KENWOOD

ADVANCED INTEGRATION A/V CONTROLLER KOS-V500 INSTRUCTION MANUAL

Kenwood Corporation





Take the time to read through this instruction manual. Familiarity with installation and operation procedures will help you obtain the best performance from your new Advanced Integration A/V Controller system.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your Kenwood dealer for information or service on the product. Model KOS-V500 Serial number ______

US Residence Only

Register Online

Register your Kenwood product at **www.Kenwoodusa.com**

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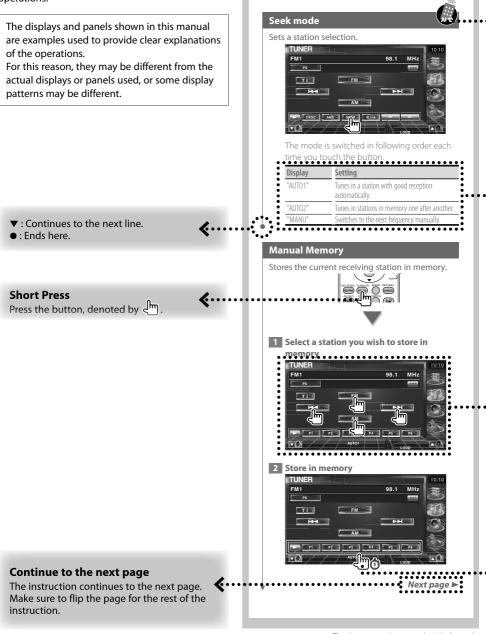
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How to read this manual

This manual uses illustrations to explain its operations.



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.

If the optional monitor, KOS-L702 is connected to this unit, you can operate this unit by simply touching the buttons on the screen.

Change in the screen

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

Selecting a screen item

Select and choose an item on the screen. Selects the item denoted by during the cursor keys and confirms the selection with the [ENTER] key.





If KOS-L702 is connected, you can press the button on the screen.

Press 1 second or more

Press the button, denoted by (), 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.

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.



The initial value of each setup is shown.

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.
- Do not watch or fix your eyes on the unit's display when you are driving for any extended period.
- Mounting and wiring this product requires skills and experience. For safety's sake, leave the mounting and wiring work to professionals.

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.
- 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 use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.

About disc changers connected to this unit

Kenwood disc changers 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.

Note that any Kenwood disc changers released in 1997 or earlier and disc changers made by other makers cannot be connected to this unit.

Connecting unsupported disc changers to this unit may result in damage.

Set the "O-N" Switch to the "N" position for the applicable Kenwood disc changers.

The functions you can use and the information that can be displayed may differ depending on the models being connected.

$\underline{\wedge}$

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

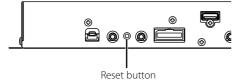


Notes

- When you purchase optional accessories, check with your Kenwood dealer to make sure that they work with your model and in your area.
- We recommend the use of <Security Code Setup> (page 68) to prevent theft.
- The characters conforming to ISO 8859-1 character set can be displayed.
- The RDS or RBDS 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.

How to reset your unit

- If the unit fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed.
- Remove the USB device before pressing the Reset button. Pressing the Reset button with the USB device installed can damage the data contained in the USB device. For how to remove the USB device, refer to <Playing a USB device> (page 12).
- Press the reset button if the disc auto changer fails to operate correctly. Normal operation should be restored.



TV tuner that can be connected to this unit

- KTC-V500N
- KTC-V300N

Navigation units that can be connected to this unit

- KNA-G510
- KNA-DV4100
- KNA-DV3100
- KNA-DV2100

About iPod that can be connected to this unit

You can control an iPod from this unit by connecting an iPod (commercial product) with Dock connector using an optional accessory iPod connection cable (KCA-iP300V).

The following iPods can be controlled from this unit.

Controllable iPod	Software version
iPod nano	iPod nano software 1.2
iPod nano second generation	iPod nano software 1.1.1
iPod with video	iPod software 1.2

You must update your iPod software if its version is less than the above.

The iPod software version is displayed in the "Version" field by pressing the iPod MENU button and then selecting "Setting", "About". The latest iPod software updater can be downloaded from the Apple Inc. web site.

The character set supported by this unit is ISO 8859-1. Characters that cannot be displayed correctly appear as "?".

By connecting your iPod to this unit with an optional accessory iPod connection cable (KCA-iP300V), you can supply power to your iPod as well as charge it while playing music. However, the power of this unit must be on.

About Audio files

Playable Audio file
 AAC-LC (.m4a), MP3 (.mp3), WMA (.wma)

Playable AAC file

".m4a" file encoded by AAC-LC format. Transfer bit rate: 16–320 kbps Sampling frequency: 16 – 48 kHz

Playable MP3 file

MPEG 1/2 Audio Layer 3 file Transfer bit rate: 8–320 kbps Sampling frequency: 8 – 48 kHz

Playable WMA file

The file in accordance with Windows Media Audio (Except for the file for Windows Media Player 9 or after which applies the new functions) Transfer bit rate: 48 –192 kbps Sampling frequency: 32, 44.1, 48 kHz

• Limitation of structure for the file and the folder

Maximum number of files per playlist: 7000

- Playable USB device USB mass storage class, iPod with KCA-iP300V
- Playable USB device file system FAT16, FAT32
- About the Connection of the USB device If an extension cable is needed for USB device

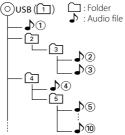
connection, usage of the CA-U1EX (option) is recommended.

Normal playback is not guaranteed when a cable other than the USB compatible cable is used. Connecting a cable whose total length is longer than 5 m can result in abnormal playback.

Although the audio files are complied with the standards listed above, the play maybe impossible depending on the types or conditions of media or device.

• Playing order of the Audio file

In the example of folder/file tree shown below, the files are played in the order from to



Audio files are played in the order the files are written. You can specify the order of playback by numbering files in a folder and writing them by folder.

- In this manual, the word "USB device" is used for flash memories and digital audio players which work as massstorage-class devices.
- "iPod" in this manual refers to iPod connected with KCAiP300V (Optional accessory). iPod connected with KCAiP300V can be controlled from this unit. iPods that can be connected to KCA-iP300V are iPod nano and iPod with video. If you connect an iPod with commercially available USB cable, it is treated as a mass storage class device.
- For the supported formats and types of USB device, refer to www.kenwood.com/usb/.
- Attach the correct extension for the Audio file (AAC: ".M4A", MP3: ".MP3", WMA: ".WMA")
- Do not attach the extensions to files other than the Audio file. If the extension is attached, the file, which is not the Audio file, will play and outputs a loud noise, causing damage to the speaker.
- The files with copy protection cannot be played.
- The unit may not be compatible with upgrade of compression format standard and additional specifications.
- File/Folder name is the number of the characters including the extensions.
- This unit can display the following versions of MP3 ID3 tag: version 1.0/ 1.1/ 2.2/ 2.3
- AAC ID3 Tag cannot be displayed.
- Contact the sales agent as to whether your USB device conforms to the USB mass storage class specs.
- Using an unsupported USB device can result in abnormal playback or display of the audio file.
 Even if you use the USB device conforming to the above specs, audio files cannot be played normally depending on the type or condition of the USB device.
- Do not leave the USB device in the vehicle for a long time.
 It can deform or damage due to direct sunlight, high temperature, etc.

About Picture files

Acceptable picture files

- Format: JPEG
- Baseline format:

Up to a maximum of 8192(W) × 7680(H) pixels • Progressive format:

Up to a maximum of $1600(W) \times 1200(H)$ pixels

- Enlarges and reduces images up to the size shown above to fit to 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

About USB device

- Install the USB device in the place where it will not prevent you from driving your vehicle properly.
- You cannot connect a USB device via a USB hub.
- Take backups of the audio files used with this unit. The files can be erased depending on the operating conditions of the USB device.
 We shall have no compensation for any damage arising out of erasure of the stored data.
- No USB device comes with this unit. You need to purchase a commercially available USB device.

System start up setting

You need to go through the setup for AV-IN, Inner AMP, and Tuner source when the unit is installed or the reset button is pressed.

1 Start system start up



2 Setup each item



Set up by referring to <AV Interface Setup> (page 60).





Set up by referring to <System Setup> (page 60).

3 Returns to the original screen





Basic Operations

Turning ON the Power

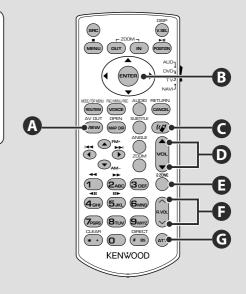
Turn on the car ignition key.

Turning OFF the Power

Turn off the car ignition key.



• When KOS-L702 is connected to this unit, the power switch of KOS-L702 can also be used.



Common operations (AUD mode)

B

Cursor key

Moves the cursor when displaying menu.

ENTER

G

A

Enters options.

D Adjusts the volume

Attenuates the volume

Press it again to cancel muting.

Switches AV OUT source

Switches the source that is output at the AV OUTPUT terminal when it is pressed.

Rear volume control

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

e

F

Switches the Dual Zone function ON and OFF.

G

Hands-free communication

Enters the dialing method selection mode. When a call comes in, it answers the call.

\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

Use two "AAA"/"R03"-size batteries. Slide the cover while pressing downwards to remove it as illustrated.

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

 If the Remote Controller operates only over shorter distances or does not operate at all, it is possible that the batteries are depleted. In such instances, replace the both batteries with new ones.

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 POSITION or a CD changer etc. DVD mode Switch to this mode when playing DVD player unit. TV mode This is switched when NAVI controlling TV. IO RETURN NAVI mode CANCEL This is switched when

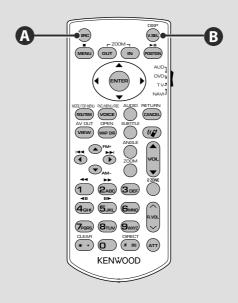
 \square

• The position of the remote control mode switch is indicated in the title of each mode, e.g., "(AUD mode)".

controlling Navigation unit.

• When controlling a player that is not integrated in the unit, select "AUD" mode.

Next page ►



Common operations (AUD mode)

Playing a USB device

When connecting a USB device, playback starts automatically.



/1\

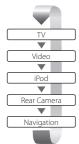
Removing the USB device

Press even on the USB control screen to enter the USB suspend mode, and then remove the USB device. Refer to <USB Device Control> (page 18).

- Removing the USB device before entering the USB suspend mode may result in damaging the data in the USB device.
- If the USB source is selected when a USB device is not connected, "No Device" is displayed.
- When the playback is stopped and then restarted, the playback will start from the point where it was stopped at the last time. Even if the USB is removed and connected again, the playback will start from the last stopped point unless the contents in the USB device is changed.
- · Make sure that the USB device is connected firmly.

Switches the video source

The video source switches in the following order each time you press the button.



(;;;)

A

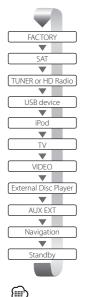
В

When you press the button again, the previous video display comes back on.

- The Rear view camera video is displayed when the vehicle's gear is in "Reverse".
- Set the "NAVIGATION" of the <AV Interface Setup> (page 60) to "RGB"/"AV-IN" to display the Navigation video.

Switches the audio source

The audio source is switched in the following order each time you press the button.



Switches to the audio source of your car.

Receives FM/AM broadcast. (page 24)

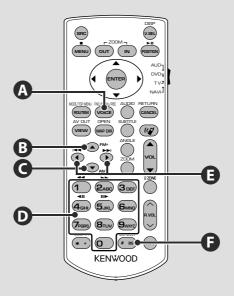
Plays back the disc inserted in an external player, such as a CD changer (optional accessory). (page 21)

Outputs a sound signal input to the external AUX terminal (optional accessory).

Although nothing is played back, the clock etc are displayed.

- You cannot switch to a source that is not connected or inserted.
- It is necessary to set "NAVIGATION Source" of <AV Interface Setup> (page 60) to "On" to add Navigation as an audio source that can be selected with the [SRC] key.

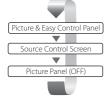
Next page ►



Common operations (AUD mode)

Switches the function screen

The function control screen switches in the following order each time you press the button.



A

The following buttons are always displayed on the source control screen.



- 1 Displays the Source Select screen. (page 45)
- 2 Returns to the Source Control screen.
- 3 Displays the Audio Control Menu screen. (page 74)
- 4 Displays the SETUP Menu screen. (page 58)
- 5 Adjusts the Volume.
- 6 Clock display

• Touch C displayed at bottom right of various screens to return to the original screen.

(;;;)

Audio files (AUD mode)

BG

Folder search

Selects the folder to be played.

Track search and file search

Selects the track or file to be played.

Radio (AUD mode)

BC

Band switching

Switches to bands received by the unit.

DG

Direct tuning

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

0

Station selection

Ε

unit.

Numeric keypad

Switches to broadcast stations received by the

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

TV (TV mode)

Switching Band/Video

Switches between the station of the TV band to receive and video input.

ÐÐ

Direct tuning

Press this key first, and then specify the station to receive with the numeric keypad.

Example: In case of Channel 6 (2-digit)

0 6mm

Channel Selection

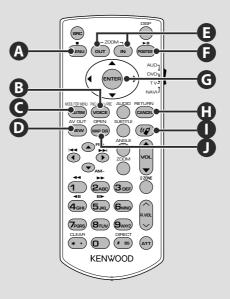
Selects the TV channel to be received.

0

Numeric keypad

- The number of the memorized station is selected. (1 6mp)
- Press the direct tuning key first, then specify the channel of the station to receive.

Next page ►



NAVI (NAVI mode)

G C Joystick ROUTEM Scrolls the map, or moves the cursor. Displays Route Option menu. G D ENTER VIEW Performs the selected function. Switches between 2D and 3D map displays. B B VOICE ZOOM Zooms in or out the navigation map. Plays Voice guidance. A MENU MAP DIR Displays Main menu. Switches between the heading up navigation and north up navigation map displays.

Displays previous screen.

D POSITION

Displays the current position.

Hands-free communication

Π

Enters the dialing method selection mode. When a call comes in, it answers the call.

USB Device Control

You can control and listen to songs in your USB device by simply connecting it to the USB connector of this unit.

• For the connection of a USB device, refer to <Basic Operations> (page 12).

Functions when Displaying the Easy **Control Panel** Displays a floating control panel in the screen. USE 0-00 1 Switches the source. 2 Selects a folder. (Only in Folder Select Mode) 3 Selects a file. 4 Plays or pause. 5 Display the Screen Control screen. (see <Screen Control> (page 49)) 6 Displays the external device control screen. See < External Device Power Supply Control> (page 46). The Easy Control Panel display is hidden when you touch a central area of the monitor.

Functions while displaying the Control Screen

Switches to control screen to use various playback functions.









- Music information display Selects Folder Name, File Name, TItle, Artist Name, or Album Name. When is appeared, the text display is scrolled by pressing it.
 Removes the USB device.
- 2) Removes the USB device.
 When "No Device" is shown, the USB device can be removed safely.
 If you wish to play it again while the USB device is connected, press it again.



- 4 Selects a file.
- 5 Plays or pauses.
- 6 Switches the button display.
- [7] Starts or stops Scan Play (that plays the beginning of each music one after the other).
- 8 Repeats to play (the present music).
- Starts or stops Random Play (to play music in random order). (Only in Folder Select Mode)*
- Switches the number of lines displayed in the Information Display.
- 11 Track (Music) Number Display
- 12 Play Mode Display
- 13 Play Time Display



Repeats to play the music or data of the present folder. (Only in Folder Select Mode)





- 15 Displays the folder list. Refer to <Folder Select> (page 20).
- Displays the list of category. Refer to <USB List> (page 19).
- 17 Displays information screen of music being played.
- IB Displays the external device control screen. See <External Device Power Supply Control> (page 46).



Disable during play list mode.

USB List

Lists and searches music contained in the USB device.

1 Display the Category List



2 Select a category

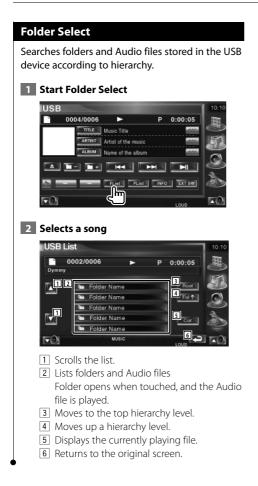


1 Returns to the original screen.

3 Select music



- 2 Switches to the lower level of the category.
- 3 Lists all the music in the selected category.
- 4 Moves to the upper level of the category.
- 5 Moves to the top category.
- 6 Displays the currently playing category. (Only in Category Mode)
- 7 Returns to the original screen.



Music Disc Listening

You can recall various control screens during Disc Changer playback.

Functions When Displaying the Easy Control Panel

Displays a floating control panel in the screen.

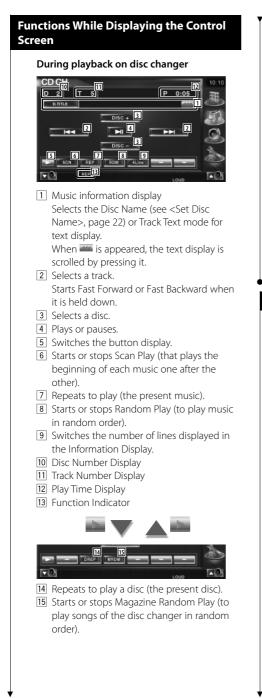


During playback on disc changer



- 1 Switches the source.
- 2 Selects a disc.
- Selects a music.
 When you continue to touch button: Fast Forwards or Fast Backwards.
- 4 Plays or pauses.
- 5 Displays the Screen Control screen. (page 49 for the <Screen Control>)
- Displays the external device control screen. See <External Device Power Supply Control> (page 46).

The Easy Control Panel is hidden when you touch a central part of the monitor.





- 16 Sets a name to the disc being played. (page 22)
- 17 Displays a list of discs in the Disc changer and allows you to select the disc to listen. See <Disc Select> (page 23).
- 18 Displays the external device control screen. See <External Device Power Supply Control> (page 46).



- The functions that can be used and the information that can be displayed will differ depending on the models being connected.
- The information shown will be different depending on the Disc Changer being used.

Set Disc Name

Assigns a name to a CD.

Play a CD you wish to name

2 Start Name set



3 Enter the name

See <Character Entry> (page 48) for information on how to enter a name.



4 End Name set



Disc Select

Displays a list of discs in the Disc changer and allows you to select the disc to listen.

1 Start Direct Select



2 Select a Disc



- 1 Scrolls the list.
- 2 Lists the discs. Plays when touched.
- 3 Switches the list name to Disc name or Disc Text.
- 4 Returns to the original screen.

Direct Search

Searches for a disc or a track when its number is entered.

During play on an external in disc changer

1 Enter a disc or track number



2 Search

When searching for a track:



When searching for a disc:





• The operation ends automatically if you do not operate within 10 seconds.

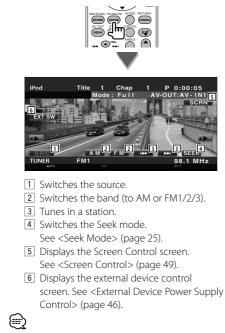
Radio Listening

Various control screens appear in the Tuner Source mode.

- For the basic method of receiver button operations, refer to <Basic Operations> (page 10).
- Set the remote controller mode switch to "AUD" mode before starting operation, refer to <Remote Controller mode switch> (page 11).

Functions When Displaying the Easy Control Panel

Displays a floating control panel in the screen.



• The Easy Control Panel is hidden when you touch a central part of the monitor.

Functions While Displaying the Control Screen

Switch to control screen to use various functions.





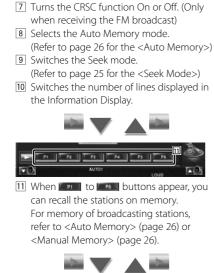




- 1 Radio station information display. Selects the Program Service Name, Title, Artist name, Station Name, Category Name 1/2, or Radio Text.
- 2 Turns the Traffic Information function On or Off.

See <Traffic Information>, (page 29).

- 3 Switches to the FM1/2/3 band.
- 4 Switches to the AM band.
- Tunes in a station.
 Use the <Seek Mode> (page 25) to change the frequency switching.



6 Switches the button display.



- 2 Sets a name to the station. See <Set Station Name> (page 28).
- Searches station by program type. See
 <Search for Program Type> (page 29).
- Lists and selects memorized station. See <Preset Select> (page 27).
- 15 Displays Radio Text screen. See <Radio text> (page 27).
- IE Displays the external device control screen. See <External Device Power Supply Control> (page 46).

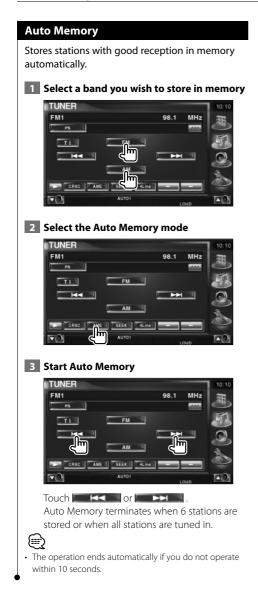
Seek Mode

Sets a station selection.



The mode is switched in following order each time you touch the button.

Display	Setting
"AUTO1"	Tunes in a station with good reception automatically.
"AUTO2"	Tunes in stations in memory one after another.
"MANU"	Switches to the next frequency manually.



Manual Memory

Stores the current receiving station in memory.

1 Select a station you wish to store in memory



2 Store in memory



Continue to touch until the memory number appears.

Preset Select

Lists and selects memorized station.

1 Start Preset Select



2 Selects a station



- 1 Scrolls the list.
- 2 Memorized stations are displayed. Touch to tune in.
- 3 Switches the list display name to Station name or Program Service Name.
- 4 Returns to the original screen.

Radio Text

You can display the radio text. (Only when receiving the FM broadcast).

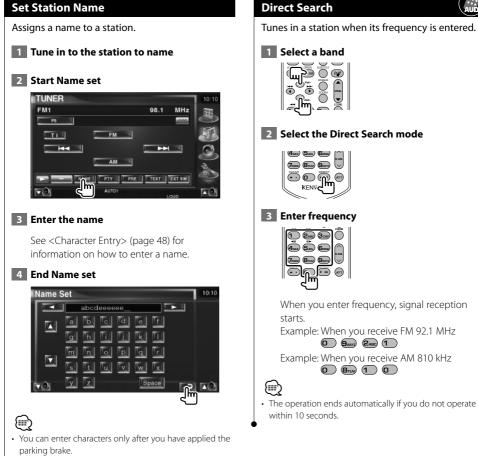


2 Display the radio text

TUNER			10:10
FM1	98.1	MHz	-
P3		100	9
TI FM			33
He	H	F	0
AM			A
		EXT SW	Ŷ
	ł	SUD	10

FM1		98.1	MHz	38.
Radi	o Text Plus: on Name:			101
•0J	AUTO1		3.	j FO

- Select the Program Service Name, Title & Artist name, Station Name, Category 1/2, or Radio Text for text display.
 When a present display is scrolled by pressing it.
- 2 Scrolls the Radio text plus display.
- 3 Returns to the original screen.





Traffic Information

When a traffic bulletin starts, any source is switched to the traffic information and it is displayed automatically.

1 Set the Traffice information mode



When the traffic bulletin starts...

The Traffic Information screen appears automatically.

Traffic Information screen



- It is necessary to have Traffic Information function set to On in order to have the Traffic Information screen appear automatically.
- During reception of traffic information the adjusted volume is automatically remembered, and the next time it switches to traffic information it's automatically the remembered volume.

Search for Program Type

A program is tuned when you set its program type. (Only when receiving the FM broadcast)

1 Enter Program Type mode

TUNER			10:10
FM1	98.1	MHz	- 33
PS		addda	
TI FM			J.
H		1	0
AM			4
	TEXT	EXT SW	٩
		oup	INDI

2 Select a Program Type



- 1 Program Type is displayed. Touch to select a Program Type.
- 2 Scrolls the Program Type list.
- Search for the program type.
 It is displayed when the Program type is selected.
- 4 Continue to touch more than 2 seconds, the currently receiving station is registered to have the selected program type.
- 5 Returns to the original screen.

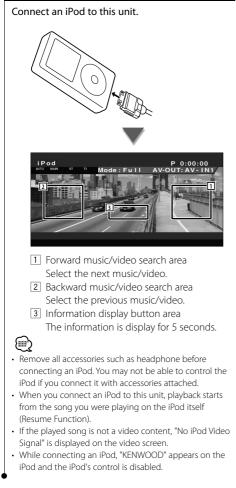
3 Searches station of the selected Program Type



iPod Control

You can control and listen to songs in your iPod by connecting iPod with video or iPod nano to this unit with KCA-iP300V (optional accessory). You can also display video contents on this unit when connecting an iPod with video.

Connecting an iPod



Functions When Displaying the Easy Control Panel

Displays a floating control panel in the screen.







- 1 Switches the source.
- 2 Fast Forward or Fast Backward.
- 3 Music/Video Search.
- 4 Plays or pause.
- Display the Screen Control screen. (Refer to<Screen Control> (page 49))
- Displays the external device control screen. See <External Device Power Supply Control> (page 46).



The Easy Control Panel display is hidden when you touch a central area of the monitor.

Functions While Displaying the Control Screen

Switches to control screen to use various playback functions.











- Music/Video Information Display Selects the Title, Artist Name, Album Name or iPod Name.
 When is appeared, the text display is scrolled by pressing it.
- 2 Fast Forward or Fast Backward.
- 3 Select Music/Video.
- 4 Plays or pause.
- 5 Switches the button display.

- 6 Starts or stops Scan Play (that plays the beginning of each music or video one after the other).
- 7 Repeats to play (the preset files or data).
- 8 Starts or stops Random play.*
- 9 Total number of music in the iPod and the music number display
- 10 Play Mode Display
- 11 Play Time Display



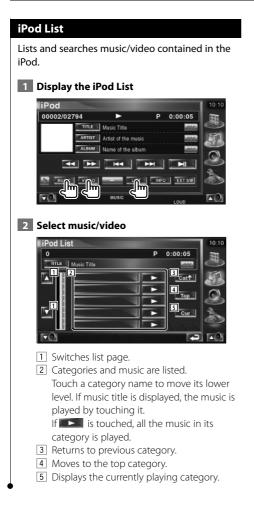
12 Starts or stops Album Random Play (plays randomly from current album).*



- 13 Display the list of music category. See <iPod List> (page 32).
- Display the list of video category.See <iPod List> (page 32).
- Displays the previous music/video list. See <iPod List> (page 32).
- Displays information screen of music/video being played.
- Displays the external device control screen. See <External Device Power Supply Control> (page 46).



* Disable when video is being played.



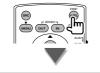
TV Watching

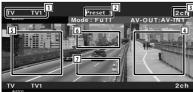
Various control screens appear in the TV Source mode. (You can only operate TV with the optional accessory TV Tuner connected.)

Functions During TV Screen

Basic functions are available even when the TV screen is displayed.

Display the TV screen





- 1 TV Band Number Display
- 2 Memory Number Display
- 3 Channel Number Display
- Channel Up Area Increase the channel. Use the <Seek Mode> (page 34) to change the channel tuning sequence.
- 5 Channel Down Area Decrease the channel. Use the <Seek Mode> (page 34) to change the channel tuning sequence.
 6 Band Switch Area
- Switches to TV1 or TV2.
- For TV picture selection and receiver button operations, see <Basic operations> (page 10).
- The information display is cleared automatically after approximately 5 seconds. Also, the information can be displayed automatically when it is updated.

Functions When Displaying the Easy Control Panel

Displays a floating control panel in the screen.



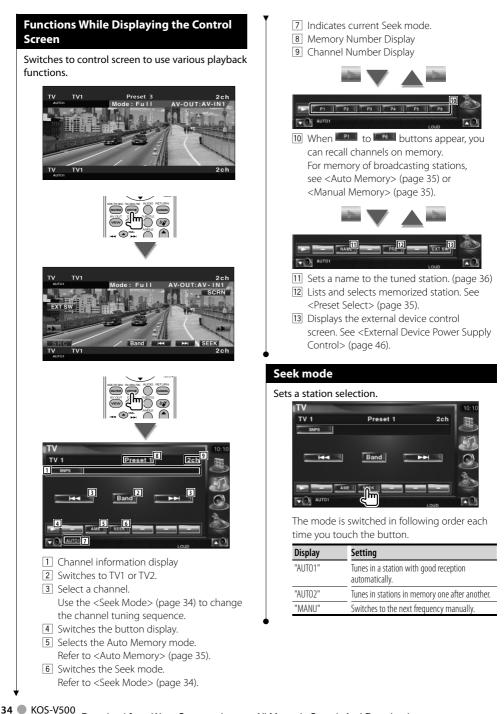


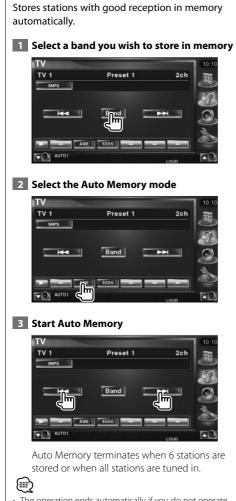


- 1 Switches the source.
- 2 Switches the TV band (to TV1 or TV2).
- Select a channel.
 Use the <Seek Mode> (page 34) to change the channel tuning sequence.
- Switches the Seek mode.(page 34 for the <Seek Mode>)
- 5 Displays the Screen Control screen. (page 49 for the <Screen Control>)
- Displays the external device control screen.
 See <External Device Power Supply Control> (page 46).



• The Easy Control Panel display is hidden when you touch a central area of the monitor.





Auto Memory

• The operation ends automatically if you do not operate within 10 seconds.

Manual Memory

Stores the current receiving channel in memory.

Select a station you wish to store in memory



2 Store in memory



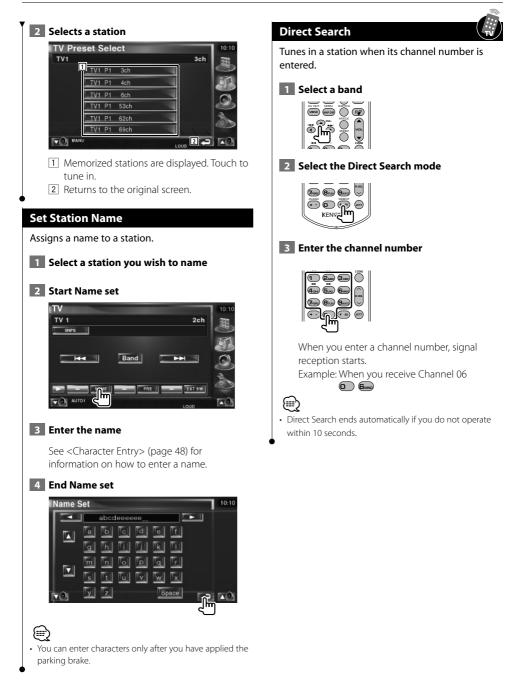
Continue to touch until the memory number appears.

Preset Select

Lists and selects memorized station.

1 Start Preset Select





Video Watching

Functions When Displaying the Easy Control Panel

Displays a floating control panel in the screen.



1 Video switch Area Switches to Video1/Video2.





- 2 Switches the source.
- 3 Displays the external device control screen. See <External Device Power Supply Control> (page 46)
- Displays the Screen Control screen.
 (page 49 for the <Screen Control>)
- 5 Switches to Video1.
- 6 Switches to Video2.

The Easy Control Panel display is hidden when you touch a central area of the monitor.

Functions While Displaying the Control Screen











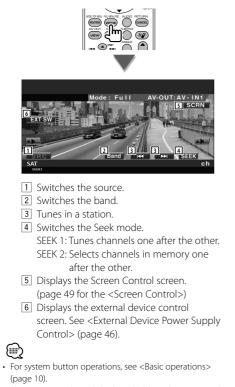
- 1 Switches to Video1.
- 2 Switches to Video2.
- Displays the external device control screen. See <External Device Power Supply Control> (page 46)

Satellite Radio Control (North American sales area only)

Various control screens appear in the Satellite radio source mode. (with the optional accessory Satellite radio connected only)

Functions When Displaying the Easy Control Panel

Displays a floating control panel in the screen.



• The Easy Control Panel display is hidden when you touch a central area of the monitor.

Functions While Displaying the Control Screen

Switches to control screen to use various functions.









 Displays information concerning music being played. Changes the display from Song Title, Artist Name, Composer Name, Channel Name, to Category Name.

2 Tunes in a station.

SAT

- 3 Switches the band.
- 4 Switches the button display.
- 5 Starts or stops Channel Scan (that tunes channels one after the other).

6 Switches the Seek mode. SEEK 1: Tunes channels one after the other. SEEK 2: Selects channels in memory one after the other. 7 Switches the number of lines displayed in the Information Display. 8 Indicates current Seek mode P2 PS 9 When to buttons appear, vou can recall the channel on memory. For memory of channel stations, see <Channel Memory> (page 40). [10] You can tune in by entering the desired channel number. See <Direct Channel Search> (page 40) [1] You can tune in by specifying the desired category. See < Channel Search> (page 39) 12 Displays the program information screen. [13] Displays the external device control screen. See < External Device Power Supply Control> (page 46).

Channel Search

Specifying the desired category and selecting a channel.

1 Start Channel Search



2 Select a category

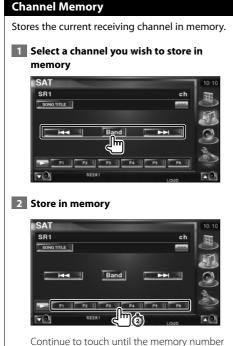


- 1 Selects a category. Displays the channel screen.
- 2 Scrolls the category.
- 3 Returns to the original screen.

3 Select a channel



- Selects a channel. Tunes in the selected channel.
- 5 Scrolls the channel.
- 6 Returns to the original screen.



Continue to touch until the memory number appears.

Direct Channel Search

Tuning in by entering the desired channel number.

1 Start Direct Channel Search



Displays the Direct Search screen.

2 Enter the channel number

SAT 10Key Direct 999ch Jazz En Clave	10:10
1 2 3 4 5 6 7 8 9 0 Enter	*() () (*

1 Enters the channel number.

3 Tune in the channel



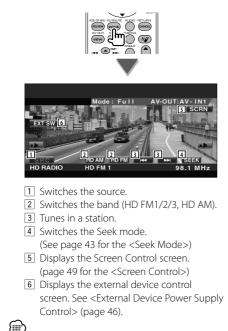


HD Radio Control

Various control screens appear in the HD Radio Source mode. (with the optional accessory HD Radio tuner connected only)

Functions When Displaying the Easy Control Panel

Displays a floating control panel in the screen.



The Easy Control Panel display is hidden when you touch a central area of the monitor.

Functions While Displaying the Control Screen

Switches to control screen to use various functions.









- Displays information concerning music being played.
 Switches between Station Name and Song Title display modes.
- 2 Switches to the HD FM1/2/3 band.
- 3 Switches to the HD AM band.
- Tunes in a station.
 Use the <Seek Mode> (page 43) to change the frequency switching.
- 5 Switches the button display.

- 6 Selects the Auto Memory mode. Refer to <Auto Memory> (page 44).
- Switches the Seek mode.Refer to <Seek Mode> (page 43).
- Switches the number of lines displayed in the Information Display.



- 10 The Receive mode switches in the following order.
 - Auto: Automatically switches between the Digital and Analog Receive modes depending on the broadcasting type. If programs are broadcasted in both modes, the digital program is received. Also, if a program is received in the Ball Game mode (the non-displayed broadcast program), the analog program is automatically received.

Digital: Receives the digital program only. Analog: Receives the analog program only.

- 11 Displays the tuned in music information.
- 12 Displays the external device control screen. Refer to <External Device Power Supply Control> (page 46).

button is not displayed when there is no text information.

{::::")

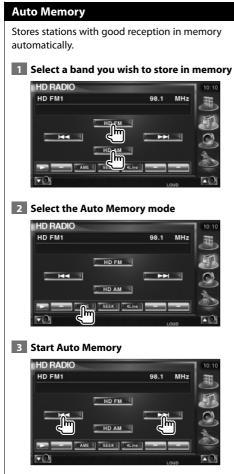
Seek Mode

Sets a station selection.



The mode is switched in following order each time you touch the button.

Display	Setting
"AUTO1"	Tunes in a station with good reception automatically.
"AUTO2"	Tunes in stations in memory one after another.
"MANU"	Switches to the next frequency manually.



Auto Memory terminates when 6 stations are stored or when all stations are tuned in.

Manual Memory

Stores the current receiving station in memory.

1 Select a station you wish to store in memory



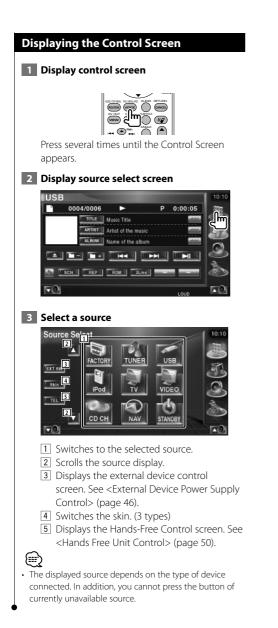
2 Store in memory



Continue to touch until the memory number appears.

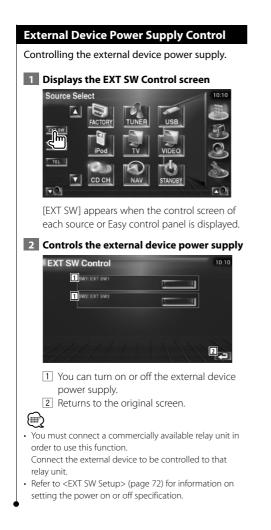
The source you wish to listen to can be selected quickly.

Source Select



External Device Power Supply Control

Controlling the external device power supply.



Muting Audio Volume upon Reception of Phone call

Muting Audio Volume upon Reception of Phone Call

When the telephone is called, the system is paused automatically.

When the telephone is called...

The Phone Call ("CALL") screen appears, and system is paused.

Phone Call ("CALL") screen



If you want to continue to listen to the audio source during phone call...



The system resumes audio play during the phone call.

When the call ends...

Hang up the phone.

The system resumes playing automatically.

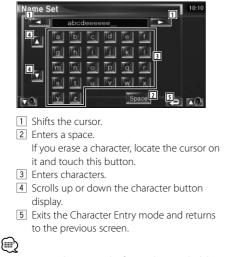
 To use the TEL Mute feature, you need to hook up the MUTE wire to your telephone using a commercial telephone accessory. Refer to <Connection> (page 84).

How To Use the Character Entry Screen

Character Entry

When you select the Set Disc Name mode or others, the following screen appears for character entry.

Character Entry screen



• You can enter characters only after you have applied the parking brake.

Screen Control

Screen Control

Setting the monitor screen.

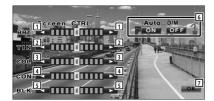
1 Display Easy control panel







3 Adjust the picture quality



- 1 Brightness Control Disabled if Auto Dimmer is On.
- [2] Tint Control Displayed for an NTSC system image on TV, Video, iPod or Rear View Camera.
- 3 Color Control Displayed on the TV, Video, iPod or Rear View Camera screen only.
- 4 Contrast Control
- 5 Black Level Adjustment
- 6 Auto Dimmer Setup When turned "On", the display is dimmed automatically when the ambient becomes dark.
- 7 Returns to the previous screen.

- The Screen Control screen is displayed only when you have applied the parking brake.
- The picture quality can be set for each source.
- You can set image quality of screens such as menu from <Monitor Setup> (page 66) of the <Setup Menu>.

Hands Free Unit Control



You need to register your cell-phone to your Bluetooth Hands Free Box beforehand. Make sure to read the instruction manual
of the Bluetooth Hands Free Box as well.

Control Screen Function

1 Display the control screen

Displaying the control screen and using various functions.



Press several times until the Control Screen appears.

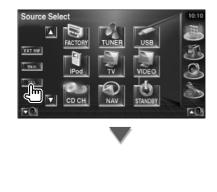
2 Display the source select screen

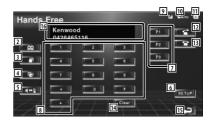


1 Displays the status of connection with the cell-phone.

White: The cell-phone is connected. Orange: The cell-phone is not connected, or it is outside the service range.

3 Display the Hands-Free Control screen





- Displays the Search for Phone Book screen. (See <Calling by Phone Book>, page 52)
- 3 Displays the Out Going Calls screen. (See <Redialing>, page 54)
- Displays the Incoming Calls screen.
 (See <Redialing>, page 54)
- 5 Switches between the private and handsfree modes (only when a call in progress).
- Displays the Hands-Free Set Up screen. (See <Setting up the Hands-Free Phone>, page 55)
- Enter three phone numbers for quick dialing.
 - (See <Quick Dialing>, page 52)
- 8 Enters a phone number. (See <When Dialing>, page 51)
- Displays the signal strength.* The more the number of bar segments, the stronger the signal.
- Displays the present Auto Answering status
 When Auto Answering is on: The Auto Answering is off:
- Displays the battery drain of the cellphone.*

The more the number of bar segments, the higher the battery level.

- 12 Starts the call.
- 13 Ends the call. Clears the phone number being entered.
- 14 Clears the entered phone number.
- 15 Returns to the previous screen.
- Displays the calling and called phone numbers.

If you have registered a phone number in the Phone Book, the destination person name is displayed.

- While your car is moving, some functions are disabled for safety's sake. The buttons associated with the disabled functions become ineffective if pressed.
- When the Hands-Free Control screen appears, the name of the connected cell-phone is displayed for 5 seconds.
- * Since the number of steps of the control unit is different from that of the cell-phone, the statuses displayed on the control unit may discord from those displayed on the cell-phone. No status is displayed if information about it cannot be obtained.
- Setting the cell-phone in the private mode can disable the hands-free function.

When Called

When you receive a call, you can use the hands-free phone.

1 Respond to a call

Hands	Free			14 €uno 400
	Kenwoo 0426465			
- 00	-	2		e
	4			P3
4+2		0		SETUP
	, E-J,		Clear	112

When a call arrives, the Hands-Free Control screen appears automatically.

2 End the call



The previous screen reappears.

When Dialing

Make a call by entering a phone number.

1 Enter a phone number



2 Make a call



You can start talking when the destination responds.

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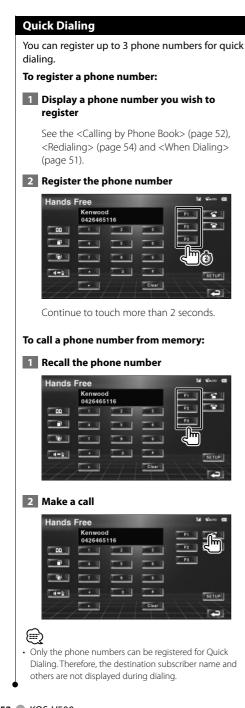
- To clear your incorrect entry, touch **Care** .
- 3 End the call



The previous screen reappears.



You can input max 32 digits.



Calling by Phone Book

You can call a person using his/her phone number that you have registered in the Phone Book.

Display the Phone Book screen

Hands	Free		1⊿ Suro 000
	Kenwood 0426465116		
᠁			P2
			P3
- 4+ b			TSETUPI
	₽ <u></u> //	Clear	

The Initial Input screen appears.

`

Initial Input screen



1 Scrolls the character array display.

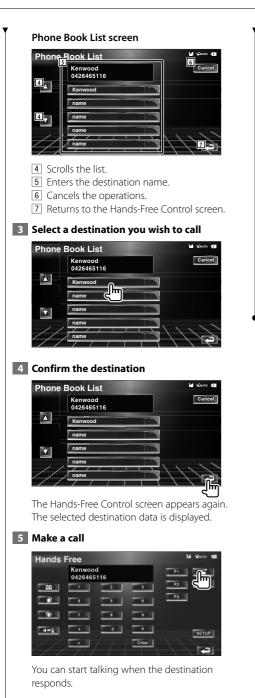
2 Displays the Phone Book beginning with the name whose first character you have touched.

3 Returns to the Hands-Free Control screen.

2 Select the initial character of a person name in memory



The Phone Book List screen appears.



6 End the call



The previous screen reappears.

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- To use the Phone Book, it must have been downloaded from the cell-phone. For more details, see the instruction manual of your bluetooth Hands Free Box and your cell phone.
- Up to 20 characters can be displayed for each name in the Phone Book.
- Initials including no corresponding name will not be displayed.
- During search, a non-accent character such as "u" is searched for instead of an accent character such as "ü".



3 Confirm the destination



The Hands-Free Control screen appears again. The selected destination data is displayed.





You can start talking when the destination responds.

5 End the call



The previous screen reappears.

 The Outgoing Calls list screen or Incoming Calls list screen shows the list of the calls originated from or received at this unit. They are not the ones stored in the cell-phone memory.

Setting up the Hands-Free Phone

The Hands-Free system can be set as follows.



Hands-Free Set Up screen



- Sets an automatic response time after call termination. (♥ "8")
 "Off": This function can not use.
 - "0-99": Sets to calling ring time (second).
- 2 Sets a ringing tone output position.
 - (**I** "Front R") "Front I": C
 - Outputs the tone from the front left-hand side speaker.
 - "Front R": Outputs the tone from the front right-hand side speaker. "Front All": Outputs the tone from the
 - both front speakers.
- - "On": Beep is heard.
 - "Off": Beep is canceled.
- 4 Displays the Phone Select screen.
- 5 Displays the Phone Delete screen.
- 6 Returns to the Hands-Free Control screen.

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- Either the time interval for automatic answer set on this unit or the time interval set on the cell-phone, whichever is shorter, takes effect.
- Select the speaker which is further from the microphone in order to prevent howling or echoes.

Selecting a Hands-Free Phone

You can choose the Hands-Free phone from the list.

1 Display the Hands-Free Set Up screen



2 Display the Phone Select list



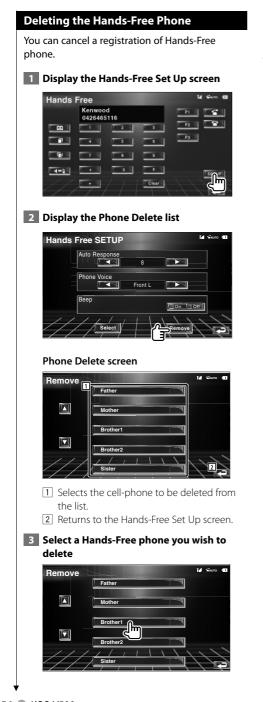
Phone Select screen



- 1 Selects the cell-phone to be used as a hands-free phone.
- 2 Returns to the Hands-Free Set Up screen.

3 Select a Hands-Free phone you wish to use





1	
•	The

 The Phone Book, outgoing call list, and incoming call list are deleted together with the deleted Hands-Free phone.

Download from Www.Somanuals.com. All Manuals Search And Download.

You can set up various receiver parameters.

Setup Menu

Setup Menu

Displays the Setup Menu to set various functions.



Audio Setup

You can setup a speaker network, etc.

1 Display the Audio SETUP screen

Touch [Audio SETUP] in the SETUP Menu (page 58).

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• [Audio SETUP] cannot be selected when no source is selected.

2 Setup each item



- 1 Selects the speaker to set the crossover. See <Crossover Network Setup> (page 59).
- 2 Sets the availability of subwoofers.
- 3 Selects the type of front speakers.

	"Standard":	Setup for general diameter
		speakers
	"Narrow":	Setup for small diameter
		speakers
	"Middle":	Setup for middle diameter
		speakers
	"Wide":	Setup for large diameter
		speakers
٦.	Switchos to	the crossover setup screep

- Switches to the crossover setup screen.
 See <Crossover Network Setup> (page 59).
- 5 Returns to the original screen.

Crossover Network Setup

You can set a crossover frequency of speakers. 1 Select the speaker to set the crossover Audio SETUP nt L&P 2 3 1 Sets the High Pass Filter of the front speaker. 2 Sets the High Pass Filter of the rear speaker. 3 Sets the Low Pass Filter of the sub woofer. 4 Switches to the crossover setup screen. 5 Returns to the original screen. 2 Display the Crossover setup screen 3 Set the crossover X'Over 10:10 6 LPF SUB FREQ 120Hz SUB Phase Normal 7 6 Sets the cross over frequency. 7 Sets the sub woofer phase. (Only when "Subwoofer" is set to "On" in Audio Setup and "LPF SUB FREQ" is set to other than "Through") 8 Returns to the original screen.

iPod Setup

Performs setup when using iPod.

1 Display the iPod SETUP screen

Touch [iPod SETUP] in the SETUP Menu (page 58).

2 Setup each item



- 1 Sets the Audiobook playback speed.
- 2 Sets Wide Screen on or off.
- 3 Returns to the original screen.

• "Wide Screen" cannot be set while the iPod is connected.

Software Information

Checks the software version of this unit.

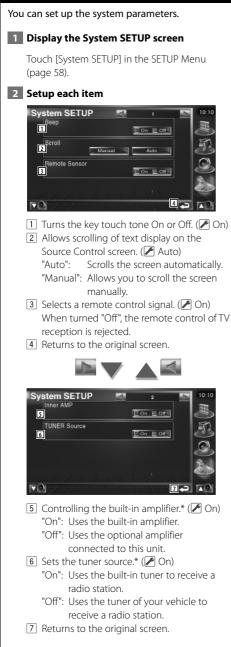
1 Display the Software Information screen

Touch [Software Information] in the SETUP Menu (page 58).



- 1 Displays the software version.
- 2 Returns to the original screen.

System Setup





- * In order to receive a radio station with the built-in tuner, you need to connect an antenna cord. Refer to <Connection> (page 84).
- * Setting can be made only in standby mode.

AV Interface Setup

You can set audio and visual (AV) interface parameters.

1 Display the AV Interface screen

Touch [AV Interface] in the SETUP Menu (page 58).

2 Setup each item



 Sets a name to be displayed when you select a system that is connected via the AV INPUT1 port. (✓ VIDEO1)



- If you have set the navigation system connection to "AV-IN", the display is fixed to "NAV1".
- 2 Sets an image display of the system that is connected via the AV INPUT2 port. (Off) "Off": When the image source is switched, an image entered via the AV INPUT2 port is displayed.
 - "On": When an image signal is entered via the AV INPUT2 port, this image is displayed.
- Sets a name to be displayed when you select an image of the system that is connected via the AV INPUT2 port.
 (I) VIDEO2)

- - "RGB": Allows the Kenwood's Navigation System to connect via its interface cable.
 - "AV-IN": Allows a third-party navigation system to connect via the AV INPUT1 port.
 - "Off": Must be used if no navigation system is connected. (The navigation display is cancelled when the AV source is switched.)
- 5 Returns to the original screen.





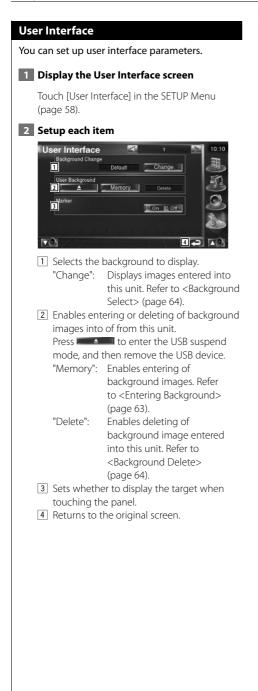
- 6 Selects an AV source to be output at the AV OUTPUT port. (AV-IN1)
- Sets a method to switch to the rear view camera video display. (Off)
 - "On": Switches to the rear view camera video display when engaging the shift knob of car to "Reverse".
 - "Off": Switches to the the rear view camera video display when engaging the shift knob of car to "Reverse" and then pressing the [V.SEL] switch several times.
- You can flip the left and right of the rear view camera video display. Set to "Reverse" and the the rear view will be displayed left and right in mirror image on the screen.
 (C) Off)



- Selects speakers used for voice guidance of the navigation system. (F-Left)
 - "F-Left": Uses the front left side speaker for voice guidance.

12

- "F-Right": Uses the front right side speaker for voice guidance.
- "Front All": Uses both front speakers for voice guidance.
- Adjusts the volume for voice guidance of the navigation system. (21)
- Mutes the volume during voice guidance of the navigation system. (On) When turned "On", the volume level drops for voice guidance.
- 12 Sets a selecting method of audio source from the Navigation system.(☑ Off)
 - "On": Allows you to select the audio source input from the Navigation system interface by pressing [SRC] or selecting it on Source Select screen.
 - "Off": The audio source cannot be selected using [SRC] or on Source Select screen.





- 5 Sets an on-screen display of the iPod Playback screen. (Auto)
 - "Auto": Information is displayed for 5 seconds when updated. "Manual": Information is displayed when
 - you touch on the screen.
- 6 Sets an on-screen display of the navigation screen. (Off)

"Auto": Information is displayed for 5 seconds when updated.

- "Off": Information is not displayed.
- Sets an on-screen display of the Video1 playback screen. (Auto)
 "Auto": Information is displayed for 5

seconds when updated. "Manual": Information is displayed when you touch on the screen.

■ Sets an on-screen display of the Video2 playback screen. (Auto)

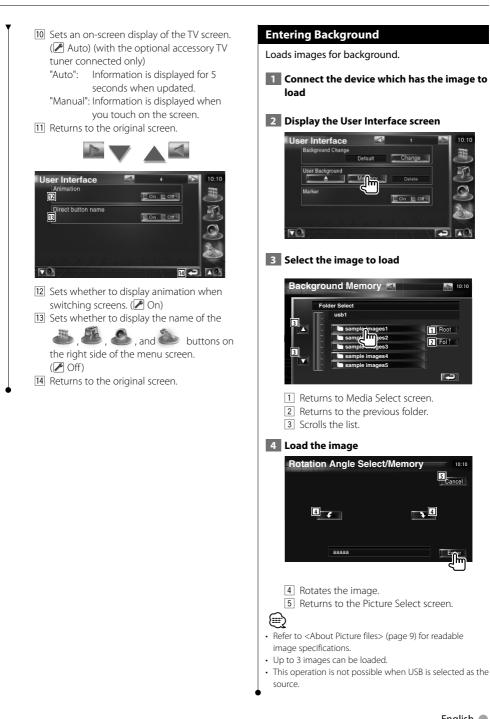
"Auto": Information is displayed for 5 seconds when updated.

"Manual": Information is displayed when you touch on the screen.

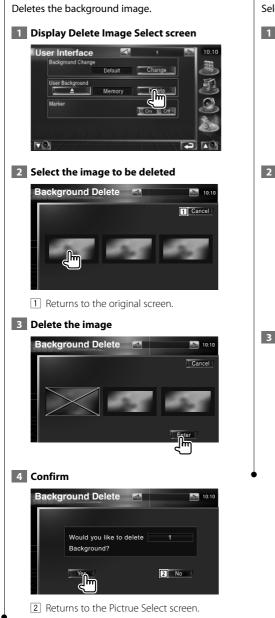
9 Returns to the original screen.







Background Delete



Background Select

Selects a image for background.



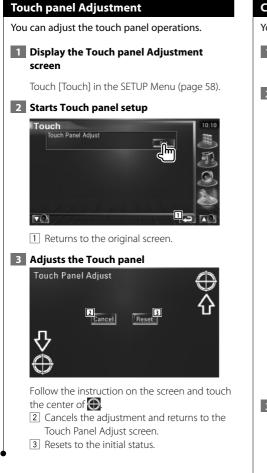




- 1 Returns to the initial background.
- 2 Returns to the original screen.

3 Set the image as the background





Clock Setup

You can adjust the clock time.

1 Display the Clock Setup screen

Touch [Clock] in the SETUP Menu (page 58).

2 Setup the Clock



- 1 Clock time display
- 2 Adjusts hours.
- Adjusts minutes.
- 4 Sets "00" minute.

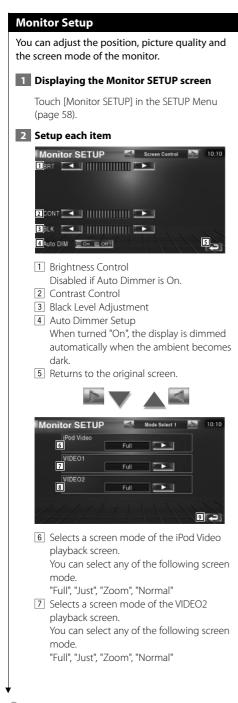
Setup examples: 3:00~3:29 ➡ 3:00 3:30~3:59 ➡ 4:00

When turned "On", the synchronized mode starts and the clock cannot be adjusted manually.

6 Returns to the original screen.

3 Adjust the clock time

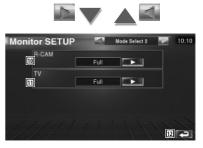




 Selects a screen mode of the VIDEO2 playback screen. You can select any of the following screen mode.

"Full", "Just", "Zoom", "Normal"

9 Returns to the original screen.



 Selects a screen mode of the rear view camera (R-CAM) screen.
 You can select any of the following screen mode.

"Full", "Just", "Zoom", "Normal"

 Selects a screen mode of the TV screen. You can select any of the following screen mode.

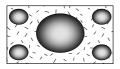
"Full", "Just", "Zoom", "Normal"

12 Returns to the original screen.

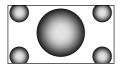


- When you select the Menu, Easy Control screen, or Navigation, the display is shown in the full-size display mode automatically. The screen mode of these displays cannot be changed.
- The picture quajlity can be set for each source.

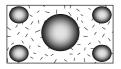
Full picture mode (Full)



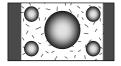
Zoom picture mode (Zoom)



Justify picture mode (Just)



Normal picture mode (Normal)



Security Code Setup

You can set a security code to protect your receiver system against theft.



 When the Security Code function is activated, the code cannot be changed and the function cannot be released.
 Note, the Security Code can be set as the 4 digit number of your choice.



Displays the Security code input screen.
 Returns to the original screen.

2 Start Security Code setup



• If you have already completed the code registration,

3 Enter a security Code



Input four-digit number.

4 Register your security code



5 Reenter the security code

Reenter the same security code as that you have entered in Step 3 for confirmation.

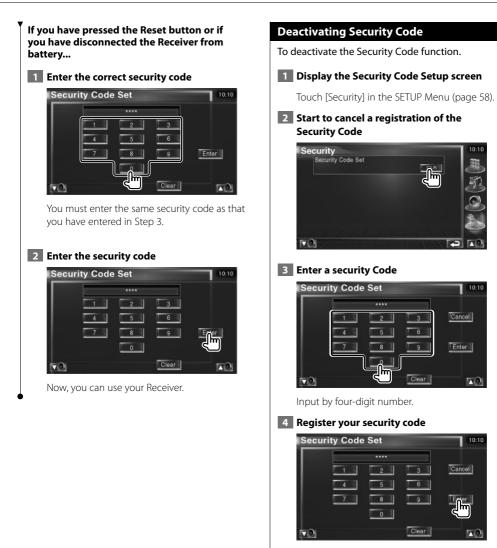


• If you enter a different security code, the screen returns to Step 3 (for the first code entry).

6 Register the security code again



Now, your security code is registered. If you press the Reset button or if you disconnect your receiver from the battery after the code registration, you need to enter the registered security code.



Now, your security code is cleared.

SAT ESN Watch Setup

You can display the SAT ID. (with the optional accessory Satellite radio connected only)

1 Display ESN Watch SETUP screen

Touch [SAT ESN Watch] in the SETUP Menu (page 58).

2 Verify ESN



1 Displays the Electronic Serial Number.

2 Returns to the original screen.

Setup Memory

Audio Set Up and AV Interface settings can be memorized. The memorized settings can be recalled at any time. For example, even when the settings are cleared due to replacement of the battery, the settings can be restored.

1 Display the SETUP Memory screen

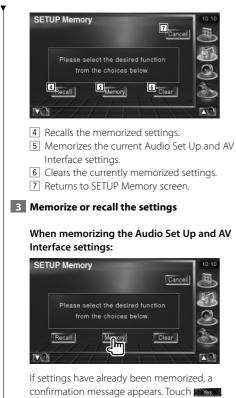
Touch [SETUP Memory] in the SETUP Menu (page 58).



- Locks the Audio Set Up and AV Interface settings. When Interface is selected, you cannot set the Audio Setup and AV Interface settings.
- [2] Memorizes or recalls the settings. To cancel the function, touch ■ No ■. To cancel memorization, touch ■ No ■.
 - The Setup Menu screen appears again.
- 3 Returns to the original screen.

2 Start Set Up Memory





To cancel memorization, touch

When recalling the memorized settings:



Touching the screen displays a confirmation message. Touch we recalling, touch

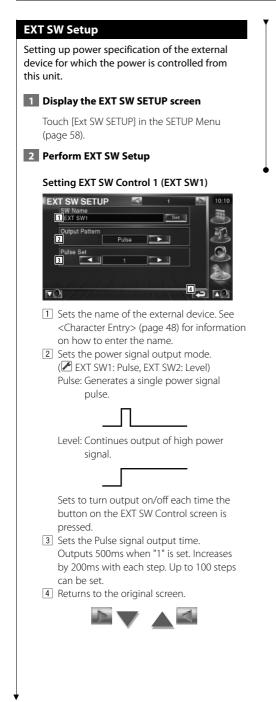
When clearing the currently memorized settings:



Touching the screen displays a confirmation message. Touch res. To cancel clearing, touch

4 Quit memorization/recalling of settings





Setting EXT SW Control 2 (EXT SW2)



The setup method is the same as "EXT SW1".

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English 🔵 73

Audio Control

Audio Control Menu

Displays the Audio Control menu to set the sound effect function of this unit.



Audio Control

You can adjust the front/rear and right/left audio balance.

1 Display Audio Control



Touch [Audio Control] in the Audio Control Menu (page 74).

2 Display the Audio Control screen



- 1 Adjusts the right and left volume balance.
- 2 Adjusts the front and rear volume balance.
- 3 Turns the Loudness control function On or Off.

If turned "On", high and low tones are automatically enhanced during low volume.

- ① Displays the present source information. The stream (Dolby Digital, dts, Linear PCM, MPEG or MP3/WMA), input channels (front or rear channels) are displayed.
- 5 Returns to the original screen.



- 6 Adjusts the bass boost of the B.M.S power amplifier (optional accessory).
- Sets the center frequency of bass boost you have set for "AMP Bass".
 If you set the center frequency to "Low", it will be dropped approximately 20% to 30%.
- 8 Adjusts the subwoofer volume.
- Adjusts the volume of the present source based on the difference level of original volume.
- 10 Returns to the original screen.
- Ð
- If you have increased the volume first, then reduced the volume using the "Vol. Offset", the sound generated if you suddenly switch to another source may be extremely loud.
- You may not set some models of power amp boost to "+18". See the catalog or instruction manual of power amplifier.

Equalizer Control

You can set up the equalizer.

1 Display Equalizer Control



Touch [Equalizer] in the Audio Control Menu (page 74).

2 Display the Equalizer screen

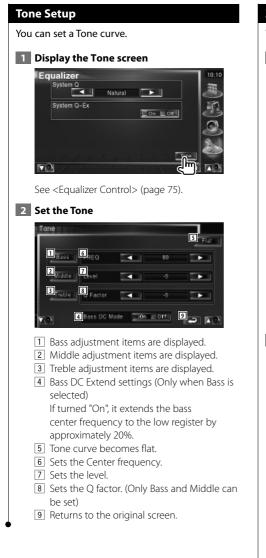


 Selects an equalizer curve type. You can select any of the following equalizer curves.

- "Natural"
- "Rock"
- "Pops"
- "Easy"
- "Top40"
- "Jazz"
- 2 Selects items to be adjusted for tone curve setup.

If turned "Off", only Level can be setup for tone curves.

- 3 Displays the Tone curve setup screen. (page 76)
- 4 Returns to the original screen.



Zone Control

You can set the front and rear audio source.

1 Display Zone Control



Touch [Zone Control] in the Audio Control Menu (page 74).



2 Set the Zone Control



- 1 Turns the Zone Function (that sets different source sounds for front and rear speakers) On or Off.
- Switches the front and rear audio sources. (This button appears when the Zone function is On.) Use "Reverse" to change over the front and rear audio sources.
- Sets the front and rear audio source separately. (This button appears when the Zone function is On.)

• When the rear speaker sound is switched, the audio source that is output at the AV OUTPUT terminal is also switched to the same source.

However, if you have set the "Area" to "Reverse", the audio source that is output at the AV OUTPUT terminal is switched depending on the front sound source.

 Adjusts the volume of the rear channel. (This button appears when the Zone function is On.)

5 Returns to the original screen.

- There are following limitations when zone function is set to "On".
 - There is no output from the subwoofer.
 - <Audio Setup> (page 58) and <Equalizer Control>
 - (page 75) are not available.

Help? Troubleshooting

Some functions of this unit may be disabled by some settings made on this unit.

• Cannot set up the subwoofer.

- · Cannot set up subwoofer phase.
- No output from the subwoofer.
- Cannot set up the low pass filter.
- Cannot set up the high pass filter.
- Subwoofer is not set to On.
 (page 58)
- ► The Dual zone function is enabled.
 ≪Zone Control> (page 76)
- -----

Cannot set up the subwoofer phase.

- Subwoofer is not set to On.
 (page 58)
- Low pass filter is set to Through.
 «
 Crossover Network Setup> (page 59)

Cannot select the output destination of the

- subsource in the Dual zone. • Cannot adjust the volume of the rear
 - speakers.
 - The Dual zone function is disabled.

 Control> (page 76)

Cannot Folder select.

 The Scan play or Random play function is enabled.

• The Traffic Information setting is ineffective.

- The Synchronize Clock setting is ineffective.
 Cannot select the tuner as a Dual zone source.
- ► HD Radio is in use.
- Tuner souce function is disabled.
 « <System Setup> (page 60)

• Cannot set up the equalizer.

- Cannot set up the crossover network.
- ► The Dual zone function is enabled.
 Some Control> (page 76)

What might seem to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

General

The Touch Sensor Tone doesn't sound.

- ✓ The preout jack is being used.
- The Touch Sensor Tone can't be output from the preout jack.

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 section on <Connection> (page 84).

Audio file source

- The sound skips when an Audio file is being played.
 - ✓ The recording condition is bad.
 - Record the media again or use another media.

HD Radio source

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

- ✓ The preset broadcast station is not transmitting in the mode that was set with <HD Radio Control> (page 42).
- Please set <Receive mode Setting> to "Auto".
- In digital AM broadcasting, receive mode switches between stereo and monaural too often.
- Receiving condition is bad or unstable. Stereo is chosen when receiving condition is good, and it switches to monaural when the condition becomes bad.
- ✔ HD Radio tuner is connected to KCA-S220A or other units.
- Connect the HD Radio tuner directly to this unit.

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

Protect :

Help? Error

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.

Hot Error :

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 Error :

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.

Error 07-67:

The unit is not operating correctly due to some reason or other.

 Push the unit's Reset button. If the "Error 07–67" message does not disappear, see your nearest Kenwood dealer.

No Device (USB device)/Disconnected (iPod):

The USB device/iPod is selected as a source although no USB device/iPod is connected.

 Change the source to any source other than USB/iPod. Connect an USB device/iPod, and change the source to USB/iPod again.

No Music:

The connected USB device contains no playable audio file.

Media was played that doesn't have data recorded that the unit can play.

USB Device Error!!:

The connected USB device is rated a current capacity higher than the allowable limit.

➡ Check the USB device.

Some trouble may have occurred to the connected USB device.

→ Change the source to any source other than USB. Remove the USB device.

Authorization Error:

Connection to the iPod has failed.

➡ Remove the iPod and then reconnect it.

The unit does not support the iPod.

➡ Refer to <About iPod that can be connected to this unit> (page 7).

Update your iPod:

The iPod's software is an older version which the unit can not support.

→ Confirm that the software for the iPod is the latest version. Refer to <About iPod that can be connected to this unit> (page 7).

EXT SW: Error:

Connection to the external device has failed.

- Remove the external device and then reconnect it.
- ➡ Turn off the power or ACC and turn it back on.

You can connect only one iPod:

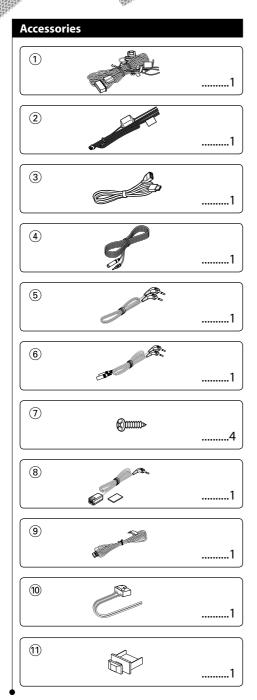
More than one iPod are connected to this unit.

 Disconnect all the iPods, and then reconnect only one.

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Accessories

ALTINET AND



Installation Procedure

- 2. Make the proper input and output wire connections for each unit.

Installation Procedure

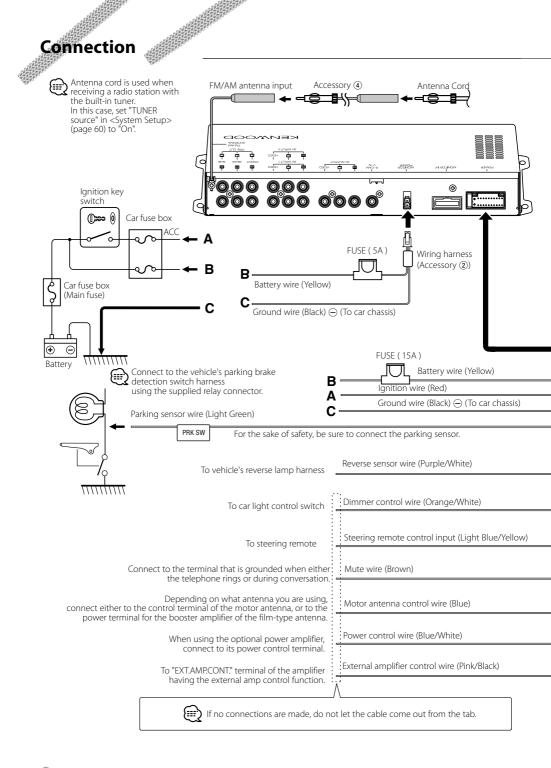
- 3. Connect the speaker wires of the wiring harness.
- 4. Connect the wiring harness wires in the following order: ground, battery, ignition.
- 5. Connect the wiring harness connector to the unit.
- 6. Install the unit in your car.
- 7. Reconnect the \bigcirc battery.
- 8. Press the Reset button.

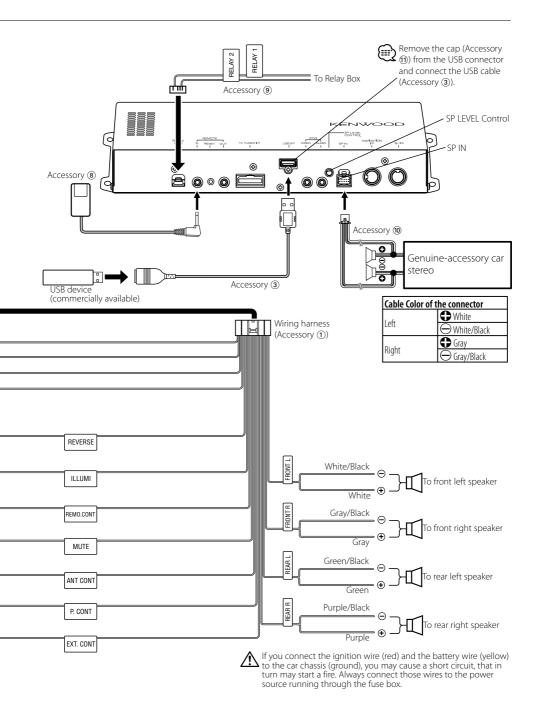
AWARNING

If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.

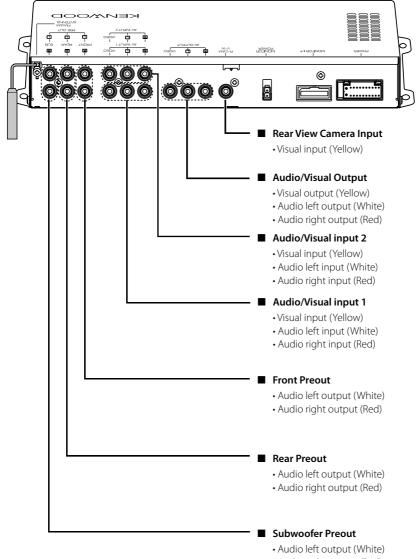
A

- 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's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- If the console has a lid, make sure to install the unit so that the faceplate will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause 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 a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the ⊕ connector of the left speaker to a front output terminal, do not connect the ⊖ connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.



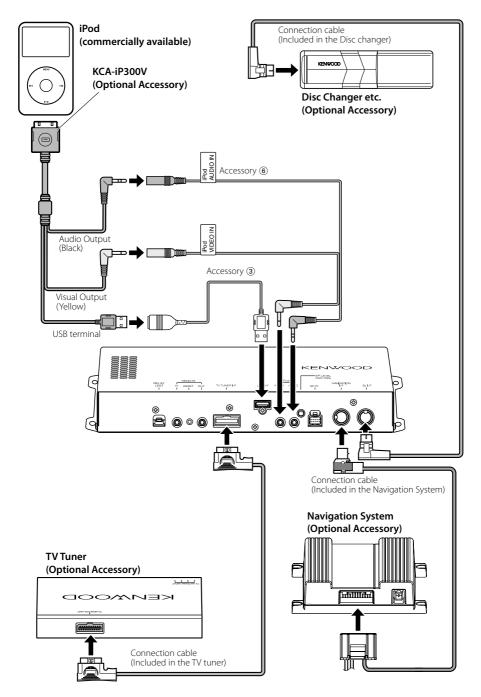


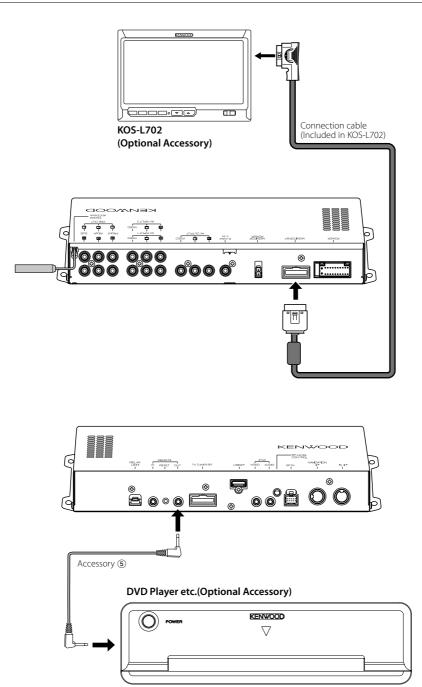
System Connection



Audio right output (Red)

Optional Accessory Connection



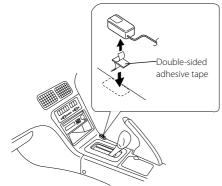


Installation for Remote control sensor

Installation

- 1 Wipe off the installation location with a cleaning cloth.
- Secure the Remote control sensor (Accessory

 in the specified place with the doublesided adhesive tape.

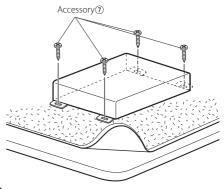


\wedge

- Install the Remote control sensor on a flat surface. If it is installed on a curved surface, the tape adhesion may weaken and the controller may come off.
- Do not install the Remote control sensor in places (such as on the dashboard) where it is exposed to direct sunlight and the temperature becomes high. Otherwise, the Remote control sensor will become deformed and unusable.
- Install the Remote control sensor in places that do not obstruct driving. Install the Remote control sensor temporarily and verify that the handle, shift knob, and side brake can be operated smoothly.

Installation for A/V controller Unit

Use Tapping screws (Accessory⑦) to fix A/V controller Unit onto an audio board or another.



Specifications

USB interface section

USB Standard : USB1.1/ 2.0

File System : FAT16/ 32

Maximum Supply current : 500 mA

D/A Converter

: 24 bit

Decoder

: MP3/ WMA/AAC

FM tuner section

Frequency Range (200 kHz) : 87.9 MHz – 107.9 MHz Usable Sensitivity (S/N : 30 dB) : 9.3 dBf ($0.8 \mu V/75 \Omega$) Quieting Sensitivity (S/N : 50 dB) : 15.2 dBf ($1.6 \mu V/75 \Omega$) Frequency Response (± 3.0 dB) : 30 Hz – 15 kHz S/N : 70 dB (MONO) Selectivity (± 400 kHz) : $\geq 80 dB$ Stereo Separation

: 40 dB (1 kHz)

AM tuner section

Frequency Range (10 kHz) : 530 kHz – 1700 kHz Usable Sensitivity (S/N : 20dB) : 28 dBμ (25 μν)

Video section

Color system of external video input : NTSC External video input level (RCA jacks) : $1Vp-p/75\Omega$ External audio max input level (RCA jacks) : $2V/25k\Omega$ Analog RGB input (NAVI)(TV-SECAM) : $0.7Vp-p/75\Omega$ Video output level (RCA jacks) : $1Vp-p/75\Omega$ Audio output level (RCA jacks) : $1.2V/10k\Omega$

Audio section

Maximum power (Front&Rear) : 50 W × 4 Full Bandwidth Power (Front&Rear) (4 Ω , +14.4V, 1% THD) : 22 W × 4 Preout Level : 2V/10 k Ω Preout Impedance : $\leq 600 \Omega$ Speaker Impedance : $4 - 8 \Omega$ Tone action Bass : 100 Hz ± 8 dB Middle : 1 kHz ± 8 dB Treble : 10 kHz ± 8 dB

External SW

Maximum Power Supply Current : 500mA

General

Operating voltage : 14.4 V (11 – 16 V allowable)

Current Consumption : 15 A

Installation Size (W × H × D) : 319.2mm×41.0mm×232.0mm 12-10/16×1-10/16×9-2/16inch

Operational Temperature Range : -10 °C - +60 °C

Storage Temperature Range : -20 °C − +85 °C

Weight : 2.0 kg (4.41 lbs)

Specifications subject to change without notice.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

NOTE

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

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

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