

KENWOOD

KDC-X396 KDC-352U KDC-252U KDC-202U KDC-MP252U KDC-MP152U KMR-350U

CD-RECEIVER

INSTRUCTION MANUAL

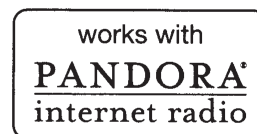
AMPLI-TUNER LECTEUR DE CD

MODE D'EMPLOI

REPRODUCTOR DE DISCOS COMPACTOS RECEPTOR DE FM/AM

MANUAL DE INSTRUCCIONES

JVC 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 CD-receiver.

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 KDC-X396/ KDC-352U/ KDC-252U/ KDC-202U/ KDC-MP252U/ KDC-MP152U/ KMR-350U Serial number _____

US Residents Only

Register Online

Register your Kenwood product at www.Kenwoodusa.com

CONTENTS

Safety	3	Listening to Pandora® internet radio	13
Preparation	4	(For KDC-X396 KDC-352U KDC-252U KMR-350U)	
How to attach/detach the faceplate		Station Search mode	
How to reset your unit		Using the remote controller (RC-405)	
How to prepare the remote controller (RC-405) (except for KMR-350U)		Listening to the other external components	14
Basic operations	5	Function settings	14
Getting started	7	Troubleshooting	16
Canceling the display demonstration (except for KMR-350U)		Installation/connection	18
Setting the demonstration mode		Basic procedure	
Adjusting the clock		Warning	
Initial settings before operations		Caution	
Listening to the radio	9	Wiring connection	
Adjust [SETTINGS] mode settings		Installing the unit	
Functions of KDC-X396 KDC-352U KDC-252U KDC-202U KDC-MP252U KDC-MP152U <i>with remote controller (RC-405)</i>		Removing the unit	
Direct Access Tuning		Specifications	21
Listening to a disc/ USB device/ iPod	10		
Start playing a disc			
Connecting a USB device			
Connecting an iPod (for KDC-X396 KDC-352U KDC-252U KDC-MP252U KMR-350U)			
Selecting Repeat Play			
Selecting Random Play			
Selecting a folder/track/file			
Functions of KDC-X396 KDC-352U KDC-252U KDC-202U KDC-MP252U KDC-MP152U <i>with remote controller (RC-405)</i>			
Direct Music Search			
Functions of KDC-X396 KDC-352U KDC-252U KDC-MP252U KMR-350U <i>with iPod</i>			
Selecting a song by alphabet			
Selecting App & iPod Control Mode			
Adjust [SETTINGS] mode settings			

Muting upon the reception of a phone call

To use this feature, connect the MUTE lead to your telephone using a commercial telephone accessory. (page 19)

When a call comes in, "CALL" appears.

- The audio system pauses.
- To continue listen to the audio system during a call, press **⏮ SRC**. "CALL" disappear and the audio system resumes.

When a call ends, "CALL" disappear.

- The audio system resumes.




Safety

WARNING

Stop the car before operating the unit.

Important to know...

- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- **Caution:** Adjust the volume so that you can hear sounds outside the car. Driving with the volume too high may cause an accident.
- **Condensation:** When the car is air-conditioned, moisture may collect on the laser lens. This may cause disc read errors. In this case, remove the disc and wait for the moisture to evaporate.
- This unit can only play the CDs with:




- The illustrations in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the illustrations may differ from what appears on the actual equipment.

- A USB connection cable, CA-U1EX (max.: 500 mA) (optional accessory) is required for connecting a USB device.
- You can connect an Apple iPod/iPhone with **KDC-X396** **KDC-352U** **KDC-252U** **KDC-MP252U** **KMR-350U**.
The word "iPod" appearing in this manual indicates the iPod or iPhone connected to this unit with a connection cable, KCA-iP102 (optional accessory).
- If you experience problems during installation, consult your Kenwood dealer.
- When you purchase external components, check with your Kenwood dealer to make sure that they work with your model and in your area.
- Detailed information and notes about the playable audio files are stated in an online manual on the following site:
www.kenwood.com/cs/ce/audiofile/

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

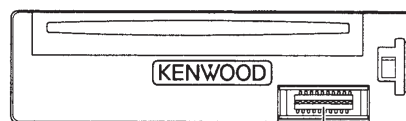
Maintenance

Cleaning the unit: Wipe off the dirt on the panel with a dry silicon or soft cloth. Failure to observe this precaution may result in damage to the monitor or unit.

Cleaning the connector: The unit may not function properly if the connectors between the unit and faceplate are dirty. Detach the faceplate and clean the connector with a cotton swab gently, being careful not to damage the connector.

Handling discs

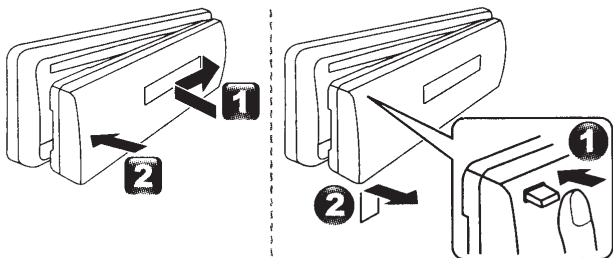
- Do not touch the recording surface of the disc.
- Do not stick tape etc. on the disc, or use a disc with tape stuck on it.
- Do not use any accessories for the disc.
- Clean from the center of the disc and move outward.
- Clean the disc with a dry silicon or soft cloth. Do not use any solvents.
- When removing discs from this unit, pull them out horizontally.
- Remove the rims from the center hole and disc edge before inserting a disc.



Connector (on the reverse side of the faceplate)

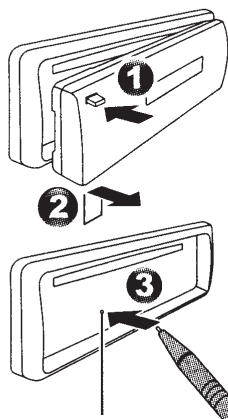
Preparation

How to attach/detach the faceplate



- Do not expose the faceplate to direct sunlight, excessive heat, or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Keep the faceplate in its casing while detached.
- The faceplate is a precision piece of equipment and can be damaged by shocks or jolts.
- To prevent deterioration, do not touch the terminals of the unit and faceplate with your fingers.

How to reset your unit



Reset button

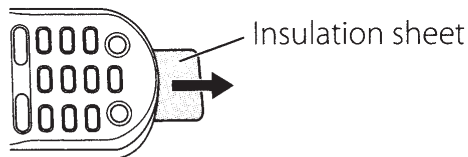
If this unit fails to operate properly, press the reset button.

The unit returns to factory settings when the reset button is pressed.

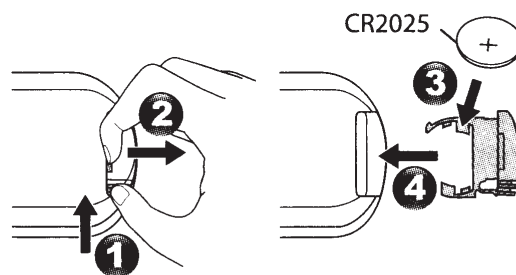
How to prepare the remote controller (RC-405)

(except for **KMR-350U**)

When you use the remote controller for the first time, pull out the insulation sheet.



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



CALIFORNIA, USA ONLY

This perchlorate WARNING applies only to the product sold or distributed in California USA "Perchlorate Material—special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate."

Caution:

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

Remote controller (RC-405) is equipped for **KDC-X396** **KDC-352U** **KDC-252U** **KDC-202U** **KDC-MP252U** **KDC-MP152U**

Basic operations

Display window

KDC-X396

KDC-352U

ATT ST EQ B.BOOST Q IN

KDC-252U

KDC-202U

KDC-MP252U

KDC-MP152U

KMR-350U

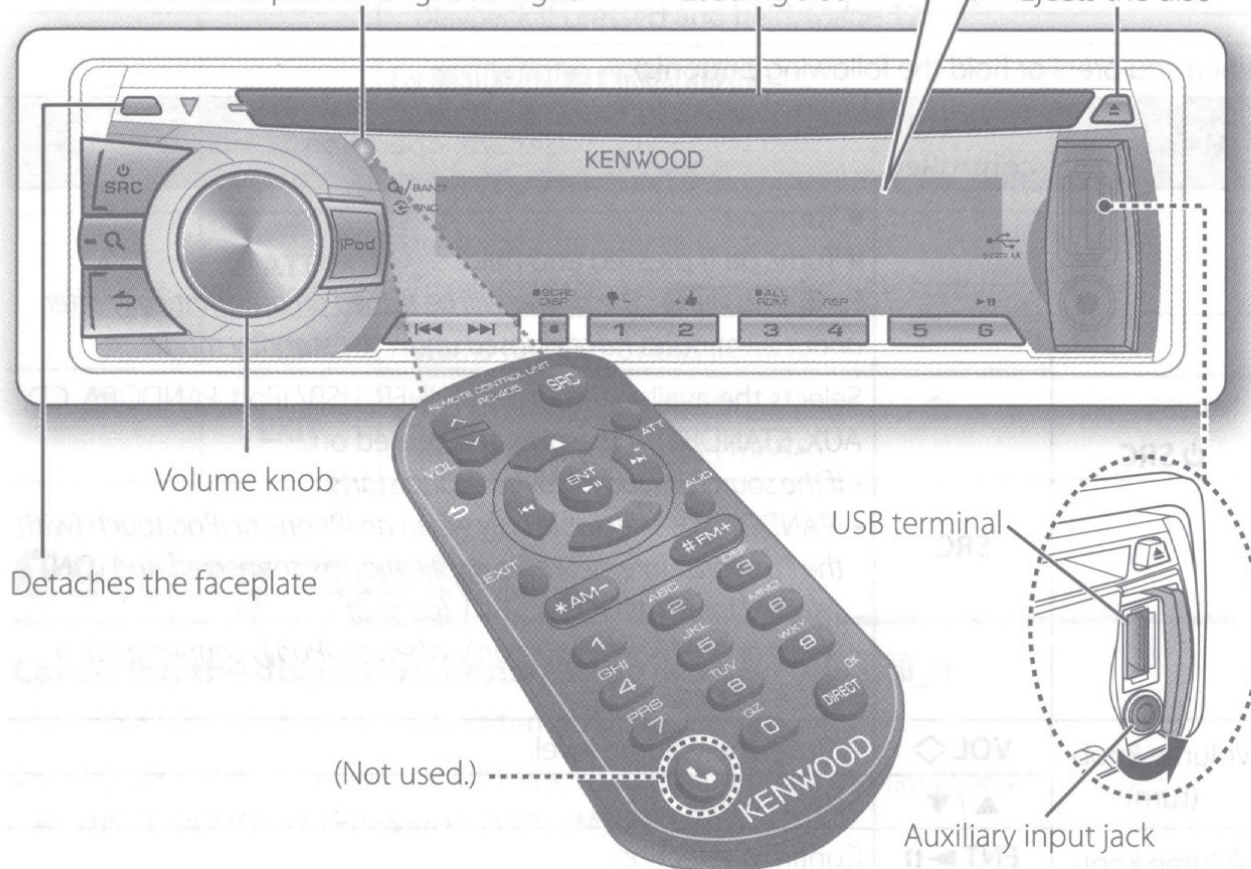
EQ B.BOOST Q IN

Remote sensor

■ Do not expose to bright sunlight.

Loading slot

Ejects the disc



Volume knob

Detaches the faceplate

USB terminal

(Not used.)

Auxiliary input jack

The following indicator lights up when...

ST: A stereo broadcast is received (FM).

IN: A disc is in the unit.

For **KDC-X396** **KDC-352U** :

ATT (blink) : The sound attenuates. (Applicable only when using the remote controller (RC-405), page 7.)

EQ : **[PRESET EQ]** is set to an EQ mode other than **[NATURAL]**. (page 15)


B.BOOST : **[BASS BOOST]** is set to **[B.BOOST LV1]**, **[B.BOOST LV2]** or **[B.BOOST LV3]**. (page 15)

Q : In Search Mode or when a Playlist is displayed.


















Continued...





The illustration and button names used for explanation in this manual are of **KDC-X396**
KDC-352U **KDC-252U** **KMR-350U** (unless mentioned otherwise).

Refer to the table below for the difference:

KDC-X396 KDC-252U	KDC-352U KMR-350U	KDC-MP252U	KDC-202U KDC-MP152U
iPod		iPod	
1 (⏮)		1 (-)	1 (-)
2 (+ ⏭)		2 (+)	2 (+)
3 (ALL RDM)		3 (ALL RDM)	3

When you press or hold the following button(s)...

Main unit	Remote controller	General operation
	—	<ul style="list-style-type: none"> ■ Turns on. ■ Turns off if pressed and held. <p>For KMR-350U : The power will be turned off automatically after about 20 minutes have elapsed under the standby mode.</p>
	SRC	<p>Selects the available sources (TUNER, USB/ iPod, PANDORA, CD, AUX, STANDBY), if the power is turned on.</p> <ul style="list-style-type: none"> • If the source is ready, playback also starts. • "PANDORA" is selectable only when an iPhone or iPod touch (with the Pandora® internet radio application) is connected and [ON] is selected for [PANDORA SRC]. (page 8) • "iPod" or "CD" is selectable only when an iPod is connected or a disc is loaded.
Volume knob (turn)	VOL 	Adjusts the volume level.
	 / 	Selects items.
Volume knob (press)	ENT  	Confirms selection.
	—	Enters [FUNCTION] settings.
	 / 	Enters Music Search mode or Station Search mode (for Pandora).
	*AM- / #FM+	Selects the FM bands (FM1/ FM2/ FM3) or AM when "TUNER" is selected as the source.
1 (⏮) / 2 (+ ⏭)	*AM- / #FM+	Selects the previous/next folder.
	—	Selects thumbs down/up (for Pandora).
6 (⏮)	ENT  	Pauses/resumes playback of a disc/ USB device/ iPod/ Pandora.
 / 	 /  ⁺	<ul style="list-style-type: none"> ■ Searches for radio station. ■ Selects track/file. ■ Fast-forwards/reverses tracks if pressed and held.
	 ⁺	Skips a song (for Pandora).

Main unit	Remote controller	General operation
SCRL DISP	—	<ul style="list-style-type: none"> ■ Changes the display information. ■ Scrolls the display information if pressed and held. ■ Enters clock adjustment mode directly (page 8) if pressed and held while in clock display screen.
iPod	—	For KDC-X396 KDC-352U KDC-252U KDC-MP252U KMR-350U : <ul style="list-style-type: none"> ■ Selects "iPod" source. ■ Enters the controlling mode (MODE ON/ MODE OFF) for iPod playback if pressed and held. (page 12)
	—	For KDC-202U KDC-MP152U : Selects Random Play. (page 11)
—	AUD	Enters [AUDIO CONTROL] / [AUDIO CTRL] settings directly.
—	ATT	Attenuates the sound. • To return to the previous level, press the button again.
		Returns to the previous item.
	EXIT	Exit from setting mode. (Press and hold  on the main unit will also exit from the setting mode.)

Getting started

Canceling the display demonstration (except for **KMR-350U**)


The display demonstration is always turned on unless you cancel it.

When you turn on the power (or after you reset the unit), the display shows:

[CANCEL DEMO] → [PRESS] → [VOLUME KNOB]

- 1 Press the volume knob.
[YES] is selected as the initial setup.
 - 2 Press the volume knob again to confirm.
[DEMO OFF] appears.
- If no operation is done for about 15 seconds or if you turn the volume knob to select **[NO]** in step 2, **[DEMO MODE]** appears and the display demonstration starts.

Setting the demonstration mode

- 1 Press the volume knob to enter **[FUNCTION]**.
- 2 Turn the volume knob to select **[DEMO MODE]**, then press to enter.
- 3 Turn the volume knob to select **[ON]** or **[OFF]**.
If **[ON]** is selected, display demonstration starts if no operation is done for about 20 seconds.
- 4 Hold  to finish the procedure.

Continued...

Adjusting the clock

- 1 Press the volume knob to enter [FUNCTION] mode.
- 2 Turn the volume knob to select [SETTINGS], then press to enter.
- 3 Turn the volume knob to select [CLOCK], then press to enter.
- 4 Press the volume knob to select [CLOCK ADJUST] / [CLOCK ADJ].
Clock hour flashes on the display.
- 5 Turn the volume knob to adjust the hour, then press to enter minute adjustment.
Clock minutes flashes on the display.
- 6 Turn the volume knob to adjust the minute, then press to confirm.
Press ◀◀ / ▶▶ to move between the hour and minute adjustment.
- 7 Hold ⏻ to finish the procedure.

Initial settings before operations

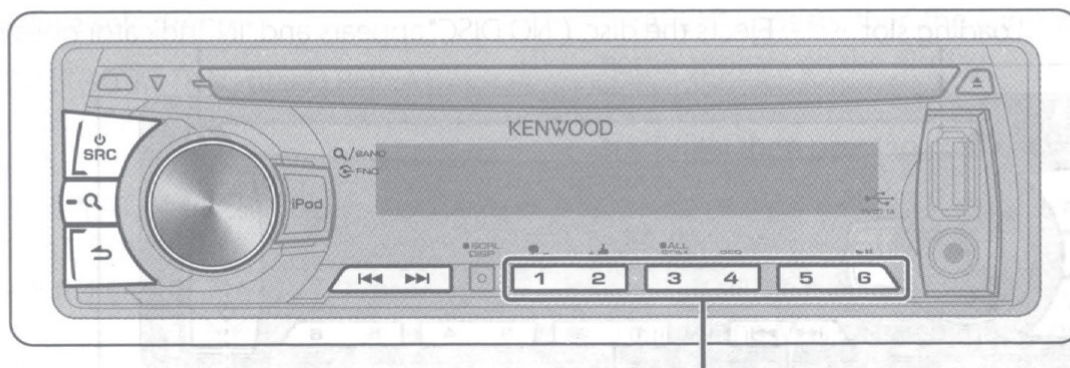
- 1 Press ⏻ SRC to enter [STANDBY] mode.
- 2 Press the volume knob to enter [FUNCTION] mode.
- 3 Turn the volume knob to select [INITIAL SET], then press to enter.
- 4 Turn the volume knob to make a selection, then press to confirm.
See table below for selection.
- 5 Hold ⏻ to finish the procedure.

Item	Selectable setting (Preset: *)
PRESET TYPE	NORMAL/ NORM* : Memorizes one station for each preset button in each band (FM1/ FM2/ FM3/ AM). ; MIX : Memorizes one station for each preset button regardless of the selected band (FM1/ FM2/ FM3/ AM).
KEY BEEP	ON*/ OFF : Activates/deactivates the keypress tone.
PANDORA SRC	For KDC-X396 KDC-352U KDC-252U KMR-350U : ON* : Allows you to select "PANDORA" source by connecting an iPhone or iPod touch (with the Pandora® internet radio application). ; OFF : Disables "PANDORA" in source selection.
BUILT-IN AUX/ BUILTIN AUX	ON* : Enables "AUX" in source selection. Sound of the connected external component is produce through the car speakers. ; OFF : Disables "AUX" in source selection.
CD READ	1* : Automatically distinguishes between audio file disc and music CD. ; 2 : Forces to play as a music CD. No sound can be heard if an audio file disc is played.
SWITCH PRE	For KDC-252U KDC-202U KDC-MP252U KDC-MP152U KMR-350U : REAR*/ SUB-W : Selects whether rear speakers or a subwoofer are connected to the line out terminals on the rear of the unit (through an external amplifier).
SP SELECT	OFF*/ 5/4/ 6 × 9/6/ OEM : Selects the speaker size for optimum performance.
F/W UP xx.xx	YES* : Starts upgrading the firmware. ; NO : Cancels (upgrading is not activated). For details on how to update the firmware, see: www.kenwood.com/cs/ce/

About "KENWOOD Music Editor"

- This unit supports the PC application "KENWOOD Music Editor Light ver1.1" or later.
- When you use the audio file with database information added by the "KENWOOD Music Editor Light ver1.1," you can search a file by title, album or artist name using Music Search.
- In the Instruction manual, the term "USB device" is used to mean the device that contains audio files with database information added with KENWOOD Music Editor.
- "KENWOOD Music Editor Light ver1.1" is available from the following web site: www.kenwood.com/cs/ce/
- For further information on "KENWOOD Music Editor Light ver1.1," refer to the site above or the application help.

Listening to the radio



Hold for about 2 seconds to memorize the current station.

■ Press briefly to recall memorized station.

- 1 Press **SRC** to select "TUNER."
- 2 Press **Q** repeatedly to select a band (FM1/ FM2/ FM3/ AM).
- 3 Press **◀◀ / ▶▶** to search for a station.

Adjust [SETTINGS] mode settings

While listening to the radio...

- 1 Press the volume knob to enter [FUNCTION] mode.
- 2 Turn the volume knob to select [SETTINGS], then press to enter.
- 3 Turn the volume knob to make a selection, then press to confirm.
See table below for selection.
- 4 Hold **↶** to finish the procedure.

Item	Selectable setting (Preset: *)
SEEK MODE	Selects the tuning mode for ◀◀ / ▶▶ buttons. AUTO1* : Automatically search for a station. ; AUTO2 : Search in the order of the stations in the preset memory. ; MANUAL : Manually search for a station.
AUTO MEMORY	YES* : Automatically starts memorizing 6 stations with good reception. ; NO : Cancels (automatic memorizing is not activated). (Selectable only if [NORMAL] / [NORM] is selected for [PRESET TYPE].) (page 8)
MONO SET	ON : Improve the FM reception (but the stereo effect may be lost). ; OFF* : Cancels (stereo effect resumes).

Functions of **KDC-X396** **KDC-352U** **KDC-252U** **KDC-202U** **KDC-MP252U** **KDC-MP152U** **with remote controller (RC-405)**

Direct Access Tuning

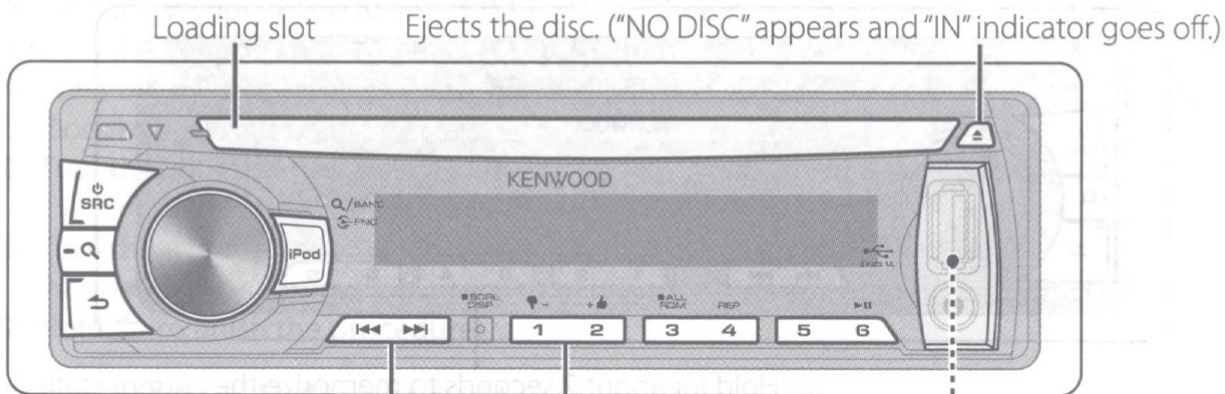
- 1 Press **FM+ / AM-** to select a band.
- 2 Press **DIRECT** to enter Direct Access Tuning mode.
"----" appears on the display.
- 3 Press the number buttons to enter the frequency.
- 4 Press **◀◀ / ▶▶ (+)** to search for the frequency.

- To cancel Direct Access Tuning mode, press **↶** or **EXIT**.
- If no operations is done for 10 seconds after step 3, Direct Access Tuning is automatically canceled.

Basic operations:

- FM+ / AM-** : Selects band.
◀◀ / ▶▶ (+) : Searches for radio station.
1 - 6 : Selects preset station.

Listening to a disc/ USB device/ iPod



- Press to select track/file.
- Hold to fast-forwards/reverses.

Press to select previous/next folder.

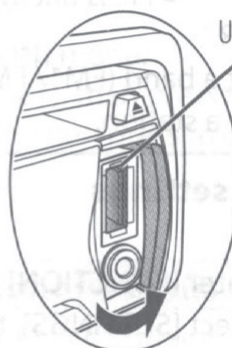
- Not available if "ALL RANDOM" is selected.

Start playing a disc

- 1 Press **SRC** to turn on the power.
- 2 Insert a disc into the loading slot. Playback starts automatically.
- 3 Press number button **6 (▶ II)** to resume/pause playback (if necessary).

Discs that cannot be used

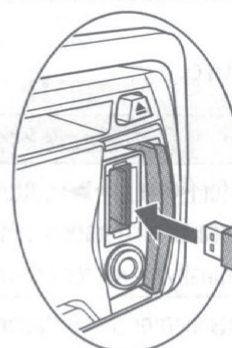
- Discs that are not round.
- Discs with coloring on the recording surface or discs that are dirty.
- You cannot play a Recordable/ReWritable disc that has not been finalized. (For the finalization process refer to your disc writing software, and your disc recorder instruction manual.)
- 3-inch CD cannot be used. Attempt to insert using an adapter can cause malfunction.



USB terminal

Slide open the cover, then make the following connection.

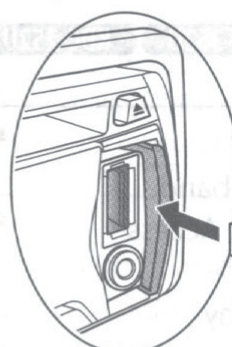
The source automatically switches, and playback starts.



Connecting a USB device

CA-U1EX (Max.: 500 mA)
(optional accessory)

USB device (commercially available)



Connecting an iPod

(for **KDC-X396** **KDC-352U**
KDC-252U **KDC-MP252U**
KMR-350U)

Apple iPod
(commercially available)

KCA-iP102
(optional accessory)

Selecting Repeat Play

Press number button **4 (REP)** repeatedly to make a selection.


Audio CD : TRACK/ TRAC (track) REPEAT,
REPEAT OFF

MP3/WMA :

FILE REPEAT, FOLDER/ FOLD (folder)
REPEAT, REPEAT OFF

iPod : FILE REPEAT, REPEAT OFF


Selecting Random Play

Press number button **3 (ALL RDM)** or  repeatedly to make a selection.





Audio CD : DISC RANDOM, RANDOM OFF

MP3/WMA/iPod :

FOLDER/ FOLD (folder) RANDOM,
RANDOM OFF

- For MP3/WMA/iPod : Press and hold number button **3 (ALL RDM)** or  to select "ALL RANDOM."
 - Applicable only if "RANDOM OFF" is selected initially.
 - For **KDC-X396** **KDC-352U** **KDC-252U** **KDC-MP252U** **KMR-350U** : Changes the iPod browsing item to "songs."

Selecting a folder/track/file




- 1** Press **Q** to enter Music Search mode. "SEARCH" appears, then the current file name appears on the display.
 - 2** Turn the volume knob to select a folder/track/file, then press to confirm.
 - To return to the root folder (or first track for audio CD), press number button **5**.
 - To return to the previous folder, press .
 - To cancel the Music Search mode, press and hold .
 - < or > on the display indicates that preceded/next item is available.
 - For USB device* and iPod: To skip search, press  / .
- * This operation is effective only for the files registered in the database created with Kenwood Music Editor. (page 8)*

About USB device

- This unit can play MP3/WMA files stored on a USB mass storage class 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 and Multi Card Reader.
- Make sure all important data has been backed up to avoid losing the data.
- Connecting a cable whose total length is longer than 5 m can result in abnormal playback.



Functions of **KDC-X396** **KDC-352U** **KDC-252U** **KDC-202U** **KDC-MP252U** **KDC-MP152U** **with remote controller (RC-405)**

Direct Music Search




- Not available if Random Play is selected.
 - Not applicable for iPod and Kenwood Music Editor.
- 1** Press **DIRECT** to enter Direct Music Search Mode.
"– – –" appears.
 - 2** Press the number buttons to enter the track number.
 - 3** Press  /  to search for the music.
- To cancel the Direct Music Search Mode, press  or **EXIT**.

Basic operations:

In playback mode:

- FM+ / AM–** : Selects folder.
 /  (+) : Selects track/file.
ENT ► II : Pauses/resumes playback.

In Music Search Mode:

- ENT ► II** : Confirms selection.
 /  : Selects folder/track/file.
 : Returns to the previous folder.

Selecting a song by alphabet

- 1** Press **Q** to enter Music Search mode.
"SEARCH" appears.
 - 2** Turn the volume knob to select a category, then press to confirm.
 - 3** Press **Q** again to enter alphabet search mode.
"SEARCH <-- -->"/ "SRCH <-- -->" appears.
 - 4** Turn the volume knob to select the character to be searched for.
 - 5** Press **◀◀ / ▶▶** to move to the entry position.
You can enter up to three characters.
 - 6** Press the volume knob to start searching.
 - 7** Turn the volume knob to select a folder/ track/file, then press to confirm.
- To return to the previous folder, press **↶**.
 - To return to the top menu, press number button **5**.
 - To cancel the Alphabet Search mode, press and hold **↶**.
 - A longer searching time is required if there are many songs or playlists in the iPod.
 - To search for a character other than A to Z and 0 to 9, enter only **"*"**.
 - The article (a, an, the) of songs name will be skipped during search.

Selecting App & iPod Control Mode

Press and hold **iPod** to make a selection.

MODE ON: Control iPod from the iPod*.

"APP&iPod MODE"/ "APP&iPod" appears on the display.

MODE OFF: Control iPod from the unit.

* You can still control play/pause, select files, fast-forward/reverse files from the unit.

Adjust [SETTINGS] mode settings

While listening to an iPod...

- 1** Press the volume knob to enter **[FUNCTION]** mode.
- 2** Turn the volume knob to select **[SETTINGS]**, then press to enter.
- 3** Turn the volume knob to select **[SKIP SEARCH]**, then press to enter.
- 4** Turn the volume knob to make a selection, then press to confirm.
0.5% (initial)/ **1%**/ **5%**/ **10%** : Sets the ratio of skip when searching for a song in Music Search mode.
(Holding **◀◀ / ▶▶** skips songs at 10% regardless of the setting made.)
- 5** Hold **↶** to finish the procedure.

About compatible iPod/iPhone

Made for

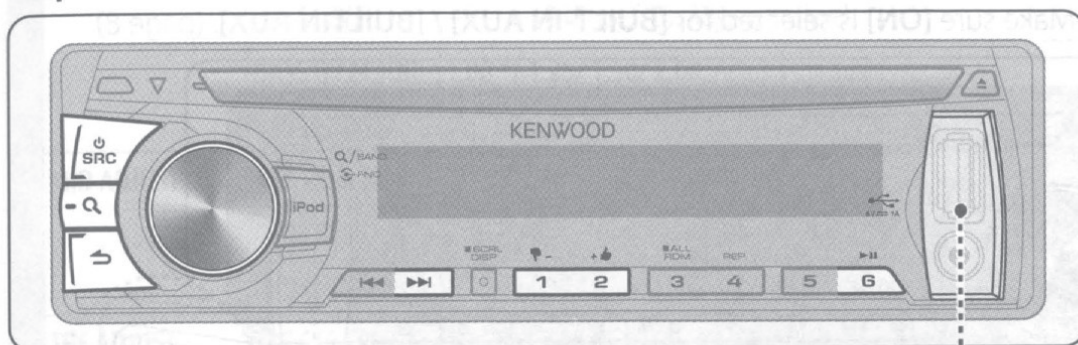
- iPod touch (1st, 2nd, 3rd, and 4th generation)
- iPod classic
- iPod with video
- iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

- For the latest compatible list and software version of iPod/iPhone, see: www.kenwood.com/cs/ce/ipod
- If you start playback after connecting the iPod, the music that has been played by the iPod is played first.
In this case, "RESUMING" is displayed without displaying a folder name, etc. Changing the browse item will display a correct title, etc.
- You cannot operate iPod if "KENWOOD" or "✓" displayed on iPod.

Listening to Pandora® internet radio

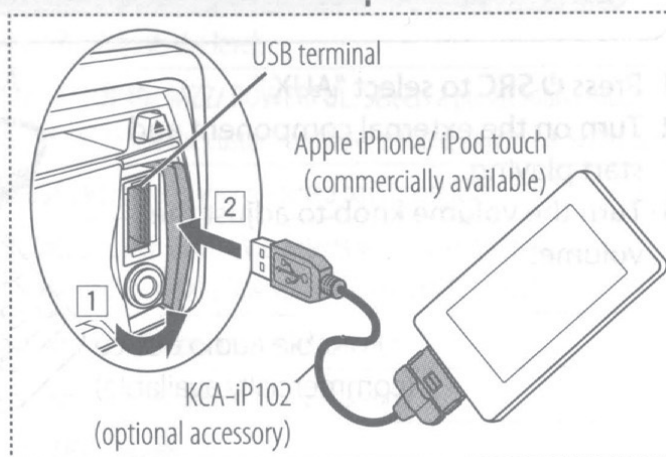
(For **KDC-X396** **KDC-352U** **KDC-252U** **KMR-350U**)

Preparation : Make sure **[ON]** is selected for **[PANDORA SRC]**. (page 8)



- 1** Open the Pandora® application on your device.
- 2** Connect the device to the USB terminal.
The source switches, and broadcasting starts automatically from your current station.

- If no station has been selected, broadcasting does not start.
- To select thumbs down/up, press number button **1** (▼)/ **2** (▲).
- To skip a song, press **▶▶**.
- To pause or resume playback, press number button **6** (⏸).



Station Search mode

While listening to "PANDORA" source...

- 1** Press **Q** to enter Station Search mode.
- 2** Turn the volume knob to select **[A-Z]** (stations are displayed in alphabetical order) or **[BY DATE]** (stations are displayed in date order), then press to enter.
- 3** Turn the volume knob to select a desired station, then press to confirm.

Using the remote controller (RC-405)

In playback mode:

- ▶▶ (+)** : Skips a song.
- ENT ▶▶** : Pauses/resumes playback.

In Station Search Mode:

- ▲ / ▼** : • Selects **[A-Z]** or **[BY DATE]**.
• Selects item.
- ENT ▶▶** : Confirms selection.
- EXIT** : Cancels Station Search mode.

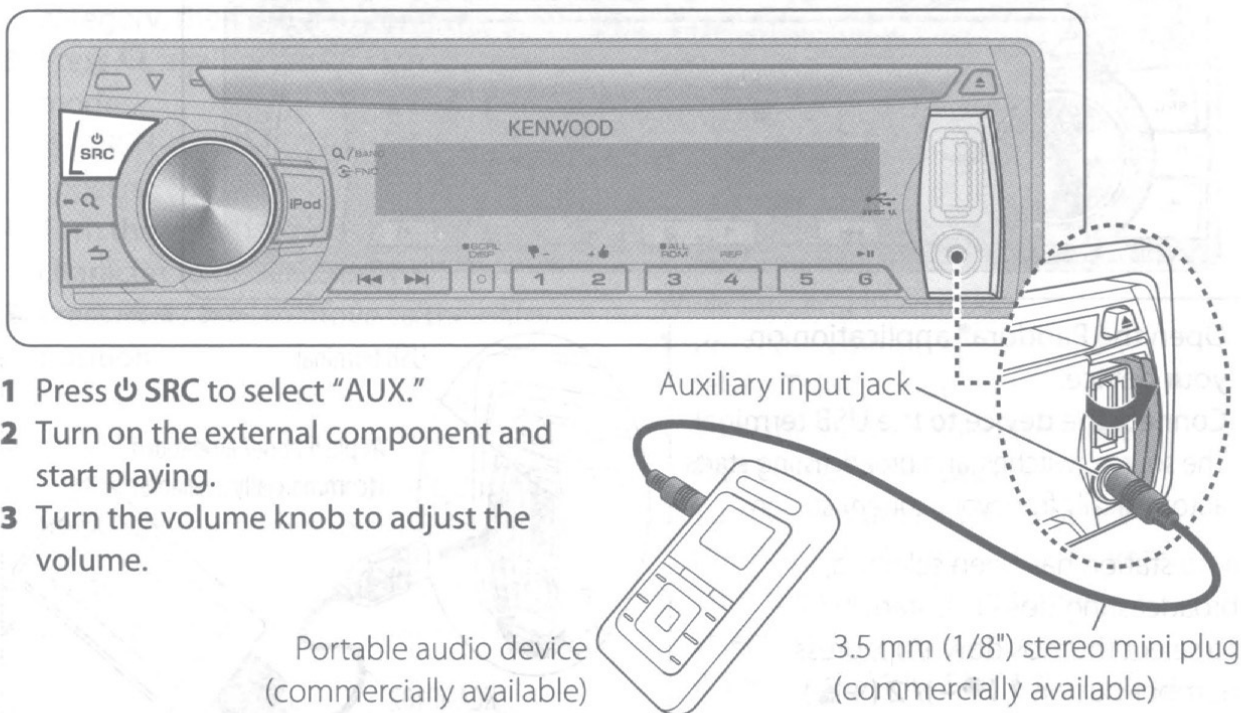
About Pandora® internet radio

The requirements for listening to Pandora® are as follows:

- Use an Apple iPhone or iPod touch running under iOS3 or later.
- Search for "Pandora" in the Apple iTunes App Store to find and install the most current version of the Pandora® application on your device.
- In the application on your device, log in and create an account with Pandora®.
(If you are not already a registered user, an account can also be created at www.pandora.com.)
- Internet connection by 3G, EDGE, or WiFi.
- iPhone connected to this unit with a KCA-iP102.
- Pandora® is available only in the U.S.
- Because Pandora® is a third-party service, the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.
- Some functions of Pandora® cannot be operated from this unit.
- For issues using the application, please contact Pandora® at pandora-support@pandora.com

Listening to the other external components

Preparation : Make sure **[ON]** is selected for **[BUILT-IN AUX]** / **[BUILTIN AUX]**. (page 8)



Function settings

- 1 Press the volume knob to enter **[FUNCTION]** mode.
- 2 Turn the volume knob to select **[AUDIO CONTROL]** / **[AUDIO CTRL]** or **[SETTINGS]**, then press to enter.
- 3 Turn the volume knob to make a selection, then press to confirm.
 - See the following table for selection.
 - Repeat step 3 until the desired item is selected/activated.
 - Press **↶** to return to the previous item.
- 4 Hold **↶** to finish the procedure.

[AUDIO CONTROL] / **[AUDIO CTRL]** : While listening to any source except in **STANDBY** state...

Item	Selectable setting (Preset: *)
SUB-W LEVEL	-15 — +15 (Preset: 0): Adjusts the subwoofer output level.
BASS LEVEL	-8 — +8 (Preset: 0): Source tone memory: Adjusts the level to memorize in each source. (Before making an adjustment, select the source you want to adjust.)
MID LEVEL	
TRE LEVEL	

Item	Selectable setting (Preset: *)	
EQ PRO (for KDC-X396)		
BASS ADJUST	BASS CTR FRQ	60/ 80/ 100 */ 200: Selects the center frequency.
	BASS LEVEL	−8 — +8 (Preset: 0): Adjusts the level.
	BASS Q FACTOR	1.00 */ 1.25/ 1.50/ 2.00: Adjusts the quality factor.
	BASS EXTEND	ON: Turns on the extended bass. ; OFF *: Cancels.
MID ADJUST	MID CTR FRQ	0.5K/ 1.0K */ 1.5K/ 2.5K: Selects the center frequency.
	MID LEVEL	−8 — +8 (Preset: 0): Adjusts the level.
	MID Q FACTOR	0.75/ 1.00 */ 1.25: Adjusts the quality factor.
TRE ADJUST	TRE CTR FRQ	10.0K/ 12.5K */ 15.0K/ 17.5K: Selects the center frequency.
	TRE LEVEL	−8 — +8 (Preset: 0): Adjusts the level.
PRESET EQ	NATURAL */ USER/ ROCK/ POPS/ EASY/ TOP40/ JAZZ/ POWERFUL: Selects a preset sound mode suitable to the music genre. (Selects [USER] to use the customized bass, middle, and treble settings.)	
BASS BOOST	B.BOOST LV1/ B.BOOST LV2/ B.BOOST LV3: Selects your preferred bass boost level. ; OFF*: Cancels.	
LOUDNESS	LOUDNESS LV1*/ LOUD LV1*/ LOUDNESS LV2/ LOUD LV2: Selects your preferred low and high frequencies boost to produce a well-balanced sound at a low volume level. ; OFF: Cancels.	
BALANCE	L15 — R15 (Preset: 0): Adjusts the left and right speaker output balance.	
FADER	R15 — F15 (Preset: 0): Adjusts the rear and front speaker output balance.	
SUBWOOFER SET/ SUB-W SET	ON*: Turns on the subwoofer output. ; OFF: Cancels.	
DETAILED SET/ DETAIL SET		
HPF	For KDC-X396 KDC-352U : THROUGH*: All signals are sent to the speaker. ; 100HZ/ 120HZ/ 150HZ: Frequencies lower than the specified value are cut off.	
LPF SUBWOOFER/ LPF SUB-W	THROUGH*: All signals are sent to the subwoofer. ; 85HZ/ 120HZ/ 160HZ: Frequencies higher than 85 Hz/ 120 Hz/ 160 Hz are cut off.	
SUB-W PHASE	REVERSE/ REV (180°)/ NORMAL/ NORM (0°)*: Selects the phase angle of the subwoofer output to be in line with the speaker output for optimum performance. (Selectable only if a setting other than [THROUGH] is selected for [LPF SUBWOOFER] / [LPF SUB-W].)	
SUPREME SET	ON*: Creates realistic sound by interpolating the high-frequency components that are lost in MP3/ WMA audio compression. ; OFF: Cancels. (Selectable only when playback an MP3/WMA disc or a USB device, except iPod.)	
VOLUME OFFSET/ VOL OFFSET (Preset: 0)	−8 — +8 (for AUX) ; −8 — 0 (for other sources): Presets the volume adjustment level of each source. The volume level will automatically increase or decrease when you change the source. (Before making an adjustment, select the source you want to adjust.)	

For **KDC-252U** **KDC-202U** **KDC-MP252U** **KDC-MP152U** **KMR-350U** :

- [SUB-W LEVEL/ SUB-W SET/ LPF SUB-W/ SUB-W PHASE] is selectable only if [SWITCH PRE] is set to [SUB-W]. (page 8)
- [SUB-W LEVEL/ LPF SUB-W/ SUB-W PHASE] is selectable only if [SUB-W SET] is set to [ON].

Continued...

[SETTINGS]

Item	Selectable setting (Preset: *)
AUX NAME SET/ AUX NAME	AUX*/ DVD/ PORTABLE/ GAME/ VIDEO/ TV: Selects the desired name for the connected component. (Selectable only if "AUX" is selected as the source.)
CLOCK	CLOCK ADJUST/ CLOCK ADJ: (For details, see page 8.)
DISP & KEY (for KDC-X396 KDC-352U)	
COLOR SELECT	VARIABLE SCAN*/ COLOR 01 – COLOR 24/ USER: Selects your preferred key illumination color. You can create your own color (when [COLOR 01] — [COLOR 24] or [USER] is selected). The color you created can be selected when you select [USER]. 1. Hold the volume knob to enter the detail color adjustment mode. 2. Press ◀◀ / ▶▶ to select the color (R/ G/ B) to adjust. Turn the volume knob to adjust the level (0 — 9). 3. Press the volume knob to confirm and exit.
DISP DIMMER	ON: Dims the display illumination. ; OFF*: Cancels.
TEXT SCROLL	AUTO*/ ONCE: Selects to scroll the display information automatically, or scroll only once. ; OFF: Cancels.
KEY DIMMER	DIMMER LV1: Dims the key illumination constantly. ; DIMMER LV2: Dims the key illumination darker than DIMMER LV1. ; DIMMER OFF*: Cancels.
DISPLAY (for KDC-252U KDC-202U KDC-MP252U KDC-MP152U KMR-350U)	
DISP DIMMER	ON: Dims the display illumination. ; OFF*: Cancels.
TEXT SCROLL	AUTO*/ ONCE: Selects to scroll the display information automatically, or scroll only once. ; OFF: Cancels.

Troubleshooting

Symptom	Remedy/Cause
Sound cannot be heard.	Adjust the volume to the optimum level. / Check the cords and connections.
"PROTECT" appears and no operations can be done.	Check to be sure the terminals of the speaker leads are covered with insulating tape properly, then reset the unit. If "PROTECT" does not disappear, consult your nearest service center.
Sound cannot be heard. / The unit does not turn on. / Information shown on the display is incorrect.	The connectors are dirty. Clean the connectors. (page 3)
The unit does not work at all.	Reset the unit. (page 4)
For KMR-350U : The Auto Power Off function (that will turn the power off in 20 minutes when in standby mode) does not work.	Make sure [OFF] is selected for [DEMO MODE]. (page 7)
Radio reception is poor. / Static noise while listening to the radio.	Connect the antenna firmly. / Pull the antenna out all the way.

Symptom		Remedy/Cause
"IN" flashes.		The CD player is not operating properly. Reinsert the disc properly. If the condition did not improve, turn off the unit and consult your nearest service center.
CD-R/CD-RW cannot be played back and tracks cannot be skipped.		Insert a finalized CD-R/CD-RW (finalize with the component which you used for recording).
Disc sound is sometimes interrupted.		Stop playback while driving on rough roads. / Change the disc. / Check the cords and connections.
"NA FILE" appears.		The unit is playing an unsupported audio file.
"NO DISC" appears.		Insert a playable disc into the loading slot.
"TOC ERROR" appears.		The CD is quite dirty. / The CD is upside-down. / The CD is scratched a lot. Try another disc instead.
"ERROR 99" appears.		The unit is malfunctioning for some reason. Press the reset button on the unit. If the "ERROR 99" code does not disappear, consult your nearest service center.
"READ ERROR" appears.		Copy the files and folders for the USB device again. If the error message is still displayed, initialize the USB device or use other USB devices.
"NO DEVICE" appears.		No USB device is connected. Connect an USB device, and change the source to USB again.
"COPY PRO" appears.		A copy-protected file is played.
"NO MUSIC" appears.		The connected USB device contains no playable audio file.
"NA DEVICE" appears.		Connect a supported USB device, and check the connections.
"USB ERROR" appears.		Remove the USB device, turn the unit off, then turn it on again. If the unit still showing the same display, try to connect another USB device.
"iPod ERROR" appears.		Reconnect the iPod. / Reset the iPod.
Noise is generated.		Skip to another track or change the disc.
Tracks cannot play back as you have intended them to play.		Playback order is determined when files are recorded.
"READING" keeps flashing.		Longer readout time is required. Do not use too many hierarchies and folders.
Elapsed playing time is not correct.		This is caused by how the tracks are recorded.
The number of songs contained in "SONGS" category of this unit is different from that contained in "SONGS" category of iPod.		Podcast files are not counted in this unit as this unit does not support the playback of podcast files.
Correct characters are not displayed (e.g. album name).		This unit can only display letters (upper case), numbers, and a limited number of symbols.
Pandora	"PANDORA ERR 5" / "PNDR ERR 5" appears.	Thumb up/down operation has failed.
	"NO STATIONS" appears.	No station is found.
	"NO SKIPS" appears.	The skip count limit has been exceeded.
	"CHK DEVICE" appears.	Check the Pandora® application on the iPhone/iPod touch.

Installation/connection

Part list:

- Ⓐ Faceplate..... (x1)
- Ⓑ Escutcheon..... (x1)
- Ⓒ Mounting sleeve..... (x1)
- Ⓓ Wiring harness..... (x1)
- Ⓔ Removal tool..... (x2)
- Ⓕ Flat head screw (for Nissan cars)..... (x4)
- Ⓖ Round head screw (for Toyota cars).... (x4)

Basic procedure

- 1 Remove the key from the ignition switch, then disconnect the ⊖ terminal of the car battery.
- 2 Make proper input and output wire connections.
➔ "Wiring connection" (page 19)
- 3 Install the unit to your car.
➔ "Installing the unit" (page 20)
- 4 Reconnect the ⊖ terminal of the car battery.
- 5 Reset the unit. (page 4)

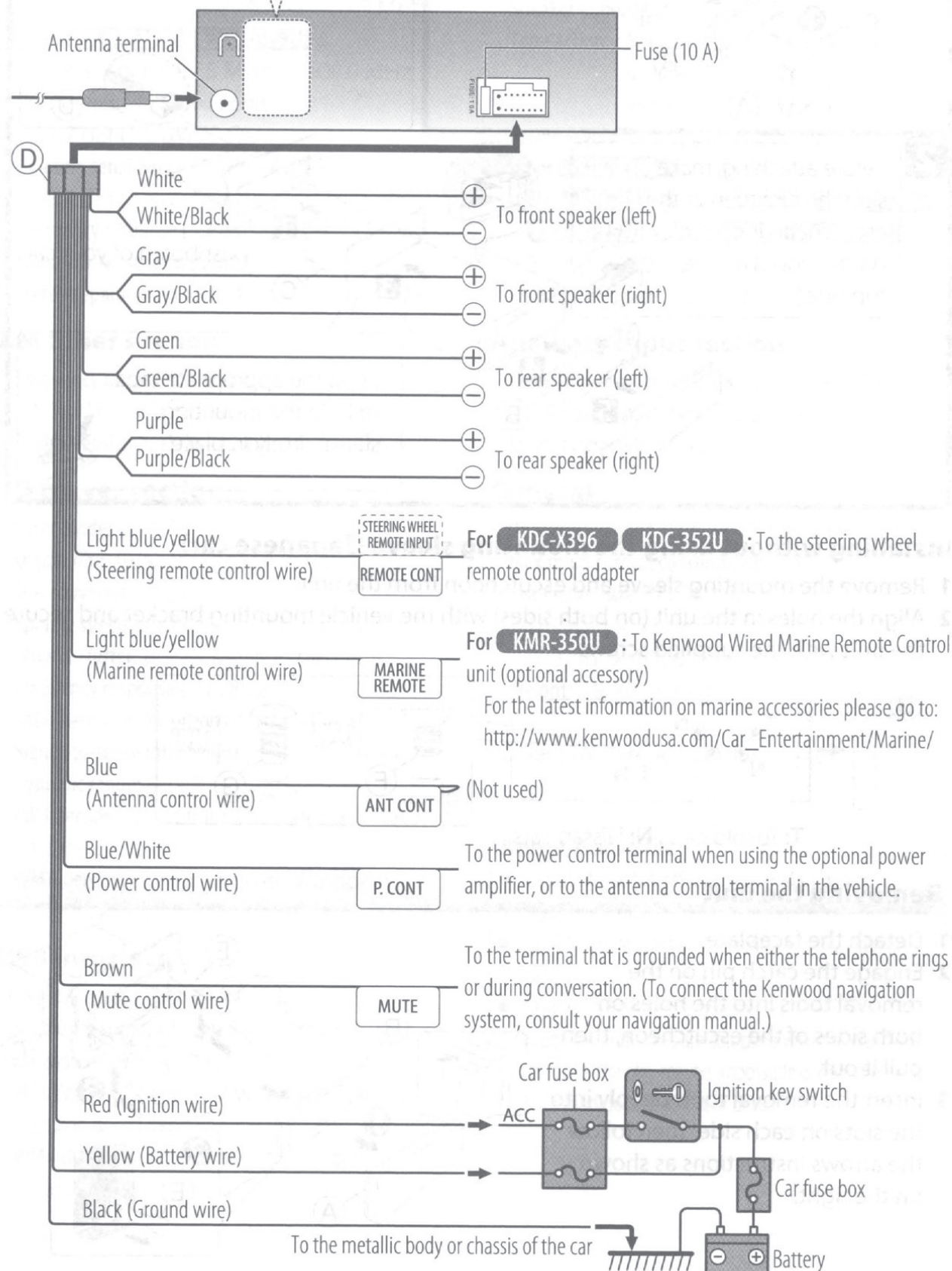
Warning

- The unit can only be installed in a car with a 12 V DC power supply, negative ground.
- 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.
- Disconnect the battery's negative terminal and make all electrical connections before installing the unit.
- 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.
- Be sure to ground this unit to the car's chassis again after installation.

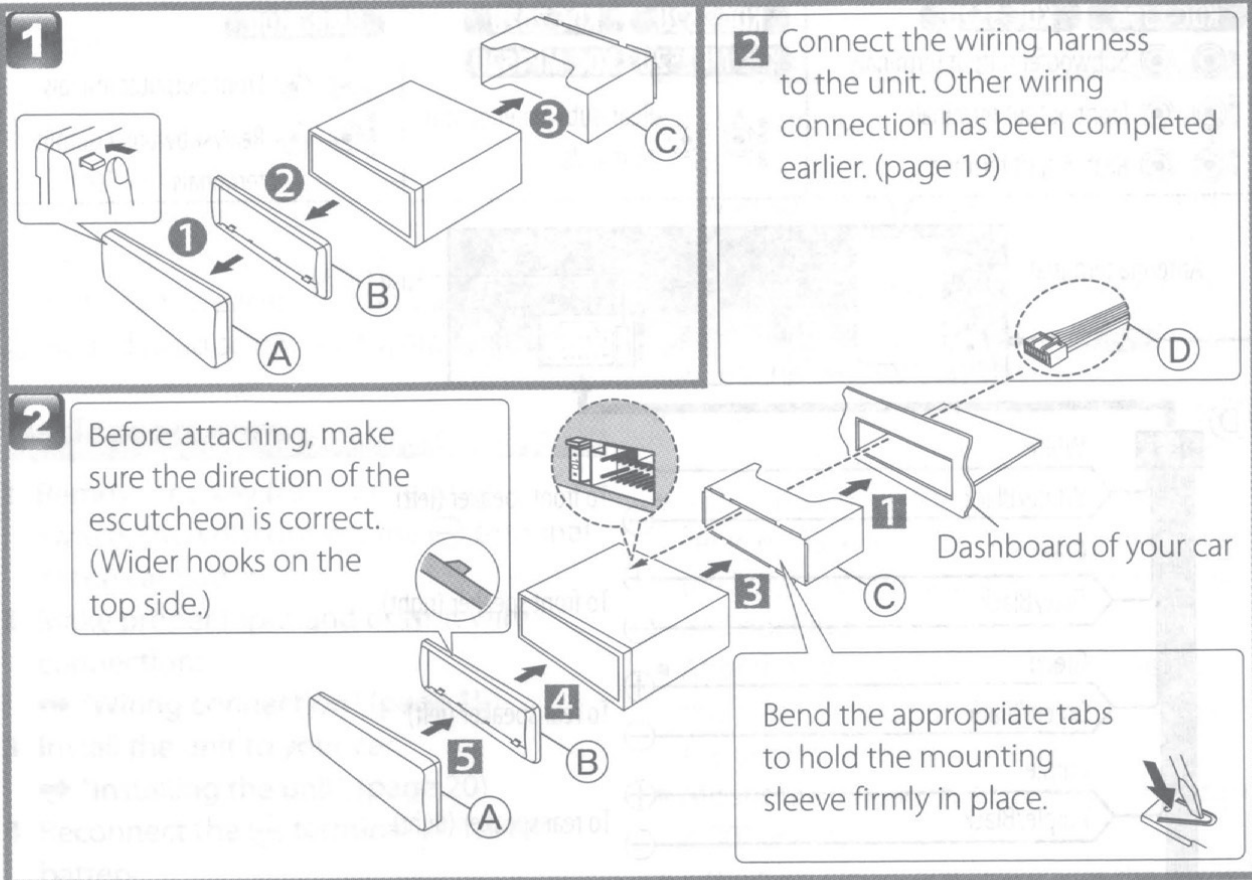
Caution

- 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.
- Do not use your own screws. Use only the screws provided.
- Install this unit in the console of your vehicle. Make sure the faceplate will not hit the lid of the console (if any) when closing and opening.
- 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.
- 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.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the ⊖ wires or ground them to any metal part in the car.
- 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).
- Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.
- Mounting and wiring this product requires skills and experience. For safety's sake, leave this work to professionals.
If you experience problems during installation, consult your Kenwood dealer.

Wiring connection

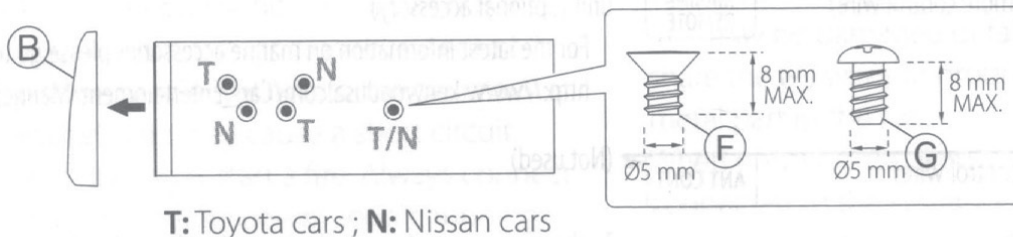


Installing the unit



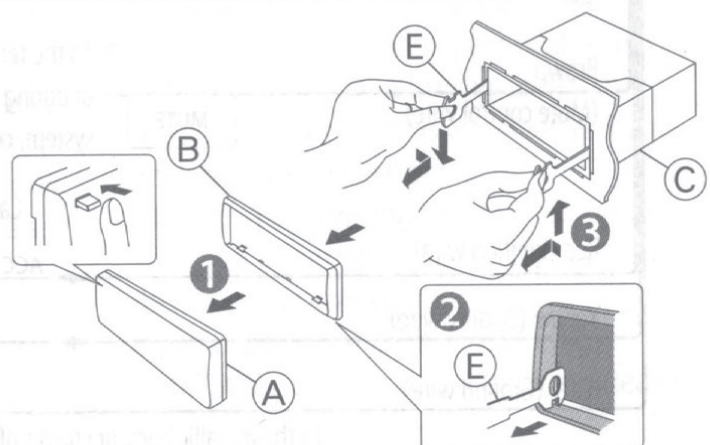
Installing without using the mounting sleeve (Japanese car)

- 1 Remove the mounting sleeve and escutcheon from the unit.
- 2 Align the holes in the unit (on both sides) with the vehicle mounting bracket and secure the unit with the supplied screws.



Removing the unit

- 1 Detach the faceplate.
- 2 Engage the catch pin on the removal tools into the holes on both sides of the escutcheon, then pull it out.
- 3 Insert the removal tools deeply into the slots on each side, then follow the arrows instructions as shown on the right.



Specifications

FM tuner section

Frequency range:

For **KDC-X396** **KDC-352U** **KDC-252U**
KDC-202U **KMR-350U** :

200 kHz space: 87.9 MHz — 107.9 MHz

For **KDC-MP252U** **KDC-MP152U** :

50 kHz space: 87.5 MHz — 108.0 MHz

Usable sensitivity (S/N= 26 dB):

11.2 dBf (1.0 μ V/75 Ω)

Quieting sensitivity (DIN S/N = 46 dB):

19.2 dBf (2.5 μ V/75 Ω)

Frequency response (± 3 dB): 30 Hz — 15 kHz

Signal-to-Noise ratio (MONO): 63 dB

Stereo separation (1 kHz): 40 dB

AM tuner section

Frequency range (10 kHz space):

530 kHz — 1 700 kHz

Usable sensitivity (S/N= 20 dB): 31 dB μ (36 μ V)

CD player section

Laser diode: GaAlAs

Digital filter (D/A): 8 Times Over Sampling

D/A converter: 24 Bit

Spindle speed: 500 rpm — 200 rpm (CLV)

Wow & Flutter: Below Measurable Limit

Frequency response (± 1 dB): 20 Hz — 20 kHz

Total harmonic distortion (1 kHz): 0.01 %

Signal-to-Noise ratio (1 kHz): 105 dB

Dynamic range: 90 dB

MP3 decode: Compliant with MPEG-1/2 Audio
Layer-3

WMA decode: Compliant with Windows
Media Audio

USB interface

USB standard: USB1.1/ 2.0 (Full speed)

Maximum supply current: DC 5 V \equiv 1 A

File system: FAT16/ 32

MP3 decode: Compliant with MPEG-1/2 Audio
Layer-3

WMA decode: Compliant with Windows
Media Audio

Audio section

Maximum output power: 50 W \times 4

Full bandwidth power (at less than 1 % THD):
22 W \times 4

Speaker impedance: 4 Ω — 8 Ω

Tone action: Bass: 100 Hz \pm 8 dB

Middle: 1 kHz \pm 8 dB

Treble: 12.5 kHz \pm 8 dB

Preout level / load (CD):

For **KDC-X396** : 4 000 mV/10 k Ω

For **KDC-352U** **KDC-252U** **KDC-202U**
KDC-MP252U **KDC-MP152U** **KMR-350U** :

2 500 mV/10 k Ω

Preout impedance: \leq 600 Ω

Auxiliary input section

Frequency response (± 3 dB): 20 Hz — 20 kHz

Input maximum voltage: 1 200 mV

Input impedance: 10 k Ω

General

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

Maximum current consumption: 10 A

Installation size (W \times H \times D):

182 mm \times 53 mm \times 158 mm

(7-3/16" \times 2-1/8" \times 6-1/4")

Weight: 2.9 lbs (1.3 kg)

Subject to change without notice.

About Audio file

- Playable Audio file: MP3 (.mp3), WMA (.wma)
- Playable disc media: CD-R/RW/ROM
- Playable disc file format: ISO 9660 Level 1/2, Joliet, Romeo, Long file name.
- Playable USB device file system: FAT16, FAT32

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.

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.

FCC 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.

- “Made for iPod,” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.
- iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.
- PANDORA, the PANDORA logo, and the Pandora trade dress are trademarks or registered trademarks of Pandora Media, Inc., used with permission.

MILITARY

Units purchased through the U.S.A. military exchange service overseas may be serviced under warranty in the continental U.S.A., subject to the following conditions.

- 1) The original warranty is in effect.
- 2) Proof of purchase is provided to the servicer.

WARRANTY FOR MILITARY MARKET

Kenwood corporation is proud of the quality and workmanship of its audio equipment. This unit has been properly designed, tested and inspected before it was shipped to you. If properly installed and operated in accordance with instructions furnished, it should give you an optimum reliable performance.

WARRANTY PERIOD

This product is warranted for a period of (1) year from the date of the original purchase.

SCOPE OF WARRANTY

Except as specified below, this warranty covers all defects in materials and workmanship of the Kenwood brand products.

During the warranty period, any authorized Kenwood Service Center in the military market listed in the back of this warranty card will provide you free-of-charge both parts and labor required to correct any defect in materials or workmanship.

The following are not covered by this warranty.

1. Voltage conversions.
2. Periodic check-ups which do not disclose any defect covered by the warranty.
3. Cabinets, grilles, other exterior finishes, belts, tape heads, and other non-durable parts and accessories.
4. Units on which the serial number has been effaced, modified or removed.
5. Installation and/or removal charges.
6. Damaged magnetic tapes.
7. House call charges for any repairs.
8. Shipping or delivery charges to or from an authorized Kenwood Service Center.
9. This warranty will not cover any failure that is due to any of the following conditions in accordance with the visual inspection of the authorized Kenwood Service Center:
 - * Improper maintenance or repair, including the installation of parts or accessories that do not conform to the quality and specifications of the original parts.
 - * Misuse, abuse, neglect, unauthorized product modification or failure to follow instructions contained in the Owner's Manual.
 - * Accidental or intentional damages.
 - * Repairs or attempted repairs by an unauthorized agency. (All repairs must be performed at an authorized Kenwood Service Center.)
 - * Damages or deteriorations caused during shipment (Claims must be presented to the carrier).
 - * Damages or deteriorations resulting from removal and/or replacement.

PURCHASER'S RESPONSIBILITIES

As the purchaser of a new Kenwood brand product, you are requested to do the following in order to obtain Kenwood warranty service.

1. Retain your sales slip or other evidence of purchase for proving your eligibility for requesting Kenwood warranty service.
2. Make your unit available to an authorized Kenwood Service Center in the military market for inspection and approved warranty service, or ship your unit in its original carton box or equivalent, fully insured and shipping charges prepaid, to the authorized Kenwood Service Center.

LIMITATION OF IMPLIED WARRANTIES

Any and all implied warranties, including warranties of merchantability and fitness for a particular purpose, shall be limited in duration to the length of this warranty.

EXCLUSION OF CERTAIN DAMAGES

KENWOOD's liability for any defective product is limited to the repair or replacement of said product, at our option, and shall not include damages of any kind, whether incidental, consequential or otherwise, except to the extent prohibited by applicable law.

KENWOOD AUTHORIZED SERVICE CENTERS IN MILITARY MARKET

JAPAN:

Yokota

Kenwood Rep.; c/o
Yokota BX, JAAX AAFES-PAC,
APO San Francisco 96328

Zama

Kenwood Rep.; c/o
Zama PX, JAAX AAFES-PAC,
APO San Francisco 96343

Misawa

Kenwood Rep.; c/o
Misawa BX, JAAX AAFES-PAC,
APO San Francisco 96519

Yokosuka

Kenwood Rep.; c/o
A-33, Yokosuka NEX No. 260-010
FPO Seattle 98760

Atsugi

Kenwood Rep.; c/o
Atsugi NEX No. 260-020 FPO Seattle
98767

Iwakuni

Kenwood Rep.; c/o
Marine Corps Exchange, Marine Corps
Air Station,
FPO Seattle 98764

Sasebo

Sasebo NEX;
Navy Exchange 260-040
F.A. Box 115 FPO Seattle 98766

Okinawa

Kenwood Rep.; c/o
OWAX, AAFES-PAC, APO San Francisco
96230

KOREA:

Kenwood Rep.; c/o
KOAX Repair Shop, AAFES-PAC
DD-Camp Market, APO San Francisco
96488

GUAM:

Kenwood Rep.; c/o
Guam NEX No. 230-010,
FPO San Francisco 96630
Kenwood Rep.; c/o
GUAX, AAFES-PAC, APO San Francisco
96334

U.S.A.:

Hawaii

Kenwood Factory Service
99-994 Iwaena St., Aiea, Hawaii 96701

Alaska

Vista Radio TV;
861 East Loop Road, Anchorage, Alaska
99501
Anchorage Commercial Electronics, Inc.;
1450 East 9th Ave., Anchorage, Alaska
99501

In The Continental U.S.A.

For Nearest Authorized Service Center;
Tel: 1-800-536-9663

Kenwood Service U.S.A.

Kenwood Factory Service;
P.O. Box 22745, 2201 East Dominguez
Street,
Long Beach, California 90801-5745
Tel: (310) 639-5300

EUROPE:

Please inquire at the military resale
outlets where you bought your Kenwood
products, or
KENWOOD ELECTRONICS
DEUTSCHLAND GMBH:
Rembrücker-Str. 15, 63150 Heusenstamm,
Germany
Tel.: 49-06104-69010

Warranty Card

Identification du produit
Modelo do aparelho e numero de série
Model number & serial number

Revendeur & cachet
Nome da loja e carimbo
Dealer & stamp

Date d'achat
Data da compra
Purchase date

Nom & adresse du client
Nome e endereço do cliente
Name & address of customer

Attention:

This card and receipt (or invoice) are necessary to purchase a new panel in case of theft or damage.

Attention:

Vous aurez besoin de cette carte et du reçu (ou de la facture) pour acheter un nouveau panneau en cas de vol ou d'endommagement.

Atenção:

Em caso de dano ou perda do painel frontal, este Certificado de Garantia e a Nota Fiscal de compra serão requisitados para a aquisição de um novo painel.

© B46-0824-00/00 (K) (11/08)

Dear Customer,

Thank you for purchasing this kenwood product. As mentioned in the pages of this booklet, our warranty is only valid in the countries listed. If your country is not listed please contact your retailer for information on warranty procedure, or write to:

JVC KENWOOD Customer Information Center

3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa 221-0022, Japan

U.S.A.	KENWOOD USA CORPORATION
This warranty will be honored only in the U.S.A.	
KENWOOD LIMITED WARRANTY FOR CAR STEREO COMPONENTS	WHO IS PROTECTED This warranty is enforceable only by the original purchaser.
HOW LONG IS THE WARRANTY Kenwood U.S.A. Corporation ("Kenwood") warrants this product for a period of one (1) year from the date of original purchase.	WHAT WE WILL PAY FOR We will pay for all labor and material expenses for covered items. Payment of shipping charges is discussed in the next section of this warranty.
WHAT IS COVERED AND WHAT IS NOT COVERED Except as specified below, this warranty covers all defects in material and workmanship in Kenwood car stereo components. The following are not covered by the warranty: 1. Any product which is not distributed in the U.S.A. by Kenwood or which is not purchased in the U.S.A. from an authorized Kenwood car stereo dealer or an automobile dealer, unless the product is purchased through the U.S.A. Military Exchange Service. 2. Any product on which the serial number has been defaced, modified or removed. 3. Damage, deterioration or malfunction resulting from: a. Any shipment of the product (claims must be presented to the carrier). b. Installation or removal of the product. c. Accident, acts of nature, misuse, abuse, neglect, unauthorized product modification or failure to follow instructions supplied with the product. d. Repair or attempted repair by anyone not authorized by Kenwood. e. Any other cause which does not relate to a product defect.	HOW TO OBTAIN WARRANTY SERVICE If your KENWOOD product ever needs service: 1. Take or ship it to any KENWOOD Authorized Service Center in the U.S.A. along with & complete description of the problem, (if you are uncertain as to whether a Service Center is authorized, please call 1-800-KENWOOD for the nearest Service Center. 1-800-536-9663). 2. Although you must pay any shipping charges if it is necessary to ship the product for warranty service, we will pay the return shipping charges if the repairs are covered by the warranty within the United States. 3. Whenever your units are taken or sent for warranty service, you must include a copy of the original dated sales receipt as proof of warranty coverage.
	LIMITATION OF IMPLIED WARRANTIES ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.
	KENWOOD USA CORPORATION P.O Box 22745, 2201 East Dominguez Street, Long Beach, CA 90801-5745 Tel: (310) 639-5300

BRASIL	JVC KENWOOD DO BRASIL COMERCIO DE ELECTRONICOS LTDA.
O fabricante garante o produto identificado na Nota Fiscal de venda ao consumidor contra qualquer defeito de fabricação ou de matéria-prima durante o período de garantia. Esta garantia é válida no território brasileiro, condicionado ao uso correto do aparelho conforme o manual de instruções.	
PERÍODO DE GARANTIA Este produto é garantido pelo prazo de 01 (um) ano, incluindo o período estabelecido por lei, a partir da data de aquisição, comprovada mediante a apresentação da respectiva Nota Fiscal de venda ao consumidor final. Eventuais reparos realizados no produto durante o período de garantia não implicam na dilatação do seu prazo.	CONCERTO EM GARANTIA É indispensável a apresentação deste Certificado de Garantia devidamente preenchido, acompanhado da respectiva Nota Fiscal de compra do produto.
EXCLUSÃO DA GARANTIA (a) Produtos com o número de série ou certificado de garantia rasurados, adulterados ou ilegíveis; (b) Defeitos resultantes de acidentes (quedas, batidas e etc), uso em desacordo com o manual de instruções, má utilização, ligação à fonte de tensão diferente da especificada no Manual de Instruções, modificações não autorizadas; (c) Danos causados por agentes da natureza (Ex: Chuvas, raios, maresia, enchentes e etc); (d) Defeitos ou danos em decorrência de concertos realizados por pessoas não autorizadas; (e) Defeitos ou danos resultantes do uso de peças ou dispositivos não conformes às especificações da Kenwood; (f) Danos ou deteriorações aos acabamentos externos, partes cosméticas, cabos, adaptadores, antenas, fitas, cabeças gravadoras, CDs ou danos causados por pilhas defeituosas ou com vazamento; (g) Defeitos ou danos devido ao transporte (reclamações devem ser feitas junto à empresa transportadora); (h) Qualquer outra causa que não esteja relacionada a defeitos de matéria-prima e de fabricação; (i) Danos causados por tentativa de roubo ou furto; (j) Danos causados por uso de CDs de má qualidade.	O QUE NÃO É COBERTO PELA GARANTIA Instalação e remoção do produto, despesas de frete, seguro e embalagem são de responsabilidade do proprietário.
	JVC KENWOOD DO BRASIL COMERCIO DE ELECTRONICOS LTDA. Tel: 0800-7717270 www.kenwood.com.br

CANADA	KENWOOD ELECTRONICS CANADA INC.
KENWOOD WARRANTY KENWOOD ELECTRONICS CANADA INC. (hereinafter called "KENWOOD"), gives the following written warranty to the original customer of each new Kenwood product distributed in Canada by KENWOOD and purchased from a dealer authorized by KENWOOD. KENWOOD warrants that each new Kenwood product, under normal use, is free from any defects, subject to the terms and conditions set forth below. If a defect should occur within the warranty period, repairs will be made free of charge for parts and labour when such defects are determined by KENWOOD or its' authorized service centres to be attributable to faulty materials or workmanship at time of manufacture. Please contact KENWOOD to confirm if a dealer or service centre is authorized by KENWOOD. WARRANTY PERIOD This Kenwood product is warranted for parts and labour for a period of one (1) year from the date of original purchase, lease or rental, except for products which are used in a professional or commercial application, which are warranted for a period of ninety (90) days for parts and labour and are subject to the terms and conditions of the warranty. WARRANTY EXCLUSIONS This warranty excludes: (a) Products purchased in a foreign country or purchased in Canada and taken to a foreign country. (b) Products purchased from a dealer not authorized by KENWOOD. (c) Products with the serial number defaced, altered or missing. (d) Periodic check-ups which do not disclose any defects covered by this warranty.	ENTIRE WARRANTY This warranty constitutes the entire written warranty given by KENWOOD. No person, party, dealer or service centre or their agents or employees are authorized to extend or enlarge this warranty on behalf of KENWOOD by any written or verbal statement or advertisement or promotion, including any extended warranty program or plan that may be offered by the dealer or service centre, unless approved in writing by KENWOOD. DISCLAIMER KENWOOD disclaims any responsibility for loss of time or use of the product or any other indirect, incidental or consequential damage to other products or goods, inconvenience or commercial loss. NOTICE TO CONSUMER The provisions contained in this written warranty are not intended to limit, modify, take away, disclaim or exclude any warranties or rights you may have which are set forth in any applicable provincial or federal laws or legislation. IMPORTANT This warranty card by itself is not considered by KENWOOD as a valid proof of purchase. When applying for warranty repairs, you must present the original copy of your bill of sale and this warranty card as proof of warranty, so we recommend that they be kept in a safe place, should they be required in the future. KENWOOD ELECTRONICS CANADA INC. 6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8 Tel.: (905) 670-7211 Fax: (905) 670-7248

GARANTIE KENWOOD KENWOOD ELECTRONICS CANADA INC. (ci-après appelée "KENWOOD"), donne par écrit la garantie suivante à l'acheteur original de chaque nouveau produit Kenwood distribué au Canada par KENWOOD et acheté à un concessionnaire autorisé par KENWOOD. KENWOOD garantit, sous réserve des termes et des conditions énoncés ci-dessous, que chaque nouveau produit Kenwood, dans des conditions d'emploi normales, est exempt de tous défauts. Si l'un défaut se produit pendant la période de garantie, KENWOOD s'engage à assumer le coût des pièces défectueuses et de la main-d'œuvre nécessaires pour effectuer les réparations pourvu que de tels défauts sont attribuables à des pièces défectueuses employées lors de la fabrication du produit Kenwood ou à la main-d'œuvre tel qu'établi par KENWOOD ou par l'un de ses centres de service autorisés. Appelez KENWOOD pour vérifier si un concessionnaire ou un centre de service est autorisé par KENWOOD. PÉRIODE DE GARANTIE Les pièces et la main-d'œuvre nécessaires pour la réparation des produits Kenwood sont garanties pendant la période d'un (1) an à compter de la date d'achat, de bail ou de location originale, sauf dans les cas où les produits Kenwood sont employés dans un but professionnel ou commercial, où la garantie des pièces et de la main-d'œuvre demeure en vigueur pendant une période de quatre-vingt-dix (90) jours sous réserve des termes et des conditions de la garantie. EXCLUSIONS DE GARANTIE Cette garantie ne couvre pas: (a) les produits achetés à l'étranger ou achetés au Canada et transportés à l'étranger; (b) les produits achetés à un concessionnaire non autorisé par KENWOOD; (c) les produits dont le numéro de série manque, a été effacé ou modifié; (d) les services d'entretien périodiques qui n'indiquent aucun défaut couvert par cette garantie;	<p>(e) les défauts causés par les désastres, les accidents, les abus, les emplois incorrects, les éclairs, les surtensions de courant, les manques de soins ou d'entretiens périodiques, les modifications non autorisées ou les manques de respect du mode d'emploi;</p> <p>(f) les défauts ou les dommages causés lors de réparations effectuées par une personne ou par une partie non autorisée par KENWOOD;</p> <p>(g) les défauts causés par l'emploi de pièces ou de dispositifs qui ne se conforment pas aux exigences de KENWOOD;</p> <p>(h) les finitions extérieures, les pièces cosmétiques, les têtes de bandes, les adaptateurs, les antennes, les câbles, les bandes, les disques endommagés ou déperis, ni les défauts ou dommages causés par des piles défectueuses ou qui fuient;</p> <p>(i) les défauts ou dommages qui se produisent pendant l'expédition des produits Kenwood (On devrait déposer de telles réclamations auprès des compagnies de transport);</p> <p>(j) les conversions de tension et/ou de fréquence du produit;</p> <p>(k) les frais d'installation ou d'enlèvement du produit.</p> COMMENT OBTENIR DU SERVICE SOUS GARANTIE Au cas où un service sous garantie de votre produit Kenwood s'avère nécessaire, veuillez livrer le produit à n'importe quel centre de service KENWOOD et présenter la copie originale du contrat de vente et cette carte de garantie en tant que preuve de garantie ou veuillez faire parvenir votre produit assuré et port payé au centre de service KENWOOD autorisé le plus proche. Pour éviter toutes possibilités de dommages pendant le transport, veuillez bien emballer le produit. Veuillez inclure une copie du contrat de vente original et cette carte de garantie en tant que preuve de garantie aussi bien que votre nom, numéros de téléphone au poste de travail et/ou au domicile, votre adresse et une description détaillée des défauts. Les produits sous garantie réparés seront retournés port payé aux destinations à l'intérieur du Canada. Le consommateur sera responsable de tous frais de transport et d'autres frais qui s'y rapportent pour faire expédier les produits à destinations à l'extérieur du Canada.
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