press the up ▲ / down ▼ / left ◀ / right ▶ arrow buttons on the unit or remote controller to move the highlight cursor up/down/left/right in the menu list, and press the ENTER button to change the value/ level while the OSD is still displayed on the screen.

Display Control Setup

Basic Operation

When the M (Menu) button on the Unit or the remote controller is pressed, the OSD will display the setting menu as follows.



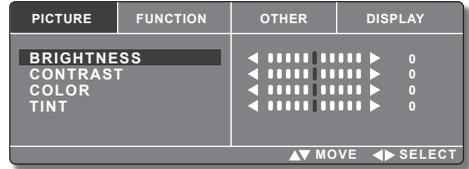
PICTURE	Adjust for Brightness, Contrast, Color, Tint
FUNCTION	Select for FM Transmission, FM Frequency, IR Audio Channel
OTHER	Select for auto-application of Reset (Auto-setting for Screen)
DISPLAY	Select for OSD Language, Screen Mode

1. Press the M (Menu) button.
2. Press the up ▲ / down ▼ / left ◀ / right ▶ arrow buttons on the unit or remote controller to move the highlight cursor up/down/left/right in the menu list, and press the ENTER button to change the value/ level while the OSD is still displayed on the screen.

Exit Display Control mode

Press the M (Menu) button.

PICTURE



1. Use to achieve the desired settings for BRIGHTNESS, CONTRAST, COLOR, TINT.

Item	Setting
BRIGHTNESS	◀ Darker screen ▶ Brighter screen
	"-50" - " <u>0</u> " - "+50"
CONTRAST	◀ Stronger contrast ▶ Less contrast
	"-50" - " <u>0</u> " - "+50"
COLOR	◀ Deeper color ▶ Paler color
	"-50" - " <u>0</u> " - "+50"
TINT	◀ Stronger red level ▶ Stronger green level
	"-50" - " <u>0</u> " - "+50"

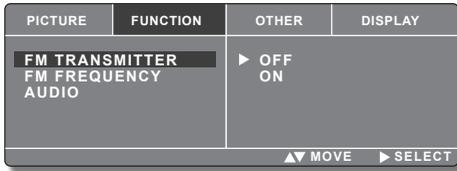
(Factory setting: Underlined)

2. Press the up ▲ / down ▼ / left ◀ / right ▶ arrow buttons on the unit or remote controller to move the highlight cursor up/down/left/right in the menu list, and press the ENTER button to change the value/ level while the OSD is still displayed on the screen.



• The "TINT" can be adjusted when NTSC video signal is input.

FUNCTION



1. Use to achieve the desired settings for **FM TRANSMITTER, FM FREQUENCY, AUDIO (IR Headphones).**

Item	Setting
FM TRANSMITTER	Select for FM transmitter "ON" or "OFF".
FM FREQUENCY	You can set to FM transmitter frequency. "88.1MHz" - "89.5MHz" (Tuning By interval of 100KHz)
AUDIO	You can set to IR Headphones transmitter frequency. "1-CH" : 2,3MHz(L)/2.8MHz(R), "2-CH" : 3.2MHz(L)/3.8MHz(R)

(Factory setting: Underlined)

2. Press the up ▲ / down ▼ / left ◀ / right ▶ arrow buttons on the unit or remote controller to move the highlight cursor up/down/left/right in the menu list, and press the ENTER button to change the value/ level while the OSD is still displayed on the screen.

OTHER



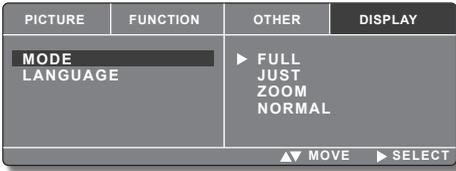
1. Use to achieve the desired settings for **RESET.**

Item	Setting
RESET	The setting of display control setup value is returns to factory settings.

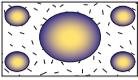
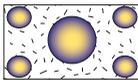
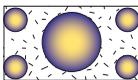
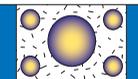
2. Press the up ▲ / down ▼ / left ◀ / right ▶ arrow buttons on the unit or remote controller to move the highlight cursor up/down/left/right in the menu list, and press the ENTER button to change the value/ level while the OSD is still displayed on the screen.

Display Control Setup

DISPLAY



1. Use to achieve the desired settings for **MODE**, **LANGUAGE**.

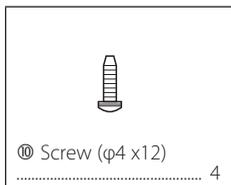
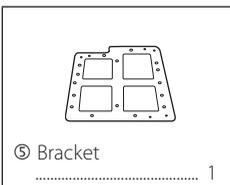
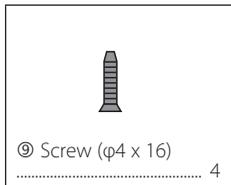
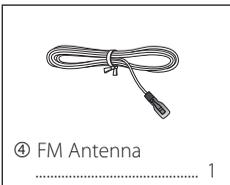
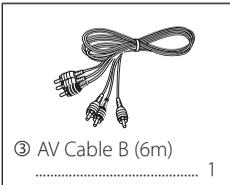
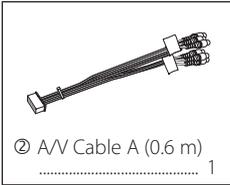
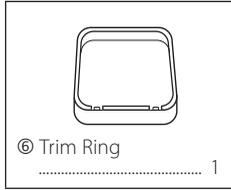
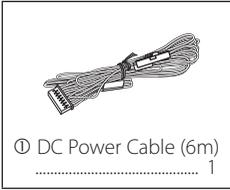
Item	Setting	
MODE	Select for Screen Mode	
	"FULL" Full picture mode.	
	"JUST" Justify picture mode.	
	"ZOOM" Zoom picture mode.	
"NORMAL" Normal picture mode.		
LANGUAGE	Change MENU OSD Language "ENGLISH"/ "FRENCH"/ "GERMAN"/ "SPANISH"	

(Factory setting: Underlined)

- Press the up ▲ / down ▼ / left ◀ / right ▶ arrow buttons on the unit or remote controller to move the highlight cursor up/down/left/right in the menu list, and press the ENTER button to change the value/ level while the OSD is still displayed on the screen.

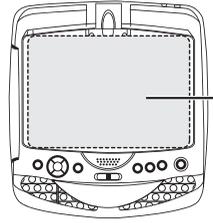
Accessories/Installation

Accessories



Installation

1. Unpack and check the contents.

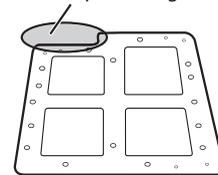


Unit

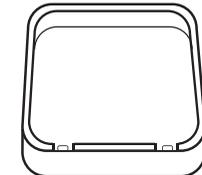
▲CAUTION

Do not push the display area strongly during the installation or operation.

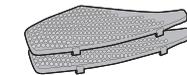
This shape is designed for the wire outlet.



Bracket ⑤



Trim Ring ⑥



Lamp Cover ⑦



⑧ For use for Unit (φ4 x 45)



⑨ For use for Bracket (φ4 x 16)



⑩ For use for Unit (φ4 x 12)

Screw

(Professional installation recommended)

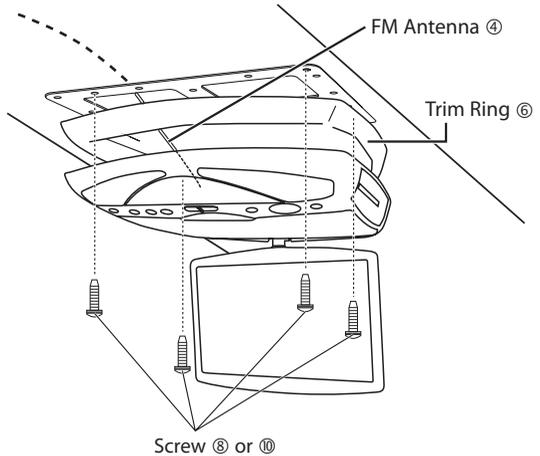
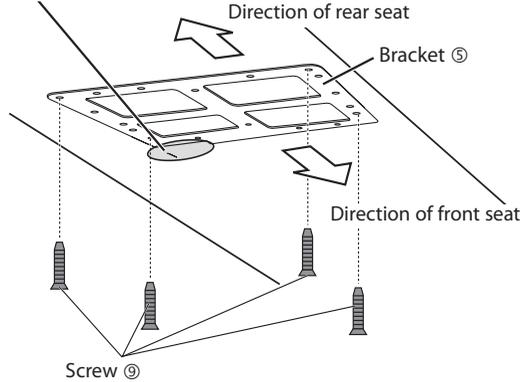
2. Attach the metal support bracket ⑤ to the ceiling support beam (s) of your vehicle by using the supplied screws ⑨. Take extra care not to penetrate the roof of your vehicle.

3. Connect the wiring harness (according to the diagram under "Connecting Wires to Terminals" to the wires located in the dome light of your vehicle.

4. Before installing the unit to the ceiling, it is recommended to setup FM antenna ④ as shown on the figure. FM antenna ④ is helpful for increasing the FM signal and lowering noise in audio. Please stretch antenna cable towards the on-vehicle radio antenna.

5. Open the monitor screen down, and you can flip the monitor screen down, and you can find the screw holes inside dome Lamp covers area and on the unit. Screw the unit to the support bracket by using the supplied screws ⑧ or ⑩. After installation, Please make sure to place the lamp covers ⑦ attach the unit.

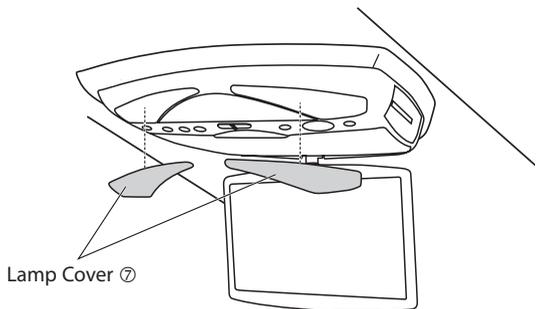
Please locate this part of the bracket ⑤ in this direction.



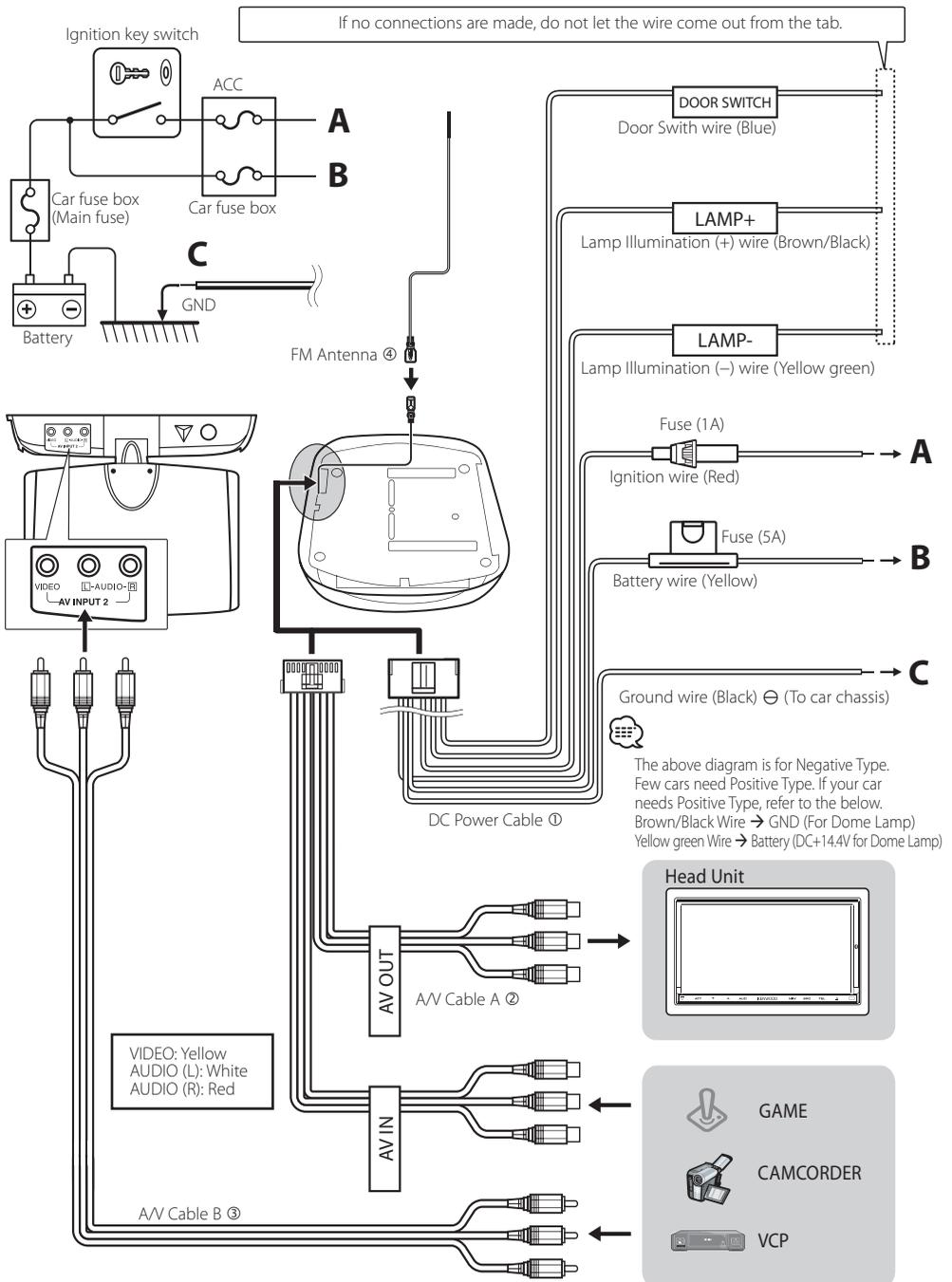
Regarding to Trim Ring, a user can choose either of the below installation methods.

Case A. Installation with Bracket only. ⑩

Case B. Installation with Bracket and Trim Ring. ⑧
(Using Trim Ring recommended).



Connecting Wires to Terminals



Troubleshooting

Trouble	Corrective Action
No Power	Check that DC power cable is connected properly.
No Picture	1. Make sure that the equipment is connected properly. 2. Check that the connected monitor is turned on.
Stopped picture	1. Check that the video cable is connected. 2. Check that the monitor is turned on.
The playback picture is poor.	Clean the disc.
No color	Adjust the video system by changing video output mode (AUTO, PAL, NTSC) → Refer to page 18 (Display Setting)
The remote control doesn't work properly.	Remove any obstacles between the remote controller and remote control sensor of the unit. Operate the remote control at a closer distance to the unit.
'ERROR-DISC' is displayed on the screen.	1. Turn the power off, then turn it on. 2. Turn the power off, disconnect the power plug, then reconnect it.
'ERROR-DISC Check Regional Code' is displayed on the screen.	Check in which region the DVD Disc can be played. The DVD Disc is not available if the region code of the DVD Disc is not in conformity to the DVD unit. → Refer to Page 4 (Region codes in the world)
No function with the remote control	Check the battery and make sure that the battery is fresh & new, or have enough battery life.
No function with all buttons on the unit & remote control	Press the Reset button. → Refer to Page 9 (Component Names and Functions)

Check Point

When a disc is brought from a cold environment to a hot one, there may be steam on the face of the disc, or water will appear on the pickup lens. It will affect the play.

1. Remove the disc from the DVD player.
2. Turn on the power and leave it on for an hour to vaporize the condensation.

Changing the Lamp Bulbs

1. Use a screwdriver to pry the lamp cover off.
2. Remove the burned-out bulb.
3. Replace the bulb with a 3-Watt(12V) Type T-8 Wedge bulb.(Ø8.5X29mm(length))
4. Snap the lamp cover back on.

Specifications

Operating Voltage	14.4 V (11.0 – 16V allowable)
Maximum Current Consumption	1.2A
Screen Format	16:9 Wide, 4:3
Resolution	800 (W) x 480 (H) x RGB 1,152,000 pixels ※ Pixel defect rate of TFT LCD panel is below 0.01%
Brightness	350 cd/m ²
Video System	NTSC / PAL
A/V Input	Audio : 2.0 Vrms (10KΩ), Video : 1.0 Vp-p (75Ω)
A/V Output	Audio : 1.2 Vrms (10KΩ), Video : 1.0 Vp-p (75Ω)
Screen Size	10.2 Inch (Diagonal)
IR Transmitter	1-CH (Lch:2.3MHz / Rch:2.8MHz) 2-CH (Lch:3.2MHz / Rch:3.8MHz)
FM Transmitter	88.1 MHz ~ 89.5 MHz (100KHz STEP)
Dimensions	285mm(W) x 310mm(D) x 54mm(H) 11.2" (W) X 12.2" (D) X 9.1" (H)
Weight	2.3 Kg

Specifications subject to change without notice.

Although the effective pixels for the liquid crystal panel is given as 99.99% or more, 0.01% of the pixels may not light or may light incorrectly.

This Product is not installed by the manufacturer of a vehicle on the production line, nor by the professional importer of a vehicle into an EU Member State.

Information on Disposal of Old Electrical and Electronic Equipment and Batteries (applicable for EU countries that have adopted separate waste collection systems)



Products and batteries with the symbol (crossed-out wheeled bin) cannot be disposed as household waste. Old electrical and electronic equipment and batteries should be recycled at a facility capable of handling these items and their waste byproducts.



Pb

Contact your local authority for details in locating a recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

Notice: The sign "Pb" below the symbol for batteries indicates that this battery contains lead.



Declaration of Conformity with regard to the EMC Directive 2004/108/EC

Manufacturer:

Kenwood Corporation
2967-3 Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525
Japan

EU Representative's:

Kenwood Electronics Europe BV
Amsterdamseweg 37, 1422 AC UITHOORN, The
Netherlands

For Turkey

Bu ürün 26891 sayılı Resmî Gazete'de yayımlanan Elektrikli ve Elektronik Eşyalarda Bazı Zararlı Maddelerin Kullanımının Sınırlanmasına Dair Yönetmeliğe uygun olarak üretilmiştir.

This product complies with Directive, Number 26891 regarding "REGULATION ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT".

The marking of products using lasers

**CLASS 1
LASER PRODUCT**

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

ABOUT DIVX VIDEO:

DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND:

This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in <DivX (R) VOD> (page 19). Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.

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