KENWOOD

KDV-5234 INSTRUCTION MANUAL

Kenwood Corporation



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Basic Operations

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Select Mode

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TEL Mute Control

Audio Control

Display Control

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Help?

DVD language codes Accessories Connections Installation

How to read this manual

This manual uses illustrations to explain its operations. **Tuning mode** The displays and panels shown in this manual Sets a tuning mode for selecting stations. are examples used to provide clear explanations 1 Set to the menu mode of the operations. For this reason, they may be different from the actual displays or panels used, or some display patterns may be different. MENU Moving the control knob 2 Select a tuning mode The following figure shows how to use the knob. Display Setting Up Down AUT01 Receives stations with the best reception. (Auto 1) Receives the stations memorized. (Auto 2) AUT02 Switches the receiving frequencies up and MANUAL down at a step at a time. (Manual) Left Right 3 Display the CD player menu How to turn the volume is shown in the following figure. KENWOOD Exit 4 Exit the menu mode ▼ : Continues to the next line. • : Ends here.

The above operation example with the mark differs from the actual operation.

Remote controller operation

Some functions can only be used from a remote controller. In this case, the operation using the remote controller is described, showing a mark.

The characters below indicate a remote controller mode switch setting.

Display indication

Perform the operation shown on the left until this screen appears.

Press 1 second or more

Press the button, denoted by 네. for 1 second or more (2-3 seconds). Indicates to press and hold down the button

until operation starts or the screen changes. The left example indicates to press the button for 1 second.

Press it approximately for the seconds shown in the clock.

Change in the screen

With each operation, the screen changes in the order shown here.

Other marks



Important precautions are described to prevent injuries etc.



Special instructions, supplementary explanations, limitations, and reference pages are described.



General precautions and reference pages are shown on the item.

Selecting a screen item

Select and choose an item on the screen. Select the item enclosed with on the screen by pressing the cursor key on the remote controller, and press the ENTER key.

Short Press Press the button, denoted by "DTS" and "DTS 2.0 + Digital Out" are trademarks of Digital Theater Systems, Inc.

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

EXE is a trademark of DVD Format/Logo Licensing Corporation registered in the U.S., Japan and other countries.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Safety precautions

To prevent injury or fire, take the following precautions:

- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- Mounting and wiring this product requires skills and experience. For safety's sake, leave the mounting and wiring work to professionals.

Attach the panel while you are on the vehicle

The panel lock arm appears when the panel is removed. Therefore, the panel must be attached while the electrical system of the car is operating.

ACAUTION

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

- Make sure to ground the unit to a negative 12V DC power supply.
- 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 place the faceplate (and the faceplate case) in areas exposed to direct sunlight, excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- To prevent deterioration, do not touch the terminals of the unit or faceplate with your fingers.
- Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.
- When replacing a fuse, only use a new fuse with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- Do not apply excessive force to the open faceplate or place objects on it. Doing so will cause damage or breakdown.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.

About CD players/disc changers connected to this unit

Kenwood disc changers/CD players released in 1998 or later can be connected to this unit. Refer to the catalog or consult your Kenwood dealer

for connectable models of disc changers/CD players. Note that any Kenwood disc changers/CD players released in 1997 or earlier and disc changers made by other makers cannot be connected to this unit. Connecting unsupported disc changers/CD players to this unit may result in damage.

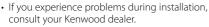
Set the "O-N" Switch to the "N" position for the applicable Kenwood disc changers/CD players. The functions you can use and the information that can be displayed may differ depending on the models being connected.

\mathbb{A}

• You can damage both your unit and the CD changer if you connect them incorrectly.

Lens Fogging

When you turn on the car heater in cold weather, dew or condensation may form on the lens in the unit. Called lens fogging, this condensation on the lens may not allow DISC to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still does not operate normally after a while, consult your Kenwood dealer.



Notes

- When you purchase optional accessories, check with your Kenwood dealer to make sure that they work with your model and in your area.
- If the unit fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed.
- Press the reset button if the disc auto changer fails to operate correctly. Normal operation should be restored.



Reset button

- We recommend the use of <Setting security code> (page 52) to prevent theft.
- The characters which can be displayed by this unit are A-Z 0-9 @ "'` % & * + - = , . / \ < > []():; ^ - { } |~.
- The RDS feature won't work where the service is not supported by any broadcasting station.
- 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 display on the actual equipment, and some of the illustrations on the display may be inapplicable.

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 it again with a clean soft dry cloth.



 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 erases characters.

Cleaning the Faceplate Terminals

If the terminals on the unit or faceplate get dirty, wipe them with a clean soft dry cloth.

Before using this unit for the first time

This unit is initially set on the Demonstration mode. When using this unit for the first time, cancel the <Demonstration setup> (page 53).

About DAB Tuner control

Refer to A group on the Instruction manual of DAB Tuner KTC-9090DAB (optional accessory) for the control method of DAB Tuner function. However, the following control methods of the function for this unit may be different from the descriptions given in the Instruction manual; therefore, refer to the following supplemental instruction.

<Auto Ensemble Memory Entry>

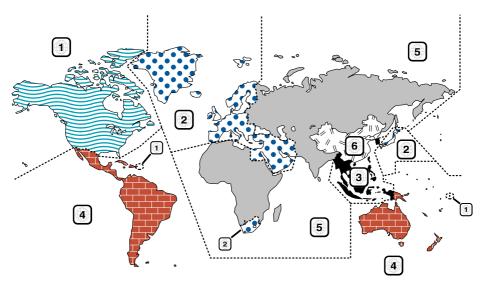
- 1. Select the preset band for Auto Ensemble Memory Entry.
- Press the [AME] button for at least 2 seconds. Open Auto Ensemble Memory Entry. After storing in the memory is completed, the number of the pre-set buttons and the ensemble label are displayed.

<Searching by programme type and language>

At the operation to press [DISP] button, use [T.I] button instead.

Region codes in the world

The DVD players are given a region code according to the country or area it is marketed, as shown in the following map.



DVD disc marks

Symbol	Description
ALL	Indicates a region number. The discs with this mark can be played with any DVD player.
8))	Indicates the number of audio languages recorded. Up to 8 languages can be recorded in a movie. You can select a favorite language.
32	Indicates the number of subtitled languages recorded. Up to 32 languages can be recorded.
00 91	If a DVD disc has scenes shot from multiple angles, you can select a favorite angle.
16:9 LB	Indicates the type of screen for the image. The left mark indicates that a wide image picture (16:9) is displayed on a standard TV set screen (4:3) with a black band at both the top and bottom of the screen (letter box).

Operation regulatory marks

With this DVD, some functions of this unit such as the play function may be restricted depending on the location where the DVD is playing. In this case, the following marks will appear on the screen. For more information, refer to the disc manual.



Discs with limited period of use

Do not leave discs with a limited period of use in this unit. If you load an already expired disc, you may not be able to remove it from this unit.

List of playable discs

Disc	Standard	Support	Remark
types			
DVD	DVD Video	0	
	DVD Audio	×	
	DVD-R	0	MP3/WMA/JPEG/MPEG
			Playback
	DVD-RW	0	VR mode/Multi-border/
	515 111		Multisession/CPRM not
	DVD+R	0	supported
			(Playback depends on
	DVD+RW	0	authoring conditions)
	DIDTIN	Ŭ	Compatible with 8-cm discs
	DVD-R DL (Double layer)		uiscs
	DVD+R DL (Double layer)	× ×	
	DVD+R DL (Double layer) DVD-RAM		
()	Music CD	× 0	CD-TEXT/8-cm discs
CD	Music CD	0	supported.
	CD-ROM	0	MP3/WMA/JPEG playback
	CD-R	0	Multisession supported
	CD-RW	0	Packet write not supported.
	DTS-CD	0	<u></u>
	Video CD (VCD)	0	
	Super video CD	×	
	Photo CD	×	
	CD-EXTRA	\triangle	Only music CD session can
			be played.
	HDCD	\bigtriangleup	Sound quality of normal
			CD music
	CCCD	X	
Others	Dualdisc	×	
	Super audio CD	\triangle	Only CD layer can be
			played.

O : Playback is possible.

 Δ : Playback is partly possible.

× : Playback is impossible.

Use of "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.) 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 (applicable for EU countries that have adopted separate waste collection systems)



Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

Old electrical and electronic equipment should be recycled at a facility capable

should be recycled at a facility capable of handling these items and their waste byproducts. 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.

The marking of products using lasers (Except for some areas)

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.

Handling media

Handling discs

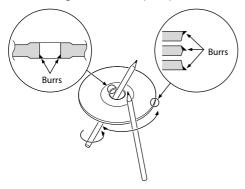
• Do not touch the recording surface of the disc.



- CD-R/RW, DVD-R/RW, and DVD+R/RW discs are easier to be damaged than a ordinary music CD. Use a CD-R/RW, DVD-R/RW, or DVD+R/RW disc after reading the cautions on the package.
- Do not stick a tape, sticker, etc., on the disc.
 Also, do not use a disc with those materials pasted on it.

When using a new disc

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

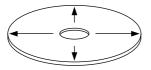


Disc shaped accessory

Do not insert a disc shape accessory into the unit.

Disc cleaning

Wipe from the center of the disc to outward.



Removing discs

When removing discs from this unit pull them out horizontally.

Discs that can not be used

· Discs that are not round cannot be used.



- Discs with coloring on the recording surface or that are dirty cannot be used.
- This unit can only play the CDs with one of

Discs without the label may not be played on the unit.

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

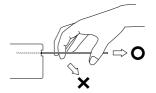
Disc storage

- Do not leave discs place them in direct sunlight (On the seat or dashboard etc.) and where the temperature is high.
- Put discs in their cases and store them in such a storage as disc cabinet.

How to eject a disc

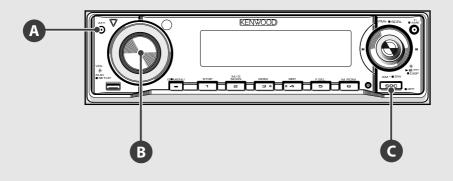
When ejecting a disc from this unit, pull it out horizontally.

If pulled out with a strong downward force, the recording surface of the disc may be scratched.



Handling media





Turns power ON/OFF

Press the button to turn on the power. When the button is pressed and held down for 1 second or more, the power is turned off.



A

C

Turns down the volume quickly

Press the button to turn down the volume (Attenuator).

Press the button again to restore the previous volume.



• While the attenuator is activated, the **ATT** indicator blinks.

Canceling demonstration mode

The demonstration mode should be canceled before use. For further information, refer to <Demonstration setup> (page 53).

Changes a source

(

A playable source is selected in the following order each time the button is pressed.

TUNER Receives FM/AM broadcast. (page 36) $\mathbf{\nabla}$ DVD Plays back the disc (DVD/VCD/CD etc) inserted. (page 20/34) $\mathbf{\nabla}$ Plays back the disc inserted in an external player, such as a CD changer (optional accessory). (page CD CH/MD CH 30) Outputs a sound signal input to the internal AUX terminal. ALIX T Outputs a sound signal input to the external AUX terminal (optional accessory). AUX EXT Although nothing is played back, the clock etc are displayed. STANDBY



- If no CD/MD changer is connected, the changer source is not selected.
- When a disc is inserted, the disc is played.
- You can play audio files, video files and picture files with DVD source. For details of these media types, formatting or writing methods, refer to <Help? Play file> (page 62).
- The indication of "AUX" and the indication of "AUX EXT" using KCA-S220A can be changed by means of <AUX name select> (page 54).

B

Adjusts sound quality and others

Push the knob to select the feature to be adjusted, and turn the knob clockwise/counterclockwise to adjust the feature.

Features are selected in the following order.

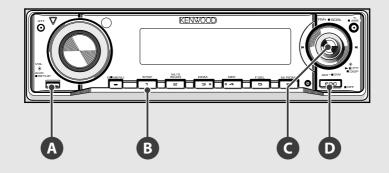
BAS L	Adjusts the bass volume. (Adjustable range : $-8 - +8$)
MID L	Adjusts the middle volume. (Adjustable range : -8 - +8)
TRE L	Adjusts the treble volume. (Adjustable range : $-8 - +8$)
BAL	Adjusts the volume balance between the left and the right. (Adjustable range : Left 15 – Right 15)
FAD	Adjusts the volume balance between the front and the rear.
	(Adjustable range : Rear 15 – Front 15)

Normal display



- The features displayed for sound quality adjustment may differ depending on the settings. Detailed setup is also possible. For further information, refer to <Detailed audio control> (page 42).
- You can easily adjust the sound quality to suit the type of music you are playing. For further information, refer to <System Q> (page 45).
- Pressing A button, B button, or any button other than O will immediately return to normal display.

Watching DVD/VCD (video CD)/Video (MPEG) files



Playing a DVD/VCD/Video file

Press \longrightarrow button O to open the operation panel. When you load a disc into the disc loading slot, the disc starts playing. If a menu appears, move the cursor on a feature using the cursor key O, and select it by pressing the ENTER key O.

Remove a disc



Press [▲] (Eject) button.

• Insert the disc horizontally.

- When a disc is inserted, the \fbox{IN} indicator lamp turns on.
- When a disc is already loaded in this unit, you can play it by switching to "DVD" with the **SRC** button **0**.
- In addition to the DVD videos available on the market, you can view video (MPEG) files recorded on DVDs. For further
 information on the types of video files that can be played, disc formats etc, refer to <Video files> (page 64).
- For other playback methods, refer to <Watching DVD/VCD/Video files> (page 20).
- The position of the remote controller switch must be changed according to the source used. For further information, refer to <Remote Controller mode switch> (page 58).

...

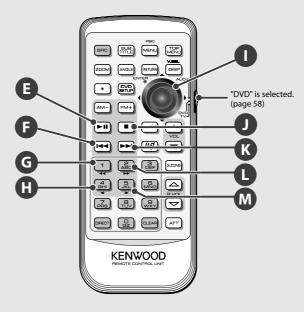
(;;;;)

Select a chapter/scene/track.

Pressing 🖂 key 🕒 to play back the previous chapter/scene/track.

Pressing E key S to play the next chapter/scene/track.

• The same operation is possible by sliding control knob 🕑 to the left or right.



G O Stop play

Press key to stop playing. Press we be to resume playing from the position where play was previously interrupted.

\square

- Press key twice to start playback of a DVD from the beginning when it is played next.
- Pressing $\$ button $\$ can also stop playing.
- Pressing control knob
 can also resume playing.

Ø

Play/Pause

Press 폐 key 🖨 once to pause. Press again to resume playing.

• The same operation is possible by pressing control knob **©**.

G-O-

Fast scan forward/backward

Press key (c) for fast backward scanning Press key (c) for fast forward scanning Each time key (c) key (c) is pressed, the forward/backward scan speed changes in 3 steps.

Slow play

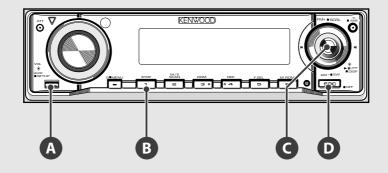
Press 🗟 key 🕲 for slow forward play During DVD playback, press 🖾 key 🖨 for slow backward play.

Each time B key O/A key O is pressed, the slow play speed changes in 3 steps.



- During driving, the image from the DVD/VCD/video files will not be displayed for safety reasons. The image is displayed after the vehicle stops and the parking brake is applied.
- When on-screen display is shown on the monitor, use the cursor key **1** operating menus. If you want to perform other operations, turn off the on-screen display.

Listening to CDs and audio files



Playing CD/audio files



Press button (a) to open the operation panel. When you load a disc into the disc loading slot, it starts playing.

Remove a disc



Press [▲] (Eject) button. The disc is ejected.

- Insert the disc horizontally.
- When a disc is inserted, the **IN** indicator lamp turns on.
- If a disc is already loaded in this unit, you can play it by switching to "DVD" with the **SRC** button **()**.
- Apart from normal CDs, you can also play CD-Rs (etc.) with audio files.
- For further information on the types, formats, and writing methods of playable audio files, refer to <Audio files> (page 62).
- For further information on playing methods, refer to <Listening to Music Discs & Audio Files> (page 30).

Fast scan forward/backward

Push control knob • to the right and hold it for fast scanning forward through the track. Push control knob • to the left and hold it for fast scanning backward through the track.

B-G Stop play

Press <u>button</u> button **b** to stop playing. Press control knob **b** to resume playing from the previous interrupted position.

\square

• Press **1** button **3** twice to start the disc from the beginning when it is played next.

Select a track to play

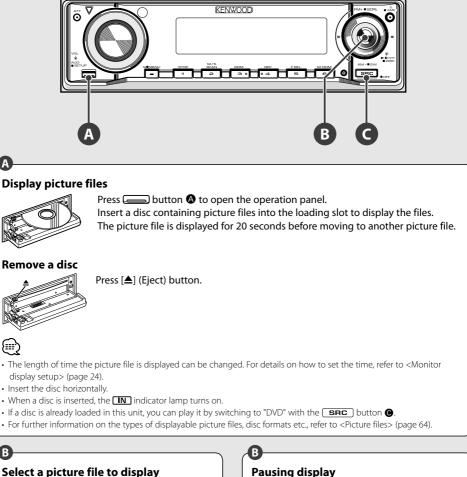
Move control knob **(c)** to the right to play the next track.

Move control knob **O** to the left to return to the start of the current track or play the previous track.

Play/Pause

Press control knob **()** once to pause. Press again to resume playing.

Viewing picture (JPEG) files



Move control knob **B** to the left to display the previous picture file. Move control knob **B** to the right to display

the next picture file.

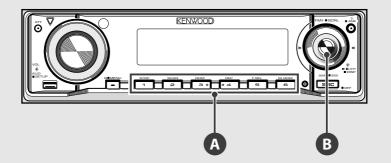
Pausing display

Pressing control knob **B** once freezes the display. When it is pressed again, the picture file starts changing again, the picture file starts changing again.

{;;;;)

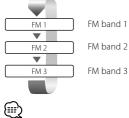
• During driving, the image from the picture files will not be displayed for safety. The image is displayed after the vehicle stops and the parking brake is applied.

Listening to radio



Changing the radio band

Move control knob **B** up to change the radio bands as follows:



FM band 2

Move control knob **B** downwards to change the radio band to AM.

 The ST indicator turns on during stereo reception. • For various other tuning methods, refer to <Listening to Radio> (page 36).

Selecting a radio station

Move control knob **B** left or right to automatically search for the best reception of a radio station.



B

R

• Depending on the tuning mode, you can change the frequency step by step, or receive each memorized radio station sequentially. For further information, refer to <Tuning mode> (page 37).

Receive a preset radio station

Press a button to select the station memorized.



А

• To use the preset tuning function with (A), you need to preset a radio station for each button in advance. For detail on how to memorize stations, refer to <Auto memory> (page 36) or <Manual memory> (page 36).

Watching DVD/VCD/Video files

You can play DVD/VCD/Video files using various functions.

- For the basic method of how to watch DVD/VCD/Video files, refer to <Watching DVD/VCD (video CD)/Video (MPEG) files> (page 14).
- Set the remote controller mode switch to "DVD" mode before starting operation, refer to <Remote Controller mode switch> (page 58).

Frame-by-frame playback

Plays back by moving frame by frame.

1 Pause playback

.



2 Play back frame by frame



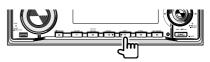


Move control knob to the right to move forward frame by frame. Move control knob to the left to move backward frame by frame.

• When playing back a video file, playing frame-by-frame backward is disabled.

Repeat play

Repeats the chapter or track being played.



While playing DVDs

Display	Status
"TITL REP"	Title repeat ON
"CHAP REP"	Chapter repeat ON
"REP OFF"	Repeat play OFF

While playing VCDs

Display	Status
"TRAC REP"	Track repeat ON
"REP OFF"	Repeat play OFF

While playing video files

Display	Status
"FILE REP"	File repeat ON
"FOLD REP"	Folder repeat ON
"REP OFF"	Repeat play OFF

\square

• The VCD repeat play function is enabled when the PBC is set to OFF.

For further information on PBC setting, refer to <PBC setup> (page 23).

Changing audio channel (Only for VCD)



Sets up the audio channel.

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\sim

The setting changes as follows each time the key is pressed.

Display	Setting
"[["	Only left audio channel is output.
"RR"	Only right audio channel is output.
"ST"	Stereo sound is output.

The audio channel can also be changed by pressing
 Image: On the main unit.

DVD

(Only for DVD)

Changes the sound track language.

Changing sound track language

📼 🖽 🖉 🖬

The language changes each time the key is pressed.



 On some discs you cannot change the language using this button. In this case, change it from the DVD menu or the DVD setup.

Changing subtitle language (Only for DVD)

Changes the subtitle language.



The language changes each time the key is pressed.



 On some discs you cannot change the subtitle language using this button. In this case, change it from the DVD menu or the DVD setup.

Changing viewing angle (Only for DVD)

Selects a viewing angle.

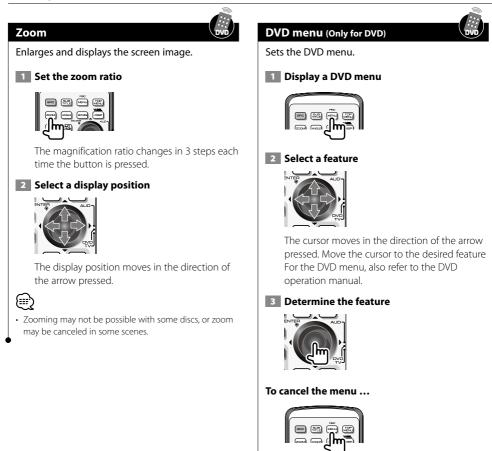
When the angle mark 🔯 ...



The angle changes each time the key is pressed.



• On some discs you cannot change the angle using this button. In this case, change it from the DVD menu or the DVD setup.



To return to the first menu feature ...





• Switching to the first menu feature with K may not be possible with some discs.

PBC setup (Only for VCD)



Sets up PBC (Play Back Control).

Each time the key is pressed, the PBC function turns ON/OFF.

DVD setup

Sets up display (etc.)-related functions.

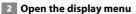
- For the basic method of how to watch DVD/VCD/Video files, refer to <Watching DVD/VCD (video CD)/Video (MPEG) files> (page 14).
- Set the remote controller mode switch to "DVD" mode before starting operation, refer to <Remote Controller mode switch> (page 58).
- Perform this setting without a disc being loaded in this unit.

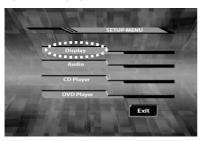
Monitor display setup

Specifies the information etc to be displayed on the monitor.

1 Set to Setup mode









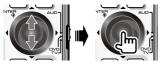


3 Select features to set





Select additional features for JPEG setup.



4 Set up the features



Status Information

Turns the status and icon display ON/OFF.

Display	Setting
"0N"*	Displayed
"OFF"	Not displayed

Background

Selects one of 2 types of wallpapers.

Display	Setting
"Type1"*	Туре 1
"Type2"	Type 2

Audio Information

Turns text information display ON/OFF.

Display	Setting
"ON"*	Displayed
"OFF"	Not displayed

JPEG SETUP MENU

Display Time

Specifies the length of time for which JPEG images are displayed.

Display	Setting
"Short"	Displayed for 10 seconds
"Middle"*	Displayed for 20 seconds
"Long"	Displayed for 30 seconds

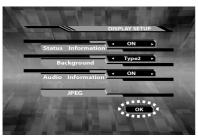
Display Effect

Turns visual effects ON/OFF.

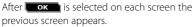
Display	Setting
"ON"*	Visual effects are added.
"OFF"	Visual effects are not added.

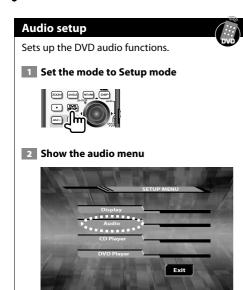
* Indicates default configuration status after purchase.

5 Exit the setup











3 Set up the features



Dynamic Range

Specifies the audio dynamic range when a title supporting Dolby digital is playing.

Display	Setting
"Wide"*	Sets to wide range
"Normal"	:
"Midnight"	Sets to narrow range

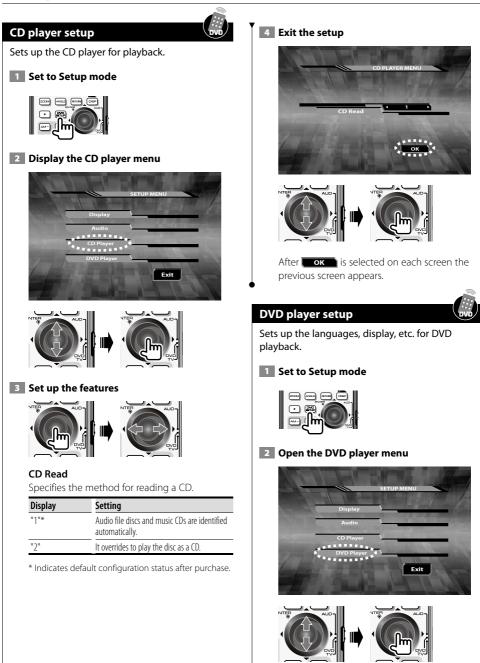
* Indicates default configuration status after purchase.

4 Exit the setup





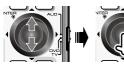
After **Control** is selected on each screen the previous screen appears.







Select additional features for language setup



4 Set up the features





Language

Sets up the subtitles displayed, audio, etc. for DVD playback.

For further information on the setting method, refer to <Language setup> (page 28).

Parental

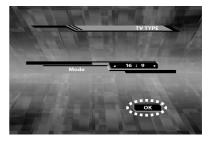
Sets up a parental level. For the setup method, refer to <Parental level setup/change> (page 29).

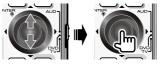
TV Type

Sets the picture aspect ratio 16:9 according to the TV type.

Display	Setting
16:9	A 16:9 monitor displays a 16:9 picture.
Letter Box	A 4:3 monitor displays the picture in letter box style (A black band appears at the top and bottom of the screen).
Pan Scan	A 4:3 monitor displays the picture in Pan Scan style (The left and right edges of the picture will be cut off).

5 Exit the setup

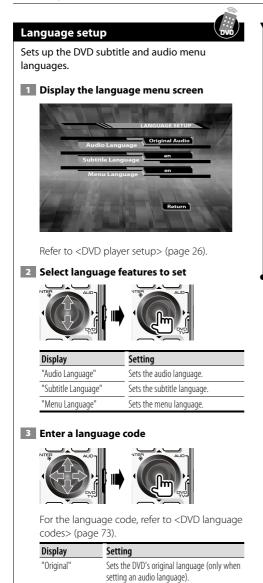




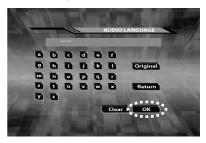
After **Cox** is selected on each screen the previous screen appears.

"Return"

"Clear"



4 Exit the setup





After **OK** and **Return** are selected on each screen the previous screen appears.

Cancels the setup and returns to the previous

screen.

Clears the code entered.

Parental level setup/change



Changes the parental level and password for discs and scenes.

1 Display the Parental screen



Refer to <DVD player setup> (page 26). When setting it for the second time and after, the message "Input Code No." will be displayed.

2 Enter a 4-digit password, and select





3 Select features to set





Level

Set the parental level.



Display	Setting
"OFF"	Parental level is not set.
"1"	Parental level High
:	:
"8"	Parental level Low

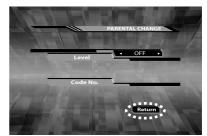
Code No.

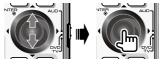
This needs to be entered when changing the password for the parental level.

Enter a 4-digit password, and select **Core**.



4 Exit the setup





After **OK** and **Return** are selected on each screen the previous screen appears.



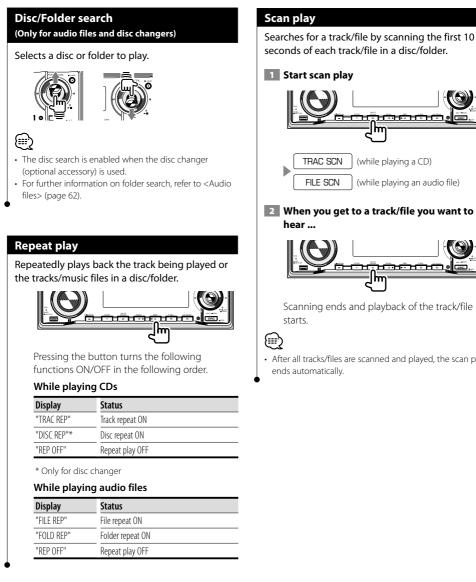
- Resetting this unit will clear, the parental level and password.
- Some discs may require you to enter a password before a scene appears that has a parental level higher than specified. In this case, the playback resumes when you enter the password.
- If the disc being played has no parental level, playback is not restricted.

Listening to Music Discs & Audio Files

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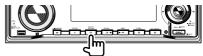
You can play CDs and audio files using various functions of this unit and the optional disc changer.

For the basic operation of how to listen to CDs and audio files, refer to <Listening to CDs and audio files> (page 16).



(while playing a CD) (while playing an audio file)

2 When you get to a track/file you want to

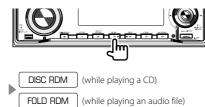


Scanning ends and playback of the track/file

 After all tracks/files are scanned and played, the scan play ends automatically.

Random play

Performs random playback of the tracks/files in a CD/folder.



Each time the button is pressed, the random play mode is alternately turned ON/OFF.

- ▣
- Move control knob to the right to randomly select the next track/file.

Magazine random play

(Only for disc changer)

Randomly plays the tracks in the discs inside the disc changer.



MGZN RDM

Each time the button is pressed, the magazine random play mode is alternately turned ON/ OFF.

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 Move control knob to the right to randomly select the next track/file.

Title/Text scroll

Scrolls titles/text.





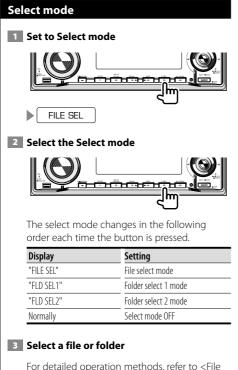
- · The following title/text can be scrolled.
 - Disc titles/Track titles
 - Song titles/Album titles/Folder names/File names
- Titles/text displayed on the monitor will not scroll with this operation.
- If "DISP" is set to "OFF" in the <Menu setup> (page 50), the display may be turned off during scrolling.

Select Mode

You can select a desired audio file or video file/picture by specifying a file number or folder name. Unlike the disc search and folder search, the file to be played will not change until the file/the folder is confirmed.



• In select mode, audio files, video files, and picture files can only be operated during playback.



For detailed operation methods, refer to <File select> (page 32), <Folder select 1> (page 33), and <Folder select 2> (page 33).



- During <Scan play> (page 34) or <Random play> (page 35), you cannot select the file select mode.
- For details on how to use the select mode, refer to <Audio files> (page 62).
- Titles can be scrolled even in the select mode. For further information, refer to <Title/Text scroll> (page 31).

File select

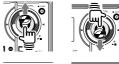
Selects a file from a folder being played according to a specified file number.

1 Set to the file select mode

The name of the first file in the folder is displayed.

For details on how to select the mode, refer to <Select mode> (page 32).

2 Enter a file number





Control knob operation	Increment/decrement file number
Up	+10
Down	-10
Right	+1
Left	-1

The name of the file whose file number you entered is displayed.

3 Play the file displayed



Folder select 1

Searches for a folder in the order of the media directory. This method is useful if audio files are sorted in folders by category and artist.

1 Set to the folder select 1 mode

For details on how to select the mode, refer to <Select mode> (page 32).

2 Select a folder

To select a folder in the same directory ...





Each time you move the knob to the left moves you to the previous folders and moving the knob to the right moves moving to the following folders.

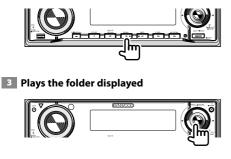
To move to another directory ...





Each time you move the knob up moves you to the next lower folder level and moving the knob down moving to the next higher folder level.

To move back to the 1st level ...



Folder select 2

Selects folders in their order.

Only folders containing playable audio files are displayed.

1 Set to the folder select 2 mode

For details on how to select the mode, refer to <Select mode> (page 32).

2 Select a folder



Each time you move the knob to the left moves you to the previous folders and moving the knob to the right moves you can move to the following folders.

To display the name of files contained in the folder shown ...





Each time the knob is moved up, the next higher level folder names are displayed. While higher level folders are displayed, "*" appears. If the knob is moved down, the next lowerlevel folder names are displayed.

Play the folders displayed





 Even when the next higher level folder name is displayed, the folder playing is the folder currently selected (not marked "*"). The folder currently selected will not change.

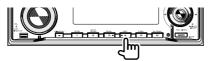
Watching picture files

You can display picture files using various functions.

• For the basic method of how to view picture files, refer to <Viewing picture (JPEG) files> (page 18).

Repeat play

Repeatedly displays the picture file being watched or the files in a folder.

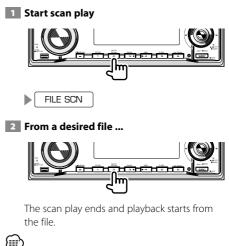


Pressing the button turns the following functions ON/OFF in the order given below.

Display	Status	
"FILE REP"	File repeat ON	
"FOLD REP"	Folder repeat ON	
"REP OFF"	Repeat play OFF	

Scan play

Displays and scans pictures in a folder for 10 seconds one at a time.



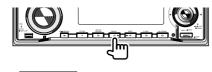


· After all files are scanned and played, the scan play ends automatically.



Random play

Performs random display of the picture files in the displayed folder.



FOLD RDM

The random play mode is turned ON/OFF alternately each time the button is pressed.

- Move control knob to the right to randomly select the next file.

Stop display

Stop displaying picture files.



Resume display

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Resumes display from the position where display was stopped.

- Press the
 key twice to display the pictures from the beginning of the disc.
- Press the **1** button of the unit can also stop display. Press control knob to resume display.

Rotate/flip a picture

Rotates or flips a picture.

Rotate to the right



Each time the button is pressed, the picture rotates 90 degrees clockwise.

Rotate to the left



Each time the button is pressed, the picture rotates 90 degrees counterclockwise.

Flip horizontally



Press again to restore to the previous picture.

Flip vertically



Press again to restore to the previous picture.

Listening to Radio

Receives FM/AM broadcasts. You can memorize up to 6 stations in each radio band.

• For the basic method of how to listen to FM/AM broadcasts, refer to <Listening to radio> (page 19).

Auto memory

===

Scans to automatically memorize stations with the best reception.

1 Select a radio band



A-MEMORY

- The auto memory ends after 6 stations have been memorized or the whole frequency has been scanned.
- When the <AF (Alternative Frequency)> (page 50) is ON, only RDS stations are put in the memory.
- When Auto Memory Entry is performed in the FM2 band, the RDS stations preset in the FM1 band are not entered into the memory.

Likewise, when Auto Memory Entry is performed in the FM3 band, the RDS stations preset in FM1 or FM2 are not entered into the memory.

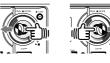
Manual memory

Memorizes the stations received.

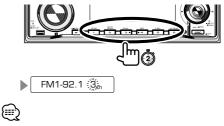
1 Select a radio band



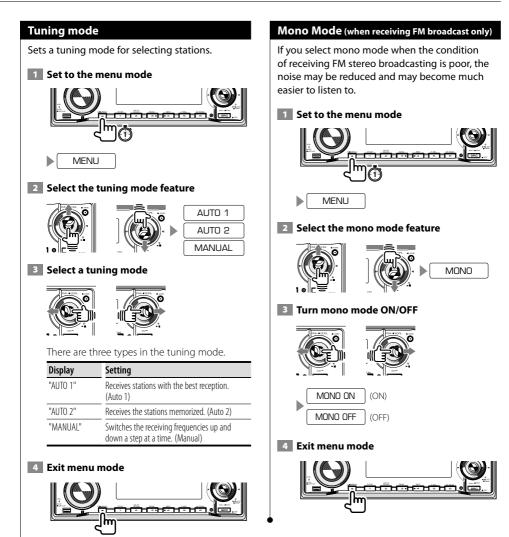
2 Select a radio station



3 Select a button (1-6) to preset



• This function is useful to memorize a station that cannot be memorized with the auto memory function.



RDS Control

Controls the reception RDS broadcast station programs.

Traffic Information

Changes to traffic information automatically when a traffic bulletin starts even when you are not listening to the radio.





(Traffic information is not received)

Each time the button is pressed, the Traffic information function turns ON/OFF. When a traffic bulletin starts, "TRAFFIC" is displayed and the audio changes to traffic information.

Receiving other traffic information stations





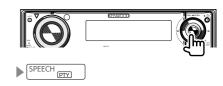


- During reception of an AM station when the Traffic Information function is turned ON, the frequency changes to an FM station.
- During reception of traffic information the adjusted volume is automatically remembered, and the next time the audio changes to traffic information, the volume automatically becomes the remembered volume.
- Traffic information can be switched when it is on the Tuner Source. However, you cannot switch the Traffic information during reception of the Traffic bulletin switched from the source other than the Tuner.

PTY (Program Type)

Selects the Program Type and searches for a station.

1 Enter PTY mode



2 Select the Program Type



Each time the button is pressed, the type changes in the following order.

No	Program Type	Display
1	Speech	"SPEECH"
2	Music	"MUSIC"
3	News	"NEWS"
4	Current Affairs	"AFFAIRS"
5	Information	"INFO"
6	Sport	"SPORT"
7	Education	"EDUCATE"
8	Drama	"DRAMA"
9	Culture	"CULTURE"
10	Science	"SCIENCE"
11	Varied	"VARIED"
12	Pop Music	"POP M"
13	Rock Music	"ROCK M"
14	Easy Listening Music	"EASY M"
15	Light Classical	"LIGHT M"
16	Serious Classical	"CLASSICS"
17	Other Music	"OTHER M"
18	Weather	"WEATHER"
19	Finance	"FINANCE"
20	Children's programs	"CHILDREN"

No	Program Type	Display
21	Social Affairs	"SOCIAL"
22	Religion	"RELIGION"
23	Phone In	"PHONE IN"
24	Travel	"TRAVEL"
25	Leisure	"LEISURE"
26	Jazz Music	"JAZZ"
27	Country Music	"COUNTRY"
28	National Music	"NATION M"
29	Oldies Music	"OLDIES"
30	Folk Music	"FOLK M"
31	Documentary	"DOCUMENT"

3 Search for a station with the selected Program Type





When you want to search for other stations



4 Exit PTY mode



- This function cannot be used during a traffic bulletin or AM reception.
- Speech and Music include the Program type shown below.

Music: No.12 — 17, 26 — 30

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Speech: No.3 — 11, 18 — 25, 31
```

- The Program Type can be put in the [1] [6] button memory and recalled quickly. Refer to the <Program Type Preset> (page 39).
- You can change the display language. Refer to <Changing Language for PTY Function> (page 40).
- When the selected Program Type is not found, "NO PTY" is displayed. Select another Program Type.

Program Type Preset

Putting the Program Type in the Preset button memory and quick recall.

Presetting the Program Type

Select the Program Type to preset

Refer to <PTY (Program Type)> (page 38).

2 Preset the Program Type

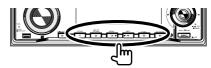


Recalling a preset Program Type

1 Enter PTY mode

Refer to <PTY (Program Type)> (page 38).

2 Recall the Program Type



Changing Language for PTY Function Selects the Program Type display language. 1 Enter PTY mode Refer to <PTY (Program Type)> (page 38). 2 Enter Changing Language mode 3 Select the language Display Language "ENGLISH" English "FRENCH" French "SWEDISH" Swedish "GFRMAN" German 4 Exit Changing Language mode

Scrolling the displayed radio text.





• If "DISP" is set to "OFF" in the <Menu setup> (page 50), the display may be turned off during scrolling.

TEL Mute Control

The audio system automatically mutes when a call comes in.

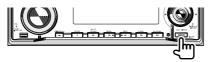
TEL Mute

When a call comes in

CALL

The audio system pauses.

Listening to the audio during a call



The "CALL" display disappears and the audio system comes back ON.

When the call ends

Hang up the phone.

The "CALL" display disappears and the audio system sound comes back ON.



 To use the TEL Mute feature, you need to hook up the MUTE wire to your telephone using a commercial telephone accessory. Refer to <Connections> (page 76).

Audio Control

Sets up sound effects, such as equalizer and speaker settings.

Detailed audio control

The following features can be set up under audio control.

Display	Setting
"R-VOL"	Adjusts the volume of the rear speakers. (Adjustable range: $0 - 35$)
"SW L"	Adjusts the volume of the subwoofers. (Adjustable range: $-15 - +15$)
"BAS L"	Adjusts the bass volume.
"MID L"	Adjusts the middle volume.
"TRE L"	Adjusts the treble volume.
"BAL"	Adjusts the volume balance between the left and the right.
"FAD"	Adjusts the volume balance between the front and the rear.

- For the setup method, refer to <Adjusts sound quality and others> (page 13).
- Bass, Middle, and Treble can be set up for each source.
- "R-VOL" can be adjusted when the dual zone function is set to ON.

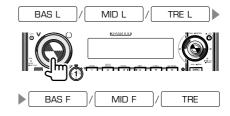
"SW L" and "FAD" cannot be adjusted if the dual zone function is set to ON.

For further information on the dual zone function, refer to <Audio setup> (page 44).

- "SW L" can be adjusted if "SWPRE" is set to "SW" in the menu setup while the subwoofer output is set to ON.
 For details on how to set up "SWPRE", refer to <Menu setup> (page 50), and for subwoofer output, refer to <Subwoofer output control> (page 45).
- "SW L" cannot be adjusted if "SWPRE" is set to "AV".

In addition, you can set bass, mid-range, and treble adjustments in more details.

1 Start the detailed settings



2 Select the adjusting features



Each time the knob is pressed, the type changes in the following order.

When pressing with "BAS L"

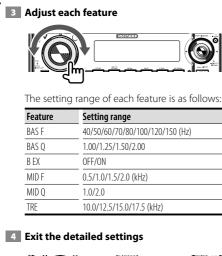
Display	Setting description	
"BAS F"	Central frequency of bass range to adjust	
"BAS Q"	Bass quality factor	
"B EX"	Bass central frequency extension	

When pressing with "MID L"

Display	Setting description
"MID F"	Central frequency of mid-range to adjust
"MID Q"	Mid-range quality factor

When pressing with "TRE L"

Display	Setting description
"TRE"	Central frequency of treble range to adjust





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- For each adjustment feature, refer to <Help? Term> (page 68).
- Setting audio control will set the System Q to "USER". For System Q, refer to <System Q> (page 45).

Audio setup Sets up volume offset, dual zone function, etc. 1 Start audio setup 2 Select features to set Each time the knob is rotated, the type changes in the following order. Feature Setting range HPF Specifies the front high-pass filter cutoff frequency. Specifies the rear high-pass filter cutoff HPR frequency. LPF Specifies the low-pass filter cutoff frequency. PHAS Specifies the subwoofer phase. V-OFF Adjusts the volume difference between sources. LOUD Corrects treble and bass when the volume is low. AVOUT Specifies the output level of the AV OUT terminal. 2ZON Turns the dual zone function ON/OFF. 3 Set up each feature

The setting range of each item is as follows:

Features	Setting range
HPF/HPR	THRU (Filter Off)/40/60/80/100/120/150/ 180/220 (Hz)
LPF	50/60/80/100/120 (Hz)/THRU (Filter Off)
PHAS	REV (180°)/NML (0°)
V-OFF	-8-0
LOUD	OFF/ON
AVOUT	-15 - 0
2ZON	OFF/DVD/AUX

4 Exit audio setup



- If a volume offset is set for each source with "V-OFF", the volume will be nearly the same for all sources when the source is changed.
- When "2ZON" is ON ("DVD"/"AUX"), you can only set "V-OFF" and "LOUD".
- If the dual zone function is used, different sources can be output from the front speakers (source of this unit) and the rear speakers (disc source of this unit or the sound input to the built-in AUX).
- For "LPF" and "PHAS", the feature "SWPRE" needs to be set to "SW" (subwoofer) in advance in the menu setup, and the subwoofer output to ON. For details on how to set up "SWPRE", refer to <Menu setup> (page 50), and for subwoofer output, refer to <Subwoofer output control> (page 45).
- "PHAS" cannot be set up when "LPF" is set to "THRU".
- "AVOUT" can be set when the feature "SWPRE" in <Menu setup> (page 50) is set to "AV".

Speaker setup

Fine adjust the System Q value to the speakers.

1 Set to STANDBY mode

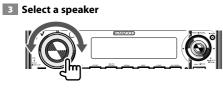


STANDBY

Select "STANDBY".

2 Set to the speaker matching mode





Each time the knob is rotated, the indication changes in the following order.

Display	Speaker type
"SP OFF"	OFF
"SP 5/4"	For 5 & 4 in. speakers
"SP 6*9/6"	For 6 & 6x9 in. speakers
"SP OEM"	For OEM speakers

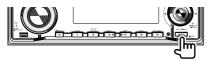
4 Exit the speaker matching mode



System Q

Shows the equalizer curve for the song being played.





2 Recall the System Q



Each time the button is pressed, the type changes in the following order.

Display	Setting
"USER"	User
"ROCK"	Rock
"POPS"	Pops
"EASY"	Easy
"TOP40"	Top 40
"JAZZ"	Jazz
"NATURAL"	Natural

- The System Q can be set for each source.
- The System Q value varies depending on the settings made in the <Speaker setup> (page 44). Perform the <Speaker setup> in advance.
- "USER" is the value that was set the <Adjusts sound quality and others> (page 13).
- If the System Q setting is changed, the values ("BAS L", "MID L", and "TRE L") set in the <Adjusts sound quality and others> are replaced with the System Q value.

Subwoofer output control

Turns the subwoofer output ON/OFF.

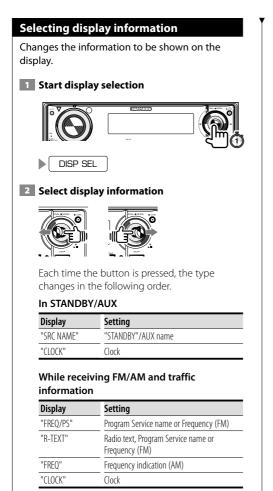


2

- Cannot be set when the dual zone function is activated.
- The subwoofer can be turned ON/OFF when the feature "SWPRE" in <Menu setup> (page 50) is set to "SW" (subwoofer).

Display Control

Set information to be shown on the display, select a file to play while watching the monitor, and detach/ attach the panel.



While playing CDs

Display	Setting
"D-TITLE"*1	Disc title
"T-TITLE"* ¹	Track title
"P-TIME"	Track number & Play time
"A-TIME"* ²	Disc play time
"R-TIME"* ²	Remaining disc time
"CLOCK"	Clock

*¹ If not registered, play time is displayed instead.
 *² Not displayed with CD changer.

While playing audio files/video files/picture files

Display	Setting
"TITLE"* ^{3*4}	Song title & Artist name
"ALBUM"* ^{3*4*5}	Album title & Artist name
"FOLDER"	Folder name
"FILE"	File names
"P-TIME"	Track number & Play time
"V-LAVEL"* ⁴	Volume label
"CLOCK"	Clock

*³ Video files or picture files cannot be displayed.

*⁴ If not registered, play time is displayed instead.

*⁵ The play time is displayed while playing WMA files.

While playing DVDs

Display	Setting
"C-TIME"	Chapter play time
"T-TIME"	Title play time
"R-TIME"	Remaining disc time
"TNO:CNO"	Title/Chapter number
"V-LABEL"	Volume label
"CLOCK"	Clock

While playing VCDs

Display	Setting	
"P-TIME"*6	Scene/Track play time	
"S-TIME"* ⁷	Scene play time	
"A-TIME"*6	Disc play time	
"R-TIME"*6	Remaining disc time	
"V-LABEL"	Volume label	
"CLOCK"	Clock	

 *6 Can be displayed when the PBC function is OFF. *7 Can be displayed when the PBC function is ON.

3 Exit display selection



Monitor information display & file selection

Displays information on the disc source being played, and selects a file to be played.

1 Display source information



Information on the source is displayed on the monitor.

This information remains displayed until an image is displayed on the monitor.



① **Media information** Play time and text information is displayed.

- ② Status information Play function setting status is displayed.
- **③** Source information display

Receiving frequency, band, number of channels, etc. are displayed during radio reception.

Play time, title/track/chapter number, setting status of each function, etc. are displayed while playing DVDs, etc.

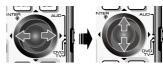
2 Display disc and file information



Information on the disc and the file is displayed. Depending on discs, you can switch the displayed information as you press this button.



You can select the information to show when "▼" and "▲" are displayed.



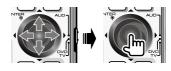
3 Display the file list



Audio file, movie file, or picture file list is displayed.





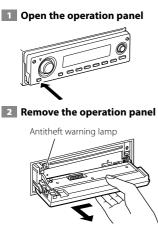




• The file list is not displayed if the disc being played does not have an audio file, movie file, or picture file.

Removing operation panel

Removes the operation panel.

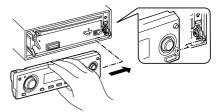


- Removing the panel turns off the power.
- Since the panel is a precision component, it may be damaged by shock when exposed to vibration or dropped. Store the panel with care after removing it.
- Do not store the removed panel in the following places.
 - Places exposed to direct sun light
 - Places with high humidity
 - Dusty places
- This unit is provided with a DSI (Security indicator) function. If the "DSI" feature is set to "ON" in the <Menu setup> (page 50), a warning lamp blinks when the panel is removed for antitheft purposes.

Installing operation panel

Installs the operation panel.

Align the operation panel with the main unit



Push in the panel aligning the hole in the panel with the shaft at the right of the main unit.

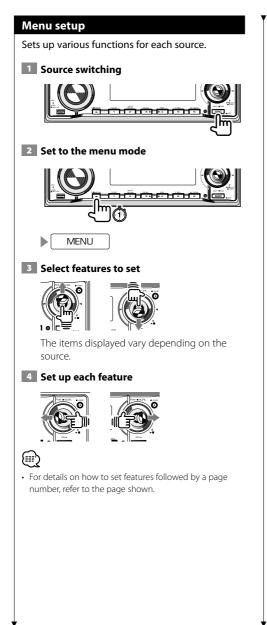
2 Install the operation panel

Push the left side of the panel into the main unit until it locks.

The panel is now installed and the unit is ready for use.

Setting up various functions

Menu



Display	isplay Setting Setting overview		Source	
"CODE SET"	Refer to page 52	Sets Security code.	SB	
"BEEP"	ON*/OFF	Sets beep tone ON/OFF.	SB	
"CLK ADJ"	Refer to page 54	Sets the clock.	SB	
"SYNC"	ON*/OFF	Specifies whether to synchronize the RDS station time data with the clock of this unit.	SB	
"DSI"	ON*/OFF	Sets the antitheft warning LED.	SB	
"KEY"	GRN/RED*	Sets the button illumination color.	SB	
"DISP"	ON*/OFF	Turns off the display when not in use.		
"DIM"	ON*/OFF	Adjusts the brightness of the display according to the surrounding illumination.	SB	
"SWPRE"	R*/SW/AV	Sets PREOUT output signal.	SB	
"AMP"	ON*/OFF	Specifies whether the built-in amplifier is turned ON/OFF.	SB	
"ZONE2"	R*/F	Sets the output destination of the dual zone function sub source.	SB	
"BMS"	FLT* +6/+12/ +18	Sets the amount of amplification for the bass range of the amplifier with BMS function.	(SB)	
"BMSF"	NML*/LOW	Sets the central frequency to amplify by BMS.	(SB)	
"AMP CTRL"	Refer to page 55	The various settings of LX amplifier are set.	(SB)	
"NEWS"	OFF*/00MIN- 90MIN	Sets the time to keep receiving the news bulletin that is switched over.	(SB)	
"LO.S"	OFF*/ON	Only the stations with good reception will be received during auto seek tuning.	Tuner	
"AUTO1"/ "AUTO2"/ "MANUAL"	AUTO1*/ AUTO2/ MANUAL	Sets the selection method of the stations. (Refer to page 37)	Tuner	
"AF"	ON*/OFF	When the condition of receiving RDS station gets worse, alternative frequency is received. (Refer to page 37)	FM	
"REG"	ON*/OFF	The frequency to be switched over by the AF function is limited to a certain area.	FM	

(#)	:	Press	for	#	seconds.
-----	---	-------	-----	---	----------

Display	Setting	Setting overview	Source
"OEM DISP"	Refer to page 57	Sets External Display.	
"MONO"	OFF*/ON	Receives with mono sound.	FM
"ATPS"	ON*/OFF	When the condition of receiving traffic information is poor, it switches to other stations.	FM
"NAME SET"	Refer to page 54	Names the AUX source.	AUX
"SCL"	AUTO/MANU*	Specifies whether the text is scrolled automatically.	
"AUX"	OFF*/ON	Specifies whether to display built-in AUX when the source is selected.	SB
"OFF"	/20M*/ 40M/ 60M	When the standby condition continues, it automatically turns the power OFF.	SB
"CD READ"	1*/2	Sets the CD read mode.	SB
"A- PRESET"	Refer to page 56	Registers/recalls audio settings.	SB
"DEMO"	ON*/OFF Refer to page 53	Specifies whether to enable demonstration.	SB
"M/V"	No setting is available	Displays Macrovision version.	

- Leave "AUX" set to "OFF" if AUX source is not used.
 - Changing "SWPRE" setting will change "AVOUT" setting value of <Audio setup> (page 44) to "-15".

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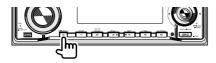
• "DISP" can be set when "DEMO" is "OFF".

Menu

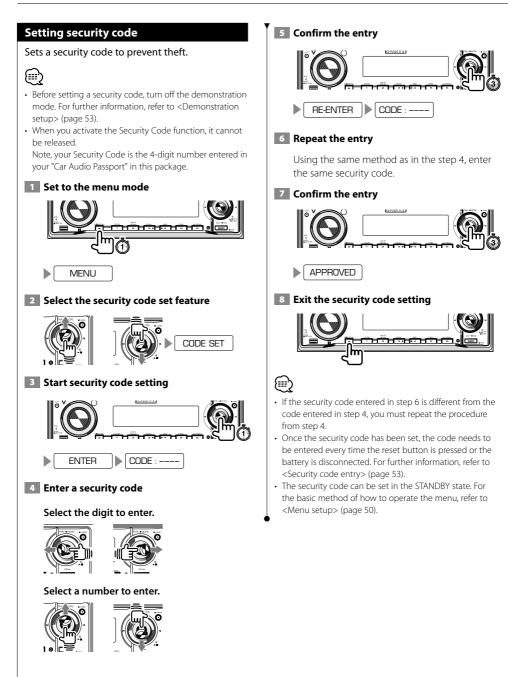
* Indicates the default configuration after purchase.

- **SB** : Can be set in standby state.
- **SB** : Can be set in other than standby state.
- **DVD** : Can be set while accessing DVD source.
- Tuner : Can be set in tuner source.
- AUX : Can be set while accessing AUX/AUX EXT source.
- **FM** : Can be set during FM reception.

5 Exit menu mode



- "ZONE2" is displayed while the dual zone function is set to ON.
- "SWPRE" is displayed when dual zone function is turned OFF.
- "CD READ" can be set while no disc is inserted in the unit.
- "CLK ADJ" cannot be set if "SYNC" is set to "ON".
- "OFF" setting will not be operative unless "CODE SET" is performed.
- For further information on each feature, refer to <Help? Term> (page 68).



Security code entry

If a security code is set, you must enter the code the first time you turn the unit on after the reset button has been pressed or the unit has been disconnected to the battery of the car.

1 Enter a security code

Select the digit to enter.





Select a number to enter.





Enter the security code set in <Setting security code> (page 52).

2 Confirm the entry



The power turns on.

APPROVED



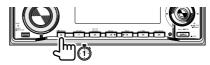
 If you enter wrong security code, the message "WAITING#" (# : number of times you entered wrong code) will be displayed, and you cannot operate the unit for a certain period of time. Re-enter the code after the following operation prohibition time is passed.

Number of times for entering wrong security code	Operation prohibition time	
1st time	None	
2nd time	5 minutes	
3rd time	1 hour	
4th time	24 hours	

Demonstration setup

Demonstrates the functions of this unit.

1 Set to the menu mode





2 Select the demonstration feature



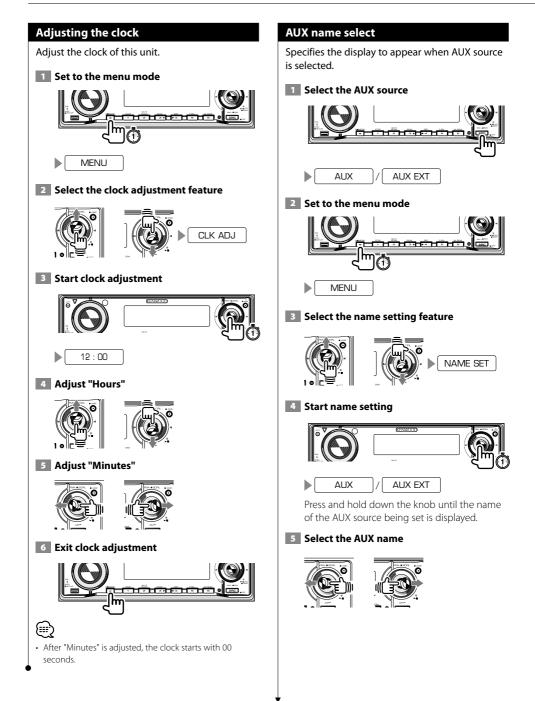
3 Set up the demonstration feature



The demonstration function turns ON/OFF each time the button is pressed and held down for 2 seconds or more.



 This setting can be used in the standby state. For the basic method to operate the menu, refer to <Menu setup> (page 50).



As you move the knob to the left or right, the AUX name changes in the following order.

Display	
"AUX"/ "AUX EXT"	
"DVD"	
"PORTABLE"	
"GAME"	
"VIDEO"	
"TV"	

6 Exit the name set

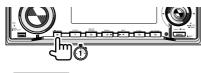


- If no operation is made for ten seconds, the name displayed at that moment is selected.
- For the AUX input using CA-C1AX/CA-C2AX, the <AUX name select> cannot be set.

LX amplifier control

The connected optional LX amplifier is controlled from this unit.

1 Set to the menu mode









3 Start the amplifier controlling feature



Press until the controlling feature is displayed.

Select the amplifier controlling feature for setting



5 Set the amplifier controlling feature

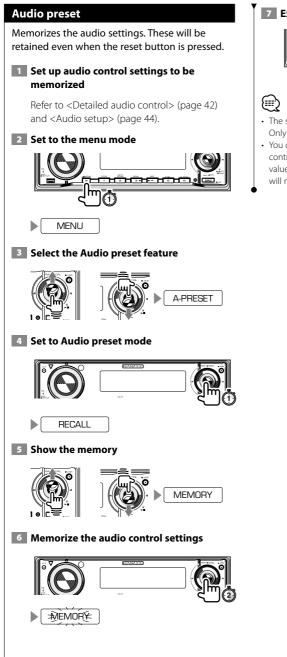




6 Exit the amplifier control



- For details of amplifier control features, refer to the operation manual of the LX amplifier.
- LX amplifier control can be set only when the LX amplifier is connected to this unit.

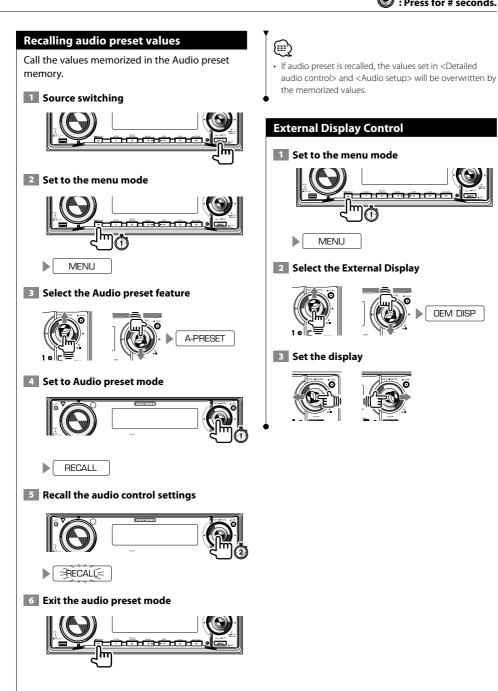


7 Exit the audio preset mode



- The settings cannot be memorized by source. Only 1 set of audio control settings can be memorized.
- You can memorize the features in <Detailed audio control> and <Audio setup>. Note, however, that the values set for "R-VOL", "BAL", "FAD", "AVOUT" and "2ZON" will not be memorized.

OEM DISP



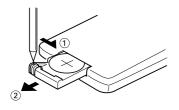
Remote Controller

This unit can be operated using the Remote Controller supplied with the unit.

- \wedge
- Put the Remote Controller in a place where it will not move during braking or other operations. A dangerous situation could result, if the Remote Controller falls down and gets wedged under the pedals while driving.
- Do not place the battery near an open flame or heat source. This may cause the battery to explode.
- Do not recharge, short, break up or heat the battery or place it in an open fire. Such actions may cause the battery to leak fluid. If spilled fluid comes in contact with your eyes or on clothing, immediately rinse with water and consult a physician. Place the battery out of reach of children. In the unlikely event that a child swallows the battery, immediately consult a physician.

Battery installation

Using a pen tip or similar object, open the battery compartment in Direction (2) (as shown) while unfastening the lock in Direction (1) (as shown). Insert the lithium battery (CR2025) supplied, making sure the polarities are correct. (See the illustration inside the battery compartment.)





 If the Remote Controller operates only over shorter distances or does not operate at all, it is possible that the lithium battery is depleted. In such instances, replace the battery with a new one.

Remote Controller mode switch

The functions operated from the remote controller differ depending on the position of the mode switch.



AUD mode

Switch to this mode when controlling a selected source or a CD changer etc.

DVD mode

Switch to this mode when playing DVDs or CDs etc. with the player integrated in this unit.



- The position of the remote control mode switch is indicated in the title of each mode, e.g., "(AUD mode)".
- When controlling a player that is not integrated in the unit, select "AUD" mode.

Common operations (AUD mode)

Source switching

Switches to the source to be played.



Volume control

Adjusts the volume.

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Volume attenuator

Press the button once to lower the volume. Press again to restore the previous volume.

		9	
-	/FAN1	1000	<u>ال</u>

Audio control

Adjusts the sound quality.

1 Select the feature you want to adjust.



2 Adjust.



 Refer to <Detailed audio control> (page 42) for information on the features that can be adjusted.
 However, you cannot adjust the detailed setting features such as "BAS F".

Menu settings

Sets the menu.

1 Press the Menu Mode button.





3 Adjust the feature.





• Refer to page 50 for information on the features that can be adjusted.

Dual Zone

Switches the Dual Zone function ON and OFF.



Rear volume control

Adjusts volume at rear when the Dual Zone function is ON.



DVD/VCD/CD/Audio files (DVD mode)

Folder search

Selects the folder to be played.



Track search and file search

Selects the track or file to be played.

Play/Pause

Pauses the track. Press again to resume playing.

Stop

Memorizes the last point where the disc stopped. When pressed again, the last point is deleted.



Direct search



Pressing this button switches the features that can be searched directly.

DVD

Title number

Chapter number

Play time

Item number*

Cancel

* You may not be able to use this function with some discs or scenes.

CD

Track number

Play time

Cancel

Audio files

Folder number File number Cancel

VCD1.X, VCD 2.X (PBC OFF)

Track number

Play time

Cancel

VCD 2.X (PBC ON)

Scene number

Number

Cancel

Once you have switched to the direct search feature, specify the search number from the numeric keypad, and then press in [ENTER] key.

Numeric keypad



Specify the number to search in direct search.

Radio (AUD mode)

Band switching

Switches to bands received by the unit.



Station selection

Switches to broadcast stations received by the unit.



Direct tuning

After pressing this button, use the keypad to specify the broadcast station you wish to receive.



Example: 92.1MHz (FM)

Example: 810kHz (AM)



Numeric keypad



- Press the direct tuning key first, then specify the frequency of the station to receive.

Help? Playing files

Audio files

This unit plays MP3 and WMA audio files. The following restrictions apply to the formats and discs that this unit can play. Please note that in all cases the values shown for the characters are those for one-byte characters.

Acceptable audio files

- MP3
- WMA



- · Copy protected files cannot be played.
- Playback or display may not be possible owing to encoded software settings or environments.
- It may not be possible to play files with more recent versions of compressed formatting or files with added specifications.

Acceptable MP3 formats

This unit can play the following two MP3 file formats:

MPEG1 Audio Layer 3 and MPEG 2 Audio LSF Layer 3 standard files.

- Sampling frequencies: 32/ 44.1/ 48 kHz
- Bit rate: 32-320 kbps

Acceptable WMA formats

This unit can play WMA files in the following formats.

- Windows Media™ Audio
- Sampling frequencies: 32/ 44.1/ 48 kHz
- Bit rate: 48-192 kbps

It is possible that when some functions of Windows Media[™] Player version 9 or higher are used, normal playback will not be possible.

Acceptable discs

- · CD-R/RW/ROM
- DVD±R/RW

Discs made using simple CD-RW formats cannot be played.

Acceptable CD-R/RW formats

This unit can play discs in the following formats.

- ISO 9660 Level 1
- ISO 9660 Level 2
- Joliet
- Romeo

Please note that file and folder names can be displayed using a maximum of 128 characters. (Includes period "." and three-letter file extension.)

For information on characters that can be used, refer to the writing software manual or to the <File names> section below.

However, the following restrictions apply to discs this unit can play.

- · Maximum directory hierarchy: 8 levels
- Maximum number of files per folder: 255
- Maximum number of folders: 254

Audio files written in formats other than those shown above may not play properly or the file and folder names may not be displayed correctly.

Settings for compression software and writing software

It is recommended that when compressing an audio file you select the "constant" size of "128bps" for the transfer bit rate setting in the compression software. Select the "Disc at Once" setting when recording data by filling an empty disc at one time.

File names

Please add the appropriate ".MP3" or ".WMA" extension to audio files. Files that do not have either of these extensions cannot be played.



 Do not add the above extensions to files that are not audio files. Should you add one of these extensions, the unit will mistakenly recognize the file as an audio file, thus producing a loud noise that could damage the speakers.

Display of track information for audio files

This unit can display the following track information: track name, artist name and album name. Information is displayed using Roman letters and Arabic numerals.

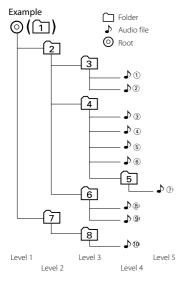
- Track information recorded using v1.0, 1.1 or 2.3 standards for the MP3 ID3 Tag is displayed using a maximum of 30 characters.
- WMA content properties are displayed using a maximum of 30 characters.

Order for playing audio files

The order in which files or folders are selected using Playback, Folder Search, File Search and Folder Select is the order written into the writing software. As a result, there may be occasions when the order in which you expect tracks to play does not correspond to the actual order in which they play.

Although it depends on your PC environment, it is possible to set the playing order by specifying using numbers "01" through "99" at the beginning of file names and writing them into a CD-R or CD-RW disc etc.

When using discs with folder and file levels like that shown below, the following occurs when conducting a Folder Search or File Search or when selecting a folder.



Performing a File Search during \mathbb{A}^{\oplus} playback ...

O	®
Start of ♪④ ➡ ♪③	♪ 5 → ♪ 6

When performing Folder Search during ${\bf J}^{(4)}$ playback ...



When performing File Select during ♪④ playback ...



When performing Folder Select 1 during I playback ...



When performing Folder Select 2 during \mathbb{A}^{4} playback ...

I	-00	
3 ➡ 8 ➡ 6 ➡ 5	5 ➡ 6 ➡ 8 ➡ 3	

Video files

This unit can play MPEG video files. The following restrictions apply to the formats and discs that this unit can play.

Acceptable video files

- Format: MPEG1, MPEG2
- Picture size: MPEG1: 320 × 240, 352 × 240 MPEG2: 640 × 480, 704 × 480
- Audio format: MPEG Audio Layer 2
- Audio sampling frequencies: 32/44.1/48 kHz
- Audio bit rate: 32–384 kbps (Only constant bit rates)

Acceptable discs

• DVD±R/RW

Extensions

Video files must have one of the following extensions: mpg, mpeg, mpe, m1v, m2v

Disc formats, file and folder names and playing order are the same as those for audio files. Refer to <Audio files> (page 62).

Picture files

This unit can play JPEG files. The following restrictions apply to the formats and discs that this unit can play.

Acceptable picture files

- Format: JPEG
- Baseline format: Up to a maximum of 5120(W) × 3840(H) pixels
- Progressive format: Up to a maximum of 2048(W) \times 1536(H) pixels

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- Enlarges and reduces images up to the size shown above to fit for the screen.
- The picture files with information attached (such as Exif) may not be displayed or operated (e.g.: rotation display) properly.

Extensions

Picture files must have one of the following extensions: jpg, jpeg, jpe, jfif

Acceptable discs, disc formats, file and folder names and playing order are the same as those for audio files. Refer to <Audio files> (page 62).

General

The power does not turn ON.

✔ The fuse has blown.

Help? Troubleshooting

- After checking for short circuits in the wires, replace the fuse with one with the same rating.
- ✓ The speaker wire has a short-circuit or touches the chassis of the vehicle, and then the protection function is activated.
- Wire or insulate the speaker cable properly and press the reset button.
- ✓ A security code has been set.
- Enter the set security code (page 53).

No sound can be heard, or the volume is low.

- ✓ The fader or balance settings are set all the way to one side.
- Center the fader and balance settings.
- ✓ The "AMP" feature in Menu setup is "OFF".
- Turn the "AMP" feature "ON", referring to <Menu setup> section (page 50).
- ✓ The values for Volume offset are too low.
- Turn up the Volume offset, referring to the <Audio setup> section (page 44).
- ✓ The input/output wires or wiring harness are connected incorrectly.
- Reconnect the input/output wires or the wiring harness correctly. Refer to the <Connections> section (page 76).

The sound quality is poor or distorted.

- ✓ One of the speaker wires is being pinched by a screw in the car.
- Check the speaker wiring.
- ✓ The speakers are not wired correctly.
- Reconnect the speaker wires so that each output terminal is connected to a different speaker.

The TEL mute function does not work.

- ✓ The TEL mute wire is not connected properly.
- Connect the wire correctly, referring to the <Connections> section (page 76).

The TEL mute function turns ON even though the TEL mute wire is not connected.

- ✓ The TEL mute wire is touching a metal part of the car.
- Pull the TEL mute wire away from the metal part of the car.

The memory is erased when the ignition is turned OFF.

- ✓ The ignition and battery wire are incorrectly connected.
- Connect the wire correctly, referring to the <Connections> section (page 76).

There is no loudness effect.

- ✓ You are using Subwoofer preout.
- ☞ Loudness has no effect in Subwoofer preout.

Even if Loudness is turned ON, high-pitched tone is not compensated for.

- ✓ Tuner source is selected.
- High-pitched tone isn't compensated for when in Tuner source.

Radio reception is poor.

- ✓ The car antenna is not extended.
- Pull the antenna out all the way.
- ✓ The antenna control wire is not connected.
- Connect the wire correctly, referring to the <Connections> section (page 76).

There is a source you cannot switch.

- ✓ The Disc changer is not connected.
- Connect the Disc changer. If the Disc changer is not connected to it's input terminal, you cannot switch to an external disc source.

The display blacks out while scrolling.

- ✓ The "DISP" feature under <Menu setup> is "OFF".
- Turn the "DISP" feature "ON", referring to the <Menu setup> section (page 50).

Even though Synchronize Clock is ON, the clock cannot be adjusted.

- ✓ The received RDS station is not sending time data.
- Receive another RDS station.

The Dimmer function does not work.

- ✔ The Dimmer wire is not connected correctly.
- Check the Dimmer wire connection.
- ✓ The "DIM" feature in the <Menu setup> is set to "OFF".
- Turn the "DIM" feature "ON", referring to the <Menu setup> section (page 50).

2ZON" is not displayed.

- ✓ "SWPRE" feature is set to "AV".
- Refer to <Menu setup> (page 50) to set the "SWPRE" feature to "SW"/"R".

Playing discs

Cannot insert disc.

- ✓ There is already another disc inserted.
- Remove the inserted disc and insert the disc you want to play.

A disc ejects as soon as it is loaded.

- ✔ The disc is quite dirty.
- Clean the disc, refer to <Disc cleaning> in the <Handling media> section (page 10).

Cannot remove disc.

- ✔ Disc stops while being ejected.
- Continue to push the Eject button until the disc is ejected completely.
- ✓ The cause is that more than 10 minutes have elapsed since the vehicle ACC switch was turned OFF.
- The disc can only be removed within 10 minutes of the ACC switch being turned OFF. If more than 10 minutes have elapsed, turn the ACC switch ON again and press the Eject button.
- ✔ A disc whose validity date is expired is loaded.
- Turn the power OFF, and wait for 15 seconds before pressing the [▲] (Eject) button.

The specified disc does not play, but another one plays instead.

- ✓ The specified disc is quite dirty.
- Clean the disc.
- The disc is loaded in a different slot from that specified.
- Eject the disc magazine and check the number for the specified disc.
- ✓ The disc is severely scratched.
- Try another disc instead.

Direct Search does not work.

- ✓ Another function is ON.
- ☞ Turn Random Play or other functions OFF.

Cannot select soundtrack language, subtitle language or angles, or the disc does not play in the specified language.

- ✓ Multiple languages or angles have not been included.
- It may be possible to select these using the Menu. Refer to the disc's instruction leaflet.
- The VCD Menu (Playback Control) is not displayed.
 - ✓ Playback Control has not been included in the VCD.
 - Refer to the disc's instruction leaflet.

Audio files

- Cannot play an Audio file.
- The sound skips when an Audio file is being played.
 - ✓ The recording condition is bad.
 - Record the media again or use another media.
 - ✓ The media is scratched or dirty.
 - Clean the disc, refer to <Disc cleaning> in the <Handling media> section (page 10).
- The Audio file track time is not displayed correctly.
 - **v** --

There are times when it is not displayed correctly depending on the recording conditions of the Audio file.

Menu

The Security Code feature is not displayed.

- ✓ The "DEMO" feature in <Menu setup> is "ON".
- Turn the "DEMO" feature "OFF", referring to the <Demonstration setup> section (page 53).
- The display's brightness level does not change.
 - ✓ The car's light switch is OFF.
 - Turn ON the car's light switch.
 - ✓ The illumination cord has not been connected.
 - Connect the cord correctly, referring to the <Connections> section (page 76).
- An AUX source is selected even when the built-in AUX is OFF.
 - ✓ The AUX switch of the KCA-S220A (optional accessory) is ON.
 - Turn the AUX switch OFF, referring to the instruction manual supplied with the KCA-S220A.

Help? Term

General

MP3

MP3 is an abbreviation for "MPEG Audio Layer 3". MPEG Audio is the compression standard for only the audio portion of image compression methods used for DVDs and Video CDs.

This manual sometimes specifies audio files that use this method.

For information on formats and the kinds of MP3 recorded discs that can be used, refer to the <Audio files> section under Help? (page 62).

WMA (Windows Media™ Audio)

WMA is the abbreviation for the Windows Media™ Audio system of audio compression encoding developed by Microsoft Corporation.

This manual sometimes specifies audio files that use this method.

For information on formats and the kinds of WMA recorded media that can be used, refer to the <Audio files> section under Help? (page 62).

Disc changer

These are either externally connected optional CD changers (KDC-C719MP, KDC-C719Y, etc) or a multimedia player (KDV-C820).

Audio control

R-VOL (Rear volume)

Controls volume at the rear when the Dual Zone function is in use.

SW L (Subwoofer volume)

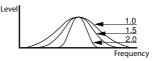
Controls the volume of the subwoofer.

BAS F/MID F/TRE (Bass frequency/Middle frequency/Treble frequency)

Frequency (central frequency) for adjusting bass, middle-range or treble can be set.

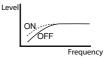
BAS Q/MID Q (Quality factor)

This function sets the adjustment slope of bass or middle-range. As the setting value becomes larger, the slope becomes steeper.



B EX (Bass extended)

When it is set to ON, bass central frequency is extended by approximately 20% towards the bass range.



HPF/HPR (High pass filter)

A high pass filter cuts out frequencies lower than the cutoff frequency.

When preamp output is used as a subwoofer, this function is used to cut out low frequencies from the output and produce only high frequencies. This function can be disabled by turning on the "THRU" setting.

This unit is equipped with two high pass filters, one in the front speaker (HPF) and one in the rear speaker (HPR).

LPF (Low pass filter)

A low pass filter cuts out frequencies higher than the cutoff frequency.

When preamp output is used as a subwoofer, this function is used to cut out high frequencies from the output and produce only low frequencies. This function can be disabled by turning on the "THRU" setting.

PHAS (Subwoofer phase)

Sets the phase of the subwoofer (positive phase or reverse phase).

V-OFF (Volume offset)

Controls the differences in the volumes of each source. As a result, even when switching to a different source the volume of the sound you hear will be more or less the same.

AVOUT (AV out level)

Sets the signal level for audio output from the AV OUT terminal.

2ZON (Dual zone)

The dual zone function splits the output of the main source and sub source between the front speaker and rear speaker.

OFF : Dual zone function is off.

DVD : DVD is set as the sub source.

AUX : Built-in AUX is set as the sub source.

- Output destination of sub source is specified using "ZONE2" in the <Menu setup> section (page 50).
- The main source is specified using <Changed a source> (page 13).
- Front speaker volume is adjusted using the [VOL] button.
- Rear speaker volume is adjusted by "R-VOL" in the <Detailed audio control> section (page 42) or by using the [R.VOL] key (page 59) on the remote control.

Menu

AF (Alternative Frequency)

When the reception is poor, automatically alternate to another frequency broadcasting the same program in the same RDS network with better reception. When the AF function is ON, the "RDS" indicator is ON. When no other stations with stronger reception are available for the same program in the RDS network, you may hear the incoming broadcast in bits and snatches. Turn OFF the AF function in such a case.

AMP (Built-in amp output)

Output from the built-in amp is turned ON and OFF. When there is a system where power amps are connected to the preamp output terminals of both the front speaker and the rear speaker, operation of the built-in amp can be stopped by turning this function "OFF".

The quality of audio output from the preamp outputs can be improved by stopping operation of the built-in amp.

AMP CTRL

You can perform various settings for the optional power amplifier that is connected by LX cable. In addition, since the various information on the power amplifier including voltage, consumption current, internal temperature, the number of rotations for the electric fan, etc. is displayed, you can instantly check the conditions in which the power amplifier is operating.

For details of the items you can control, refer to the operation manual of the LX amplifier.

ATP (Auto TP Seek)

When the TI function is ON and the reception is poor while listening to a traffic information station, another traffic information station with better reception will be searched for automatically.

AUTO1/AUTO2/MANUAL

This specifies the method for searching for a broadcast station.

- AUTO1 : Broadcast stations are found automatically.
- AUTO2 : Memorized broadcast stations are received in order.

MANUAL : Frequency changes step by step.

AUX (Internal AUX input)

The AUX terminal inputs audio from external devices such as video players and car navigation systems to this unit.

This function turns audio input to the internal AUX terminal ON and OFF.

When this function is ON, audio input to the AUX terminal can be heard from this unit by switching to the AUX source.

By using the dual zone function it is also possible to output another source simultaneously. Turn OFF when not in use.

BEEP (Beeping)

This function produces a beeping sound when pressing a button to confirm that the button has been pressed.

If you find this beeping sound annoying, you can get rid of it by turning it "OFF".

Please note that this beeping sound does not come out of preamp outputs.

BMS

With this function, you can control the amplification amount for the bass range of the optional power amplifier with B.M.S functions that is connected by EXT. CONT. cable.

Values to be changed and the operation of the amplifier during the change may differ according to the amplifiers. For details, refer to the operation manual of the connected power amplifier.

For the amplifier with B.M.S function, refer to the catalog.

BMS F

This function adjusts the central frequency of the bass amplification being set by "BMS". Setting at "LOW" reduces the frequency by 20–30%.

CD READ (Reading a CD)

Specifies the method for reading a CD. When a specially formatted CD does not play properly, specifying "2" will make the CD play. Please note that even after selecting "2", it will not be possible to play some music CDs. Also, if you set it to "2", you cannot play audio or picture files. Under normal circumstances, set at "1".

- 1 : It automatically distinguishes between a disc with audio files/picture files and a music CD during playing the disc.
- 2 : It overrides to play the disc as a CD.

CODE SET (security code set)

The security code is set.

Once a security code has been set, when the unit is used for the first time after the unit has been unplugged, the unit's power cord has been disconnected or the reset button has been pushed, the power will not turn on unless you enter the set security code. In other words, this function helps prevent theft as the security code must be entered after the unit has been removed from the vehicle.

DIM (Dimmer)

Display brightness automatically switches on in conjunction with the vehicle light switch.

DISP

When set at the "OFF" position, the display disappears if the unit is not operated for a period of five seconds. This prevents the display from being reflected in the vehicle's windows.

However, if any of the modes have been set the display will not disappear even after five seconds.

When the display is off, pressing any buttons will return the display.

Please note that when the display disappears, the only operations that can be performed are turning the power ON and OFF, adjusting volume, selecting a source and ejecting a disc.

DSI (Disabled system indicator)

Turns the security indicator ON and OFF. When this function is ON and the panel has been removed, the LED for the $[\triangle]$ (Eject) button flashes so that it functions as a theft prevention warning light.

KEY (Button illumination)

You can choose green or red for illuminating the buttons.

LO.S (Local Seek)

Only stations whose reception is good are searched in auto seek tuning.

MONO (Monaural)

This function switches FM stereo broadcast to mono sound.

When you listen to the FM station with poor reception condition, switching to mono sound will reduce the noise and may become easier to listen to.

M/V (Microvision Version)

Displays the version of copyright protection technology used in a DVD.

NEWS (News Bulletin with Timeout Setting)

The tuner automatically changes when a news bulletin starts even if the radio is not being listened to. Also, you can set the time interval when interruption is prohibited.

When you set "NEWS 00MIN" — "NEWS 90MIN", the News Bulletin Interrupt function is ON.

When the News Bulletin is ON, the "NEWS" indicator is ON.

When the news bulletin starts, "NEWS" is displayed, and the tuner changes to the news bulletin.

- If you choose the "20MIN" setting, further news bulletins will not be received for 20 minutes once the first news bulletin is received.
- The news bulletin volume is the same level that was set for <Traffic Information> (page 38).
- This news bulletin function is only available if the desired station sends PTY-code for news bulletin or belongs to <Enhanced Other Network>-Network sending PTY-code for news bulletin.
- When the News Bulletin Interrupt function is ON, the tuner changes to an FM station.

OFF (Power OFF Timer)

Setting the timer to turn this unit's power OFF automatically when Standby mode continues. Using this setting can save the vehicle's battery power.

REG (Region Restrict Function)

You can choose whether or not to restrict the RDS channels, received with the AF function for a particular network, to a specific region.

If AF function is not restricted to the specified region and network, the AF function sets up to search the station with good reception in the same RDS network.

SCL (Scrolling)

In cases where there are too many characters to display all the information when selecting disc or track titles, disc or track text, group titles, folder names, file names, track names and artist names or album names on the display, use this function to scroll down so that all the information is displayed.

Setting this function to "AUTO" will perform the scroll display once when the display changes, while setting to "MANU" will prevent the display to scroll.

SWPRE (Switchable preout)

This function sets audio to be output by the preamp output terminal.

- R : Rear sound is produced. This is set when rear sound is produced from the optional power amplifier.
- SW : Outputs audio used by the subwoofer.
- AV : Outputs audio not affected by audio controls. Is set when connected to a rear monitor.

SYNC (Synchronize Clock)

Synchronizes time data sent from an RDS station with the unit's built-in clock. Synchronization takes 3 to 4 minutes.

ZONE2

Sets the output source (front speaker or rear speaker) for the sub source (built-in AUX input or DVD) when the dual zone function is ON.



When the unit fails to operate correctly, the cause of the failure appears on the display.

TOC ERR/READ ERR:

- · Disc is unusually dirty.
- · Disc has many scratches.
- · Disc is upside down.
- The tray is not in the disc changer.
- There is no disc in the disc changer.

E-05:

Disc is upside down.

E-15:

The disc you want to play does not include files that can be played by this unit.

EJECT :

- · Disc magazine has not been set.
- · Disc magazine is not completely inserted.
- No disc is loaded in this unit.
- Etc

NO DISC :

Disc magazine does not contain even a single disc.

REG ERR:

The disc you wanted to play has a region code that cannot be played with this unit.

PAR ERR:

The disc you wanted to play has a higher level than the parental level you set.

The following messages appear to inform you of the status of the system.

PRK OFF :

Source for displaying video is selected while car is traveling.

 Video will be displayed when the car is stopped and the parking brake has been engaged.

CODE ----:

Request to enter security code.

E-07-67/E-77:

- Is not operating correctly due to some reason or other.
- ➡ Push the unit's Reset button. If the "E-07–67"/"E-77" message does not disappear, see your nearest Kenwood dealer.

HOT ERR :

When the internal temperature of this unit rises to 60°C or more, the protection circuit is activated and you may not be able to operate the unit. At such times this message will appear.

→ Use the unit again after reducing the temperature inside the vehicle.

HOLD :

Activation of the protective circuit when the temperature inside the disc changer is higher than 60 degrees Celsius stops the disc changer from operating. At such times this message will appear.

→ Use when the temperature at the site where the disc changer has been fitted has dropped.

IN indicator flashes :

- DVD player is not operating correctly.
- ➡ Remove the DISC and insert it again.

E-09/ E-19/ E-99 :

Is not operating correctly due to some reason or other.

Press the [▲] (Eject) button. If the message does not disappear even after pushing the Eject button, push the unit's Reset button. If the message still does not disappear, contact your nearest Kenwood dealer.

LOAD (Flashes) :

Discs are currently being changed inside the disc changer.

READING (Flashes) :

Data on the disc is currently being checked.

PROTECT (Flashes) :

Protective circuit has been activated because a speaker cord has shorted or it has come in contact with the car chassis.

→ Wire or insulate the speaker cord as appropriate and then push the Reset button.

DEMO MODE :

The unit is currently in Demonstration mode. This mode shows the unit's functions on the display. To cancel turn the Demonstration mode OFF.

DVD language codes

and and

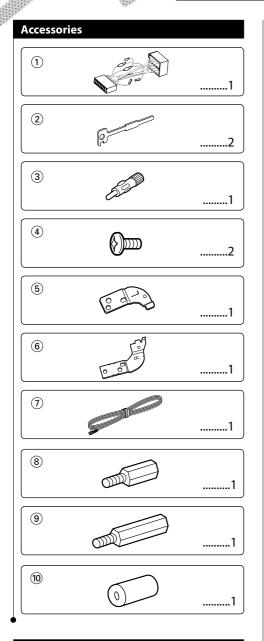
Code	Language	
аа	Afar	
ab	Abkhazian	
af	Afrikaans	
am	Amharic	
ar	Arabic	
as	Assamese	
ау	Aymara	
az	Azerbaijani	
ba	Bashkir	
be	Byelorussian	
bg	Bulgarian	
bh	Bihari	
bi	Bislama	
bn	Bengali, Bangla	
bo	Tibetan	
br	Breton	
са	Catalan	
C0	Corsican	
CS	Czech	
су	Welsh	
da	Danish	
de	German	
dz	Bhutani	
el	Greek	
en	English	
eo	Esperanto	
es	Spanish	
et	Estonian	
eu	Basque	
fa	Persian	
fi	Finnish	
fj	Fiji	
fo	Faroese	
fr	French	
fy	Frisian	
ga	Irish	
gd	Scots Gaelic	
gli	Galician	
gn	Guarani	
gu gu	Gujarati	
yu ha	Hausa	
he	Hebrew	
hi	Hindi	
hr		
	Croatian	
hu	Hungarian	
hy	Armenian	
ia	Interlingua	
ie	Interlingue	
ik	Inupiak	
id	Indonesian	

Code		
is	Language	
it	Icelandic	
	Italian	
ja	Japanese	
jv	Javanese	
ka	Georgian	
kk	Kazakh	
kl	Greenlandic	
km	Cambodian	
kn	Kannada	
ko	Korean	
ks	Kashmiri	
ku	Kurdish	
ky	Kirghiz	
la	Latin	
lb	Luxembourgish	
In	Lingala	
10	Laotian	
lt	Lithuanian	
V	Latvian, Lettish	
mg	Malagasy	
mi	Maori	
mk	Macedonian	
ml	Malayalam	
mn	Mongolian	
mo	Moldavian	
mr	Marathi	
ms	Malay	
mt	Maltese	
my	Burmese	
na	Nauru	
ne	Nepali	
nl	Dutch	
no	Norwegian	
0C	Occitan	
om	(Afan) Oromo	
or	Oriya	
ра	Punjabi	
pl	Polish	
ps	Pashto, Pushto	
pt	Portuguese	
qu	Quechua	
rm	Rhaeto-Romance	
m	Kirundi	
ro	Romanian	
ru	Russian	
rw	Kinyarwanda	
sa	Sanskrit	
sd	Sindhi	
sq	Sangho	
sh	Serbo-Croatian	
511	Scibo Civatian	

Code	Language
si	Singhalese
sk	Slovak
sl	Slovenian
sm	Samoan
sn	Shona
SO	Somali
sq	Albanian
sr	Serbian
SS	Siswati
st	Sesotho
su	Sundanese
SV	Swedish
SW	Swahili
ta	Tamil
te	Telugu
tg	Tajik
th	Thai
ti	Tigrinya
tk	Turkmen
tl	Tagalog
tn	Setswana
to	Tongan
tr	Turkish
ts	Tsonga
tt	Tatar
tw	Twi
uk	Ukrainian
ur	Urdu
UZ	Uzbek
vi	Vietnamese
VO	Volapuk
W0	Wolof
xh	Xhosa
уо	Yoruba
zh	Chinese
ZU	Zulu

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Accessories/ Installation Procedure



Installation Procedure

- 2. Make the proper input and output wire connections for each unit.
- 3. Connect the wire on the wiring harness.
- 4. Take Connector B on the wiring harness and connect it to the speaker connector in your vehicle.
- 5. Take Connector A on the wiring harness and connect it to the external power connector on your vehicle.
- 6. Connect the wiring harness connector to the unit.
- 7. Install the unit in your car.
- 8. Reconnect the \bigcirc terminal of the battery.
- 9. Press the reset button.



- If the power is not turned ON (or it is ON, but will be OFF immediately), the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- If your car is not prepared for this special connectionsystem, consult your Kenwood dealer.
- Only use antenna conversion adapters (ISO-JASO) when the antenna cord has an ISO plug.
- Make sure that all wire connections are securely made by inserting jacks until they lock completely.
- If your vehicle's ignition does not have an ACC position, or if the ignition wire is connected to a power source with constant voltage such as a battery wire, the power will not be linked with the ignition (i.e., it will not turn on and off along with the ignition). If you want to link the unit's power with the ignition, connect the ignition wire to a power source that can be turned on and off with the ignition key.
- If the fuse blows, first make sure that the wires have not caused a short circuit, then replace the old fuse with one with the same rating.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent short circuits, also do not remove the caps on the ends of the unconnected wires or the terminals.
- After the unit is installed, check whether the brake lamps, indicators, wipers, etc. on the car are working properly.
- If the console has a lid, make sure to install the unit so that the faceplate does not hit the lid when closing and opening.
- Mount the unit so that the mounting angle is 30° or less.

Connections

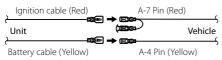
Connecting the ISO Connector

The pin arrangement for the ISO connectors depends on the type of vehicle you drive. Make sure to make the proper connections to prevent damage to the unit.

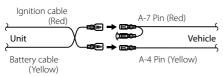
The default connection for the wiring harness is described in 1 below. If the ISO connector pins are set as described in 2 or 3, make the connection as illustrated.

Please be sure to reconnect the cable as shown 2 below to install this unit to the **Volkswagen** vehicles etc.

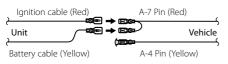
 (Default setting) The A-7 pin (red) of the vehicle's ISO connector is linked with the ignition, and the A-4 pin (yellow) is connected to the constant power supply.



The A-7 pin (red) of the vehicle's ISO connector is connected to the constant power supply, and the A-4 pin (yellow) is linked to the ignition.

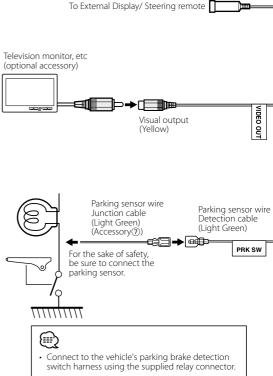


3 The A-4 pin (yellow) of the vehicle's ISO connector is not connected to anything, while the A-7 pin (red) is connected to the constant power supply (or both the A-7 (red) and A-4 (yellow) pins are connected to the constant power supply).



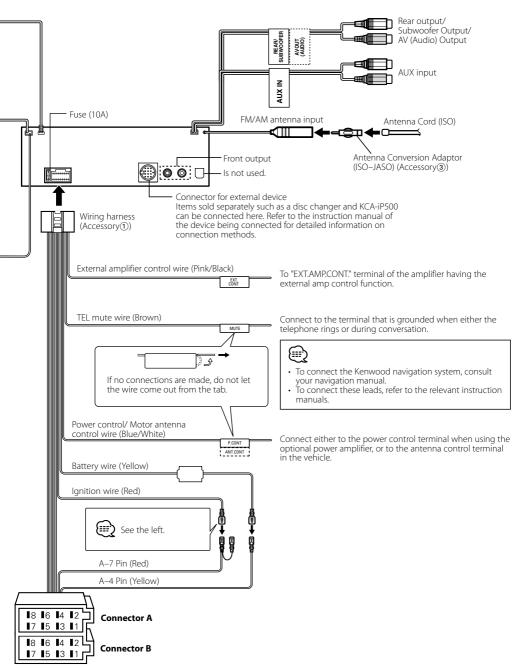
 When the connection is made as in 3 above, the unit's power will not be linked to the ignition key. For that reason, always make sure to turn off the unit's power when the ignition is turned off.

To link the unit's power to the ignition, connect the ignition cable (ACC...red) to a power source that can be turned on and off with the ignition key.



Connector Function Guide

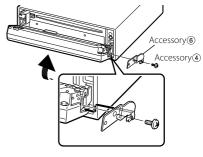
Pin Numbers for ISO Connectors	Cable Colour	Functions
External Power		
Connector		
A-4	Yellow	Battery
A-5	Blue/White	Power Control
A-6	Orange/White	Dimmer
A-7	Red	Ignition (ACC)
A-8	Black	Earth (Ground)
		Connection
Speaker Connector		
B-1	Purple	Rear Right (+)
B-2	Purple/Black	Rear Right (–)
B-3	Gray	Front Right (+)
B-4	Gray/Black	Front Right (–)
B-5	White	Front Left (+)
B-6	White/Black	Front Left (–)
B-7	Green	Rear Left (+)
B-8	Green/Black	Rear Left (–)



Installation

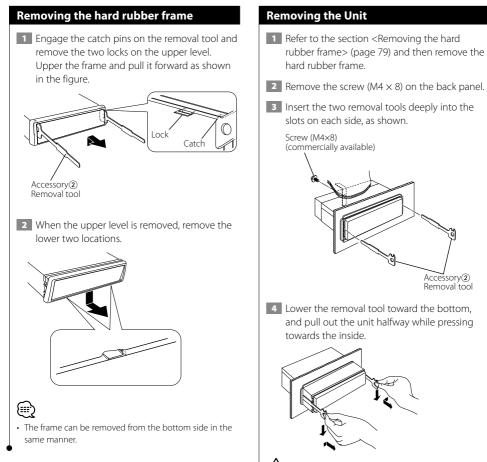
Screwing the Faceplate on the Unit Installation If you want to fasten the faceplate to the main Bend the tabs of the mounting sleeve with a screwdriver or similar utensil and attach it in place. unit so that it does not fall off. Accessorv(10) 1 Refer to the section < Removing the hard Rubber Bush rubber frame> (page 79) and then remove the hard rubber frame. 2 Drop open the faceplate by pressing the Release button. Firewall Accessory (8) 9 Attachment screw When the space between the unit and Firewall is narrow Unit Firewall 3 Tighten the screw (\emptyset 2 × 5 mm) (Accessory(4)) Accessory(8) Accessorv(10) and bracket (Accessory (5)) in the hole shown Attachment screw Rubber Bush on the diagram. • When the space between the unit and Firewall is wide Unit Firewall Accessorv(5 Accessory(9) Accessory(4) Accessory(10) Attachment screw Rubber Bush (iiii) · Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (for example, the sound may skip).

4 Tighten the screw (ø2 × 5 mm) (Accessory(4)) and bracket (Accessory(6)) in the hole shown on the diagram.



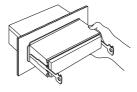
\wedge

 Never insert the screws in any other screw hole than the one specified. If you screw them in another hole, it will contact and may cause damage to the mechanical parts inside the unit.



$\underline{\wedge}$

- Be careful to avoid injury from the catch pins on the removal tool.
- **5** Pull the unit all the way out with your hands, being careful not to drop it.



Specifications

FM tuner section

 Frequency Range (50 kHz)

 : 87.5 MHz - 108.0 MHz

 Usable Sensitivity (S/N : 26 dB)

 : 0.7 μV/75 Ω

 Quieting Sensitivity (S/N : 46 dB)

 : 1.6 μV/75 Ω

 Frequency Response (± 3.0 dB)

 : 30 Hz - 15 kHz

 S/N

 : 65 dB (MONO)

 Selectivity (DIN) (dB)

 : ≥ 80 dB (± 400 kHz)

 Stereo Separation

 : 35 dB (1 kHz)

MW tuner section

 $\label{eq:states} \begin{array}{l} \mbox{Frequency Range (9 kHz)} \\ : 531 \mbox{ kHz} - 1611 \mbox{ kHz} \\ \mbox{Usable Sensitivity (S/N : 20dB)} \\ : 25 \mbox{ } \mu V \end{array}$

LW tuner section

Frequency Range : 153 kHz – 281 kHz Usable Sensitivity (S/N : 20dB) : 45 μ V

DVD player section

D/A Converter

: 24 bit

Decoder

: Linear PCM/ Dolby Digital/ dts/ MP3/ WMA

Wow & Flutter

: Below Measurable Limit

Frequency Response

Sampling frequency; 96 kHz : 20 – 44,000 Hz Sampling frequency; 48 kHz : 20 – 22,000 Hz Sampling frequency; 44.1 kHz : 20 – 20,000 Hz

Total Harmonic Distortion

: 0.008 % (1 kHz) S/N Ratio (dB)

: 100 dB (1 kHz)

Dynamic Range : 96 dB

Sampling frequency : 32/ 44.1/ 48/ 96 kHz

Quantifying bit number : 16/ 20/ 24 bit

MP3 Decode

: Compliant with MPEG-1/2 Audio Layer-3

WMA Decode

: Compliant with Windows Media Audio

Audio section

Preout Level/Load : 2500 mV/10 kΩ (CD/CD-CH) Video Out Level/Load : 1 Vp-p /75 Ω Preout Impedance : ≤ 600 Ω Speaker Impedance :4-8Ω Maximum output power $:50 \text{W} \times 4$ Output power (DIN45324, +B = 14.4 V) $:30 \text{W} \times 4$ Tone action Bass : 100 Hz ± 8 dB Middle : 1 kHz ± 8 dB Treble : 10 kHz ± 8 dB

General

 $\begin{array}{l} \textbf{Operating voltage} \\ : 14.4 \ V (11 - 16 \ V \ allowable) \\ \textbf{Current Consumption} \\ : 10 \ A \\ \textbf{Installation Size (W \times H \times D)} \\ : 182 \times 53 \times 155 \ mm \\ \textbf{Weight} \\ : 1.4 \ kg \end{array}$

AUX input

Frequency Response (±1 dB) : 20 Hz – 20 kHz Input Maximum Voltage : 1200 mV Input Impedance

: 100 kΩ

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http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com