

KENWOOD

KDV-5241U

DVD-RECEIVER

INSTRUCTION MANUAL

DVD-RECEIVER

BEDIENUNGSANLEITUNG

RECEPTOR DVD

MANUAL DE INSTRUCCIONES

DVD-ресивер

ИНСТРУКЦИЯ ПО ЭКСПЛУАТАЦИИ

Kenwood Corporation

SI DICHIARA CHE:

I Sintolettori CD/DVD Kenwood per auto, modelli
KDV-5241U, KDV-5241UY
rispondono alle prescrizioni dell'art. 2 comma 1 del D.M.
28 agosto 1995, n. 548.
Fatto ad Uithoorn il 14 aprile 2008
Kenwood Electronics Europe B.V.
Amsterdamseweg 37
1422 AC Uithoorn
The Netherlands



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Before use

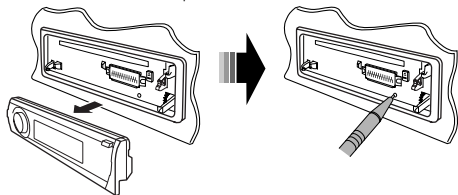
⚠ WARNING

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.
- DO NOT operate the unit while driving. If you need to operate the unit while driving, be sure to look around carefully.

How to reset your unit

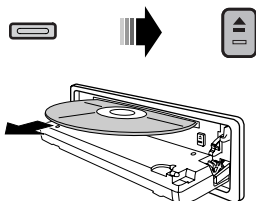
- If the unit fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed.



How to forcibly eject a disc



"Please Eject" appears on the display.



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 erase characters.

Cleaning the Faceplate Terminals

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

Lens Fogging

When you turn on the car heater in cold weather, dew or condensation may form on the lens in the disc player of the unit. Called lens fogging, this condensation on the lens may not allow discs 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.

Caution for DualDisc playback

The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

Notes

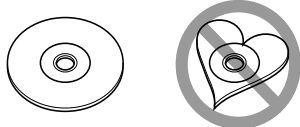
- If you experience problems during installation, consult your Kenwood dealer.
- When you purchase optional accessories, check with your Kenwood dealer to make sure that they work with your model and in your area.
- The illustrations of the display and the panel appearing in this manual are examples 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.
- If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.




Handling discs

- Do not touch the recording surface of the disc.
- Do not stick tape etc. on the disc, or use a disc with tape stuck on it.
- Do not use disc type accessories.
- Clean from the center of the disc and move outward.
- When removing discs from this unit, pull them out horizontally.
- If the disc center hole or outside rim has burrs, use the disc only after removing the burrs with a ballpoint pen etc.







Discs that cannot be used

- Discs that are not round cannot be used.

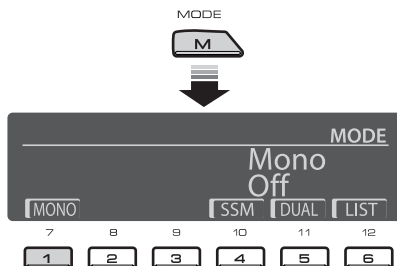


- Discs with coloring on the recording surface or discs that are dirty cannot be used.
- This unit can only play the CDs with   . This unit may not correctly play discs which do not have the mark.
- You cannot play a CD-R or CD-RW that has not been finalized. (For the finalization process refer to your CD-R/CD-RW writing software, and your CD-R/CD-RW recorder instruction manual.)

How to use the M MODE and SEL buttons

If you use M MODE or SEL (select), the display and some controls (such as the number buttons,     buttons, / buttons, and the control dial) enter the corresponding control mode.

Ex.: When you press number button 1 after pressing M MODE, to operate the FM tuner.



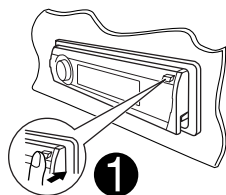
To use these controls for original functions, press M MODE again.

- However, pressing SEL makes the unit enters a different mode.
- Waiting for about 15 seconds without pressing any of these buttons will automatically cancels the control.

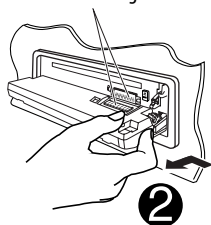
Indication language:

In this manual, English indications are used for purposes of explanation. You can select the indication language on the monitor on the "LANGUAGE" setting (see page 40).

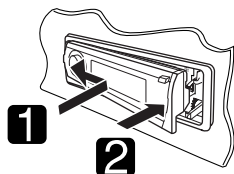
Detaching the control panel



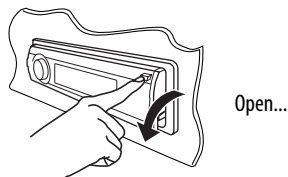
Avoid touching the connectors.



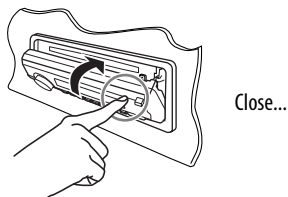
Attaching the control panel



Opening and closing the control panel



Open...



Close...

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Plays all versions of DivX® video (including DivX® 6) with enhanced playback of DivX® media files and the DivX® Media Format

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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 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.



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


Manufacturer:

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

EU Representative's:

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

Playable disc type

Disc type	Recording format, file type, etc	Playable
DVD	DVD Video (Region Code: 2) * ¹ 	✓OK
	DVD Audio	✗NO
	DVD-ROM	
DVD Recordable/Rewritable (DVD-R/-RW *², +R/+RW *³) <ul style="list-style-type: none"> DVD Video: UDF bridge DVD-VR DivX/MPEG-1/MPEG-2/MP3/WMA/WAV: ISO 9660 level 1, level 2, Romeo, Joliet 	DVD Video	✓OK
	DVD-VR	
	DivX/MPEG1/MPEG2	
	MP3/WMA/WAV	
	AAC	✗NO
	JPEG/MPEG4	
	DVD+VR	
	DVD-RAM	
Dual Disc	DVD side	✓OK
	Non-DVD side	✗NO
CD/VCD	Audio CD/CD Text (CD-DA)/DTS-CD * ⁴	✓OK
	VCD (Video CD)	
	SVCD (Super Video CD)	✗NO
	CD-ROM	
	CD-I (CD-I Ready)	
CD Recordable/Rewritable (CD-R/-RW) <ul style="list-style-type: none"> ISO 9660 level 1, level 2, Romeo, Joliet 	CD-DA	✓OK
	DivX/MPEG1/MPEG2	
	MP3/WMA/WAV	
	AAC	✗NO
	JPEG/MPEG4	

*¹ If you insert a DVD Video disc of an incorrect Region Code, "REGION CODE ERROR" appears on the monitor.

*² DVD-R recorded in multi-border format is also playable (except for dual layer discs). DVD-RW dual layer discs are not playable.



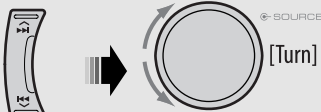

*³ It is possible to play back finalized +R/+RW (Video format only) discs. +RW double layer discs are not playable.

*⁴ To reproduce DTS sound, use the DIGITAL OUT terminal (see also pages 41 and 47).

Preparation

■ Cancel the display demonstration and set the clock

- See also pages 36 and 37.

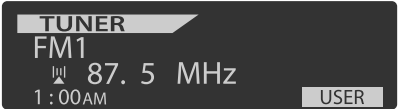
1	 ϕ /ATT	Turn on the power.
2	SEL  [Hold]	Enter the PSM settings.
3		Cancel the display demonstrations Select "Demo", then "Off". Set the clock Select "Clock Hr" (hour), then adjust the hour. Select "Clock Min" (minute), then adjust the minute. Select "24H/12H", then "24Hours" or "12Hours".
4	SEL 	Finish the procedure.

Changing the display information and pattern

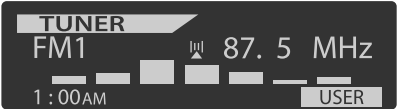
- When the power is turned off: Check the current clock time



Ex.: When tuner is selected as the source



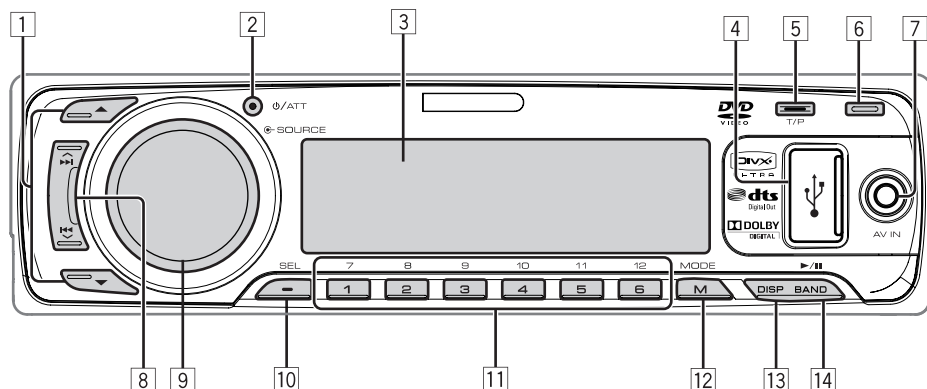
Source operation display



Audio level meter display
(see "LevelMeter" on page 36)

Basic operations

Using the control panel

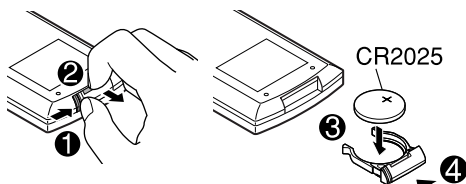


- | | |
|--|--|
| <p>1 • TUNER: Select preset station.</p> <p>• DISC/USB: Select title/program/playlist/folder.</p> <p>• USB-iPod: Enter the main menu [Hold].</p> <p>2 • Turn on the power.</p> <p>• Turn off the power [Hold].</p> <p>• Attenuate the sound (if the power is on).</p> <p>3 Display window</p> <p>4 USB (Universal Serial Bus) input jack</p> <p>5 • Activate/deactivate TA Standby Reception.</p> <p>• Enter programme type searching mode [Hold].</p> <p>6 Flip down the control panel.</p> <p>• To eject the disc, flip down the control panel then press ▲ on the unit.</p> <p>7 AV-IN (video) input jack</p> <p>8 • TUNER: Search for station.</p> <p>• DISC/USB/USB-iPod: Select chapter/track.</p> | <p>9 • Volume control [Turn].</p> <p>• Select the source [Press].</p> <p>TUNER → DISC* → USB* (or USB-iPod)*
 → LINE IN → AV IN → (back to the beginning)</p> <p>10 • Select/adjust the sound mode.</p> <p>• Enter the PSM settings [Hold].</p> <p>11 • TUNER: Select preset station.</p> <p>• DISC/USB: Select chapter/title/program/folder/track.</p> <p>12 Enter functions mode.</p> <p>13 Change the display information and pattern.</p> <p>14 • TUNER: Select the bands.</p> <p>• DISC/USB/USB-iPod: Start/pause playback.</p> |
|--|--|

* You cannot select these sources if they are not ready or not connected.

Basic operations — Remote controller

Installing the lithium coin battery (CR2025)



If the range of effectiveness of the remote controller decreases, replace the battery.

For USA-California Only

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material—special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate

Before using the remote controller:

- Aim the remote controller directly at the remote sensor on the unit.
- DO NOT expose the remote sensor to bright light (direct sunlight or artificial lighting).

The unit is equipped with the steering wheel remote control function.

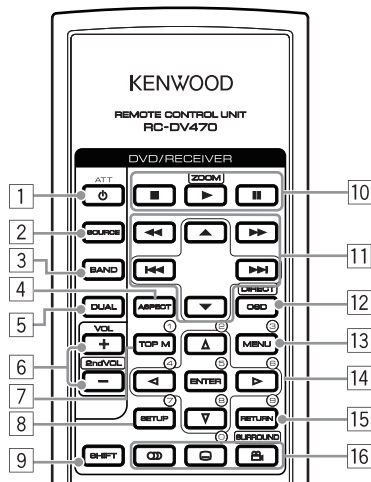
- See the Installation/Connection Manual (separate volume) for connection.

Warning:

To prevent accidents and damage

- Do not install any battery other than CR2025 or its equivalent.
- Store the battery in a place where children cannot reach.
- Do not recharge, short, disassemble, or heat the battery or dispose of it in a fire.
- Do not leave the battery with other metallic materials.
- Do not poke the battery with tweezers or similar tools.
- Wrap the battery with tape and insulate when throwing away or saving it.

Main elements and features



- 1 • Turns on the power.
- 2 • Attenuates the sound if the power is on.
- 3 • Turns off the power if pressed and held (while the power is on).
- 4 • Selects the source.
- 5 • Selects the FM/AM, and satellite radio bands.
- 6 • Changes the aspect ratio of the playback pictures.
- 7 • Not used for this unit.
- 8 • Adjusts the volume level.
 - Not used as 2nd VOL button for this unit.
- 9*1 • DVD/DivX: Shows the disc menu.
- 10 • VCD: Resumes PBC playback (see page 22).
- 11*1 • Not used as SETUP button for this unit.
- 12 • SHIFT button

- 10 ■ (stop), ► (play), || (pause)
- ► (play) also functions as ZOOM button when pressed with SHIFT button (see page 20).

11 **For advanced disc operations:**

- ▲ / ▼
DVD: Selects the titles.
Other discs except VCD/CD: Selects the folders.
- ◀◀ / ▶▶:
Press briefly: reverse skip/forward skip
Press and hold: reverse search/forward search
- ◀◀ / ▶▶: reverse search/forward search

For FM/AM operations:

- ▲ / ▼: Changes the preset stations.
- ◀◀ / ▶▶:
– Functions to search for stations.
Press briefly: Auto Search
Press and hold: Manual Search

- 12 Shows the on-screen bar.
- Also functions as DIRECT button when pressed with SHIFT button. (see pages 20 and 21)

- 13*1
- DVD/DivX: Shows the disc menu.
 - VCD: Resumes PBC playback. (see page 22)

- 14*1
- Makes selection/settings.
 - ◀▷: Skips back or forward by 5 minutes for DivX/MPEG1/MPEG2.

- 15*1 RETURN button




- 16
- DVD: Selects audio language (○○), subtitles (....), angle (📺)*2.
 - DivX: Selects audio language (○○), subtitles (....).
 - VCD: Selects audio channel (○○).

*1 Functions as number buttons when pressed with SHIFT button.


- TUNER: Selects preset station.
- DISC: Selects chapter/title/folder/track.


*2 Not used as SURROUND button for this unit.

Listening to the radio

1		Select "TUNER".
2		Select the bands. <div>FM1 → FM2 → FM3 → AM</div>
3		Search for a station to listen—Auto Search. Manual Search: Hold either one of the buttons until "M" lights up on the display, then press it repeatedly. <ul style="list-style-type: none">When receiving an FM stereo broadcast with sufficient signal strength, ST lights up on the display.

When an FM stereo broadcast is hard to receive

1 


2 

7
1


Mono Off → Mono On


Reception improves, but stereo effect will be lost.

- MO** lights up on the display.

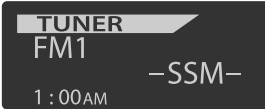
2 

10
4



3 

10
4



Local FM stations with the strongest signals are searched and stored automatically in the selected FM band.

3 Exit from the setting.



FM station automatic presetting —SSM (Strong-station Sequential Memory)

You can preset up to six stations for each band.


1 While listening to a station...




Manual presetting

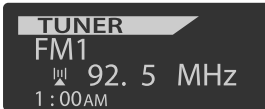
Ex.: Storing FM station of 92.5 MHz into preset number 4 of the FM1 band.

Using the number buttons

1 

FM1 → FM2 → FM3 → AM

2 





Using the Preset Station list

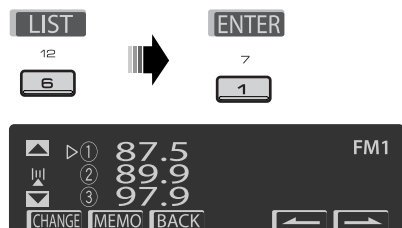
- When **BACK** is shown on the display, you can move back to the previous screen by pressing number button 3.

1 Follow steps 1 and 2 of “Using the number buttons” on page 12.

- By holding / , the Preset Station List will also appear (go to step 4).



3 Display the Preset Station List.



4 Select the preset number you want to store into.



- You can move to the lists of the other FM bands by pressing number button 5 () or 6 () repeatedly.

5 Store the station.



Listening to the preset station on the Preset Station List

1 Display the Preset Station List, then select the preset station you want to listen to.

2 Change to the selected station.



The following features are available only for FM RDS stations.

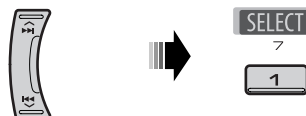
Searching for FM RDS programme —PTY Search

You can tune in to a station broadcasting your favorite programme by searching for a PTY code.

- When **BACK** appears on the display, you can move back to the previous display by pressing number button 3.
- When / appears on the display, you can move to the other lists by pressing number button 5 or 6 repeatedly.

1 [Hold]

2 Select “Search”.



The six preset PTY codes appears on the display.

Continued on the next page

3 Select a PTY code.



You can select a PTY code from the 29 preset PTY codes or from the six stored PTY codes.

- To store your favorite programme types, see the following.

4 Start searching for your favorite programme.



If there is a station broadcasting a programme of the same PTY code as you have selected, that station is tuned in.

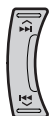
Storing your favorite programme types

You can store six favorite programme types.

- When **BACK** appears on the display, you can move back to the previous display by pressing number button 3.

1 [Hold]

2 Select "Memory".



3 Select a preset number ("Preset1" – "Preset6") you want to store into.



4 Select one of the PTY codes.



5 Store the selected PTY code.



7



Ex.: When "Classics" is selected in step 4

6 Repeat steps 3 to 5 to store other PTY codes into other preset numbers.

7 Exit from the setting.



■ Activating TA/PTY Standby Reception

TA Standby Reception



TP either lights up or flashes on the display.

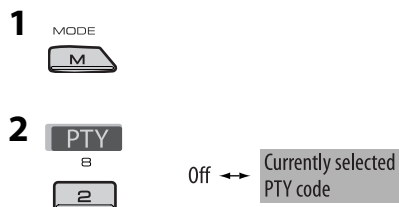
- If **TP** lights up, the unit temporarily will switch to Traffic Announcement (TA), if available, from any source other than AM.

The volume changes to the preset T1 volume level if the current level is lower than the preset level (see page 38).

- If **TP** flashes, TA Standby reception is not yet activated. Tune in to another station providing the RDS signals.

To deactivate TA Standby Reception, press TP again. **TP** goes off.

PTY Standby Reception



3 Select a PTY code.



4 Exit from the setting.



PTY either lights up or flashes on the display.

- If **PTY** lights up, the unit temporarily will switch to your favorite PTY programme from any source other than AM.
- If **PTY** flashes, PTY Standby reception is not yet activated. Tune in to another station (or service) providing the RDS signals.

To deactivate PTY Standby Reception, select "Off" in step 2. **PTY** goes off.

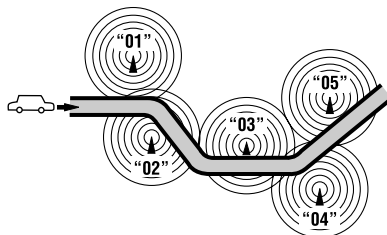
Available PTY codes

News, Affairs, Info, Sport, Educate, Drama, Culture, Science, Varied, Pop M (music), Rock M (music), Easy M (music), Light M (music), Classics, Other M (music), Weather, Finance, Children, Social, Religion, Phone In, Travel, Leisure, Jazz, Country, Nation M (music), Oldies, Folk M (music), Document

Tracing the same programme— Network-Tracking Reception

When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to another FM RDS station of the same network, possibly broadcasting the same programme with stronger signals (see the illustration below).

Programme A broadcasting on different frequency areas (01 – 05)



When shipped from the factory, Network-Tracking Reception is activated.

To change the Network-Tracking Reception setting, see "AF-Regn'1" on page 38.

Automatic station selection— Programme Search

Usually when you press the number buttons, the preset station is tuned in.

If the signals from the FM RDS preset station are not sufficient for good reception, this unit, using the AF data, tunes in to another frequency broadcasting the same programme as the original preset station is broadcasting.

- The unit takes some time to tune in to another station using programme search.
- See also page 38.

Disc operations

Before performing any operations...


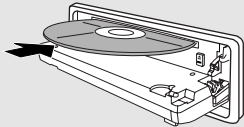

Turn on the monitor to watch the playback picture. If you turn on the monitor, you can also control playback of other discs by referring to the monitor screen. (See pages 22 – 25.)

The disc type is automatically detected, and playback starts automatically (for DVD: automatic start depends on its internal program).

If the current disc does not have any disc menu, all tracks will be played repeatedly until you change the source or eject the disc.

If “⊘” appears on the monitor when pressing a button, the unit cannot accept the operation you have tried to do.

- In some cases, without showing “⊘”, operations will not be accepted.

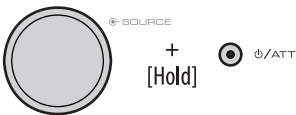
1		Open the control panel. Make sure to detach the USB device before opening the control panel, as it might block the opening mechanism. <ul style="list-style-type: none">• To detach the USB device, see page 26.
2		Insert the disc. Playback starts automatically.
3		Start playback if necessary.

To stop play and eject the disc



- Press SOURCE to listen to another playback source.










Prohibiting disc ejection





To cancel the prohibition, repeat the same procedure.










Operations using the control panel

Pressing (or holding) the following buttons allows you to...

Disc type			 (Number buttons)*3
 DVD Video	[Press] Select chapter [Hold] Reverse/fast-forward chapter*1	Select title	During stop: Locate title During play/pause: Locate chapter
 DVD VR	[Press] Select chapter [Hold] Reverse/fast-forward chapter*1	Select program number/ playlist number	During stop: Locate program During play/pause: Locate chapter
 DivX/MPEG	[Press] Select track [Hold] Reverse/fast-forward track*2	Select folder	Locate particular folder directly
 VCD	[Press] Select track [Hold] Reverse/fast-forward track*1	—	Locate particular track directly (PBC not in use)
 MP3/WMA/WAV	[Press] Select track [Hold] Reverse/fast-forward track*1	Select folder	Locate particular folder directly
 CD	[Press] Select track [Hold] Reverse/fast-forward track*1	—	Locate particular track directly

*1 Search speed: $\times 2 \Rightarrow \times 10$
 *2 Search speed:  **1** \Rightarrow  **2**
 *3 Press to select number 1 to 6; hold to select number 7 to 12.

After pressing M MODE, press the following buttons to...

Disc type			
	Skip 10 chapters (during play or pause)	Repeat Chapter: Repeat current chapter Repeat Title: Repeat current title	—
	Skip 10 chapters (during play or pause)	Repeat Chapter: Repeat current chapter Repeat Program: Repeat current program (not available for Playlist Playback)	—
	Skip 10 tracks (within the same folder)	Repeat Track: Repeat current track Repeat Folder: Repeat current folder	Random Folder: Randomly play all tracks of current folder, then tracks of next folders Random All: Randomly play all tracks
	Skip 10 tracks (PBC not in use)	Repeat Track: Repeat current track (PBC not in use)	Random All: Randomly play all tracks (PBC not in use)
	Skip 10 tracks (within the same folder)	Repeat Track: Repeat current track Repeat Folder: Repeat current folder	Random Folder: Randomly play all tracks of current folder, then tracks of next folders Random All: Randomly play all tracks
	Skip 10 tracks	Repeat Track: Repeat current track	Random All: Randomly play all tracks

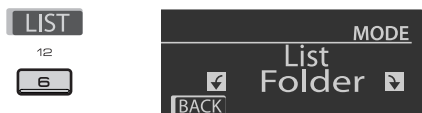
- You can also cancel the playback mode by selecting “Off” or press number button 4 ().

■ Selecting a folder/track on the list (only for MP3/WMA/WAV file)

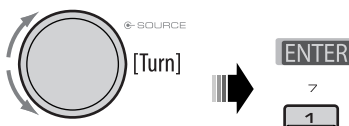
- When **BACK** is shown on the display, you can move back to the previous screen by pressing number button 3.



2 Select "LIST".



3 Select the list type.



Folder ↔ File

4 Select an item.



Ex.: When "File" is selected in step 3

- You can move to the other lists by pressing number button 5 () or 6 () repeatedly.

5 Change to the selected item.

Ⓐ If File List is selected














The list disappears and playback starts.

Ⓑ If Folder List is selected



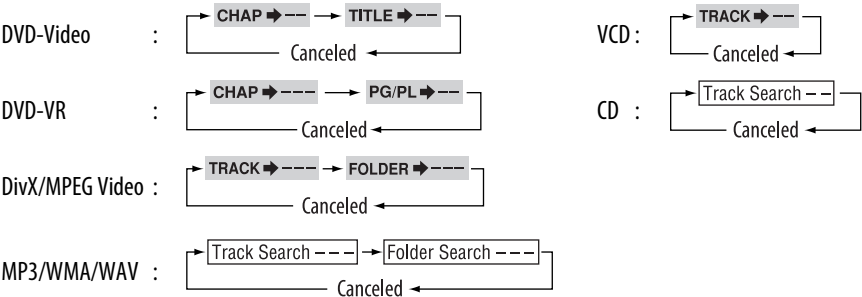
- If the current folder is selected, File List appears, then repeat steps 4 and 5 Ⓐ to start playback.
- If another folder is selected, playback starts from the 1st file of the selected folder.

Operations using the remote controller

Disc Button	DVD Video / DVD VR	DivX/MPEG
	Stop play	Stop play
 	Start play/Pause (if pressed during play)	Start play/Pause (if pressed during play)
 	<ul style="list-style-type: none"> Reverse/forward chapter search*¹ (No sound can be heard.) Slow motion*² during pause (No sound can be heard.) <i>* DVD-VR: Reverse slow motion does not work.</i>	Reverse/forward track search* ⁴ (No sound can be heard.)
 	[Press] Select chapter (during play or pause) [Hold] Reverse/fast-forward chapter search* ³	[Press] Select track (during play or pause) [Hold] Reverse/fast-forward track search* ⁵ (No sound can be heard.)
 	<ul style="list-style-type: none"> DVD-Video: Select title (during play or pause) DVD-VR: Select playlist/program (during play or pause) 	Select folder
 	—	<ul style="list-style-type: none"> Skip back or forward the scenes by about five minutes Select chapter




To search for chapter/title/program/playlist/folder/track directly (DVD/DivX/MPEG Video/VCD/MP3/WMA/WAV/CD)

1 While holding SHIFT, press DIRECT repeatedly to select the desired search mode.



2 While holding SHIFT, press the number buttons (0 – 9) to enter the desired number.

3 Press ENT (enter) to confirm.

		
Stop play	Stop play	Stop play
Start play/Pause (if pressed during play)	Start play/Pause (if pressed during play)	Start play/Pause (if pressed during play)
Reverse/forward track search* ¹ • Forward slow motion* ² during pause. (No sound can be heard.) * Reverse slow motion does not work.	Reverse/forward track search* ¹	Reverse/forward track search* ¹
[Press] Select track (during play or pause) [Hold] Reverse/fast-forward track search* ³ (No sound can be heard.)	[Press] Select track (during play or pause) [Hold] Reverse/fast-forward track search* ³	[Press] Select track (during play or pause) [Hold] Reverse/fast-forward track search* ³
—	Select folder	—
—	—	—

- For DivX/MPEG Video/MP3/WMA/WAV, track is searched within the same folder.
- To erase a misentry, press CLR (clear) while holding SHIFT.
- To return to the previous screen, press RETURN.

*¹ Search speed: ×2 ⇒ ×5 ⇒ ×10 ⇒ ×20 ⇒ ×60
 *² Slow motion speed: ▢1/32 ⇒ ▢1/16 ⇒ ▢1/8 ⇒ ▢1/4 ⇒ ▢1/2
 *³ Search speed: ×2 ⇒ ×10
 *⁴ Search speed: ▢1 ⇒ ▢2 ⇒ ▢3
 *⁵ Search speed: ▢1 ⇒ ▢2

Using menu driven features... (DVD-Video/ DVD-VR)

- 1 Press TOP M/MENU to enter the menu screen.
- 2 Press $\triangle/\nabla/\triangleleft/\triangleright^*/\triangleright^*$ to select an item you want to start play.
- 3 Press ENT (enter) to confirm.

* Not applicable for DVD-VR.

Canceling the PBC playback... (VCD)

- 1 During stop, press DIRECT while holding SHIFT.
 - 2 Hold SHIFT, then press the number buttons (0 – 9) to enter the desired number.
 - 3 Press ENT (enter) to confirm.
- To resume PBC, press TOP M/MENU.

Operations using the on-screen bar

(DVD/DVD-VR/DivX/MPEG Video/VCD)

These operations are possible on the monitor using the remote controller.

1 Show the on-screen bar (see page 23).

 (twice)

2 Select an item.



3 Make a selection.

If pop-up menu appears...



- To cancel pop-up menu, press RETURN.
- For entering time/numbers, see the following.

Entering time/numbers

Press \triangle/∇ to change the number, then press $\triangleleft/\triangleright$ to move to the next entry.

- Each time you press \triangle/∇ , the number increases/decreases by one value.
- After entering the numbers, press ENT (enter).
- It is not required to enter the zero and trailing zeros (the last two digits in the example below).

Ex.: Time search

DVD: : : : (Ex.: 1:02:00)

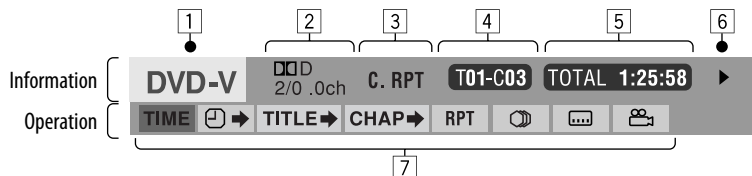
Press \triangle once, then \triangleright twice to go to the third entry, \triangle twice, then press ENT (enter).

To remove the on-screen bar



On-screen bar

Ex.: DVD-Video



- | | |
|--|--|
| <p>1 Disc type</p> <p>2 • DVD-Video/DTS-CD: Audio signal format type and channel
• VCD:PBC</p> <p>3 Playback mode*¹</p> <p>DVD-Video: T. RPT: Title repeat
 C. RPT: Chapter repeat</p> <p>DVD-VR: C. RPT: Chapter repeat
 PG. RPT: Program repeat</p> <p>DivX/MPEG Video: T. RPT: Track repeat
 F. RPT: Folder repeat
 F. RND: Folder random
 A. RND: All random</p> <p>VCD*²: T. RPT: Track repeat
 A. RND: All random</p> <p>4 Playback information</p> <p>T01-C03 Current title/chapter</p> <p>PG001 C002 Current program/chapter</p> <p>PL001 C002 Current playlist/chapter</p> <p>TRACK 01 Current track</p> <p>F001-T001 Current folder/track</p> <p>5 Time indication</p> <p>TOTAL Elapsed playing time of the disc
 (For DVD-Video, elapsed playing time of the current title/program/playlist.)</p> <p>T. REM DVD-Video/DVD-VR: Remaining title/program/playlist time
 VCD: Remaining disc time</p> <p>TIME Elapsed playing time of the current chapter/track*³</p> <p>REM Remaining time of the current chapter/track*³</p> | <p>6 Playback status</p> <p>▶ Play</p> <p>▶▶/◀◀ Forward/reverse search</p> <p>▶/◀ Forward/reverse slow-motion</p> <p> Pause</p> <p>■ Stop</p> <p>7 Operation icons</p> <p>TIME Change time indication (see 5)</p> <p>⌂→ Time Search (Enter the elapsed playing time of the current title/program/playlist or of the disc.)</p> <p>TITLE→ Title Search (by its number)</p> <p>CHAP→ Chapter Search (by its number)</p> <p>TRACK→ Track Search (by its number)</p> <p>🔊 Change the audio language or audio channel</p> <p>📄 Change or turn off the subtitle language</p> <p>📺 Change the view angle</p> <p>RPT Repeat play*¹</p> <p>RND Random play*¹</p> |
|--|--|

*¹ For repeat play/random play, see also page 18.

*² While PBC is not in use.

*³ Not applicable for DVD-VR.

Operations using the control screen

(DivX/MPEG Video/MP3/WMA/WAV/CD)

These operations are possible on the monitor using the remote controller.

1 Show the control screen.

DivX/MPEG Video: Press **■** during play.
MP3/WMA/WAV/CD: Automatically appear during play.

2 Select “Folder” column or “Track” column (except for CD).



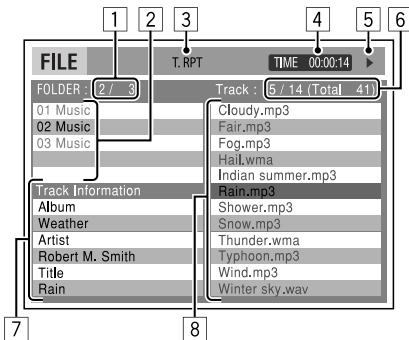
3 Select a folder or track.



4 Start playback.

DivX/MPEG Video: Press ENT (enter) or **▶/II**.
MP3/WMA/WAV/CD: Playback starts automatically.

Control screen



Ex.: MP3/WMA/WAV disc

- 1 Current folder number/total folder number
- 2 Folder list with the current folder selected
- 3 Selected playback mode
- 4 Elapsed playing time of the current track
- 5 Operation mode icon (▶, ■, II, ►►, ◀◀)
- 6 Current track number/total number of tracks in the current folder (total number of tracks on the disc)

- 7 Track information
- 8 Track list with the current track selected

To select a playback mode

- 1 While control screen is displayed...



Playback mode selection screen appears on the folder list section of the control screen.

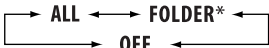
- 2 Select a playback mode.



- 3 Select an item.



RANDOM:



Mode	Playback functions
F. RPT (folder repeat):	Repeat current folder
T. RPT (track repeat):	Repeat current track
A. RND (all random):	Randomly play all tracks
F. RND (folder random):	Randomly play all tracks of current folder, then tracks of next folders

- 4 Confirm the selection.



* Not selectable for CD.

Operations using the list screen

(DVD-VR/DivX/MPEG Video/MP3/WMA/WAV)

These operations are possible on the monitor using the remote controller.

List screen (DivX/MPEG Video/MP3/WMA/WAV)

Before playing, you can display the folder list/track list to confirm the contents and start playing a track.

1 Display the folder list while stop.



2 Select an item from the folder list.



- Track list of the selected folder appears.
- To go back to the folder list, press RETURN.

3 Select a track to start playing.



- MP3/WMA/WAV: Control screen appears (see page 24).

Folder: 153/240		Track: 154/198		Page: 4/ 6	
fol130	fol140	fol150	fol160		
fol131	fol141	fol151	fol161		
fol132	fol142	fol152	fol162		
fol133	fol143	fol153	fol163		
fol134	fol144	fol154	fol164		
fol135	fol145	fol155	fol165		
fol136	fol146	fol156	fol166		
fol137	fol147	fol157	fol167		
fol138	fol148	fol158	fol168		
fol139	fol149	fol159	fol169		

Ex.: Folder list

- 1 Current folder number/total folder number
- 2 Current track number/total number of tracks in the current folder

- 3 Current page/total number of the pages included in the list
- 4 Current folder/track (highlighted bar)

List screen (DVD-VR)

You can use ORIGINAL PROGRAM or PLAY LIST screen anytime while playing DVD-VR with its data recorded.

- 1 Select a list screen.

ORIGINAL PROGRAM					
No	Date	Ch	Time	Title	
1	25/04/07	4ch	19:00	Kenwood	
2	17/05/07	8ch	10:30		
3	22/05/07	8ch	17:00	Musical Festival	
4	26/05/07	L-1	13:19	children 001	
5	20/05/07	4ch	22:00		
6	25/06/07	L-1	8:23	children 002	

PLAY LIST					
No	Date	Chap	Length	Title	
1	25/05/07	001	1:03:16	Kenwood	
2	17/06/07	005	1:35:25		
3	20/06/07	003	0:10:23		
4	25/06/07	001	0:07:19	Favorite music	
				children001-002	

- 1 Program/playlist number
- 2 Recording date
- 3 Recording source (TV station, the input terminal of the recording equipment, etc.)
- 4 Start time of recording
- 5 Title of the program/playlist*
- 6 Current selection (highlighted bar)
- 7 Creating date of playlist
- 8 Number of chapters
- 9 Playback time

* The title of the original program or playlist may not be displayed depending on the recording equipment.

- 2 Select an item from the list.



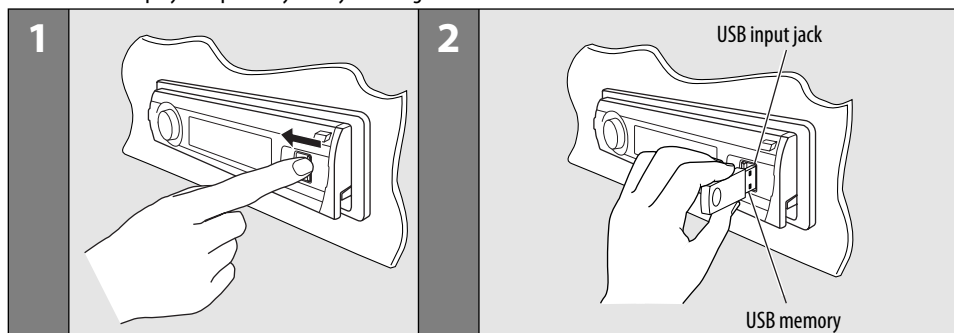
Listening to the USB device

You can connect a USB mass storage class device such as a USB memory, portable HDD, etc. to the unit.

- You can also connect an Apple iPod to the USB input jack. For details of the operations, see pages 28 – 31.

This unit can play DivX/MPEG Video/MP3/WMA/WAV tracks stored in a USB device.

All tracks will be played repeatedly until you change the source or detach the USB device.



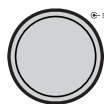
Turn on the monitor to watch the playback picture if you play back a DivX/MPEG file. You can also control playback by referring to the monitor screen. (See also pages 22 – 25.)

- See pages 20 – 25 for operation using the remote controller.
- See pages 40, 41, and 44 for more settings.

If “⊘” appears on the monitor when pressing a button, the unit cannot accept the operation you have tried to do.

- In some cases, without showing “⊘”, operations will not be accepted.

If a USB device has been attached...



Playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

To stop play and detach the USB device

Straightly pull it out from the unit.

- Press SOURCE to listen to another playback source.

You can operate the USB device in the same way you operate the files on a disc. (See pages 17 – 25.)

- You cannot select “USB” when Dual Zone is in use (see page 27).


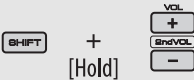

Cautions:

- Avoid using the USB device if it might hinder your safety driving.
- Do not pull out and attach the USB device repeatedly while “Reading” is shown on the display.
- Do not start the car engine if a USB device is connected.
- This unit may not be able to play the files depending on the type of USB device.
- Operation and power supply may not work as intended for some USB devices.
- You cannot connect a computer to the USB input terminal of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damages to the device.
- Some USB devices may not work immediately after you turn on the power.
- For more details about USB operations, see page 44.

Dual Zone operations

- You can enjoy disc playback on the external monitor connected to the VIDEO output terminal and 2nd AUDIO OUT plugs while listening to any source (other than “AM” and “USB”) through the speakers.
- You cannot select “AM” or “USB” as the source when Dual Zone is activated.
 - When Dual Zone is in use, you can only operate the DVD/CD player using the remote controller. For operations, see pages 20 – 25.

These operations are possible on the monitor using the remote controller.

1		Activate Dual Zone. <ul style="list-style-type: none">• DUAL indicator lights up on the display. <p>The main source automatically changes to “DISC”. To select a different source (main source) to listen through the speakers, press SOURCE on the <u>control panel</u>.</p> <ul style="list-style-type: none">• By using the buttons on the control panel, you can operate the newly selected source without affecting Dual Zone operations.
2		Adjust the volume through the 2nd AUDIO OUT plug.
3		Operate the DVD/CD player using the remote controller by referring to the monitor screen.

To cancel Dual Zone operations



- DUAL indicator goes off.

On the control panel:

1



2

- Enter Dual Zone settings.
Activate or deactivate Dual Zone.



11



The source automatically changes to “DISC” when Dual Zone is activated.

Listening to the iPod

You can connect an Apple iPod using the following cable or adapter:

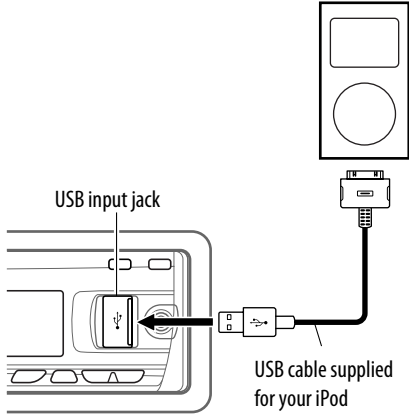
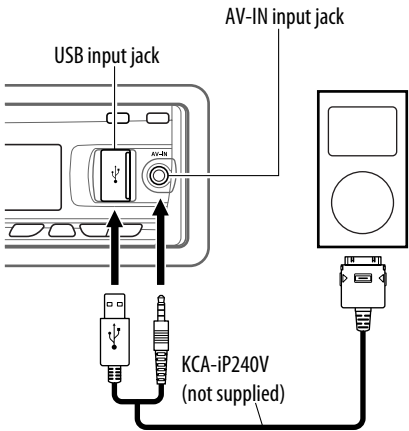
To:	Cable or adapter:	Connect to:
Listen to the music	USB 2.0 cable (supplied for the iPod)	USB input jack on the control panel
Watch the video	USB Audio and Video cable for iPod, KCA-iP240V (not supplied)	USB input jack and AV-IN input jack on the control panel <ul style="list-style-type: none">• Turn on the monitor to watch the video.

- You can control playback from the unit.
- Disconnecting the iPod will stop playback. Press SOURCE to listen to another playback source.
- For details, refer also to the manual supplied for your iPod.
- See also page 45.

Caution:






- Avoid using the iPod if it might hinder your safety while driving.
- Make sure all important data has been backed up to avoid losing the data.

When connecting with the USB cable

Connect using USB 2.0 cable (supplied for iPod):	Connect using USB Audio and Video cable for iPod, KCA-iP240V (not supplied):
	

Playback starts automatically from where it had been paused previously.*

* Not applicable for video files.

	[Press] Go to the next or previous track. [Hold] Fast-forward or reverse the track during playback.
 	[Hold] Enter main menu.
 	[Press] Pause/resume playback.

■ Selecting a track from the menu

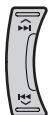
1 Enter the main menu.



2 Select the desired menu.



3 Confirm the selection.



- By holding ►►|▲, you can start play back the selected item directly.
- By holding |◀◀▼, you can exit from the menu.
- By holding ▲/▼, you can fast skip in every layer of the main menu.

Menu items:

For Music:

"Playlists", "Artists", "Albums", "Songs", "Podcasts", "Genres", "Composers", or "Audiobooks"

For Videos:

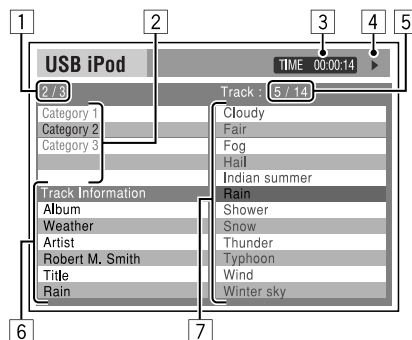
"Video Playlists", "Movies", "Music Videos", "TV Shows", or "Video Podcasts"

- If a track is selected, playback starts automatically.
- If the selected item has another layer, you will enter the layer. Repeat steps 2 and 3 until the desired track is played.

Operations using the control screen

- These operations are possible on the monitor using the remote controller.
- Connect your iPod to the USB input jack on the control panel using the USB cable supplied for your iPod, or KCA-iP240V for watching video file.

1 Turn on the monitor.



Control screen appears on the monitor.

- 1 Current category number/total category number
- 2 Category list with the current category selected
- 3 Elapsed playing time of the current track
- 4 Operation mode icon (►, ■, II, ►►, ◀◀)
- 5 Current track number/total number of tracks in the current category
- 6 Track information
- 7 Track list with the current track selected

2 Select the desired item.

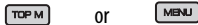


If the selected item has another layer, you will enter the layer. Repeat this step until the desired track is played.

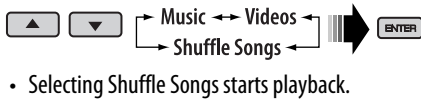
Continued on the next page

To select a track from Search Mode

- 1 Enter Search Mode menu.



- 2 Select a menu item.



- Selecting Shuffle Songs starts playback.

- 3 Select a search mode category, then the desired track.



Search modes category:

For Music:

“Playlists”, “Artists”, “Albums”, “Songs”, “Podcasts”, “Genres”, “Composers”, or “Audiobooks”

For Videos:

“Video Playlists”, “Movies”, “Music Videos”, “TV Shows”, or “Video Podcasts”

- Available Search Modes depend on the type of your iPod.

- **To return to the previous search mode screen,** press MENU.
- **To return to the control screen,** press RETURN.

To select a playback mode/change the speed of the Audiobooks

- 1 While control screen is displayed...

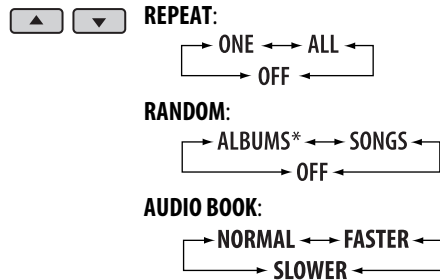


Playback mode selection screen appears on the category list section of the control screen.

- 2 Select an item.



- 3 Select a playback mode/speed.



REPEAT ONE	Same as “Repeat One”.
REPEAT ALL	Same as “Repeat All”.
RANDOM ALBUMS*	Same as “Shuffle Albums”.
RANDOM SONGS	Same as “Shuffle Songs”.
NORMAL	Plays at normal speed.
FASTER	Plays faster.
SLOWER	Plays slower.

* Functions only if you select “All Albums” or “All” in “Albums” of the main “MENU”.

4 Confirm the selection.



- You can also change the settings from the PSM (Preferred Setting Mode) items. See “AudioBooks” on page 38.



Listening to the other external components

You can connect an external component to:

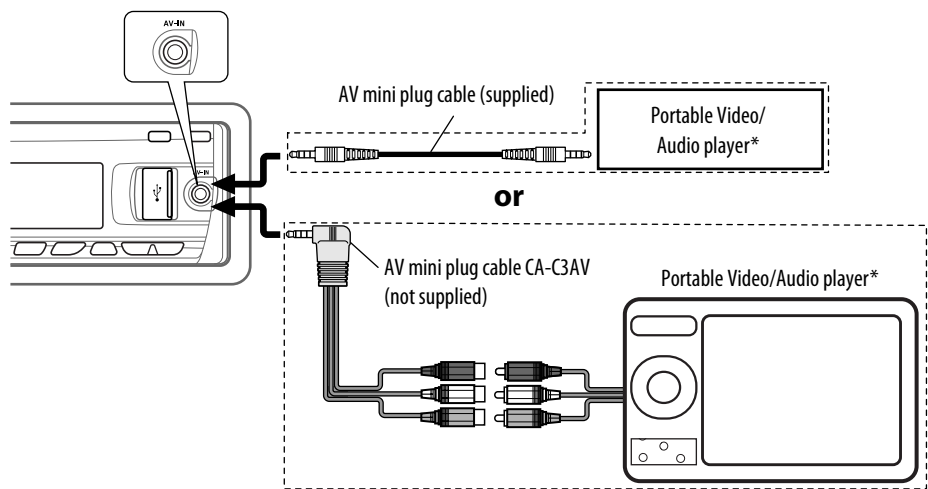
- AV-IN (video) input jack on the control panel.

Preparation: Make sure to connect and turn on the monitor to watch the playback picture. If the parking brake is not engaged, “Parking Brake” appears on the display and no playback video on the monitor. For connection, see Installation/Connection Manual (separate volume).

- LINE IN terminals on the rear of this unit.

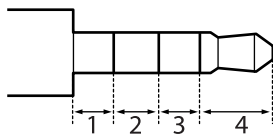
1		Select “LINE IN”, or “AV IN”.
2	—	Turn on the connected component and start playing the source.
3		Adjust the volume.
4	—	Adjust the sound as you want (see pages 34 and 35).

Connecting an external component to the AV-IN input jack



- When the supplied AV mini plug cable and commercially-supplied $\phi 3.5$ mini plug cable (male – male) are used, a noise may be generated during source switching.



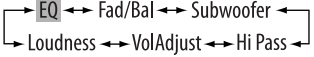
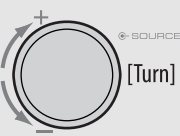

* Portable Video/Audio player of this pin-allocation can be connected:



1	2	3	4	
Audio (R)	GND	Video	Audio (L)	Camcorder
Video	GND	Audio (R)	Audio (L)	iPod, etc.
GND		Audio (R)	Audio (L)	AUX

Selecting a preset sound mode

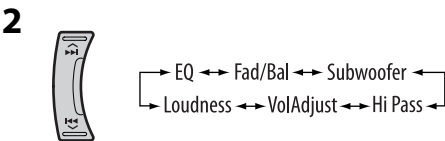
You can select a preset sound mode suitable to the music genre (iEQ: intelligent equalizer).

1		Enter the setting menu.
2		Select "EQ". 
3		Select "On". <ul style="list-style-type: none">If "Bypass" is selected, you can listen to the original sound mode recorded. PURE lights up on the display.
4		Select a preset sound mode.

Adjusting the sound

You can adjust the sound characteristics to your preference.

- When **BACK** is shown on the display, you can move back to the previous screen by pressing number button 3 or 6.



- For "EQ" setting, see above.

3 Adjust the selected setting item.

A Fad/Bal (Fader/Balance)

- Press number button 1 (**SELECT**) to move to the "Fad/Bal" adjustment display.
- Adjust the speaker output balance by pressing:
▲ / ▼: between the front and rear speakers. [F6 to R6]

◀◀ ▼/▶▶ ▲: between the left and right speakers. [L6 to R6]

B Subwoofer

- Press number button 1 (**SELECT**) to move to the "Subwoofer" adjustment display.
- Use ◀◀ ▼/▶▶ ▲ to select a cutoff frequency to the subwoofer.
 - Off*: All signals are sent to the subwoofer.
 - 55Hz: Frequencies higher than 55 Hz are cut off.
 - 85Hz: Frequencies higher than 85 Hz are cut off.
 - 120Hz: Frequencies higher than 120 Hz are cut off.
- Turn the control dial to adjust the subwoofer output level. [0 to 8]
- Press number button 1 (**MORE**) to move to another setting level.
◀◀ ▼/▶▶ ▲: select the quality of LPF. [−12dB/oct or −24dB/oct]
Control dial: Turn the control dial to select the subwoofer phase. [0deg (normal) or 180deg (reverse)]

Continued on the next page

* If "Off" is selected in step 2, you can only adjust the subwoofer phase.

C Hi Pass (Hi Pass Filter)

Turn the control dial to select the cutoff frequency to the front/rear speakers. Set this to match the LPF setting.

- Off: All signals are sent to the front/rear speakers.
- 62Hz: Frequencies lower than 62 Hz are cut off.
- 95Hz: Frequencies lower than 95 Hz are cut off.
- 135Hz: Frequencies lower than 135 Hz are cut off.

D VolAdjust, [-5 to +5]

Turn the control dial to adjust the input level of each source (except FM).

Adjust to match the input level of the FM sound level.

- Before making an adjustment, select the source you want to adjust.

E Loudness, [Off or On]

Turn the control dial to select "Off" or "On". When "On" is selected, low and high frequencies sound are boosted to produce a well-balanced sound at low volume level.

4 Exit from the setting.



Storing your own sound modes

You can adjust the sound modes and store your own adjustments in memory.

- When **BACK** is shown on the display, you can move back to the previous screen by pressing number button 6.

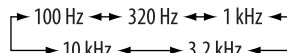
1



2 Select a sound mode.



3 Select a frequency range to adjust.



4 Adjust the sound elements of the selected frequency range.

- 1 Press **◀◀▼/▶▶▲** to select the frequency band, then press **▲ / ▼** to enhanced level for the selected frequency band. [-6 to +6]
- 2 Press number button 5 (**FREQ**), then turn the control dial to select the frequency.
- 3 Press number button 5 (**Q**), then turn the control dial to select the quality slope (Q).

5 Repeat steps 3 and 4 to adjust the other frequency bands.

6 Store the adjustments.



Preset value setting for each sound mode

Sound mode	Preset value				
	Band 1 (100 Hz)	Band 2 (320 Hz)	Band 3 (1 kHz)	Band 4 (3.2 kHz)	Band 5 (10 kHz)
USER	0	0	0	0	0
ROCK	+3	+2	0	+1	+1
CLASSIC	+2	+2	0	+1	0
POPS	0	+1	0	+1	+2
HIP HOP	+4	+1	-2	0	+1
JAZZ	+3	+2	+1	+2	+2

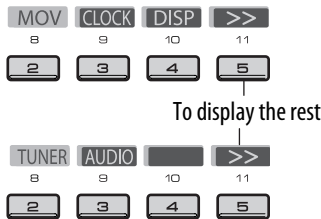
General settings—PSM

You can change PSM (Preferred Setting Mode) items listed in the table below and on pages 36 – 39.

1 Enter the PSM settings.



2 Select a PSM category.



3 Select a PSM item.



By pressing either one of the buttons repeatedly, you can also move to the item of the other categories.

4 Adjust the selected PSM item.



5 Repeat steps 2 – 4 to adjust other PSM items if necessary.

6 Finish the procedure.



Category	Indication	Item (__ : Initial)	Setting, [reference page]
MOV (movie)	Demo Display demonstration	<ul style="list-style-type: none">• On• Off	<ul style="list-style-type: none">: Display demonstration will be activated automatically if no operation is done for about 20 seconds, [8].: Cancels.
	LevelMeter Audio level meter	<ul style="list-style-type: none">• Meter 1• Meter 2	<ul style="list-style-type: none">: Select the different level meter patterns.• Press DISP to show the selected level meter.
CLOCK	Clock Disp *1 Clock display	<ul style="list-style-type: none">• On• Off	<ul style="list-style-type: none">: Clock time is shown on the display when the power is turned off.: Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [8].

*1 If the power supply is not interrupted by turning off the ignition key of your car, it is recommended to select "Off" to save the car's battery.

Category	Indication	Item (__ : Initial)	Setting, [reference page]
CLOCK	Clock Hr Hour adjustment	0 – 23 (1 – 12AM/ 1 – 12PM)	: Initial: 0 (0:00AM), [8].
	Clock Min Minute adjustment	00 – 59	: Initial: 00 (0:00AM), [8].
	24H/12H Time display mode	<ul style="list-style-type: none"> • 12Hours • 24Hours 	: See also page 8 for setting.
	Clock Adj Clock adjustment	<ul style="list-style-type: none"> • Auto • Off 	: The built-in clock is automatically adjusted using the CT (clock time) data in the RDS signal. : Cancels.
DISP (display)	Language	<ul style="list-style-type: none"> • English • Russian 	: Folder name, file name, and tag information are displayed in alphabetic character codes. : Displayed in Russian character codes. • Requires the power off and on operation after changed the setting.
	Scroll * ² Scroll	<ul style="list-style-type: none"> • Once • Auto • Off 	: Scrolls the track information only once. : Repeats the scroll (in 5-second intervals). : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
	Dimmer Dimmer	<ul style="list-style-type: none"> • Auto • Off • On • Time Set 	: Dims the display when you turn on the headlights. : Cancels. : Dims the display and button illumination. : Set the timer for dimmer, [39]. Any hour – Any hour
	From – To * ³	—	: Initial: 18 – 7
	Contrast Contrast	1 – 8 Initial: 5	: Adjust the display contrast to make the display indications clear and legible.
	LCD Type Display type	<ul style="list-style-type: none"> • Auto • Positive • Negative 	: Positive pattern will be selected during the day time* ⁴ ; while negative pattern will be used during the night time* ⁴ . : Positive pattern of the display. : Negative pattern of the display.
	Tag Tag display	<ul style="list-style-type: none"> • On • Off 	: Shows the tag while playing MP3/WMA/WAV tracks. : Cancels.

*² Some characters or symbols will not be shown correctly (or will be blanked) on the display.

*³ Adjustable only when “Dimmer” is set to “Time Set”.

*⁴ Depends on the “Dimmer” setting.

Continued on the next page

Category	Indication	Item (__ : Initial)	Setting, [reference page]
TUNER	AF-Regn'l Alternative frequency/ regionalization reception	<ul style="list-style-type: none"> • AF • AF REG • Off 	: When the currently received signals become weak, the unit switches to another station or service (the programme may differ from the one currently received), [15]. : When the currently received signals become weak, the unit switches to another station broadcasting the same programme. : Cancels.
	TI Vol Traffic announcement volume	Volume 0 – Volume 30 (or Volume 0 – Volume 50)* ⁵	: Initial: Volume 15
	P-Search Programme search	<ul style="list-style-type: none"> • On • Off 	: Activates Programme Search, [15]. : Cancels.
	IF Band Intermediate frequency band	<ul style="list-style-type: none"> • Auto • Wide 	: Increases the tuner selectivity to reduce interference noises between adjacent stations. (Stereo effect may be lost.) : Subject to interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.
AUDIO	Telephone Telephone muting	<ul style="list-style-type: none"> • Muting 1/ Muting 2 • Off 	: Select either one which mutes the sounds while using a cellular phone. : Cancels. • To use the TEL Mute feature, you need to hook up the MUTE wire to your telephone using a commercial telephone accessory.
	AudioBooks * ⁶ Speed control of "Audiobook"	<ul style="list-style-type: none"> • Normal • Faster • Slower 	: You can select the playback speed of the "Audiobook" sound file in your iPod. • Initial selected item depends on your iPod setting.
	Amp Gain Amplifier gain control	<ul style="list-style-type: none"> • High PWR • Low PWR 	: Volume 00 – Volume 50 : Volume 00 – Volume 30 (Select if the maximum power of each speaker is less than 50 W to prevent damaging the speaker.)
	Rear Spk * ⁷ Rear speaker output	<ul style="list-style-type: none"> • On • Off 	: Select this to turn on the rear speaker output. : Cancels.

*⁵ Depends on the amplifier gain control.

*⁶ Displayed only when an iPod is connected to the USB input jack and playback is controlled from the unit.

*⁷ Displayed only when Dual Zone is activated (see page 27).

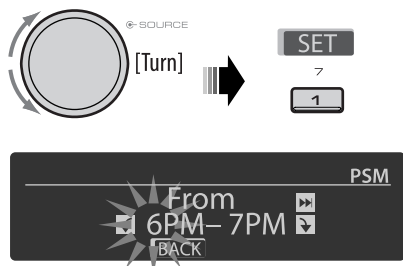
■ Setting the time for dimmer

- When **BACK** is shown on the display, you can move back to the previous screen by pressing number button 3.

1 Follow steps 1 to 3 on page 34.

- In step 2, select "DISP".
- In step 3, select "Dimmer".

2 Select "Time Set".



3 Adjust the dimmer start time.

- 1 Turn the control dial to set the dimmer start time.
- 2 Press ►►|▲ to select "To". Then, turn the control dial to set the dimmer end time.

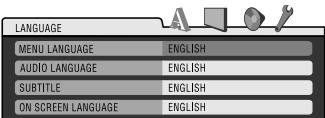
4 Exit from the setting.



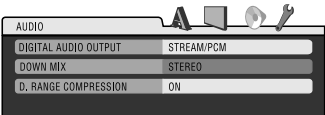
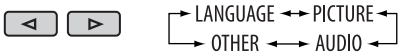
Disc setup menu

These operations are possible on the monitor using the remote controller.

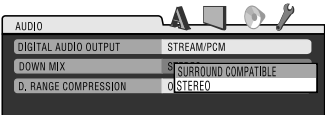
1 Enter the disc setup menu while stop.



2 Select a menu.



3 Select an item you want to set up.



- To cancel pop-up menu, press RETURN.

4 Select an option.



To return to normal screen



Menu	Item	Setting
LANGUAGE	MENU LANGUAGE	Select the initial disc menu language. Refer also to “Language codes” on page 48.
	AUDIO LANGUAGE	Select the initial audio language. Refer also to “Language codes” on page 48.
	SUBTITLE	Select the initial subtitle language or remove the subtitle (OFF). Refer also to “Language codes” on page 48.
	ON SCREEN LANGUAGE	Select the language for the on screen display.
PICTURE	MONITOR TYPE	Select the monitor type to watch a wide screen picture on your monitor. <div><div>16:9 </div><div>4:3 LETTERBOX </div><div>4:3 PAN SCAN </div></div>

Menu	Item	Setting
PICTURE	OSD POSITION	<p>Select the on-screen bar position on the monitor.</p> <ul style="list-style-type: none"> • 1 : Higher position • 2 : Lower position (Guidance below the disc setup menu will disappear.)
	DIGITAL AUDIO OUTPUT	<p>Select the signal format to be emitted through the DIGITAL OUT (Optical) terminal.</p> <ul style="list-style-type: none"> • OFF : Cancels. • PCM ONLY : Select for an amplifier or a decoder incompatible with Dolby Digital, DTS, MPEG Audio, or when connecting to a recording device. • DOLBY DIGITAL/PCM : Select for an amplifier or a decoder compatible with Dolby Digital. • STREAM/PCM : Select for an amplifier or a decoder compatible with Dolby Digital, DTS, and MPEG Audio.
AUDIO	DOWN MIX	<p>When playing back a multi-channel disc, this setting affects the signals reproduced through the LINE OUT jacks (and through the DIGITAL OUT terminal when "PCM ONLY" is selected for "DIGITAL AUDIO OUTPUT").</p> <ul style="list-style-type: none"> • SURROUND COMPATIBLE : Select to enjoy multi-channel surround audio by connecting an amplifier compatible with Dolby Surround. • STEREO : Normally select this.
	D. RANGE COMPRESSION	<p>You can enjoy a powerful sound at low or middle volume levels while playing a Dolby Digital software.</p> <ul style="list-style-type: none"> • AUTO : Select to apply the effect to multi-channel encoded software (excluding 1-channel and 2-channel software). • ON : Select to always use this function.
	DivX REGISTRATION	<p>This unit has its own Registration Code. Once you have played back a disc in which the Registration Code recorded, this unit's Registration Code is overwritten for copyright protection.</p>
OTHER	FILE TYPE (DISC)	<p>Select playback file type when a disc contains different types of files.</p> <ul style="list-style-type: none"> • AUDIO : Play MP3/WMA/WAV files. • VIDEO : Play DivX/MPEG Video files. • AUDIO + VIDEO : Play MP3/WMA/WAV/DivX/MPEG Video files.
	FILE TYPE (USB)	<p>Select playback file type when a USB contains different types of files.</p> <ul style="list-style-type: none"> • AUDIO : Play MP3/WMA/WAV files. • VIDEO : Play DivX/MPEG Video files. • AUDIO + VIDEO : Play MP3/WMA/WAV/DivX/MPEG Video files.

Continued on the next page

More about this unit

■ Basic operations

Turning on the power

- By pressing SOURCE on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a track, playback will start from where it had been stopped previously next time you turn on the power.

General

- If you change the source while listening to a disc, playback stops.
Next time you select “DISC” as the playback source, playback will start from where it had been stopped previously.
- After ejecting a disc or removing a USB device, “No Disc” or “No USB” appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SOURCE to select another playback source.

■ Tuner operations

Storing stations in memory

- During SSM search...
 - All previously stored stations are erased and the stations are stored anew.
 - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
 - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

FM RDS operations

- Network-Tracking Reception requires two types of RDS signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly. Without receiving these data correctly, Network-Tracking Reception will not operate correctly.
- If a Traffic Announcement is received by TA Standby Reception, the volume level automatically changes to the preset level (TI Vol) if the current level is lower than the preset level.
- When Alternative Frequency Reception is activated (with AF selected), Network-Tracking Reception is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Frequency Reception. (See page 15.)
- TA Standby Reception and PTY Standby Reception will be temporarily canceled while listening to an AM station.
- If you want to know more about RDS, visit <http://www.rds.org.uk>.

■ Disc operations

General

- In this manual, words “track” and “file” are interchangeably used.
- This unit can only play back audio CD (CD-DA) files if different type of files are recorded in the same disc.

Inserting a disc

- When a disc is inserted upside down, “Please Eject” appears on the display. Press OPEN, then ▲ to eject the disc.

Ejecting a disc

- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. Playback starts automatically.

- After ejecting a disc, “No Disc” appears and you cannot operate some of the buttons. Insert another disc or press SOURCE to select another playback source.

Playing Recordable/Rewritable discs

- This unit can recognize a total of 5 000 files and 250 folders (a maximum of 999 files per folder).
- This unit can recognize a total 25 characters for file/folder names.
- Use only “finalized” discs.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- This unit may be unable to play back some discs or files due to their characteristics or recording conditions.
- Rewritable discs may require a longer readout time.

Playing DVD-VR files

- For details about DVD-VR format and playlist, refer to the instructions supplied with the recording equipment.

Playing MP3/WMA/WAV files

- The maximum number of characters for folder and file names is 25 characters; 128 characters for MP3/WAV and 64 characters for WMA tag information.
- This unit can play back files with the extension code <.mp3>, <.wma>, or <.wav> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for the MP3/WMA/WAV files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back files recorded in VBR (variable bit rate).
Files recorded in VBR have a discrepancy in elapsed time indication.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.

- WMA files which are not based upon Windows Media® Audio.
- WMA files copy-protected with DRM.
- Files which have the data such as ATRAC3, etc.
- AAC files and OGG files.

Playing DivX files

- This unit can play back DivX files with the extension code <.divx>, <.div>, <.avi> (regardless of the letter case—upper/lower).
- This unit supports DivX Media Format files, <.divx> or <.avi>.
- This unit can display a unique registration code—DivX Video-on-Demand (VOD—a kind of Digital Rights Management). For activation and more details, visit <www.divx.com/vod>.
- Audio stream should conform to MP3 or Dolby Digital.
- This unit does not support GMC (Global Motion Compression).
- The file encoded in the interlaced scanning mode may not be played back correctly.
- This unit cannot play back the following files:
 - Files encoded in Codec (Compressor-decompressor) other than DivX Codec.
- The maximum bit rate for video signals (average) is 4 Mbps.
- If you want to know more about DivX, visit <<http://www.divx.com>>.

Playing MPEG Video files

- This unit can play back MPEG Video files with the extension code <.mpg>, <.mpeg>, or <.mod>.
- Audio stream should conform to MPEG1 Audio Layer 2.
- This unit cannot playback the following files:
 - WMV (Windows Media Video) files
 - RM (Real Media) format files
- The maximum bit rate for video signals (average) is 4 Mbps.

Continued on the next page

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
Next time you select “DISC” for the playback source, disc play starts from where it has been stopped previously.

USB operations

- Connecting a USB device automatically changes the source to “USB”.
- While playing from a USB device, the playback order may differ from the one from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- When connecting a USB mass storage class device, refer also to its instructions.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- This unit is compatible with the USB Full-Speed.
- If the connected USB device does not have the correct files, “No File” appears.
- This unit can play back MP3 files recorded in VBR (variable bit rate).
- The maximum number of characters for folder and file names is 25 characters; 128 characters for MP3/WAV and 64 characters for WMA Tag information.
- This unit can recognize a total of 5 000 files and 250 folders (999 files per folder).
- The unit cannot recognize a USB mass storage class device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- This unit may not recognize a USB device connected through a USB card reader.
- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot assure proper functions or supply power to all types of USB devices.
- For MPEG1/2 files: The maximum bit rate for video signals (average) is 2 Mbps.

■ iPod

- Controllable iPod (connected through....):
USB input jack:
 - iPod nano (1st & 2nd Generation)
 - iPod video (5th Generation)*
- * *To watch the video with its audio, connect the iPod using the USB Audio and Video cable (not supplied).*
- Update your iPod to the latest software version before using it with this unit.
 - You can check the software version of your iPod under "About" in the "Setting" menu of the iPod.
 - For details about updating your iPod, visit <http://www.apple.com>.
- While the unit is being turned on, the iPod is charged through this unit.
- iPod shuffle and iPhone cannot be used with this unit.
- You can control the iPod from this unit when "KENWOOD" or "✓" appears on the iPod display after connection.
- The song order displayed on the selection menu of this unit may differ from that of the iPod.
- If playback is stopped, select a track from the selection menu or press ►/|| (BAND) to play back the same track again.
- The text information may not be displayed correctly:
 - Some characters such as accented letters cannot be shown correctly on the display.
 - Depends on the condition of communication between the iPod and the unit.
- If the text information includes more than 16 characters, it scrolls on the display. This unit can display up to 128 characters.

Notice:

When operating an iPod, some operations may not be performed correctly or as intended. In this case, visit the following Kenwood web site:

– For the USB connection:

<http://www.kenwood.com/i/kca-ip/>>

■ General settings—PSM

- "Auto" setting for "Dimmer" may not work correctly on some vehicles, particularly on those having a control dial for dimming.
In this case, change the "Dimmer" setting to any other than "Auto".
- If "LCD Type" is set to "Auto", the display pattern will change to the "Positive" or "Negative" pattern depending on the "Dimmer" setting.
- If you change the "Amp Gain" setting from "High PWR" to "Low PWR" while the volume level is set higher than "Volume 30", the unit automatically changes the volume level to "Volume 30".

■ Disc setup menu

- When the language you have selected is not recorded on a disc, the original language is automatically used as the initial language. In addition, for some discs, the initial languages settings will not work as you set due to their internal disc programming.
- When you select "16:9" for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.
- Even if "4:3 PAN SCAN" is selected, the screen size may become "4:3 LETTERBOX" for some discs.

Available characters

Upper case

A	B	C	D	E	F	G	H	I	J	K	L	M	N
O	P	Q	R	S	T	U	V	W	X	Y	Z	space	

Lower case

a	b	c	d	e	f	g	h	i	j	k	l	m	n
o	p	q	r	s	t	u	v	w	x	y	z	space	

Numbers and symbols

0	1	2	3	4	5	6	7	8	9	!	"	#	\$
%	&	'	()	*	+	,	-	.	/	:	;	<
=	>	?	@	_	`	space							

Continued on the next page

About sounds reproduced through the rear terminals

- **Through the analog terminals (Speaker out/ LINE OUT):**

2-channel signal is emitted. When playing a multi-channel encoded disc, multi-channel signals are downmixed. DTS sound cannot be reproduced. (AUDIO—DOWN MIX: see page 41.)

- **Through DIGITAL OUT (optical):**

Digital signals (Linear PCM, Dolby Digital, DTS, MPEG Audio) are emitted through this terminal. (For more details, see table on page 47.)

To reproduce multi-channel sounds such as Dolby Digital, DTS, and MPEG Audio, connect an amplifier or a decoder compatible with these multi-channel sources to this terminal, and set "DIGITAL AUDIO OUTPUT" correctly. (See page 41.)

- **About Dual Zone:**

Through the 2nd AUDIO OUT, 2-channel signal is emitted. When playing a multi-channel encoded disc, multi-channel signals are downmixed. (See page 27.)

On-screen guide icons

During playback, the following guide icons may appear for a while on the monitor.



: Playback



: Pause



: DVD-Video/VCD: Forward slow motion



: DVD-Video: Reverse slow motion



: Forward search



: Reverse search

DVD: The following icons appear at the beginning of a scene containing:



: Multi-subtitle languages



: Multi-audio languages



: Multi-angle views

Output signals through the DIGITAL OUT terminal

Output signals are different depending on the "DIGITAL AUDIO OUTPUT" setting on the setup menu (see page 41).

Playback Disc		Output Signal			OFF
		STREAM/PCM	DOLBY DIGITAL/ PCM	PCM ONLY	
DVD-Video	48 kHz, 16/20/24 bits Linear PCM	48 kHz, 16 bits stereo Linear PCM *			OFF
	96 kHz Linear PCM	48 kHz, 16 bits stereo Linear PCM			
	Dolby Digital	Dolby Digital bitstream		48 kHz, 16 bits stereo Linear PCM	
	DTS	DTS bitstream			
	MPEG Audio	MPEG bitstream	48 kHz, 16 bits stereo Linear PCM		
Audio CD, Video CD		44.1 kHz, 16 bits stereo Linear PCM / 48 kHz, 16 bits stereo Linear PCM			
Audio CD with DTS		DTS bitstream			
DivX/ MPEG	Dolby Digital	Dolby Digital bitstream		48 kHz, 16 bits stereo Linear PCM	
	MPEG Audio	32/44.1/48 kHz, 16 bits Linear PCM			
MP3/WMA		32/44.1/48 kHz, 16 bits Linear PCM			
WAV		44.1 kHz, 16 bits stereo Linear PCM			

* Digital signals may be emitted at 20 or 24 bits (at their original bit rate) through the DIGITAL OUT terminal if the discs are not copy-protected.

Adjustable sound elements

Sound elements	Range/selectable items				
	Band 1 (100 Hz)	Band 2 (320 Hz)	Band 3 (1 kHz)	Band 4 (3.2 kHz)	Band 5 (10 kHz)
Frequency	68 Hz 100 Hz 150 Hz	210 Hz 320 kHz 460 kHz	680 Hz 1 kHz 1.5 kHz	2.1 kHz 3.2 kHz 4.6 kHz	6.8 kHz 10 kHz 15 kHz
Level	-6 to +6	-6 to +6	-6 to +6	-6 to +6	-6 to +6
Q (Q-slope)	Q0.7 Q1.0 Q1.4 Q2.0	Q0.7 Q1.0 Q1.4 Q2.0	Q0.7 Q1.0 Q1.4 Q2.0	Q0.7 Q1.0 Q1.4 Q2.0	Q0.7 Q1.0 Q1.4 Q2.0

Language codes

Code	Language	Code	Language	Code	Language	Code	Language	Code	Language
AA	Afar	FA	Persian	KK	Kazakh	NO	Norwegian	ST	Sesotho
AB	Abkhazian	FI	Finnish	KL	Greenlandic	OC	Occitan	SU	Sundanese
AF	Afrikaans	FJ	Fiji	KM	Cambodian	OM	(Afan) Oromo	SW	Swahili
AM	Ameharic	FO	Faroese	KN	Kannada	OR	Oriya	TA	Tamil
AR	Arabic	FY	Frisian	KO	Korean (KOR)	PA	Panjabi	TE	Telugu
AS	Assamese	GA	Irish	KS	Kashmiri	PL	Polish	TG	Tajik
AY	Aymara	GD	Scots Gaelic	KU	Kurdish	PS	Pashto, Pushto	TH	Thai
AZ	Azerbaijani	GL	Galician	KY	Kirghiz	QU	Quechua	TI	Tigrinya
BA	Bashkir	GN	Guarani	LA	Latin	RM	Rhaeto-Romance	TK	Turkmen
BE	Byelorussian	GU	Gujarati	LN	Lingala	RN	Kirundi	TL	Tagalog
BG	Bulgarian	HA	Hausa	LO	Laothian	RO	Rumanian	TN	Setswana
BH	Bihari	HI	Hindi	LT	Lithuanian	RW	Kinyarwanda	TO	Tonga
BI	Bislama	HR	Croatian	LV	Latvian, Lettish	SA	Sanskrit	TR	Turkish
BN	Bengali, Bangla	HU	Hungarian	MG	Malagasy	SD	Sindhi	TS	Tsonga
BO	Tibetan	HY	Armenian	MI	Maori	SG	Sangho	TT	Tatar
BR	Breton	IA	Interlingua	MK	Macedonian	SH	Serbo-Croatian	TW	Twi
CA	Catalan	IE	Interlingue	ML	Malayalam	SI	Singhalese	UK	Ukrainian
CO	Corsican	IK	Inupiak	MN	Mongolian	SK	Slovak	UR	Urdu
CS	Czech	IN	Indonesian	MO	Moldavian	SL	Slovenian	UZ	Uzbek
CY	Welsh	IS	Icelandic	MR	Marathi	SM	Samoan	VI	Vietnamese
DZ	Bhutani	IW	Hebrew	MS	Malay (MAY)	SN	Shona	VO	Volapuk
EL	Greek	JA	Japanese	MT	Maltese	SO	Somali	WO	Wolof
EO	Esperanto	JI	Yiddish	MY	Burmese	SQ	Albanian	XH	Xhosa
ET	Estonian	JW	Javanese	NA	Nauru	SR	Serbian	YO	Yoruba
EU	Basque	KA	Georgian	NE	Nepali	SS	Siswati	ZU	Zulu

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptom	Remedy/Cause
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 3).
	• "Connect Error" appears on the display.	Remove the control panel, wipe the connector, then attach it again (see page 5).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the antenna firmly.
Discs in general	• Disc cannot be played back.	Insert the disc correctly.
	• Disc can be neither played back nor ejected.	• Unlock the disc (see page 16). • Eject the disc forcibly (see page 3).
	• Recordable/Rewritable discs cannot be played back. • Tracks on the Recordable/Rewritable discs cannot be skipped.	• Insert a finalized disc. • Finalize the discs with the component which you have used for recording.
	• Disc cannot be recognized.	Eject the disc forcibly (see page 3).
	• Sound and pictures are sometimes interrupted or distorted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• No playback picture (DVD-Video/DivX/MPEG/VCD) appears on the monitor.	Parking brake wire is not connected properly. (See Installation/Connection Manual.)
	• No picture appears on the monitor at all.	• Connect the video cord correctly. • Select a correct input on the monitor.
	• The left and right edges of the picture are missing on the monitor.	Select "4:3 LETTERBOX" (see page 40).

Continued on the next page

	Symptom	Remedy/Cause
DivX/MPEG Video/MP3/WMA/WAV	<ul style="list-style-type: none"> Disc cannot be played back. 	<ul style="list-style-type: none"> Change the disc. Record the tracks using a compliant application in the appropriate discs (see page 7). Add the extension code <.divx>, <.div>, <.avi>, <.mpg>, <.mpeg>, <.mp3>, <.wma>, or <.wav> to the file names.
	<ul style="list-style-type: none"> Noise is generated. 	Skip to another track or change the disc.
	<ul style="list-style-type: none"> Tracks cannot play back as you have intended them to play. 	Playback order is determined when files are recorded.
	<ul style="list-style-type: none"> Longer readout time is required ("Reading" keeps flashing on the display). 	Readout time varies due to the complexity of the folder/file configuration. Do not use too many hierarchies and folders.
	<ul style="list-style-type: none"> No sound can be heard when picture is displayed while playing a DivX/MPEG Video file. 	<ul style="list-style-type: none"> Record the audio track using MP3 or Dolby Digital as the audio stream of DivX files. Record the audio track using MPEG1 Audio Layer 2 as the audio stream for MPEG Video files.
	<ul style="list-style-type: none"> Elapsed playing time is not correct. 	This sometimes occurs during playback. This is caused by how the tracks are recorded.
	<ul style="list-style-type: none"> "Please Eject" appears on the display. 	Insert a disc that contains tracks of appropriate formats.
	<ul style="list-style-type: none"> Correct characters are not displayed (e.g. album name). 	This unit can only display letters (capital: A – Z, small: a – z), numbers, and a limited number of symbols (see page 45).

	Symptom	Remedy/Cause
USB device	<ul style="list-style-type: none"> Noise is generated. 	<ul style="list-style-type: none"> The track played back is not a playable file format (MP3/WMA/WAV). Skip to another file. Do not add the extension code <.mp3>, <.wma>, or <.wav> to non-MP3/WMA/WAV tracks.
	<ul style="list-style-type: none"> Tracks cannot play back as you have intended them to play. 	Playback order may differs from the one played back using other players.
	<ul style="list-style-type: none"> “Reading” keeps flashing on the display. 	<ul style="list-style-type: none"> Readout time varies depending on the USB device. Do not use too many hierarchy, folders and empty folders.* Turn off the power then on again. Do not pull out or connect the USB device repeatedly while “Reading” is displayed on the display. <p>* Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA/WAV track.</p>
	<ul style="list-style-type: none"> “No File” flashes on the display. “No USB” appears on the display. 	Connect a USB device that contains tracks encoded in an appropriate format.
	<ul style="list-style-type: none"> “Not Support” appears on the display and track skips. 	The track is unplayable.
	<ul style="list-style-type: none"> “Read failed” appears on the display. 	The connected USB device may be malfunctioning, or may not have been formatted correctly. The files included in the USB device are corrupted.
	<ul style="list-style-type: none"> Correct characters are not displayed (e.g. album name). 	For available characters, see page 45.
	<ul style="list-style-type: none"> While playing a track, sound is sometimes interrupted. 	The tracks have not been properly copied into the USB device. Copy tracks again into the USB device, and try again.
	<ul style="list-style-type: none"> The sound is interrupted or skipped during playback of a USB device. 	<ul style="list-style-type: none"> Turn off, then turn on the unit. Connect the device again, when the sound is not yet restored.

Continued on the next page

	Symptom	Remedy/Cause
iPod	<ul style="list-style-type: none"> The iPod does not turn on or does not work. 	<ul style="list-style-type: none"> Check the connecting cable and its connection. Update the firmware version. Charge the battery.
	<ul style="list-style-type: none"> The sound is distorted. 	Deactivate the equalizer either on this unit or the iPod.
	<ul style="list-style-type: none"> "Disconnect" appears on the display. 	<ul style="list-style-type: none"> Check the connecting cable and its connection. Charge the battery.
	<ul style="list-style-type: none"> Playback stops. 	The headphones are disconnected during playback. Restart the playback operation (see page 28).
	<ul style="list-style-type: none"> No sound can be heard when connecting an iPod nano. 	<ul style="list-style-type: none"> Disconnect the headphones from the iPod nano. Update the firmware version of the iPod nano.
	<ul style="list-style-type: none"> "No File" appears on the display. 	No tracks are stored. Import tracks to the iPod.
	<ul style="list-style-type: none"> "Reset 01" – "Reset 07" appears on the display. 	Disconnect the adapter from both this unit and iPod. Then, connect it again.
	<ul style="list-style-type: none"> "Reset 08" appears on the display. 	Check the connection between the adapter and this unit.
	<ul style="list-style-type: none"> The iPod's controls do not work after disconnecting from this unit. 	Reset the iPod.

Specifications

AUDIO AMPLIFIER SECTION	Maximum Power Output:	Front/Rear:	50 W per channel
	Continuous Power Output (RMS):	Front/Rear:	19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion
	Load Impedance:		4 Ω (4 Ω to 8 Ω allowance)
	Equalizer Control Range:	Frequency:	Band 1: 68 Hz, 100 Hz, 150 Hz Band 2: 210 Hz, 320 Hz, 460 Hz Band 3: 680 Hz, 1 kHz, 1.5 kHz Band 4: 2.1 kHz, 3.2 kHz, 4.6 kHz Band 5: 6.8 kHz, 10 kHz, 15 kHz
		Level:	± 10 dB
	Signal to Noise Ratio:		70 dB
	Audio Output Level:	Digital (DIGITAL OUT: Optical):	Signal wave length: 660 nm Output level: -21 dBm to -15 dBm
		Line-Out Level/Impedance:	2.5 V/20 k Ω load (full scale)
		Output Impedance:	1 k Ω
	Subwoofer-out Level/Impedance:		2.5 V/20 k Ω load (full scale)
	Color system:		PAL
	Video Output (composite):		1 Vp-p/75 Ω
	Other Terminal:	AV-IN (video) input jack, USB input jack, Aerial input, 2nd AUDIO OUT, LINE IN	
TUNER SECTION	Frequency Range:	FM:	87.5 MHz to 108.0 MHz
		AM:	(MW) 522 kHz to 1 620 kHz
			(LW) 144 kHz to 279 kHz
	FM Tuner:	Usable Sensitivity:	11.3 dBf (1.0 μ V/75 Ω)
		50 dB Quieting Sensitivity:	16.3 dBf (1.8 μ V/75 Ω)
		Alternate Channel Selectivity (400 kHz):	65 dB
		Frequency Response:	40 Hz to 15 000 Hz
		Stereo Separation:	35 dB
	MW Tuner:	Sensitivity:	20 μ V
		Selectivity:	35 dB
	LW Tuner:	Sensitivity:	50 μ V

DVD/CD PLAYER SECTION

Signal Detection System:		Non-contact optical pickup (semiconductor laser)	
Number of Channels:		2 channels (stereo)	
Frequency Response:		DVD, fs=48 kHz/96 kHz:	16 Hz to 22 000 Hz
		CD, fs=44.1 kHz:	16 Hz to 20 000 Hz
Dynamic Range/Signal-to-Noise Ratio:		96 dB/98 dB	
Wow and Flutter:		Less than measurable limit	
DivX/MPEG Video:	Video:	Max. Resolution:	720 × 480 pixels (30 fps) 720 × 576 pixels (25 fps)
	Audio:	Bit Rate:	DivX: 32 kbps – 320 kbps MPEG Video: 32 kbps – 320 kbps
		Sampling Frequency: DivX:	MPEG-1: 32 kHz, 44.1 kHz, 48 kHz MPEG-2: 16 kHz, 22.05 kHz, 24 kHz
		Sampling Frequency: MPEG Video:	32 kHz, 44.1 kHz, 48 kHz
MP3:		Bit Rate:	32 kbps – 320 kbps
		Sampling Frequency:	MPEG-1: 32 kHz, 44.1 kHz, 48 kHz MPEG-2: 16 kHz, 22.05 kHz, 24 kHz
WMA:		Bit Rate:	32 kbps – 320 kbps
		Sampling Frequency:	22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz
WAV:		Quantization Bit Rate:	16 bit
		Sampling Frequency:	44.1 kHz

USB SECTION	USB Standards:		USB 1.1, USB 2.0
	Data Transfer Rate:	Full Speed:	Maximum 12 Mbps
		Low Speed:	Maximum 1.5 Mbps
	Compatible Device:		Mass storage class
	Compatible File System:		FAT 32/16/12
	Playable Audio Format:		DivX/MPEG1/MPEG2/MP3/WMA/WAV
	Max. Current:		500 mA/5 V

GENERAL	Power Requirement:	Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
	Grounding System:		Negative ground
	Allowable Operating Temperature:		0°C to +40°C
	Dimensions (W × H × D):	Installation Size (approx.):	182 mm × 52 mm × 158.7 mm
		Panel Size (approx.):	188 mm × 58 mm × 12.2 mm
	Mass (approx.):		1.5 kg (excluding accessories)

Design and specifications are subject to change without notice.

