KDC-X659 KDC-MP819 KDC-719 KDC-X559

CD-RECEIVER

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-X659/MP819/719/X559 Serial number _____

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A Warning

ACAUTION

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

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD CORPORATION 2967-3, ISHIKAWA-CHO, HACHIOJI-SHI TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT CONFORMS TO DHHS REGULATIONS N0.21 CFR 1040. 10, CHAPTER 1, SUBCHAPTER J.

Location : Bottom Panel

FCC WARNING

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

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause barmful 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.

NOTE

This Class B digital apparatus complies with Canadian ICES-003.

To prevent injury or fire, take the following precautions:

- Insert the unit all the way in until it is fully locked in place. Otherwise it may fall out of place when jolted.
- When extending the ignition, battery, or ground wires, make sure to use automotivegrade wires or other wires with a 0.75mm² (AWG18) or more to prevent wire deterioration and damage to the wire coating.
- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer.
- Make sure not to get your fingers caught between the faceplate and the unit.
- Be careful not to drop the unit or subject it to strong shock.

The unit may break or crack because it contains glass parts.

ACAUTION

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

- Make sure to ground the unit to a negative 12V DC power supply.
- Do not open the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- To prevent a short circuit when replacing a fuse, first disconnect the wiring harness.
- Do not place any object between the faceplate and the unit.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- Do not apply excessive force to the moving faceplate. Doing so will cause damage or malfunction.
- Do not apply excessive force to the open faceplate or place objects on it. Doing so will cause damage or breakdown.

IMPORTANT INFORMATION About the disc changer/CD player to be connected:

To connect a disc changer having the "O-N" switch to this unit, set the "O-N" switch to "N". When you connect a model with no "O-N" switch, the converter cord CA-DS100 available as an option may be required. For details, consult your Kenwood dealer.

A disc changer doesn't work when it is connected without using these options. If a model with no "O-N" switch is connected, some unavailable functions and information that cannot be displayed are generated. Note that none of the KDC-C100, KDC-C302, C205, C705, and non-Kenwood CD changers can be connected.

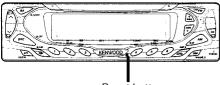
You can damage both your unit and the CD changer if you connect them incorrectly.

Do Not Load 3-in. CDs in the CD slot

If you try to load a 3 in. CD with its adapter into the unit, the adapter might separate from the CD and damage the unit.

NOTE

- If you experience problems during installation, consult your Kenwood dealer.
- If the unit fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed. If the unit still fails to operate properly after the Reset button has been pressed, contact your local KENWOOD dealer for assistance.
- Press the reset button if the disc auto changer fails to operate correctly. Normal operation should be restored.



Reset button

- We recommend the use of the Security Code function (see p. 26) to prevent theft.
- 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 represent something impossible in actual operation.

Lens Fogging

Right after you turn on the car heater in cold weather, dew or condensation may form on the lens in the CD player of the unit. Called lens fogging, CDs may be impossible 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.

Cleaning the Faceplate Terminals

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

Cleaning the Unit

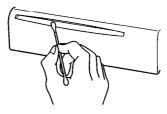
If the faceplate of this unit is stained, wipe it with a dry soft cloth such as a silicon cloth. If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe neutral detergent off.



Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the faceplate with a hard cloth or using a volatile liquid such as thinner or alcohol may scratch the surface or erases characters.

Cleaning the CD Slot

As dust tends to accumulate in the CD slot, clean it every once in a while. Your CDs can get scratched if you put them in a dusty CD slot.



Notes on playing MP3 (KDC-X659/ KDC-MP819)

This unit can play MP3(MPEG1, 2, 2.5 Audio Laver 3). Note. however, that the MP3 recording media and formats acceptable, are limited. When writing MP3, pay attention to the following restrictions.

Acceptable media

The MP3 recording media acceptable to this unit are CD-ROM, CD-R, and CD-RW

When using CD-RW, do full format not quick format to prevent malfunction.

Acceptable medium formats

The following formats are available for the media used in this unit. The maximum number of characters used for file name including the delimiter (".") and three-character extension are indicated in parentheses.

- ISO 9660 Level 1 (12 characters)
- ISO 9660 Level 2 (31 characters)
- Joliet (64 characters)
- Romeo (128 characters)

Up to 200 characters can be displayed in the long file name format. For a list of available characters, see the instruction manual of the writing software and the section Entering file and folder names below. The media reproducible on this unit has the following limitations:

- Maximum number of directory levels: 8
- Maximum number of files per folder: 255
- Maximum number of characters for folder name: 64
- Maximum number of folders: 50

MP3 written in the formats other than the above may not be successfully played and their file names or folder names are not properly displayed.

Settings for your MP3 encoder and CD writer

When you use your CD writer to record MP3 up to the maximum disc capacity, disable additional writing. For recording on an empty disc up to the maximum capacity at once, check Disc at Once.

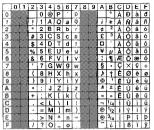
Entering ID3 taa

The Displayable ID3 tag is ID3 version 1 # •

For the character code, refer to the List of Codes

Entering file and folder names

The code list characters are the only file names and folder names that can be entered and displayed. If you use any other character for



entry, the file and folder names are not displayed correctly. They may neither be displayed correctly depending on the CD writer used. The unit recognizes and plays only those MP3 which have the MP3 extension (.MP3).



A file with a name entered with characters not on the code list may not play correctly.

Writing files into a medium

When a medium containing MP3 data is loaded, the unit checks all the data on the medium. If the medium contains a lot of folders or non-MP3 files, therefore, it takes a long time until the unit starts playing MP3.

In addition, it may take time for the unit to move to the next MP3 file or a Track Search or Album Search may not be performed smoothly.



Loading such a medium may produce loud noise to damage the speakers.

Loading such a medium may produce load notes to access to the second sec MP3 extension.

The unit mistakes non-MP3 files for MP3 data as long as they have the MP3 extension

Do not attempt to play a medium containing non MP3.

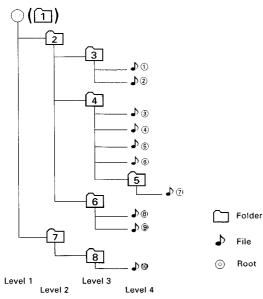
MP3 playing order

When selected for play, Album Search, Track Search, or for Album Select, files and folders are accessed in the order in which they were written by the CD writer.

Because of this, the order in which they are expected to be played may not match the order in which they are actually played. You may be able to set the order in which MP3 are to be played by writing them onto a medium such as a CD-R with their file names beginning with play sequence numbers such as "01" to "99", depending on your CD writer.

For example, a medium with the following folder/ file hierarchy is subject to Album Search, Track Search, or Album Select as shown below.

Example of a medium's folder/file hierarchy



When a Track Search is executed with file \mathbf{J} being played ...

Current	Operation of the button				Operation of the button	
file number	Here Button	►► Button				
.♪④	Beginning of file⊅④ ♦ ♪③	♪§ ♦ ♪®				

When an Album Search is executed with file b being played ...

Current	Operation of the button		
folder number	AM Button	FM Button	
4	3 ▶ 2 ▶ 1 ▶ 8 •••	5 • 6 • 7 • 8 • 1 •••	

When Album Select is selected with file ${\bf r}_{\bf r}$ being played to move from folder to folder ...

Current	Operation of the button			
folder number	Here Button	Button	AM Button	FM Button
4	3	6	2]	5

-

About CDs

Handling CDs

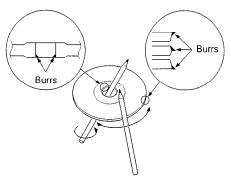
• Don't touch the recording surface of the CD.



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

When using a new CD

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

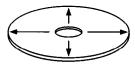


CD accessories

Don't use disc type accessories.

CD cleaning

Clean from the center of the disc and move outward.

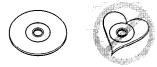


Removing CDs

When removing CDs from this unit pull them out horizontally.

CDs that can't be used

• CDs that aren't round can't be used.

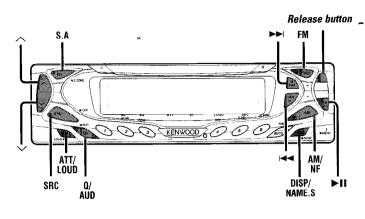


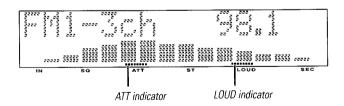
- CDs with coloring on the recording surface or that are dirty can't be used.
- Don't use CDs without disc mark
- A CD-R or CD-RW that hasn't been finalized can't be played. (For the finalization process refer to your CD-R/CD-RW writing software, and your CD-R/CD-RW recorder instruction manual.)

CD storage

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

General features





Power

Turning ON the Power

Press the [SRC] button.

When the power is ON, the <Security Code> (page 26) is displayed as "CODE ON" or "CODE OFF".

Turning OFF the Power

Press the [SRC] button for at least 1 second.

Press the [SRC] button.	
Source required	Display
Tuner	"TUNER"
CD	"CD"
External disc	"CD 2"/"DISC"
Auxiliary input	"AUX"
Standby (Illumination only mode)	"ALL OFF"



KDC-719

For Auxiliary input one of the below optional accessories is necessary.

- KCA-S210A

- CA-C1AX

- CD changer with an Auxiliary input function installed.

General features

Increasing Volume

Volume

Press the [] button.

Decreasing Volume

Press the $[\vee]$ button.

Attenuator

Turning the volume down guickly.

Press the [ATT] button.

Each time the button is pressed the Attenuator turns ON or OFF. When it's ON, the "ATT" indicator blinks.

2 Select the Sound type

Press the [Q] button.

* • Each time the button is pressed the sound setting switches.

Sound setting	Display	
Flat	"FLAT"	
User memory	"User Preset"	
Rock	"ROCK"	
Pops	"POPS"	
Easy	"EASY"	
Тор 40	"TOP 40"	
Jazz	"JAZZ"	

• User memory: The values set on the <Audio control> (page 10).

 • User memory, me values set on the speaker & Woofer Setting>
 • Each setting value is changed on the <Speaker & Woofer Setting> (page 12) or <Speaker Setting> (page 11). First, select the Speaker and Woofer type with the <Speaker & Woofer Setting> or <Speaker Setting>.

Loudness

Compensating for low and high tones during low volume.

Press the [LOUD] button for at least 1 second.

Each time the button is pressed for at least 1 second the Loudness turns ON or OFF. When it's ON, "LOUD" indicator is ON.

System Q

You can recall the best sound setting preset for different types of the music.

1 Select the source to set Press the [SRC] button.

Audio Control

- **1** Select the source for adjustment Press the [SRC] button.
- 2 Enter Audio Control mode Press the [AUD] button for at least 1 second.
- **3** Select the Audio item for adjustment Press the [FM] or [AM] button. Each time the button is pressed the items that can be adjusted
- switch as shown below. 4 Adjust the Audio item

Press the [I

Adjustment Item	Display	Range	
Bass Center Frequency*	"Bass FRQ"	60/70/80/100 or 150 Hz	
Bass level -	"Bass"	-8 +8	
Bass Q Factor*	"Bass Q"	1.00/1.25/1.50/2.00	
Bass Extend*	"Bass EXT"	ON/OFF	
Middle Center Frequency*	"MID FRQ"	0.5/1.0/1.5/2.0 kHz	
Middle level	"MID"	-8 +8	
Middle Q Factor*	"Middle Q"	1.0/2.0	
Treble Center Frequency*	"TRE FRQ"	10.0/12.5/15.0/17.5 kHz	
Treble level	"TRE"	-8 +8	
Balance	"Balance"	Left 15 — Right 15	
Fader	"Fader"	Rear 15 — Front 15	
Non-Fading level*	"NF Level"	-15 +15	
Front High Pass Filter*	"HPF Front"	Through/40/60/80/100/ 120/150/180/220 Hz	
Rear High Pass Filter*	"HPF Rear"	Through/40/60/80/100/ 120/150/180/220 Hz	
Non-Fading Low Pass Filter*	"LPF NF"	50/80/120/Through Hz	
Non-Fading Phase* (180°)	"NF Phase"	Normal (0°)/Reverse	
Volume offset	"Volume Offse	t" -8 ±0	
According to the Bass Q Factor setting value, the frequencies that can be set in Bass Center Frequency change as shown below. Bass Q Factor Bass Center Frequency			

Bass Q Factor	Bass Center Frequency
1.00/1.25/1.50	60/70/80/100
2.00	60/70/80/150

- When the bass extend is set to ON, low frequency response is extended by 20%.
- Volume offset: Each source's volume can be set as a difference from the basic volume.
- * :Function of the KDC-X659 / KDC-X559

5 Exit Audio Control mode

Press the [AUD] button.

Function of the KDC-MP819/KDC-719

- Speaker Setting

Fine-tuning so that the System Q value is optimal when setting the speaker type.

1 Enter Standby

Press the [SRC] button. Select the "ALL OFF" display.

2 Enter Speaker Setting mode Press the [Q] button. "Speaker Setting" is displayed.

3 Select the Speaker type

Press the [I◄◄] or [►►I] button.

Each time the button is pressed the setting switches as shown below.

Speaker type	Display	
OFF	"OFF"	
For 5 & 4 in. speaker	"5/4 inch"	
For 6 & 6x9 in. speaker	"6*9/6 inch"	
For the OEM speaker	"O.E.M."	

4 Exit Speaker Setting mode

Press the [Q] button.

General features

Function of the KDC-X659/KDC-X559

Speaker & Woofer Setting

Fine-tuning so that the System Q value is optimal when setting the speaker and woofer type.

1 Enter Standby

Press the [SRC] button. Select the "ALL OFF" display.

2 Enter Speaker & Woofer Setting mode Press the [O] button. "Speaker Setting" is displayed.

3 Select the Setting mode

Press the [FM] or [AM] button.

Each time the button is pressed it switches between Speaker setting mode and Woofer setting mode.

4 Select the Speaker and Woofer type

Press the [I

Each time the button is pressed the setting switches as shown below.

In Speaker setting mode

Speaker type	Display	
OFF	"OFF"	
For 5 & 4 in. speaker	"5/4 inch"	
For 6 & 6x9 in. speaker	"6 * 9/6 inch"	
For the OEM speaker	"O.E.M."	

In Woofer setting mode

Woofer type	Display
OFF	"Woofer OFF"
12 in. A type	"12in typeA"
10 in. A type	"10in typeA"
12 in. B type	"12in typeB"
10 in. B type	"10in typeB"
12 in. C type	"12in typeC"
10 in. C type	"10in typeC"
8 in. type	"8inch"
12 in. D type	"12in typeD"
10 in. D type	"10in typeD"

5 Exit Speaker & Woofer Setting mode

Press the [Q] button.

Station/Disc Naming (SNPS/DNPS)

Attaching a title to a Station or CD.

1 Receive/play the station/disc you want to attach a title to

A title can't be attached to a MD.
Disc Naming can't be done during CD text display.

2 Enter name set mode

Press the [NAME.S] button for at least 2 seconds. "Name Set" is displayed.

3 Move the cursor to the enter character position Press the [I◄◄] or [►►I] button.

4 Select the character type

Press the [>II] button.

Each time the button is pressed the character type switches as shown below

Character type

Alphabet upper case

Alphabet lower case

Numbers and symbols

Special characters (Accent characters)

5 Select the characters

Press the [FM] or [AM] button.



Characters can be entered by using a remote with a number buttons.

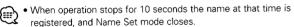
Example: If "DANCE" is entered.

Character	Button	#Times pressed
"D"	[#3]	1
"A"	[#2]	1
"N"	[#6]	2
"C"	[#2]	3
"E"	[#3]	2

6 Repeat steps 3 through 5 and enter the name.

7 Exit name set mode

Press the [NAME.S] button.



- Memory numbers
 - FM: 32 stations
 - AM: 16 stations
 - Internal CD player: 30 discs
 - External CD changer/ player: Varies according to the CD changer/ player. Refer to the CD changer/ player manual.
- The title of station/CD can be changed by the same operation used to name it.

Display Mode Switching

Switching the display mode.

Press the [DISP] button.

Each time the button is pressed the Display mode switches as shown below

Display
"Display Type A"
"Display Type B"
"Display Type C"

- The display of each part can be changed. ₩)
 - Switching Upper and Lower Part Display: (page 14) - Switching Full Screen Display: (page 13)
 - "Display Type C" can't be selected in "ALL OFF".

Switching Full Screen Display

Switching the Full screen display.

Press the [S.A] button.

Each time the button is pressed the display switches as shown below.

Information

Demonstration

Spectrum Analyzer 1

Spectrum Analyzer 2

Spectrum Analyzer 3

Spectrum Analyzer 4

Spectrum Analyzer 5



Eull Screen display can be selected when "Display Type C" is selected in <Display Mode Switching> (page 13).

General features

Switching the Standb witching the information di	
Fress the [SRC] button. Select the "ALL OFF" displa	ay.
2 Switch the display Press the [S.A] button. Each time the button is pre- below.	essed the display switches as shown
Information	Display
Demonstration	
Date & Clock	

⊜ in <Display Mode Switching> (page 13).

 Only "Display Type A" and "Display Type B" can be selected in "ALL OFF".

Switching Upper and Lower Part Display

Switching the upper and lower part display.

- **1** Select the Display Type Press the [DISP] button.
- 2 Enter Display Control mode Press the [S.A] button. "Display Control Mode On" is displayed.
- 3 Switch the Upper part display Press the [FM] or [AM] button.

Switch the Lower part display Press the [I Each time the button is pressed the display switches.

The Reference for the display content is after this operation's explanation.

4^e Exit Display Control mode

Press the [S.A] button.

- The same information can't be displayed on the Upper part display ⊜ and lower part display.
 - The Upper part display and Lower part display switching can be selected when "Display Type A" is selected in <Display Mode Switching> (page 13).
 - When "Display Type B" is selected the Lower part display content is clock ON or OFF.

In Tuner source

Upper Part Display

Information	Display
Band display & Station name	"BAND+ch+SNPS"
Band display & Frequency	"BAND+ch+FREQ"

Lower Part Display

Information	Display	
Spectrum Analyzer & Graphic	"S/ANA+GRAPHIC"	
Spectrum Analyzer & Clock	"S/ANA+CLOCK"	
Spectrum Analyzer	"S/ANA"	
Date	"DATE"	
Clock & Graphic	"CLOCK+GRAPHIC"	

For Disc name registration refer to <Station/Disc Naming (SNPS/DNPS)> (page 12).

In CD/ External disc source

Upper Part Display

Information	Display
Track Time	"P-Time"
Disc name	"DNPS"
Disc title	"DISC-TITLE"
Track title	"TRACK-TITLE"

ø:

Lower Part Display

Information	Display	
Spectrum Analyzer & Graphic	"S/ANA+GRAPHIC"	
Spectrum Analyzer & Clock	"S/ANA+CLOCK"	
Spectrum Analyzer	"S/ANA"	
Track title	"TRACK-TITLE"	
Disc title	"DISC-TITLE"	
Disc name (CD player / CDchenger)	"DNPS"	
Date	"DATE"	
Clock & Graphic	"CLOCK+GRAPHIC"	

For Disc name registration refer to <Station/Disc Naming (SNPS/DNPS)> (page 12).

Function of the KDC-X659/KDC-MP819

In MP3 source

Upper Part Display

Information	Display
Track Time	"P-Time"
Disc name	"DNPS"
Folder name	"FOLDER NAME"
File name	"FILE NAME"
Song title & Artist name	"TITLE/ARTIST"
Album name & Artist name	"ALBUM/ARTIST"

Lower Part Display	
Information	Display
Spectrum Analyzer & Graphic	"S/ANA+GRAPHIC"
Spectrum Analyzer & Clock	"S/ANA+CLOCK"
Spectrum Analyzer	"S/ANA"
Album name & Artist name	"ALBUM/ARTIST"
Song title & Artist name	"TITLE/ARTIST"
File name	"FILE NAME"
Folder name	"FOLDER NAME"
Disc name	"DNPS"
Date	"DATE"
Clock & Graphic	"CLOCK+GRAPHIC"

For Disc name registration refer to <Station/Disc Naming (SNPS/DNPS)> (page 12)

In Auxiliary input source

Lower Part Display

Information	Display
Spectrum Analyzer & Graphic	"S/ANA+GRAPHIC"
Spectrum Analyzer & Clock	"S/ANA+CLOCK"
Spectrum Analyzer	"S/ANA"
Date	"DATE"
Clock & Graphic	"CLOCK+GRAPHIC"



The Auxiliary input name is always displayed on the Upper part display.

General features

Auxiliary Input Display Setting

Selecting the display when this device is switched to Auxiliary input source.

- **1** Select Auxiliary input source Press the [SRC] button. Select the "AUX" display.
- 2 Enter Auxiliary input display setting mode Press the [DISP] button for at least 2 seconds. The presently selected AUX Name is blinks.

3 Select the Auxiliary input display Press the [Idd] or [DDI] button.

Each time the button is pressed it switches through the below displays.

- "AUX"
- "TV"
- "VCP"
- "GAME"
- PORTABLE
- "DVD"

4 Exit Auxiliary input display setting mode

Press the [DISP] button.



When operation stops for 10 seconds, the name at that time is selected, and Auxiliary input display setting mode closes.

Eunction of the KDC-X659/KDC-X559

Non-fading Output

Turning the Non-fading output ON or OFF.

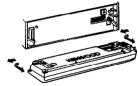
Press the INFI button for at least 1 second. Each time the button is pressed Non-fading output switches ON or OFF When it's ON, "NF ON" is displayed.

Theft Deterrent Faceplate

The faceplate of the unit can be detached and taken with you. helping to deter theft.

Removing the Faceplate

- 1 Press the Release button. Drop open the faceplate.
- 2 Drawing the faceplate to left side pull it to the front and remove it.





• The faceplate is a precision piece of equipment and can be damaged by shocks or jolts. For that reason, keep the faceplate in its special storage case while detached.

• Do not expose the faceplate or its storage case to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

Reattaching the Faceplate

1 Align the shaft on the unit with the depression on the faceplate.



2 Push the faceplate in until it clicks.

The faceplate is locked in place, allowing you to use the unit.

Function of the KDC-X659/KDC-X559

Dual Zone System

Makes the sound different for the front channel and rear channel.

1 channel is the unit's internal source, the other channel is the Auxiliary input source sound.

Press the [S.A] button for at least 1 second.

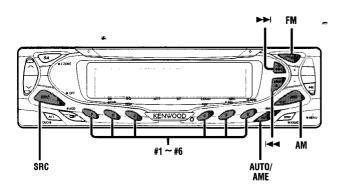
Each time the button is pressed for at least 1 second Dual Zone System switches ON or OFF.

When it's ON, "Zone 2 ON" is displayed.



- When the Dual Zone System is ON, there is no Auxiliary input source channel audio control or other effect.
- When the Dual Zone System is being used the internal source channel can't be used with an External disc source.
- When you set the Dual zone system to ON while the non-fading preout is switched ON, the sound of the non-fading preout isn't output.
- The Dual Zone System can be used with the optional Auxiliary input sources shown below.
- KCA-S210A
- CA-C1AX
- CD changer with an Auxiliary input function installed.
- This function can be used in Auxiliary input source.
- The front channel and rear channel can be set to be the internal source or the Auxiliary input source. Refer to the <Dual Zone System Setting> (page 28).

Tuner features



Tuning Mode

Choose the tuning mode.

Press the [AUTO] button.

Each time the button is pressed the Tuning mode switches as shown below.

Display	Operation
"Auto 1"	Automatic search for a station.
"Auto 2"	Search in order of the stations in the Preset memory.
"Manual"	Normal manual tuning control.
	"Auto 1" "Auto 2"

Tuning

Selecting the station.

1 Select tuner source Press the [SRC] button. Select the "TUNER" display.

2 Select the band

Press the [FM] or [AM] button.

Each time the [FM] button is pressed it switches between the FM1, FM2, and FM3 bands.

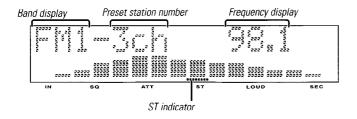
3 Tune up or down band

Press the [I◄◄] or [►►I] button.



 The sound will be temporarily muted while the faceplate is moving.

• During reception of stereo stations the "ST" indicator is ON.



Direct Access Tuning (Function of remote)

Entering the frequency and tuning.

- **1** Select the band Press the [FM] or [AM] button.
- 2 Enter Direct Access Tuning mode

Press the [DIRECT] button on the remote.

3 Enter the frequency

Press the number buttons on the remote. Example:

Desired frequency	Press button	
92.1 MHz (FM)	[#0], [#9], [#2], [#1]	
810 kHz (AM)	[#0], [#8], [#1], [#0]	

Canceling Direct Access Tuning

Press the [DIRECT] button on the remote.

Station Preset Memory

Putting the station in the memory.

- 1 Select the band Press the [FM] or [AM] button.
- 2 Select the frequency to put in the memory Press the [I◄◀] or [►►I] button.

3 Put the frequency in the memory
Press the [#1] — [#6] button for at least 2 seconds.
The preset number display blinks 1 time.
On each band, 1 station can be put in the memory on each [#1]
— [#6] button.

Auto Memory Entry

Putting stations with good reception in the memory automatically.

- **1 Select the band for Auto Memory Entry** Press the [FM] or [AM] button.
- 2 Open Auto Memory Entry

Press the [AME] button for at least 2 seconds. When 6 stations that can be received are put in the memory Auto Memory Entry closes.

Preset Tuning

Calling up the stations in the memory.

- 1 Select the band Press the [FM] or [AM] button.
- **2** Call up the station Press the [#1] --- [#6] button.

Tuner features

SNPP (Station Name Preset Play)

(Function of Remote)

Display SNPS and Select the station.

1 Enter SNPP mode

Press the [DNPP] button on the remote.

When "SNPP" is displayed, SNPS displays the FM1, FM2, FM3 and AM bands in order.

If the station has no name, the frequency is displayed instead.

Changing the display order

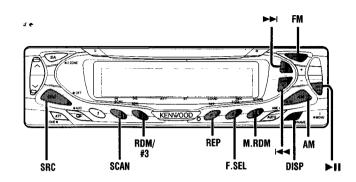
Press the [I◄◀] or [►►I] button.

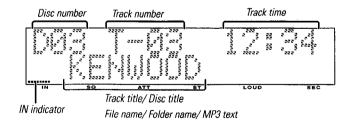
- Changing the displayed band Press the [FM] or [AM] button.
- 2 If the station you want is displayed Press the [OK] button on the remote. The displayed SNPS station is received.

Canceling the SNPP mode

Press the [DNPP] button on the remote.

CD/MP3/External disc control features





Plaving CD & MP3

When there is no disc inserted

- **1** Drop open the faceplate Press the Release button.
- 2 Insert a disc.
- 3 Press the faceplate on the right side, and return it to its former position.



- When the faceplate has been dropped open, it might interfere with the shift lever or something else. If this happens, pay attention to safety and move the shift lever or take an appropriate action, then operate the unit.
- Do not use the unit with the faceplate in the open condition. If it's used in the open position dust can enter the inside part and cause damage.
- {;;;;}
- KDC-X659 / KDC-MP819
- The models that can play MP3 are shown below. • When a disc is inserted, the "IN" indicator is ON.

When a disc is inserted

Press the [SRC] button. Select the "CD" display.

Pause and play

Press the [>II] button. Each time the button is pressed it pauses and plays.

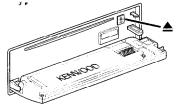
Eject the disc

1 Drop open the faceplate

Press the Release button.

2 Eject the disc

Press the [A] button.



3 Press the faceplate on the right side, and return it to its former position.



3 in. (8cm) disc can't be played. Using an adapter and inserting them into this unit can cause damage.



The MP3 media that this unit can play are CD-ROM, CD-R, and CD-RW.

The medium formats must be ISO 9660 Level 1, Level 2, Joliet, or Romeo. The methods and precautions to be followed for writing MP3 data are covered in <Notes on plaving MP3> (page 6). Check that section before creating your MP3 media.

CD/MP3/External disc control features

Playing External Disc

Playing discs set in the optional accessory disc player connected to this unit.

Press the [SRC] button.

Select the display for the disc player you want.

Display examples:

Display	Disc player
"CD 2"	CD player
"DISC"	CD changer / MD changer

Pause and play

Press the [>II] button.

Each time the button is pressed it pauses and plays.



The functions that can be used and the information that can be displayed will differ depending on the external disc players being connected.

Fast Forwarding and Reversing

Fast Forwarding

Hold down on the [►►I] button.

Release your finger to play the disc at that point.

Reversing

Hold down on the [I----] button. Release your finger to play the disc at that point.

Track Search

Searching for a song on the disc or in the MP3 folder. Press the [i◄◄] or [▶►i] button.

Album Search

Selecting the disc set in the Disc changer or the folder recorded on the MP3 media.

Press the [FM] or [AM] button.

Direct Track Search (Function of remote)

Doing Track Search by entering the track number.

- 1 Enter the track number Press the number buttons on the remote.
- 2 Do Track Search Press the [I◄◄] or [►►I] button.
- Canceling Direct Track Search Press the [►II] button.

Direct Album Search (Function of disc changers with remote)

Doing Disc Search by entering the disc number.

1 Enter the disc number

Press the number buttons on the remote.

2 Do Album Search Press the [DISC+] or [DISC-] button.

Canceling Direct Album Search

Press the [>II] button.

Track Sean

Playing the first part of each song on the disc or MP3 folder you are listening to and searching for the song you want to listen to.

- 1 Start Track Scan Press the [SCAN] button. "Scan ON" is displayed.
- 2 Release it when the song you want to listen to is played Press the [SCAN] button.

Track/Album Repeat

Replaying the song, disc in the Disc changer or MP3 folder vou're listening to.

Press the [REP] button.

Each time the button is pressed the Repeat Play switches as shown below.

Repeat play	Display
Track Repeat (In CD/MD)	"Track Repeat ON"/"Repeat ON"
(In MP3)	"File Repeat ON"
Album Repeat (In Disc Changer)	"Disc Repeat ON"
(In MP3 media)	"Folder Repeat ON"
OFF	"Repeat OFF"

Random Play

Play all the songs on the disc or MP3 folder in random order.

Press the [RDM] button.

Each time the button is pressed Random Play turns ON or OFF. When it's ON, "Random ON" is displayed.



(IIII) When the [>>] button is pressed, the next song select starts.

Magazine Random Play

(Function of disc changer)

Play the songs on all the discs in the disc changer in random order.

Press the [M.RDM] button.

Each time the button is pressed the Magazine Random Play turns ON or OFF

When it's ON, "M.Random ON" is displayed.

When the [>>] button is pressed, the next song select starts.

Function of the KDC-X659/KDC-MP819 Album Select (Function of MP3)

Quickly selecting the folder you want to listen to.

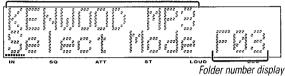
1 Enter Album Select mode

Press the [F.SEL] button.

"Select Mode" is displayed.

During Select mode the folder information is displayed as shown below.

Folder name display



2 Select the folder level

Press the [FM] or [AM] button.

With the [FM] button you move 1 level down and with the [AM] button 1 level up.

Selecting a folder in the same level

Press the [I

With the [Idd] button you move to the previous folder, and with the [>>] button to the next folder.

Returning to the top level

Press the [#3] button.

3 Decide the folder to play Press the [>II] button.

* The Album Select mode releases, and the MP3 in the folder being displayed is played.



The methods for moving to other folders in the album select mode are different from those in the album search mode. See <Notes on playing MP3> (page 6) for details.

Canceling the Album Select mode

Press the [F.SEL] button.

Text/Title Scroll

Scrolling the displayed CD text, MP3 text, or MD title. Press the [DISP] button for at least 1 second.

DNPP (Disc Name Preset Play) (Function of disc changers with remote)

Selecting the CD displayed in the DNPS of the CDs set in the Disc changer.

1 Enter DNPP mode

Press the [DNPP] button on the remote. When "DNPP" is displayed the DNPS display in order.

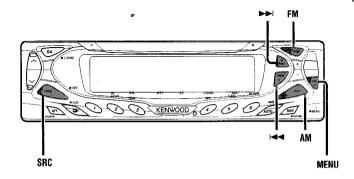
Forward / Reverse display

Press the [DISC-] or [DISC+] button.

2 When the disc you want is displayed Press the [OK] button on the remote. The disc being displayed is played.

Canceling the DNPP mode

Press the [DNPP] button on the remote.





Menu System

Setting during operation beep sound etc. functions. The Menu system basic operation method is explained here. The reference for the Menu items and their setting content is after this operation explanation.

1 Enter Menu mode

Press the [MENU] button for at least 1 second. "MENU" is displayed.

2 Select the menu item

Press the [FM] or [AM] button.

Example: When you want to set the beep sound select the "Beep" display.

3 Set the menu item

Press the [I

Example: When "Beep" is selected, each time the button is pressed it switches "Beep ON" or "Beep OFF". Select 1 of them as the setting.

You can continue by returning to step 2 and setting other items.

4 Exit Menu mode

Press the [MENU] button.



When other items that are applicable to the basic operation method above are displayed afterwards their setting content chart is entered. (Normally the uppermost setting in the chart is the original

setting.) Also, the explanation for items that aren't applicable (<Manual Clock Adjustment>etc.) are entered step by step.

<u>Menu system</u>

Security Code

Because authorization by the Security Code is required when it's removed from the vehicle, personalizing this unit is by using the Security Code is a help in preventing theft.



When the Security Code function is activated, the code can't be changed and the function can't be released.

Note, the Security Code can be set as the 4 digit number of your choice.

1 Enter Standby

Press the [SRC] button. Select the "ALL OFF" display.

2 Enter Menu mode

Press the [MENU] button for at least 1 second. When "MENU" is displayed, "Security" is displayed.

3 Enter Security Code mode

Press the [I◄◀] or [▶►Ⅰ] button for at least 1 second. When "ENTER" is displayed, "CODE" is displayed.

- 4 Select the digits to enter Press the [i◄◄] or [►►I] button.
- 5 Select the Security Code numbers Press the [FM] or [AM] button.
- 6 Repeat steps 4 and 5, and complete the Security Code.

7 Confirm the Security Code

Press the [►►] button for at least 3 seconds. When "RE-ENTER" is displayed, "CODE" is displayed.

8 Do the step 4 through 7 operation, and reenter the Security Code.

"APPROVED" is displayed.

The Security Code function activates.

When the wrong Code is entered in steps 4 through 6, repeat from step 4.

Press the Reset button and when it's removed from the battery power so irce

1^{*} Turn the power ON.

2 Do the step 4 through 7 operation, and enter the Security Code.

"APPROVED" is displayed.

The unit can be used.

Touch Sensor Tone

Setting the operation check sound (beep sound) ON/OFF.

Display	Setting	
"Beep ON"	Beep is heard.	
"Beep OFF"	Beep canceled.	

Manual Clock Adjustment

- 1 Select Clock Adjustment mode Press the [FM] or [AM] button. Select the "Clock Adjust" display.
- 2 Enter Clock Adjust mode Press the [I◄◀] or [►►I] button for at least 1 second. The clock display blinks.
- 3 Adjust the hours Press the [FM] or [AM] button.

Adjust the minutes Press the [I◄◄] or [►►I] button.

4 Exit Clock adjustment mode Press the [MENU] button.

- 26 -

Date Adjustment

1 Select Date Adjust mode Press the [FM] or [AM] button. Select the "Date Adjust" display.

2 Enter Date Adjust mode

Press the [I◄◀] or [▶►I] button for at least 1 second. The date display blinks.

- 3 Selecting the item (day, month, or year) to adjust Press the [I◄◀] or [►►I] button. The items that are blinking are items that can be adjusted.
- 4 Adjust each item

Press the [FM] or [AM] button.

5 Repeat step 3 and 4 operation and adjust the date.

6 Exit Date adjustment mode

Press the [MENU] button.

Date Mode

Setting the date format.

1 Select Date Mode

Press the [FM] or [AM] button. Select the "Date Mode" display.

2 Select the date format

Press the [I

DSI (Disabled System Indicator)

A red indicator will blink on the unit after the faceplate is removed, warning potential thieves.

Display	Setting
"DSI ON"	LED flashes.
"DSI OFF"	LED OFF.

Font Color Select

Selecting the display font color.

- 1 Select Font Color Select Mode Press the [FM] or [AM] button. Select the "Font Col Setting" display.
- 2 Select the color Press the [i◄◄] or [►►i] button.

<u>Menu system</u>

English

Dimmer

Dimming this unit's display automatically when the vehicle light * switch is turned ON.

Display	Setting	
"Dimmer ON"	The display dims.	
"Dimmer OFF"	The display doesn't dim.	

Function of the KDC-X659/KDC-X559

System Q

Setting display/don't display for the System Q factors (Bass center frequency, Bass Q factor, Bass extend, Middle center frequency, Middle Q factor, and Treble center frequency) in Audio control.

Display	Setting
"System Q ON"	The System Q factors are displayed.
"System Q OFF"	The System Q factors aren't displayed.

Built-in Amp Mute Setting <In Standby mode>

Toggles ON or OFF the mute control on the built-in amplifier. Turning ON this control enhances the preout quality.

Display	Setting
"AMP Mute OFF"	The built-in amplifier activates.
"AMP Mute ON"	The built-in amplifier deactivates.

Function of the KDC-X659/KDC-X559

Dual Zone System Setting <In Standby mode> <When the Dual Zone System is ON >

Setting the Front channel and Rear channel sound when the Dual Zone System is ON.

Display	Setting
"Zone 2 Rear"	The front is this unit's internal source, and the rear is Auxiliary input sound.
"Zone 2 Front"	The rear is this unit's internal source, and the front is Auxiliary input sound.

Function of the KDC-X659/KDC-X559

B.M.S. (Bass Management System)

Adjust the bass boost level of the external amplifier using the main unit.

Display	Setting
"AMP Bass Flat"	Bass boost level is flat.
"AMP Bass +6"	Bass boost level is low (+6dB).
"AMP Bass +12"	Bass boost level is mid (+12dB).
"AMP Bass +18"	Bass boost level is high (+18dB).



• Refer to the catalog or instruction manual for power amplifiers that can be controlled from this unit.

• For amplifiers there are the model that can be set from Flat to +18 dB, and the model that can be set from Flat to +12 dB. When an amplifier is attached that can only be set to +12, even if "AMP Bass +18" is selected it won't operate correctly.

Function of the KDC-X659/KDC-X559

B.M.S. Frequency Offset

Setting the central frequency boosted by B.M.S.

Display	Setting
"AMP Freq Normal"	Boost with the normal central frequency
"AMP Freq Low"	Drop the normal central frequency 20%

Function of the KDC-X659/KDC-MP819/KDC-X559

Built-in Auxiliary input Setting

Set the Built-in Auxiliary Input function.

Display Setting	g
-----------------	---

"AUX OFF"	When selecting the source there's no Auxiliary Input.
"AUX ON"	When selecting the source there's Auxiliary Input.

CRSC (Clean Reception System Circuit) CIN FM reception>

Temporarily have reception switched from stereo to mono to reduce multi-path noise when listening to the FM station.

Display	Setting	
"CRSC ON"	The CRSC is ON.	
"CRSC OFF"	The CRSC is OFF.	

Strong electrical fields (such as from power lines) may cause unstable sound quality when CRSC is turned ON. In such a situation,

Text Scroll

Setting the displayed text scroll.

turn it OFF.

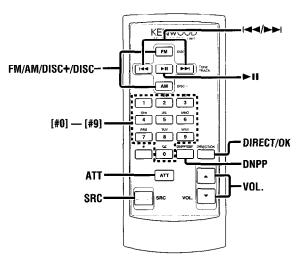
Display	Setting
"Scroll Auto"	Repeats scroll.
"Scroll Manual"	Scrolls when the display changes.

The text scrolled is shown below.

CD text

- Folder name/ File name/ Song title/ Artist name/ Album name
- MD title

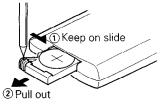
Basic Operations of remote



Loading and Replacing the battery

* Use one lithium battery (CR2025).

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



AWARNING

Store unused batteries out of the reach of children. Contact a doctor immediately if the battery is accidentally swallowed.



Do not set the remote on hot places such as above the dashboard.

Basic operations

[VOL.] buttons

Adjusting the volume.

[SRC] button

Each time the button is pressed the source switches. For the source switching order refer to <Selecting the Source> (page 9).

[ATT] button

Turning the volume down quickly.

When it is pressed again it returns to the previous level.

In Tuner source

[FM]/ [AM] buttons

Select the band.

Each time the [FM] button is pressed it switches between the FM1, FM2, and FM3 bands.

[I⊲⊲]/ [►►I] buttons

Tune up or down band.

[#0] — [#9] buttons

Press buttons [#1] - [#6] to recall preset stations.

[DIRECT] button

Enters and cancels the <Direct Access Tuning> (page 19) mode.

[DNPP]/ [OK] button

Enters and cancels the <SNPP (Station Name Preset Play)> (page 20) mode.

In Disc source

[I⊲⊲]/ [►►I] buttons

Doing track forward and backward.

[DISC+]/ [DISC-] buttons

Doing album forward and backward.

[►II] button

Each time the button is pressed the song pauses and plays.

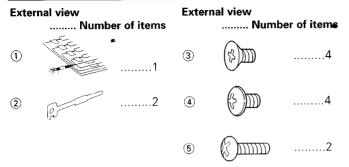
[DNPP]/ [OK] button

Enters and cancels the <DNPP (Disc Name Preset Play)> (page 24) mode.

[#0] — [#9] buttons

When in <Direct Track Search> (page 22) and <Direct Album Search> (page 23), enter the track/disc number.

Accessories



The use of any accessories except for those provided might result in damage to the unit. Make sure only to use the accessories shipped with the unit, as shown above.

Installation Procedure

- 1. To prevent a short circuit, remove the key from the ignition and disconnect the \bigcirc battery.
- 2. Make the proper input and output wire connections for each unit.
- 3. Connect the speaker wires of the wiring harness.
- 4. Connect the wiring harness wires in the following order: ground, battery, ignition.
- 5. Connect the wiring harness connector to the unit.
- 6. Install the unit in your car.
- 7. Reconnect the \bigcirc battery.
- 8. Press the reset button.

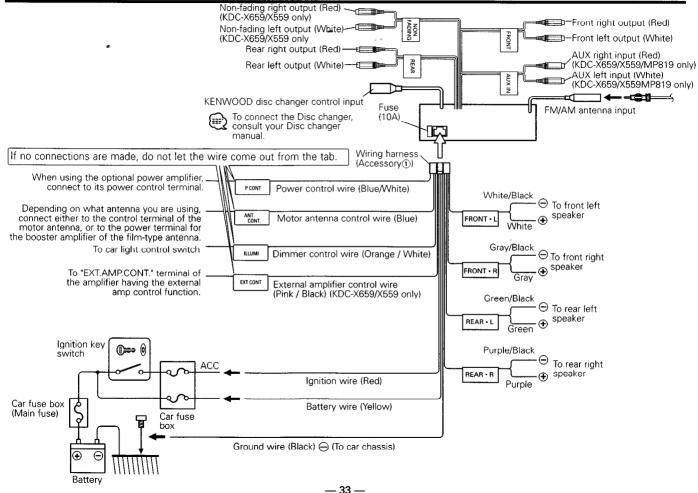
AWARNING

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

ACAUTION

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

Connecting Wires to Terminals



Installation

English

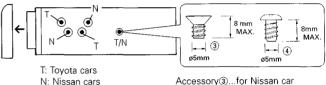
Firewell or metal support Screw (M4X8) (commercially available) Self-tapping screw (commercially available) Metal mounting strap (commercially available)

Ð

Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (for example, the sound may skip).

Installing in Japanese-Made Cars

- **1** Refer to the section "Removing the hard rubber frame" (page 35) and then remove the hard rubber frame.
- **2** Align the holes in the unit (two locations on each side) with the vehicle mounting bracket and secure the unit with the accessory screws.



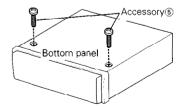
Accessory(3)...for Nissan car Accessory(4) ...for Toyota car

- During installation, do not use any screws except for those provided. The use of different screws might result in damage to the main unit.
 - Damage may occur if a screwdriver or similar tool is used with excessive force during the installations.

Screwing the Faceplate on the Unit

If you want to fasten the faceplate to the main unit so that it does not fall off, screw in the provided screws (ø4 X 16 mm) in the holes shown below.

— 34 —



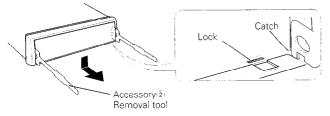
Never insert the taptite screw (ø4 × 16 mm) in any other screw hole than the one specified. If you screw it in another hole, it will contact and may cause damage to the mechanical parts inside the unit.

Installation

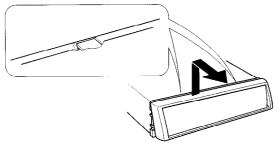
Removing the hard rubber frame

1 Engage the catch pins on the removal tool and remove the two locks on the lower level.

Lower the frame and pull it forward as shown in the figure.



2 When the lower level is removed, remove the upper two locations.

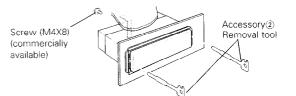




The frame can be removed from the top side in the same manner.

Removing the Unit

- 1 Refer to the section "Removing the hard rubber frame" and then remove the hard rubber frame.
- **2** Remove the screw (M4 \times 8) on the back panel.
- 3 Insert the two removal tools deeply into the slots on each side, as shown.



4 Lower the removal tool toward the bottom, and pull out the unit halfway while pressing towards the inside.



Be careful to avoid injury from the catch pins on the removal tool



5 Pull the unit all the way out with your hands, being careful not to drop it.



Troubleshooting Guide

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

General

? The power does not turn ON.

- The fuse has blown.
- After checking for short circuits in the wires, replace the fuse with one with the same rating.
- ✓ No ACC position on vehicle ignition.
 - Connect the same wire to the ignition as the battery wire.

? Nothing happens when the buttons are pressed.

? There's a source you can't switch.

- ✔ There's no CD inserted.
 - Set the media you want to listen to. If there's no media in this unit, you can't switch to each source.

? The faceplate does not open or close.

- ✓ The faceplate is incorrectly attached.
 - Reattach the faceplate correctly, See the section on <Removing the Faceplate>(page 16).

? The memory is erased when the ignition is turned OFF.

- The battery wire has not been connected to the proper terminal.
 Connect the wire correctly, referring to the section on <Connecting Wires to Terminals>.
- ✓ The ignition and battery wire are incorrectly connected.
 - Connect the wire correctly, referring to the section on <Connecting Wires to Terminals>.

? There's no loudness effect.

- ✔ You're using Non-fading preout.
 - Loudness has no effect in Non-fading preout.

? The Bass center frequency, Bass quality factor, Bass extend, Middle center frequency, Middle quality factor, and Treble center frequency can't be adjusted.

- ✓ The <System Q> (page 28) is set OFF.
 - 🖙 Set it ON.

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

- ✓ The fader or balance settings are set all the way to one side.
 - * Center the fader and balance settings.
- The input/output wires or wiring harness are connected incorrectly.
 Reconnect the input/output wires or the wiring harness correctly.
 See the section on <Connecting Wires to Terminals>.
- The values of Volume offset are low.
 Increase the values of Volume offset. (page 10)
- ✓ The <Built-in Amp Mute Setting> (page 28) is ON. I Turn it OFF.

? The sound quality is poor or distorted.

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

? Non-fading output, Non-fading Low Pass Filter and Non-fading setting can't be done.

- ✓ The <Non-fading output> (page 16) is OFF.
 ☞ Turn it ON.
- ✓ The <Dual zone system> (page 17) is ON. [™] Turn it OFF.

? There's no Front High Pass Filter and Rear High Pass Filter effect.

The Non-fading preout is being used.
 There's no effect in Non-fading preout.

? The Security Code item isn't displayed in the Menu System.

 The Security Code function is already activated.
 When the Security Code function is activated it isn't displayed in the menu items.

? The Touch Sensor Tone doesn't sound.

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

? Even though the vehicle light switch is turned ON, the unit's display won't dim.

- ✓ The dimmer wire isn't connected.
 - Connect the dimmer wire correctly.

- ? The Dimmer function doesn't work.
 - The Dimmer wire isn't connected correctly.
 Check the Dimmer wire connection.

? AUX cannot be selected.

- ✓ <Built-in Auxiliary input Setting> is turned off.
 - Refer to the <Built-in Auxiliary input Setting> (page 29) in the menu setting and turn on the <Built-in Auxiliary input Setting>.

Tuner source

? Radio reception is poor.

- ✓ The car antenna is not extended.
 - Pull the antenna out all the way.
- ✓ The antenna control wire is not connected.
 - Connect the wire correctly, referring to the section on <Connecting Wires to Terminals>.
- ? The desired frequency can't be entered with the Direct Access Tuning.
 - ✓ A station that can't be received is being entered.
 - Enter a station that can be received.
 - ✓ You're trying to enter a frequency with a 0.01 MHz unit.
 ☞ What can be designated in the FM band is to 0.1 MHz.

Disc source

? "AUX" is displayed without achieving External disc control mode.

- ✓ O-N switch is set to "O" side.
 - Set the switch to "N" side.
- Unsupported disc changer is connected.
 - Connect the supported disc changer. (page 4)

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

- The specified CD is quite dirty.
 Clean the CD.
- ✔ The CD is upside-down.
 - Load the CD with the labeled side up.

✓ The disc is loaded in a different slot from that specified.

Eject the disc magazine and check the number for the specified disc.

✓ The disc is severely scratched.

Try another disc instead.

? The specified track will not play.

- Random play or magazine random play has been selected.
 Turn off random play or magazine random play.
- Turn off random play or magazine random play.

? Cannot play CD-R or CD-RW.

- ✓ Finalization processing is not being conducted for CD-R/CD-RW. ☞ Conduct finalization processing with CD recorder.
- ✔ A non-compatible CD changer is being used to play the CD-R/CD-RW.
 - Ise a CD changer compatible with CD-R/CD-RW to play.

? Track repeat, disc repeat, track scan, random play, and magazine random play start by themselves.

- ✓ The setting is not canceled.
 - The settings for these functions remain on until the setting to off or the disc ejected, even if the power is turned off or the source changed.

? A CD ejects as soon as it is loaded.

- ✔ The CD is upside-down.
 - Load the CD with the labeled side up.
- ✓ The CD is quite dirty.
 Image: A constraint of the section on <CD cleaning> (page 8).

? Can't remove disc.

- ✓ The cause is that more than 10 minutes has elapsed since the vehicle ACC switch was turned OFF.
 - The disc can only be removed within 10 minutes of the ACC switch being turned OFF. If more than 10 minutes has elapsed, turn the ACC switch ON again and press the Eject button.

? The disc won't insert.

- There's already another disc inserted.
 - Press the [A] button and remove the disc.

? Direct Track Search and Direct Album Search can't be done.

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

? Track Search can't be done.

- ✓ For the albums first or last song.
 - For each album, Track Search can't be done in the backward direction for the first song or in the forward direction for the last song.

Troubleshooting Guide

MP3 source

? Cannot play an MP3.

- ✓ Not conforming to ISO 9660 Level 1/2, Joliet, and Romeo.
 - Use a medium conforming to ISO 9660 Level 1/2, Joliet, and Romeo.
- ✓ The MP3 has no or invalid track name extension.
 ☞ Add the ".MP3" extension to the MP3 track name.
- ✓ The media is scratched or dirty.
 ☞ Clean the media, referring to the section on <CD cleaning> (page 8).

? Noise or no sound generated when an MP3 is played.

The track has the MP3 track name extension while it is not an MP3.
To not use the ".MP3" extension in non-MP3.

? Takes time before the unit starts playing MP3.

- ✓ The medium contains many albums, tracks, and hierarchical levels.
 - The unit checks all tracks on the loaded medium first. If the medium has many tracks recorded, it may take a long time for the unit before it starts playing MP3.

? Fails to play MP3 in the intended order.

- The MP3 tracks were not written by the CD writer in the order in which you wanted them to be played.
 - Depending on the CD writer, you may be able to set the order in which MP3 tracks are to be played by writing them onto a medium with their track names beginning with play sequence numbers such as "01" to "99".

? The sound skips when an MP3 is being played.

- ✓ The media is scratched or dirty.
 - Clean the media, referring to the section on <CD cleaning> (page 8).
- The recording condition is bad.
 Record the media again or use another media.

? Can't display the ID3 tag information correctly.

- ✓ Record is not made in conformity with the ID 3 tag version1.x.
 - Record in conformity with the ID 3 tag version1.x.

? The songs in the selected folder aren't played in Album Select mode.

✓ There are no MP3 in the selected folder.

IN Make sure there's recorded content in the MP3 media.

? The MP3 track/album search takes time.

- ✓ Many tracks are recorded on the media.
 - When the media directory is complex, the track/album search can take time.

? The MP3 related text isn't displayed correctly.

- ✓ A character is entered that this unit can't display.
 - For the characters that can be used for MP3 text entry, refer to <Notes on playing MP3> (page 6).

? The MP3 track time isn't displayed correctly.

v ---

There are times when it isn't displayed correctly according to the MP3 recording conditions.

If the following situations, consult your nearest service center:

- Even though the disc changer is connected, the Disc Changer source is not ON, with "AUX" showing in the display during the Changer Mode.
- Even though no device (KCA-S210A, CA-C1AX, KDC-CPS87, KDC-CX87, KDC-CPS85, KDC-CX85, KDC-CPS82 or KDC-CX82) is connected, the Auxiliary input is entered when switching modes.

Troubleshooting Guide

The messages shown below display your systems condition.

- Eject: No discanagazine has been loaded in the changer. The disc magazine is not completely loaded. ⇔ Load the disc magazine properly. No CD in the unit. ⇔ Insert the CD.
- No Disc: No disc has been loaded in the disc magazine. ⇔ Load a disc into the disc magazine.
- TOC Error: No disc has been loaded in the disc magazine.
 ⇔ Load a disc into the disc magazine.
 The CD is quite dirty. The CD is upside-down. The CD is scratched a lot.
 ⇔ Clean the CD and load it correctly.
- E-05: The CD is upside-down. ⇔ Load the CD correctly.
- Blank Disc: Nothing has been recorded on the MD.
- No Track Disc: No tracks are recorded on the MD, although it has a title.
- E-15: Media was played that doesn't have data recorded that the unit can play.
 - Use media that has data recorded that the unit can play.
- NO Panel: The faceplate of the slave unit being connected to this unit has been removed. ⇔ Replace it.
- E-77: The unit is malfunctioning for some reason. ⇔ Press the reset button on the unit. If the "E-77" code does not disappear, consult your nearest service center.
- Mecha Error: Something is wrong with the disc magazine. Or the unit is malfunctioning for some reason.

- Check the disc magazine. And then press the reset button on the unit. If the "Mecha Error" code does not disappear, consult your nearest service center.
- Hold Error: The protective circuit in the unit activates when the temperature inside the automatic disc changer exceeds 60°C (140°F), stopping all operation.
 - ✤ Cool down the unit by opening the windows or turning on the air conditioner. As the temperature falls below 60°C (140°F), the disc will start playing again.
- NO NAME: Attempted to display DNPS during the CD play having no disc names preset.
- NO TITLE: Attempted to display the disc title or track title while the MD having no MD title is being played.
- NO TEXT: Attempted to display the disc text or track text while the CD having no CD text is being played.
 - Attempted to display text during reception of the station that isn't sending text data.
 - Attempted to display the ID3 tag while the MP3 having no ID3 tag is being replayed.
- Load: Discs are being exchanged in the Disc changer.
- READING: The unit is reading the data on the disc.
- NO ACCESS: After setting it in the Disc Changer, DNPP was done without having it been played at least 1 time.
- IN (Blink): The CD player section is not operating properly.
 ⇒ Reinsert the CD. If the CD cannot be ejected or the display continues to flash even when the CD has been properly reinserted, please switch off the power and consult your nearest service center.
- Unsupported File: A MP3 is played with a format that this unit can't support.

Specifications

Specifications subject to change without notice.

FM tuner section

Frequency range (200 kHz space)	
Usable sensitivity (S/N = 30dB)	9.3dBf (0.8 μV /75 Ω)
Quieting Sensitivity (S/N = 50dB)	15.2dBf (1.6 μV /75 Ω)
Frequency response (±3 dB)	30 Hz – 15 kHz
Signal to Noise ratio (MONO)	
Selectivity (±400 kHz)	≥ 80 dB
Stereo separation (1 kHz)	40 dB

AM tuner section

Frequency range (10 kHz space)	530 kHz – 1700 kHz
Usable sensitivity (S/N = 20dB)	

CD player section

aser diodeGaAlAs (λ=780 nm)
Digital filter (D/A)8 Times Over Sampling
0/A Converter1 Bit
pindle speed
(KDC-X659/KDC-MP819)1000 – 400 rpm (CLV 2times)
(KDC-719/KDC-X559)500 – 200 rpm (CLV)
Vow & FlutterBelow Measurable Limit
requency response (±1 dB)10 Hz - 20 kHz
otal harmonic distortion (1 kHz)0.01 %
ignal to Noise ratio (1 kHz)
(KDC-X659/KDC-MP819)96 dB
(KDC-719/KDC-X559)93 dB
Dynamic range
(KDC-X659/KDC-MP819)95 dB
(KDC-719/KDC-X559)
Channel separation
(KDC-X659/KDC-MP819)90 dB
(KDC-719/KDC-X559)85 dB
/IP3 decode (KDC-X659/KDC-MP819)
Compliant with MPEG-1.0/2.0/2.5 Audio Layer-3

Audig section

~

Augy scotion	
Maximum output power	
Full Bandwidth Power (at less than 1% THD)	22 W x 4
Tone action	
Bass :	100 Hz ±10 dB
Middle :	
Treble :	
Preout level / Load (during disc play)	
(KDC-X659/KDC-X559)	4500 mV/10 kΩ
(KDC-MP819/KDC-719)	
Preout impedance	
(KDC-X659/KDC-X559)	80 Ω
(KDC-MP819/KDC-719)	
Frequency response (±1 dB)	
(KDC-X659/KDC-MP819/KDC-X559)	20 Hz – 20 kHz
Input Maximum Voltage	
(KDC-X659/KDC-MP819/KDC-X559)	1.2 V
Input Impedance	
(KDC-X659/KDC-MP819/KDC-X559)	≥ 44 kΩ

General

Operating voltage (11 - 16V allowable)	14.4 V
Current consumption	
Installation Size (W x H x D)	
7-	1/16 x 1-15/16 x 6-1/4 inch
Weight	

ACAUTION

Be sure to connect the product wiring as written in the instruction manual. If the wiring is mistaken it can cause fire or other accidents.

AATTENTION

Prendre soin de raccorder cet appareil comme indiqué dans le manuel d'utilisation. Toute erreur de raccordement risque de provoquer un incendie ou un accident.

AACHTUNG

Schließen Sie die Drähte des Gerätes unbedingt wie in der Bedienungsanleitung beschrieben an.

Eine falsche Verdrahtung kann sowohl einen Brand als auch sonstige Unfälle verursachen.

ALET OP

Voer de bedrading van het product alleen uit zoals beschreven in de handleiding. Als de bedrading verkeerd wordt uitgevoerd kant dit brand of andere problemen veroorzaken.

AATTENZIONE

Assicuratevi di collegare il sistema di conduttori del prodotto come descritto nel manuale di istruzioni.

Se la posa dei conduttori è posizionata malamente, si possono verificare incendi o incidenti.

APRECAUCIÓN

Asegúrese de conectar el cableado del producto de acuerdo a lo escrito en el manual de instrucciones.

Si el cableado esta conectado erróneamente, esto puede causar incendios u otros accidentes.

ACUIDADO

Certifique-se que efectua as ligações da cablagem do produto conforme descrito no manual de instruções.

Se as ligações forem mal feitas, poderá resultar fogo ou outros acidentes.

AFÖRSIKTIGT

Var säker på att ansluta kablarna som det står i bruksanvisningen. Om kablarna kopplas fel kan det orsaka brand och andra olyckor.

AVAROITUS

Muistathan yhdistää laitteen johdot ohjekirjan ohjeiden mukaisesti. Johtojen virheellinen yhdistäminen saattaa aiheuttaa tulipalon tai jonkin muun onnettomuuden. 3

Attention:

This card is necessary to buy the panel again because of theft of damage.

Attention:

Cette carte est nécessaire pour se procurer un nouveau panneau dans le cas de perte ou d'endommagement de celui que vous possédez.

Attentie:

Deze kaart is nodig als u een nieuw paneel wilt aanschaffen in geval van diefstal of beschadiging.

Attenzione:

Questa scheda è necessaria per acquistare un nuovo pannello frontale dopo un furto o danni.

Atención:

Esta tarjeta es necesaria para comprar el panel en el caso de que le haya sido robado o se haya estropeado.

KENWOOD

Car Audio Passport

KENWOOD CORPORATION



Serial No. / No. de serie / No. di serie

User name / Nom de l'utilisateur / Nome del proprietario / Usuario

User address / Adresse de l'utilisateur / Indirizzo / Dirección

Phone / Phono / Telefono / Teléfono

Sales dete / Date d'achat / Data d'acquisto / Fecha de venta

Dealer stamp / Cachet du vendeur / Sello del vendedor

Signature of Dealer / Signature du vendeur / Firma del vendedor

Dieses equipment pass is an important document. Please fill it out completely and keep it in a safe place.

Cette carte est un document important. La remplir complètement et la garder dans un endroit sûr.

Esta tarjeta es importante. Rellénela por favor y guárdela para futura referéncia.

846-0606-04

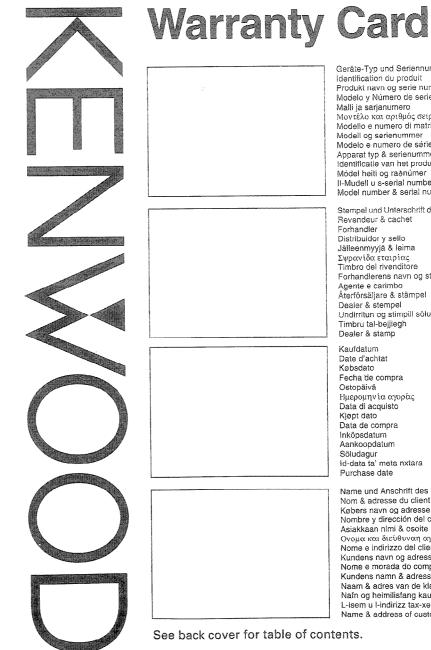
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Dear Customer,

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:

KENWOOD Corporation Customer Information Center 3-17-9 Aobadai Meguro-ku Tokyo 153-0042 JAPAN



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Geräte-Typ und Seriennummer Identification du produit Produkt navn og serie nummer Modelo y Número de serie Malli ia sarianumero Μοντέλο και αριθμός σειράς Modello e numero di matricola Modell og serienummer Modelo e numero de série Apparat typ & serienummer Identificatie van het produkt Módel heiti og raðnúmer Il-Mudell u s-serial number Model number & serial number

Stempel und Unterschrift des Händlers Revendeur & cachet Forhandler Distribuidor y sello Jälleenmvviä & leima Σψρανίδα εταιρίας Timbro del rivenditore Forhandlerens navn og stempel Agente e carimbo Âterförsäljare & stämpel Dealer & stempel Undirritun og stimpill söluaðila Timbru tal-beijiegh Dealer & stamp

Kaufdatum Date d'achtat Købsdato Fecha de compra Ostopäivä Ημερομηνία αγοράς Data di acquisto Kjøpt dato Data de compra Inköpsdatum Aankoopdatum Söludagur Id-data ta' meta nxtara Purchase date

Name und Anschrift des Käufers Nom & adresse du client Købers navn og adresse Nombre y dirección del cliente Asiakkaan nimi & osoite Ονομα και διεύθυναη αγοραστή Nome e indirizzo del cliente Kundens navn og adresse Nome e morada do comprador Kundens namn & adress Naam & adres van de klant Nafn og heimilisfang kaupanda L-isem u l-indirizz tax-xerrei Name & address of customer

See back cover for table of contents.

© B46-0100-50 (010)

This warranty will be honored only in the U.S.A.

KENWOOD LIMITED WARRANTY FOR CAR STEREO COMPONENTS

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.

U.S.A

WHAT IS COVERED AND WHAT IS NOT COVERED

Except as specified below, this warranty covers all defects in material and workmanship in Kenwood cer stereo components. The following are not covered by the warranty:

- 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.

WHO IS PROTECTED

This warranty is enforceable only by the original purchaser.

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 warrenty.

HOW TO OBTAIN WARRANTY SERVICE

If your KENWOOD product ever needs service:

- 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).
- 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.
- 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.

EXCLUSION OF DAMAGES

KENWOOD'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT AT OUR OPTION. KENWOOD SHALL NOT BE LIABLE FOR:

 INSTALLATION OR REMOVAL CHARGES, DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN KENWOOD CAR STEREO COMPONENTS, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT; OR
 ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE

2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSECONTAL OR OTHERWISE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If a problem develops during or after the Limited Warranty Period, or if you have any questions regarding the operation of the product, you should contact your KENWOOD Authorized Dealer or Authorized Service Center. If the problem or your question is not handled to your satisfaction, please contact our Customer Relations Department at the address listed below:

> KENWOOD SERVICE CORPORATION P.O Box 22745, 2201 East Dominguez Street, Long Beach CA 90801-5745 Tel: (310) 639-5300



YOU'RE ABOUT TO FIND DRIVING JUSTA TAD MORE ENTERTAINING.

Way to go, for getting a Sirius-ready Kenwood radio. Don't listen to bogus old radio. Morph yours to Sirius.





ROLL DOWN THE WINDOWS AND CRANK IT UP!

KISS COMMERCIALS GOOD-BYE. Soon, with your new Sirius-ready Kenwood radio, you can forget the static. Forget commercials with your music. Forget radio that belongs in your grandmother's car. Get up to 100 new channels – including 50 crystal-clear, commercial-free music channels, plus up to 50 more channels of news, sports, and entertainment–all for just \$12.95 per month.*

> TIRED OF THE SAME OLD RADIO? Sirius plays music you can't get on regular radio. It's fresh 24 hours a day. So, whatever channels you want to hear, from dance to reggae, rap to alternative, you've got it. Period.

> > SOUND SO CLEAR YOU CAN HEAR A GUITAR PICK DROP. We're talking digital-quality sound here, broadcast by satellite, coast to coast. Enough to slam your woofers and tingle your tweeters.

DON'T MISS OUT. For your radio to receive Sirius satellite signals, you'll need to purchase a Sirius tuner module. It activates your stereo for satellite signals and can be tucked away in the trunk. Sign up now at siriusinsider.com and get on our Sirius Insider list for early notification of Sirius module availability. Hey, you'll even get some special Sirius Insider perks, like access to live simulcasts of Sirius channels available soon at siriusradio.com. So, don't just sit there, hop on the Web and sign up now.

*Based on annual subscription contract.

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GET UP TO 100 NEW CHANNELS, ANYWHERE, ANYTIME.

50 CHANNELS OF COMMERCIAL-FREE MUSIC.

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RADIO THE WAYYOU'VE ALWAYS WANTED IT.

50 completely commercial-free music channels.

Up to 50 more channels of news, sports, and entertainment.

Crystal-clear signal, broadcast by three satellites, coast to coast.

Digital-quality sound.

Every imaginable kind of music, from rock to rap to reggae.

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