

# KENWOOD

**KDC-M7024**

**KDC-7024**

CD-RECEIVER

## **INSTRUCTION MANUAL**

KENWOOD CORPORATION



© B64-2468-00/01 (EV/E2V)

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## Safety precautions

### **⚠WARNING**

**To prevent injury and/or fire, take the following precautions:**

- Insert the unit all the way until it is fully locked in place. Otherwise it may fly out of place during collisions and other jolts.
- When extending the ignition, battery, or ground wires, make sure to use automotive-grade wires or other wires with a 0.75mm<sup>2</sup> (AWG18) or more to prevent wire deterioration and damage to the wire coating.
- To prevent short circuits, never put or leave any metallic objects (e.g., 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.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken due to shock. The liquid crystal fluid may be dangerous to your health or even fatal.  
If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

### **⚠CAUTION**

**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 short circuits when replacing a fuse, first disconnect the wiring harness.
- Do not place any object between the faceplate and the unit.
- During installation, do not use any screws except for the ones provided. The use of improper screws might result in damage to the main 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 CD players/disc changers connected to this unit**

KENWOOD disc changers/ CD players released in 1998 or later can be connected to this unit.

Refer to the catalog or consult your Kenwood dealer for connectable models of disc changers/ CD players.

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

Unsupported connection may result in damage.

Setting the "O-N" Switch to the "N" position for the applicable KENWOOD disc changers/ CD players.

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



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

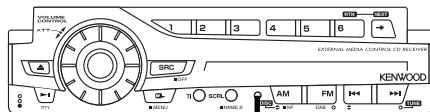
### **Do Not Load 3-in. CDs in the CD slot**

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.

## Safety precautions

### 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

- Characters in the LCD may become difficult to read in temperatures below 41 °F (5 °C).
- We strongly recommend the use of the <Security Code> (page 34) 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

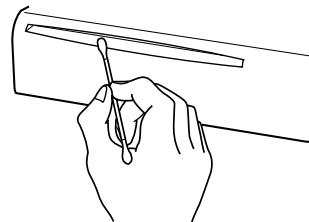
If the faceplate of this unit is stained, wipe it with a dry soft cloth such as a silicon cloth. If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe neutral detergent off.



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 erase characters.

### Cleaning the CD Slot

As dust can accumulate in the CD slot, clean it occasionally. Your CDs can get scratched if you put them in a dusty CD slot.



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

**CLASS 1  
LASER PRODUCT**

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

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***About GSM Hands Free Unit***

Refer to the GSM Hands Free Unit control features of this manual for the operation method of GSM Hands Free Unit KCA-HF521 (optional accessory) when connected.

## Notes on playing MP3 (KDC-M7024)

This unit can play MP3(MPEG1, 2, 2.5 Audio Layer 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

Do the following setting when compressing audio data in MP3 data with the MP3 encoder.

- Transfer bit rate: 8 —320 kbps
- Sampling frequency:  
8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48 kHz

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 tag

The Displayable ID3 tag is ID3 version 1.x.

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).

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0					0	@	P	.	p							
1			!	1	A	Q	a	q			i	±	A	N	ā	n
2			"	2	B	R	b	r			c	<sup>2</sup>	Ä	Ö	ä	ö
3			#	3	C	S	c	s			£	<sup>3</sup>	Å	Ö	å	ö
4			\$	4	D	T	d	t			¤		Ä	Ö	ä	ö
5			%	5	E	U	e	u			¥	µ	Ä	Ö	ä	ö
6			&	6	F	V	f	v			¦	¶	Ä	Ö	ä	ö
7			'	7	G	W	g	w			§	·	Ä	Ö	ä	ö
8			(	8	H	X	h	x			¨	¸	Ä	Ö	ä	ö
9			)	9	I	Y	i	y			©	<sup>1</sup>	Ä	Ö	ä	ö
A			*		J	Z	j	z			ª	»	Ä	Ö	ä	ö
B			+		K	[	k	{			»	»	Ä	Ö	ä	ö
C			.		<	L	l				¼		Ä	Ö	ä	ö
D			-		=	M	m	}			½		Ä	Ö	ä	ö
E			.		>	N	n	~			¾		Ä	Ö	ä	ö
F			/		?	O	o	■			¸		Ä	Ö	ä	ö



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 File Search or Folder Search may not be performed smoothly.



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

- Do not attempt to play a medium containing a non-MP3 file with the 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.

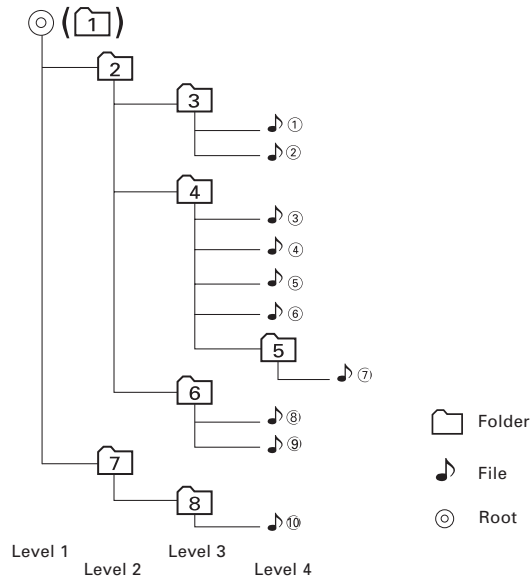
### MP3 playing order

When selected for play, Folder Search, File Search, or for Folder 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 Folder Search, File Search, or Folder Select as shown below.

Example of a medium's folder/file hierarchy



### When a File Search is executed with file 4 being played ...

Current file number	Operation of the button	
	◀◀ Button	▶▶ Button
4	Beginning of file 4   3	5   6

### When a Folder Search is executed with file 4 being played ...

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

### When Folder Select is selected with file 4 being played to move from folder to folder ...

Current folder number	Operation of the button			
	◀◀ Button	▶▶ Button	AM Button	FM Button
4	3	6	2	5

## Notes on Multi-function Key System

Multi-function Key System serves to control various functions with the [2] — [5] buttons. The basic operation of the Multi-function Key System is described below.

### What's the Multi-function Key System?

This unit is equipped with the Multi-function Key System that enables the operation of multiple functions with one button. For example, you can enter the Display Control Mode or turn ON/OFF the Random Play by pressing the [3] button during CD play.

### Setting each function

The function display will show the controllable function of the [2] — [5] button above the button. Pressing the [2] — [5] button below the desired function enables the setting of the function.

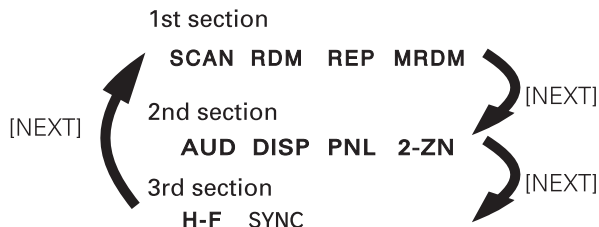
### Displaying the desired function

If five or more functions are available to be set with the [2] — [5] button, they are divided into multiple function groups (referred to as sections in this manual) for registration.

Press the [NEXT] button to switch the sections.

If the display of the desired function is not shown, press the [NEXT] button 1 to 3 times to switch the sections until the wanted function display is shown.

Example: Function display of CD & External disc source



"MRDM", "H-F" or "SYNC" are displayed when an optional accessory is connected.

### Real operational example of the Multi-function Key System

Example: Turning ON/OFF the Random Play during CD play.

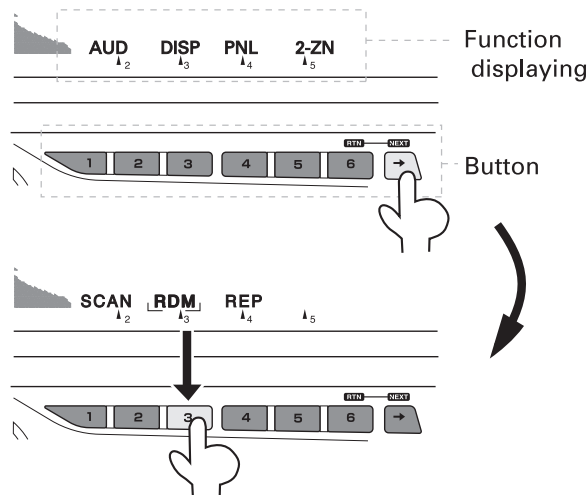
1. Show the function display of the Random Play.

If "RDM" is not shown in the display, press the [NEXT] button to switch the sections until the "RDM" function display is shown above the [3] button.

2. Turn ON/OFF the Random Play.

Press the [3] button.

Each time the [3] button under the "RDM" function display is pressed the Random Play is turned ON/OFF.

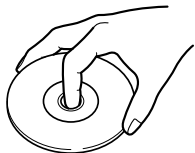




## About CDs

### Handling CDs

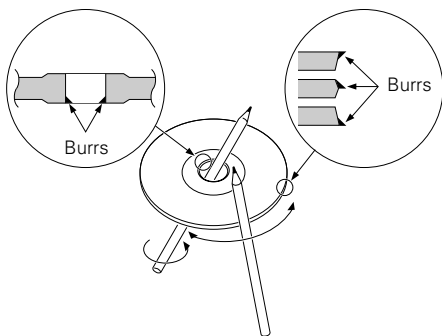
- Don't touch the recording surface of the CD.



- 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.

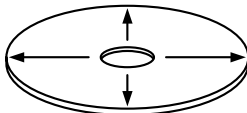


### CD accessories

Don't use disc type accessories.

### CD cleaning

Clean from the center of the disc and move outward.

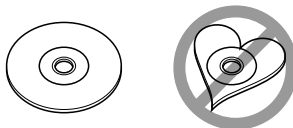


### Removing CDs

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.
- This unit can only play the CDs with



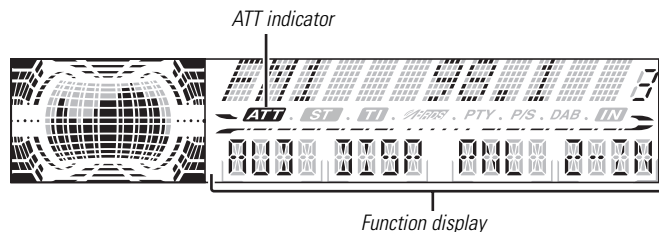
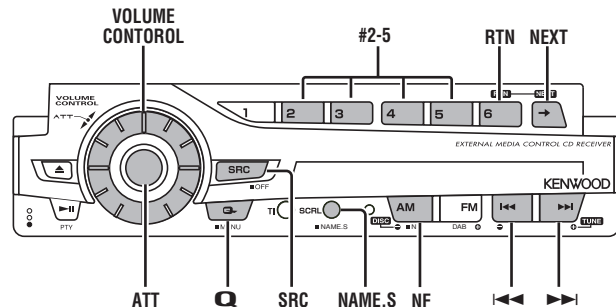
It may not correctly play disks which do not have the mark.

- 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

Turn the vehicle ignition ON.

The panel appears.

### Turning OFF the Power

Turn the vehicle ignition OFF.

The panel hides.



Do not apply force to the panel during operation. It can cause damage.



When the power is ON, the <Security Code> (page 34) is displayed as "CODE ON" or "CODE OFF".

## Selecting the Source

Press the [SRC] button.

Source required	Display
Tuner	"TUNER"
CD	"CD"
External disc (Optional accessory)	"DISC CH"/"CD2"
Auxiliary input (Optional accessory)	"AUX1"
Standby (Illumination only mode)	"ALL OFF"



This unit automatically turns full power OFF after 20 minutes lapses in Standby mode in order to save the vehicles battery.

The time until full power OFF can be set in <Power OFF Timer> (page 41).

## Volume

### **Increasing Volume**

Turn the [VOLUME CONTROL] knob clockwise.

### **Decreasing Volume**

Turn the [VOLUME CONTROL] knob counterclockwise.

## Attenuator

Turning the volume down quickly.

Press the [ATT] button.

Each time the button is pressed the Attenuator turns ON or OFF.

When it's ON, the "ATT" indicator blinks.

## System Q

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

### **1 Select the source to set**

Press the [SRC] button.

### **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"
Rock	"Rock"
Pops	"Pops"
Easy	"Easy"
Top 40	"Top40"
Jazz	"Jazz"



- User memory: The values set on the <Audio control> (page 12).
- Each setting value is changed with the <Speaker setting> (page 14).  
First, select the speaker type with the Speaker setting.

## General features

### Audio Control

#### 1 Select the source for adjustment

Press the [SRC] button.

#### 2 Select the key function section

Press the [NEXT] button.

Repeatedly press the button until "AUD" is displayed above the [2] button.

Refer to <Notes on Multi-function Key System> (page 8).

#### 3 Enter Audio Control mode

Press the [2] ("AUD") button.

#### 4 Select the Adjustment item section

Press the [NEXT] button.

Repeatedly press the button until the desired Adjustment item is displayed above the [2] — [5] button.

##### 1st section

#### Adjustment Item      Button      Display

Bass	[2]	"BASS"
Middle	[3]	"MID"
Treble	[4]	"TRE"
Balance & Fader	[5]	"BL/F"

##### 2nd section

#### Adjustment Item      Button      Display

High Pass Filter	[2]	"HPF"
Low Pass Filter*	[3]	"LPF"
Loudness	[4]	"LOUD"
Non-Fading*	[5]	"N-F"

##### 3rd section

#### Adjustment Item      Button      Display

Volume offset	[2]	"VOFF"
---------------	-----	--------

#### 5 Select the Audio Control item for adjustment

Press the [2] — [5] button.

Each time the [2] — [5] button is pressed the adjustable audio items are switched among ranges of all stage section's tables on the following pages.

#### 6 Adjust the Audio Control item

Press the [◀◀] or [▶▶] button.

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

#### 7 Exit Audio Control mode

Press the [RTN] button.



- The loudness setting can also be adjusted by pressing the [4] button.
- \*This mode is available only when <Non-fading Output> (page 16) is ON.

##### 1st section

#### [2] button

#### Adjustment Item      Display      Range

Bass Center Frequency	"Bass F"	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

**[3] button**

Adjustment Item	Display	Range
Middle Center Frequency	"MID F"	0.5/1.0/1.5/2.0 kHz
Middle level	"Middle"	-8 — +8
Middle Q Factor	"Middle Q"	1.0/2.0

**[4] button**

Adjustment Item	Display	Range
Treble Center Frequency	"TRE F"	10.0/12.5/15.0/17.5 kHz
Treble level	"Treble"	-8 — +8

**[5] button**

Adjustment Item	Display	Range
Balance	"Balance"	Left 15 — Right 15
Fader	"Fader"	Rear 15 — Front 15



- 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
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%.

**2nd section****[2] button**

Adjustment Item	Display	Range
Front/Rear High Pass Filter	"HPF"	Through/100/125/170 Hz

**[3] button**

Adjustment Item	Display	Range
Non-Fading Low Pass Filter	"LPF NF"	50/80/120/Through Hz

**[4] button**

Adjustment Item	Display	Range
Loudness	"LOUD"	ON/OFF

**[5] button**

Adjustment Item	Display	Range
Non-Fading level	"NF Level"	-15 — +15



- Loudness: Compensating for low and high tones during low volume.
- When the Dual Zone System is ON, the setting for the High Pass Filter is nullified.

**3rd section****[2] button**

Adjustment Item	Display	Range
Volume offset	"V-Offset"	-8 — ±0



- Volume offset: Each source's volume can be set as a difference from the basic volume.

## General features

### 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.

#### 3 Select the Speaker type

Press the [2] — [5] button.  
Each time the button is pressed the setting switches as shown below.

Speaker type	Button	Display
OFF	[2]	"SP OFF"
For 5 & 4 in. speaker	[3]	"SP 5/4inch"
For 6 & 6x9 in. speaker	[4]	"SP 6*9/6inch"
For the OEM speaker	[5]	"SP O.E.M."

#### 4 Exit Speaker Setting mode

Press the [Q] button.

### Display Mode Switching

Switching the display mode.

#### 1 Select the key function section

Press the [NEXT] button.  
Repeatedly press the button until "DISP" is displayed above the [3] button.

Refer to <Notes on Multi-function Key System> (page 8).

#### 2 Enter display control mode

Press the [3] ("DISP") button.

#### 3 Select the display mode

Press the [2] ("MODE") button.  
Each time the button is pressed the display mode switches as shown below.

Display	Display Mode
"Display C"	Demonstration.
"Display A"	Normal display type.
"Display B"	Silent display type.

#### 4 Exit display control mode

Press the [RTN] button.

### Text Display Switching

Switching the text display.

#### 1 Select the key function section

Press the [NEXT] button.  
Repeatedly press the button until "DISP" is displayed above the [3] button.  
Refer to <Notes on Multi-function Key System> (page 8).

#### 2 Enter display control mode

Press the [3] ("DISP") button.

#### 3 Select the text

Press the [3] ("TEXT") button.



It can also be switched by pressing either [◀◀] or [▶▶] button.

#### ***In Tuner source***

<b>Information</b>	<b>Display</b>
Program Service name or Frequency	"BAND+PS"
Radio text, Program Service name or Frequency	"R-TEXT"
Frequency	"BAND+FREQ"
Clock	"Clock"

#### ***In CD & External disc source***

<b>Information</b>	<b>Display</b>
Disc title	"D-TITLE"
Track title	"T-TITLE"
Track number & Play time	"P-Time"
Disc name	"DNPS"
Clock	"Clock"

#### ***In MP3 source***

<b>Information</b>	<b>Display</b>
Song title & Artist name	"TITLE"
Album name & Artist name	"ALBUM"
Folder name	"FOLDER NAME"
File name	"FILE NAME"
Play time & File number	"P-Time"
Disc name	"DNPS"
Clock	"Clock"

#### ***In Auxiliary input source***

<b>Information</b>	<b>Display</b>
Auxiliary input name	"AUX Name"
Clock	"Clock"

#### ***In Standby***

<b>Information</b>	<b>Display</b>
	"ALL OFF"
Clock	"Clock"

#### **4 Exit Display Control mode**

Press the [RTN] button.



If the Disc title, Track title, Song title & Artist name, or Album name & Artist name is selected when the disc which does not have Disc title, Track title, Song title, Album name, or Artist name is played, track number and play time are displayed.

## General features

### External Display Switching

Switching the display in the External Display connected.

#### 1 Select the key function section

Press the [NEXT] button.

Repeatedly press the button until "DISP" is displayed above the [3] button.

Refer to <Notes on Multi-function Key System> (page 8).

#### 2 Enter display control mode

Press the [3] ("DISP") button.

#### 3 Select the display

Press the [4] ("OUT") button.

"OEM DISP" is displayed.

Each time the button is pressed the display switches.

#### 4 Exit display control mode

Press the [RTN] button.

### 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 "AUX1" display.

#### 2 Enter Auxiliary input display setting mode

Press the [NAME.S] button for at least 2 seconds.

The presently selected AUX Name is blinks.

#### 3 Select the Auxiliary input display

Press the [◀◀] or [▶▶] button.

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

- "AUX1"
- "TV"
- "VIDEO"
- "GAME"
- "PORTABLE"
- "DVD"

#### 4 Exit Auxiliary input display setting mode

Press the [NAME.S] button.



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

### Non-fading Output

Turning the Non-fading output ON or OFF.

Press the [NF] 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.



When the <Switching preout> (page 38) is "SWPRE Rear", this function is not available.

### Panel Position Setting

Setting the angle or back-forward position of the control panel.

#### 1 Select the key function section

Press the [NEXT] button.

Repeatedly press the button until "PNL" is displayed above the [4] button.



## 2 Enter Panel Position Setting mode

Press the [4] ("PNL") button.

## 3 Select the item for adjustment

Press the desired [2] — [5] button.

Each time the button is pressed the items that can be adjusted switch as shown below.

Adjustment Item	Button	Display
The panel tilts upwards	[2]	"ANG-"
The panel tilts downwards	[3]	"ANG+"
The panel slides backward	[4]	"SLD-"
The panel slides forward	[5]	"SLD+"

## 4 Exit Panel Position Setting mode

Press the [RTN] button.



The control panel may be interfered with the shift lever or another part depending on the angles of the control panel. Set the angle to avoid any interference.



No sound is produced while the panel is operating.

## Theft Deterrent Panel

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

### Removing the Backpanel

- 1 Turn the ignition OFF or press the [SRC] button for at least 1 second.

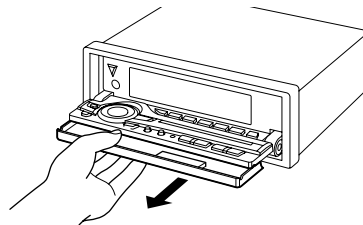
Turn OFF the power, and the control panel becomes horizontal.



After the set time passes in <OFF Wait Time Setting> (page 38), the panel is closed.

## 2 Remove the Backpanel forward.

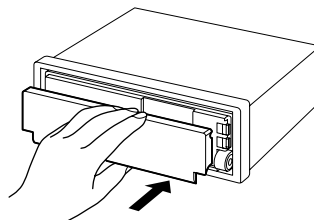
When <DSI (Disabled System Indicator)> (page 37) is set to ON, DSI blinks.



- The back panel is a precision piece of equipment and can be damaged by shocks or jolts. For that reason, keep the back panel in its special storage case while detached.
- Do not expose the Backpanel 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 Backpanel

- 1 Set the Backpanel to the panel bracket.
- 2 Hold down on the Backpanel until it is locked.



## General features

### Hiding the Control Panel

Prevents tampering with the unit while your car is being serviced etc.

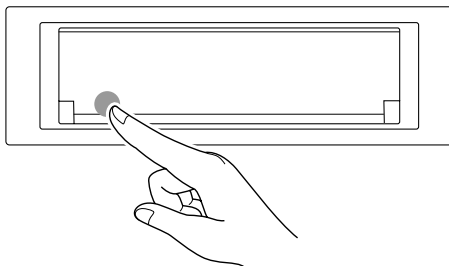
#### Hiding the control panel

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

When the time set in <OFF Wait Time Setting> (page 38) lapses, the panel is hidden and the power turns OFF.

#### Showing the control panel

Press the left part at the lower side of the panel.



The panel is opened to enable the operation.

### TEL Mute

The audio system automatically mutes when a call comes in.

#### When a call comes in

"CALL" is displayed.

The audio system pauses.

#### Listening to the audio during a call

Press the [SRC] button.

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

#### When the call ends

Hang up the phone.

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

### Dual Zone System <In External disc or Auxiliary input source>

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

#### 1 Select the source

Press the [SRC] button.

Select the source sound to be output from the Dual zone channel.

#### 2 Select the key function section

Press the [NEXT] button.

Repeatedly press the button until "2-ZN" is displayed above the [5] button.

Refer to <Notes on Multi-function Key System> (page 8).

#### 3 Enter the Dual Zone System Control mode

Press the [5] ("2-ZN") button.

#### 4 Select the item for adjustment

Press the desired [2] — [3] button.

Each time the button is pressed the items that can be adjusted switch as shown below.

Adjustment Item	Button	Display	Range
Dual Zone System	[2]	"ON"/"OFF"	ON/OFF
Dual Zone System Front & Rear	[3]	"F—R"	Front/Rear



Dual Zone System Rear: The sound of the source selected with step 1 is outputted from rear, and the sound of the source selected with step 6 is outputted from front.

Dual Zone System Front: The sound of the source selected with step 1 is outputted from front, and the sound of the source selected with step 6 is outputted from rear.

## 5 Exit the Dual Zone System Control mode

Press the [RTN] button.

## 6 Select the source

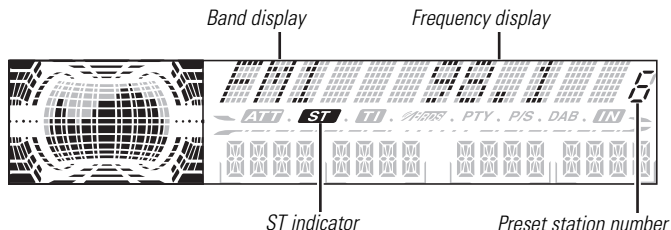
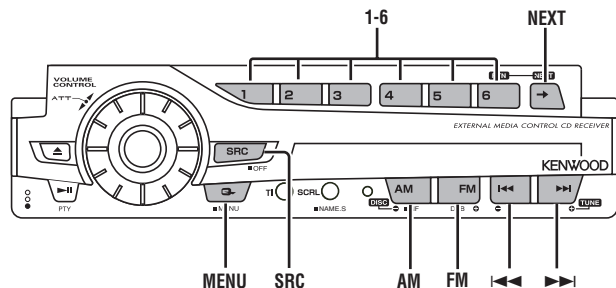
Press the [SRC] button.

Select the source sound to be output from the internal source channel.



- The Dual Zone System can be used with the sources shown below.
  - KCA-S210A
  - CA-C1AX
  - External disc changer/ player
- While Dual Zone System is ON, the setting of Dual Zone System Front or Rear is disabled.  
Set Dual Zone System Front or Rear first, and then set the Dual Zone System to ON.
- When the Dual Zone System is ON, there is no Dual zone channel audio control or other effect.
- When you use the Dual Zone System by selecting the optional accessory source for the output of the Dual zone channel, you cannot select another optional accessory source as the source for the Internal source channel.
- 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 cannot be used if a GSM hands free unit or a DAB control unit is connected.
- When the Dual Zone System is ON, the setting for the High Pass Filter is nullified.

## Tuner features



### 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 [◀◀] or [▶▶] button.



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

### 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 [◀◀] or [▶▶] button.

#### 3 Select the key function section

Press the [NEXT] button.

Repeatedly press the button until the function item is not displayed above the [2] — [5] button.

Refer to <Notes on Multi-function Key System> (page 8).

#### 4 Put the frequency in the memory

Press the desired [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 a station with good reception in the memory automatically.

### 1 Select the band for Auto Memory Entry

Press the [FM] or [AM] button.

### 2 Enter Menu mode

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

### 3 Select the Auto Memory Entry mode

Press the [FM] or [AM] button.  
Select the "Auto-Memory" display.

### 4 Open Auto Memory Entry

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



- When the <AF (Alternative Frequency)> (page 40) is ON, only RDS stations are put in the memory.
- When Auto Memory Entry is done in the FM2 band, the RDS stations preset in the FM1 band aren't put in the memory. Likewise, when it is done in the FM3 band, RDS stations preset in FM1 or FM2 aren't put in the memory.

## Preset Tuning

Calling up the stations in the memory.

### 1 Select the band

Press the [FM] or [AM] button.

### 2 Select the key function section

Press the [NEXT] button.

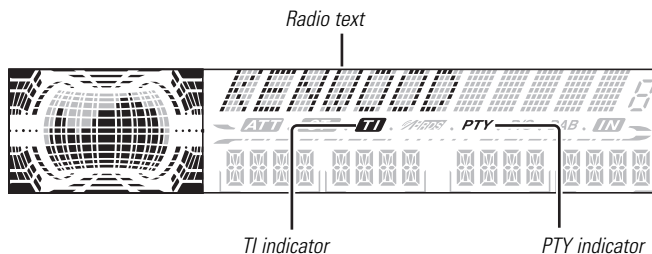
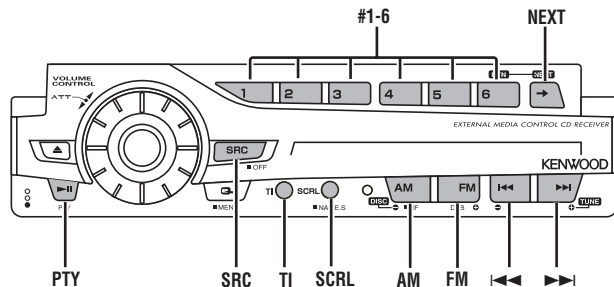
Repeatedly press the button until the function item is not displayed above the [2] — [5] button.

Refer to <Notes on Multi-function Key System> (page 8).

### 3 Call up the station

Press the desired [1] — [6] button.

## RDS features



### Traffic Information

Switching to traffic information automatically when a traffic bulletin starts even when you aren't listening to the radio.

Press the [TI] button.

Each time the button is pressed the Traffic Information turns ON or OFF.

When it's ON, "TI" indicator is ON.

When a traffic information station isn't being received the "TI" indicator blinks.

When a traffic bulletin starts, "Traffic Info" is displayed it and it switches to traffic information.

- During reception of an AM station when the Traffic Information function is turned ON, it switches to an FM station.
- During reception of traffic information the adjusted volume is automatically remembered, and the next time it switches to traffic information it's automatically the remembered volume.

### Receiving other traffic information stations

Press the [◀◀] or [▶▶] button.

- Traffic information station switching can be done when listening to the radio.

### Radio Text Scroll

Scrolling the displayed radio text.

Press the [SCRL] button.

## PTY (Program Type)

Selecting the Program Type and searching for a station.

### 1 Enter PTY mode

Press the [PTY] button.

During PTY mode the "PTY" indicator is ON.



This function can't be used during a traffic bulletin or AM reception.

### 2 Select the Program Type

Press the [FM] or [AM] button.

Each time the button is pressed the Program Type switches as shown below.

No.	Program Type	Display
1.	Speech	"Speech"
2.	Music	"Music"
3.	News	"News"
4.	Current Affairs	"Affairs"
5.	Information	"Info"
6.	Sport	"Sport"
7.	Education	"Educate"
8.	Drama	"Drama"
9.	Culture	"Culture"
10.	Science	"Science"
11.	Varied	"Varied"
12.	Pop Music	"Pop M"
13.	Rock Music	"Rock M"
14.	Easy Listening Music	"Easy M"
15.	Light Classical	"Light M"
16.	Serious Classical	"Classics"
17.	Other Music	"Other M"
18.	Weather	"Weather"
19.	Finance	"Finance"
20.	Children's programs	"Children"

21.	Social Affairs	"Social"
22.	Religion	"Religion"
23.	Phone In	"Phone In"
24.	Travel	"Travel"
25.	Leisure	"Leisure"
26.	Jazz Music	"Jazz"
27.	Country Music	"Country"
28.	National Music	"Nation M"
29.	Oldies Music	"Oldies"
30.	Folk Music	"Folk M"
31.	Documentary	"Document"



- Speech and Music include the Program type shown below.

Music: No.12 — 17, 26 — 30

Speech: No.3 — 11, 18 — 25, 31

- The Program Type can be put in the [1] — [6] button memory and called up quickly. Refer to the <Program Type preset> (page 24).
- The display language can be changed. Refer to <Changing Language for PTY Function> (page 24).

### 3 Search for the selected Program Type station

Press the [◀◀] or [▶▶] button.

When you want to search for other stations press the [◀◀] or [▶▶] button again.



- When the selected Program Type isn't found, "No PTY" is displayed. Select another Program Type.

### 4 Exit PTY mode

Press the [PTY] button.

## RDS features

### Program Type preset

Putting the Program Type in the Preset button memory and calling it up quickly.

#### **Presetting the Program Type**

##### **1 Select the Program Type to preset**

Refer to <PTY (Program Type)> (page 23).

##### **2 Preset the Program Type**

Press the desired [1] — [6] button for at least 2 seconds.

#### **Calling up the preset Program Type**

##### **1 Enter PTY mode**

Refer to <PTY (Program Type)> (page 23).

##### **2 Call up the Program Type**

Press the desired [1] — [6] button.

### Language

### Display

English

"English"

French

"French"

Swedish

"Swedish"

German

"German"

#### **4 Exit Changing Language mode**

Press the [SCRL] button.

### Changing Language for PTY Function

Selecting the Program Type display language.

##### **1 Enter PTY mode**

Refer to <PTY (Program Type)> (page 23).

##### **2 Enter Changing Language mode**

Press the [SCRL] button.

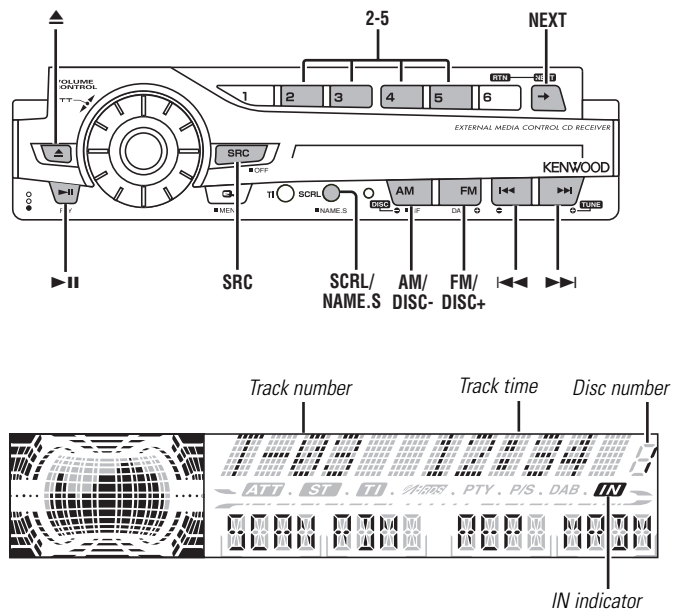
##### **3 Select the language**

Press the [FM] or [AM] button.

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



## CD/MP3/External disc control features



## CD/MP3/External disc control features

### Playing CD & MP3

#### When there is no disc inserted

##### 1 Open the panel to insert disc

Press the [▲] button.

##### 2 Insert a disc.



When the faceplate has been slid 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.



- The sound will be temporarily muted while the faceplate is moving.
- The models that can play MP3 are shown below.  
KDC-M7024
- 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 the song pauses or plays.

#### Eject the disc

##### 1 Eject the disc

Press the [▲] button.

##### 2 Return the panel to the original position

Press the [▲] button.



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 playing MP3> (page 6). Check that section before creating your MP3 media.

### 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
"CD2"	CD player
"DISC CH"	CD changer/MD changer

#### Pause and play

Press the [▶II] button.

Each time the button is pressed it pauses and plays.



- Disc 10 is displayed as "0".
- 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 [▶▶] button.

Release your finger to play the disc at that point.

#### Reversing

Hold down on the [◀◀] button.

Release your finger to play the disc at that point.

## Track/File Search

Searching for a song on the disc or in the MP3 folder.

Press the [◀◀] or [▶▶] button.



If the remote with number buttons is used as optional accessories, a song you'd like to listen to can directly be selected with the operation below.

1. Enter a track/file number.  
Press the number buttons on the remote.
2. Do the Track/File Search.  
Press the [◀◀] or [▶▶] button.

## Disc/ Folder Search

**(Disc Search : Function of disc changer)  
(Folder Search : Function of MP3)**

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

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

## Track/File/Disc/Folder Repeat

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

### 1 Select the key function section

Press the [NEXT] button.

Repeatedly press the button until "REP" is displayed above the [4] button.

Refer to <Notes on Multi-function Key System> (page 8).

### 2 Turn ON/OFF the Repeat Play

Press the [4] ("REP") button.

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

#### *In CD & External disc source*

<u>Repeat play</u>	<u>Display</u>
Track Repeat	"Repeat ON"/ "T-Repeat ON"
Disc Repeat (In Disc Changer)	"D-Repeat ON"
OFF	"Repeat OFF"

#### *In MP3 source*

<u>Repeat play</u>	<u>Display</u>
File Repeat	"File REP ON"
Folder Repeat	"FOLD REP ON"
OFF	"Repeat OFF"

## CD/MP3/External disc control features

### Scan Play

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 Select the key function section

Press the [NEXT] button.

Repeat to press the button until "SCAN" is displayed above the [2] button.

#### 2 Start Scan Play

Press the [2] ("SCAN") button.

"Scan ON" is displayed.

#### 3 Release it when the song you want to listen to is played

Press the [2] button.

### Random Play

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

#### 1 Select the key function section

Press the [NEXT] button.

Repeatedly press the button until "RDM" is displayed above the [3] button.

#### 2 Turn ON/OFF the Random Play

Press the [3] ("RDM") button.

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



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.

#### 1 Select the key function section

Press the [NEXT] button.

Repeatedly press the button until "MRDM" is displayed above the [5] button.

#### 2 Turning ON/OFF the Magazine Random Play

Press the [5] ("MRDM") 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-M7024

### Folder Select (Function of MP3)

Quickly selecting the folder you want to listen to.

#### 1 Select the key function section

Press the [NEXT] button.

Repeatedly press the button until "FSEL" is displayed above the [5] button.

Refer to <Notes on Multi-function Key System> (page 8).

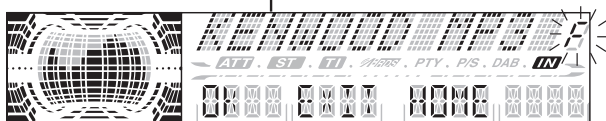
#### 2 Enter Folder Select mode

Press the [5] ("FSEL") button.

"Select Mode" is displayed.

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

<Folder name display>  
Displays the current folder name.



### 3 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 [◀◀] or [▶▶] button.

With the [◀◀] button you move to the previous folder, and with the [▶▶] button to the next folder.

#### Returning to the top level

Press the [4] ("HOME") button.

### Scrolling the folder name display

Press the [SCRL] button.

### 4 Decide the folder to play

Press the [2] ("OK") button.

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



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

### Canceling the Folder Select mode

Press the [3] ("EXIT") button.

## Disc Naming (DNPS)

Attaching a title to a CD.

### 1 Play the disc you want to attach a name to



- A title can't be attached to a MD.
- Refer to the <Text Display Switching> (page 14) and select the "DNPS" 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 [◀◀] or [▶▶] button.

### 4 Select the character type

Press the [2] — [4] button.

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

Character type	Button
Alphabet (Upper case/ Lower case)	[2] ("CAPS")
Numbers and symbols	[3] ("NUM")
Special characters (Accent characters)	[4] ("CHAR")

### 5 Select the characters

Press the [FM] or [AM] button.

### 6 Repeat steps 3 through 5 and enter the name.

### 7 Exit name set mode

Press the [NAME.S] button.



- When operation stops for 10 seconds the name at that time is registered, and Name Set mode closes.
- Media that you can attach names to
  - Internal CD player: 30 discs.
  - External CD changer/ player: Varies according to the CD changer/ player. Refer to the CD changer/ player manual.
- The name of a CD can be changed by the same operation you used to name it.

## ***CD/MP3/External disc control features***

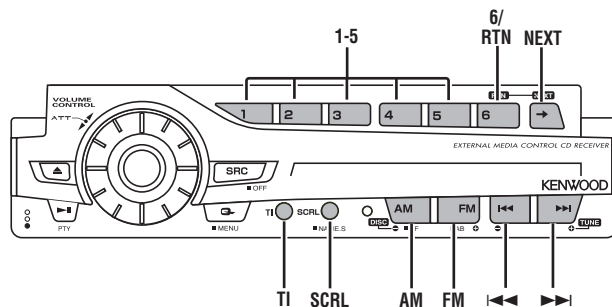
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### **Text/Title Scroll**

Scrolling the displayed CD text, MP3 text, or MD title.

Press the [SCRL] button.

## GSM Hands Free Unit control features



### Receiving a call

Received calls can be answered when a GSM Hands Free Unit (optional accessory) is connected to this unit.

#### 1 When a Call is Received

"HF CALL" will be displayed.

#### 2 Accept a call

Press the [1], [3] — [6] or [NEXT] button.

#### Switching between the Name and Telephone Number

Press the [TI] button.

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

#### Information

Name

Telephone Number

#### 3 Hang up

Press the [2] ("HANG") button.



Inserting a disc while a call is in progress will cause the telephone to be hung up.

## GSM Hands Free Unit control features

### Phone Book Search

Selecting a telephone number from the phone book.

#### 1 Select the key function section

Press the [NEXT] button.

Repeatedly press the button until "H-F" is displayed above the [2] button.

Refer to <Notes on Multi-function Key System> (page 8).

#### 2 Enter Hands Free mode

Press the [2] ("H-F") button.

#### 3 Select the Phone Book Search Mode item

Press the [2] ("SRCH") button.

Each time the button is pressed the mode switches as follows:

Phone Book Search Mode item	Display
Initial Select Mode	"Initial"
Redial Mode	"Redial"

#### 4 Select the initial of a person to dial (In Initial Select Mode)

Press the [FM] or [AM] button.



Initials including no corresponding name will not be displayed.

#### 5 Switch the Name

Press the [◀◀] or [▶▶] button.

### Switching between the Name and Telephone Number

Press the [TI] button.



- Not available if the name has not been stored.
- Not applicable if the text scroll function has been set to Auto (in menu).

### Scrolling the Name and Telephone Number

Press the [SCRL] button.

#### 6 Dial a selected number

Press the [4] ("CALL") button.

#### 7 Hang up

Press the [2] ("HANG") button.

### Canceling the Hands Free mode

Press the [RTN] button.

### Direct Dial (Function of the KCA-RC420)

Inputting the telephone number with number buttons on the optional remote, and dialing.

#### 1 Select the key function section

Press the [NEXT] button.

Repeatedly press the button until "H-F" is displayed above the [2] button.

Refer to <Notes on Multi-function Key System> (page 8).

#### 2 Enter Hands Free mode

Press the [2] ("H-F") button.

#### 3 Select the Dial Mode

Press the [3] ("DIAL") button.

#### 4 Enter the telephone number

Press the number [#], [\*] and [+](ANG) buttons on the optional remote.



- You can input max 32 digits.
- If an incorrect digit is entered, pressing the [◀◀] button will clear it.

#### 5 Dial an input number

Press the [4] ("CALL") button.

#### 6 Hang up

Press the [2] ("HANG") button.

### Canceling the Hands Free mode

Press the [RTN] button.



## SMS (Short Message Service) Mode

### 1 Select the key function section

Press the [NEXT] button.

Repeatedly press the button until "H-F" is displayed above the [2] button.

Refer to <Notes on Multi-function Key System> (page 8).

### 2 Enter Hands Free mode

Press the [2] ("H-F") button.

### 3 Select the SMS Mode

Press the [5] ("SMS") button.

"SMS Mode" is displayed.

### 4 Select the Message

Press the [FM] or [AM] button.

### 5 Switch the Display

Press the [◀▶] or [▶▶] button.

Each time the button is pressed the mode switches as follows:

#### **SMS Mode item**

Name/ Phone Number

Date

Message

When the display line of a message is <Text Scroll> (page 41) set to "Scroll MANU", scrolling is possible with [◀▶]/[▶▶], and when the setting is set to "Scroll Auto", scrolling is automatic.

### **Switching between the Name and Telephone Number**

Press the [TI] button.

### **Scrolling the Name and Telephone Number display**

Press the [SCRL] button.

### 6 Exit Hands Free mode

Press the [RTN] button.



When New Message is Received, "New MSG" is displayed.

## Phone Book/ Message (SMS) data synchronize

Synchronizing the data in this unit with the data in the GSM telephone.

### 1 Select the key function section

Press the [NEXT] button.

Repeatedly press the button until "SYNC" is displayed above the [3] button.

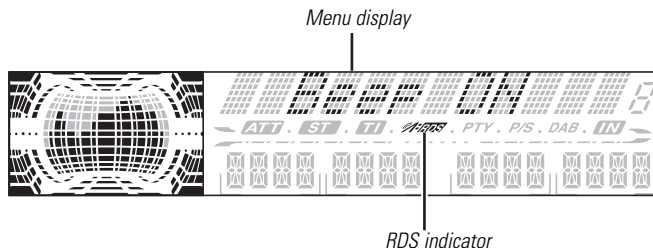
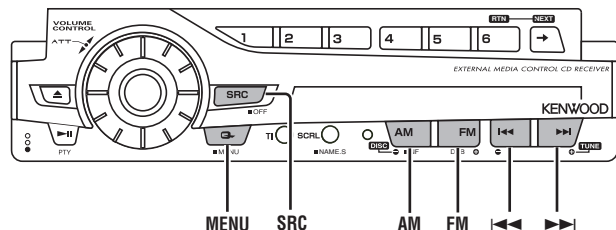
Refer to <Notes on Multi-function Key System> (page 8).

### 2 Synchronize the data

Press the [3] ("SYNC") button.

The "SYNC" display turns off when data synchronization starts.

## Menu system



### 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<<] or [I>>] button.  
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.

### Security Code

### <In Standby mode>

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 it can't be released. Note, your Security Code is the 4 digit number entered in your "Car Audio Passport" in this package.

### 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 [◀◀] or [▶▶] button for at least 1 second.

When "ENTER" is displayed, "CODE" is displayed.

### 4 Select the digits to enter

Press the [◀◀] or [▶▶] 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 step operation, and reenter the security code.

"APPROVED" is displayed.

The Security Code function activates.



If you enter a Code different from your Security Code, you have to start over from step 4.

**Press the Reset button and when it's removed from the battery power source**

### 1 Turn the power ON.

### 2 Do the step 4 through 7 step operation, and reenter the security code.

"APPROVED" is displayed.

The unit can be used.



If an incorrect code is input, "WAITING" is displayed, and the input prohibited time shown below is generated.

After the input prohibited time lapses, "CODE" is displayed, and input can be done.

Number of times the incorrect code was input	Input prohibited time
---	-----------------------

1	—
2	5 minutes
3	1 hour
4	24 hours

### Phone voice speaker setting <In Standby mode> <When hands free unit connecting>

Selecting the speaker to output the Phone voice.

Display	Setting
"HFSP ALL"	Phone voice sent to the front and rear speaker.
"HFSP FR"	Phone voice send to the front right speaker.
"HFSP FL"	Phone voice sent to the front left speaker.

## Menu system

### Microphone sensitivity adjust <When hands free unit connecting>

Adjusting the volume of the Microphone.

#### Display and Setting

"HF MIC 0"

⋮

"HF MIC 15"(Original setting)

⋮

"HF MIC 31"

### Auto Response time Adjust <When hands free unit connecting>

Setting the time from an incoming call to the automatic response.

#### Display and Setting

"HF WT OFF"

"HF WT 1S"

⋮

"HF WT 5S" (Original setting)

⋮

"HF WT 30S"



If the time set in the GSM telephone is shorter than that set in the unit, the former will 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



This adjustment can be done when the <Synchronize Clock> (page 37) is set as OFF.

#### 1 Select Clock Adjustment mode

Press the [FM] or [AM] button.  
Select the "Clock Adjust" display.

#### 2 Enter Clock Adjust mode

Press the [◀◀] or [▶▶] 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 [◀◀] or [▶▶] button.

#### 4 Exit Clock adjustment mode

Press the [MENU] button.

## Synchronize Clock

Synchronizing the RDS station time data and this unit's clock.

Display	Setting
"SYNC ON"	Synchronizes the time.
"SYNC OFF"	Adjust the time manually.



It takes 3 to 4 minutes to synchronize the clock.

## Contrast Adjustment

Adjusting the display contrast.

### Display and Setting

"Contrast 0"
:
"Contrast 5" (Original setting)
:
"Contrast 10"

## 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.

## 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.

## Selectable Illumination

Selecting the button illumination color as green or red.

Display	Setting
"Button Red"	The illumination color is red.
"Button Green"	The illumination color is green.

## Menu system

### OFF Wait Time Setting

Setting the time until the faceplate hide operation starts after the power is turned OFF.

The faceplate can be removed only during the set time period.

#### Display and Setting

"Off Wait 0s"

⋮

"Off Wait 3s" (Original setting)

⋮

"Off Wait 25s"

### Eject angle setting

#### <In Standby mode>

This function sets the opening and closing operation of a panel when a disc is inserted and when it is ejected.

#### Display

#### Setting

"Ejct Ang Slp"

Opens and closes the panel while maintaining the angle of the control panel to the set angle.

"Ejct Ang Lvl"

Opens and closes the panel after setting the angle of the control panel to the horizontal position.

### System Q Setting

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.

### Switching preout

#### <In Standby mode>

Switching the preout between the rear and non-fading. (In non-fading it outputs without effect from the fader control.)

#### Display

#### Setting

"SWPRE Rear"

Rear preout.

"SWPRE N-Fad"

Non-fading preout.

### 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.

## B.M.S. (Bass Management System)

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

Display	Setting
"AMP BASS FLT"	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 that can only be set to +12 is connected to the unit, "AMP BASS +18" won't work correctly even if it's selected.

## B.M.S. Frequency Offset

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

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

## News Bulletin with Timeout Setting

It switches automatically when a news bulletin starts even if the radio isn't being listened to. Also, the time interval when interrupt is prohibited can be set.

## Display and Setting

"NEWS OFF"

"NEWS 00MIN"

⋮

"NEWS 90MIN"

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

When the news bulletin starts, "News" is displayed, and it switches to the news bulletin.



- If you choose the "20MIN" setting, further news bulletins will not be received for 20 minutes once the first news bulletin is received.
- The news bulletin volume is the same level that was set for <Traffic Information> (page 22).
- This function is only available if the desired station sends PTY-code for news bulletin or belongs to <Enhanced Other Network>-Network sending PTY-code for news bulletin.
- When the News Bulletin Interrupt function is ON, it switches to an FM station.

## Local Seek

## <In Tuner mode>

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

Display	Setting
"Local.S OFF"	The local seek function is OFF.
"Local.S ON"	The local seek function is ON.

## Menu system

### Tuning Mode

<In Tuner mode>

Sets the tuning mode.

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

### Auto Memory Entry

<In Tuner mode>

For the operation method refer to <Auto Memory Entry> (page 21).

### AF (Alternative Frequency)

When poor reception is experienced, automatically switch to another frequency broadcasting the same program in the same RDS network with better reception.

Display	Setting
"AF ON"	The AF function is ON.
"AF OFF"	The AF function is OFF.

When the AF function is ON, the "RDS" indicator is ON.



When no other stations with stronger reception are available for the same program in the RDS network, you may hear the incoming broadcast in bits and snatches. Turn OFF the AF function in such a case.

### Restricting RDS Region

(Region Restrict Function)

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

Display	Setting
"Regional ON"	The Region Restrict Function is ON.
"Regional OFF"	The Region Restrict Function is OFF.



Sometimes stations in the same network broadcast different programs or use different program service names.

### Auto TP Seek

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

Display	Setting
"ATPS ON"	The Auto TP Seek Function is ON.
"ATPS OFF"	The Auto TP Seek Function is OFF.

### Monaural Reception

<In FM reception>

Noise can be reduced when stereo broadcasts are received as monaural.



Display	Setting
"MONO OFF"	The monaural reception is OFF.
"MONO ON"	The monaural reception is ON.



This setting is done after setting <Security Code> (page 34).

## Text Scroll

Setting the displayed text scroll.

Display	Setting
"Scroll MANU"	Doesn't scroll.
"Scroll Auto"	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
- Radio text
- Text for GSM hands free source (message, etc.)

## Function of the KDC-M7024

### CD Read Setting

### <In Standby mode>

When there is a problem on playing a CD with special format, this setting play the CD by force.

Display	Setting
"CD READ 1"	Play CD and MP3.
"CD READ 2"	Play CD by force.



Setting "CD READ 2" cannot play MP3.

Some music CDs may not be played back even in the "CD READ 2" mode.

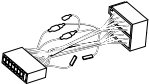



## Power OFF Timer

Setting the timer to turn this unit's power OFF automatically when Standby mode continues.

Using this setting can save the vehicle's battery power.

Display	Setting
"OFF _ _ _"	Power OFF Timer function is OFF.
"OFF 20MIN"	Turns the power OFF after 20 minutes.
(Original setting)	
"OFF 40MIN"	Turns the power OFF after 40 minutes.
"OFF 60MIN"	Turns the power OFF after 60 minutes.

## Accessories

External view	..... Number of items	External view	..... Number of items
① 	.....1	③ 	.....1
② 	.....2	④ 	.....2



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.

### ⚠ CAUTION

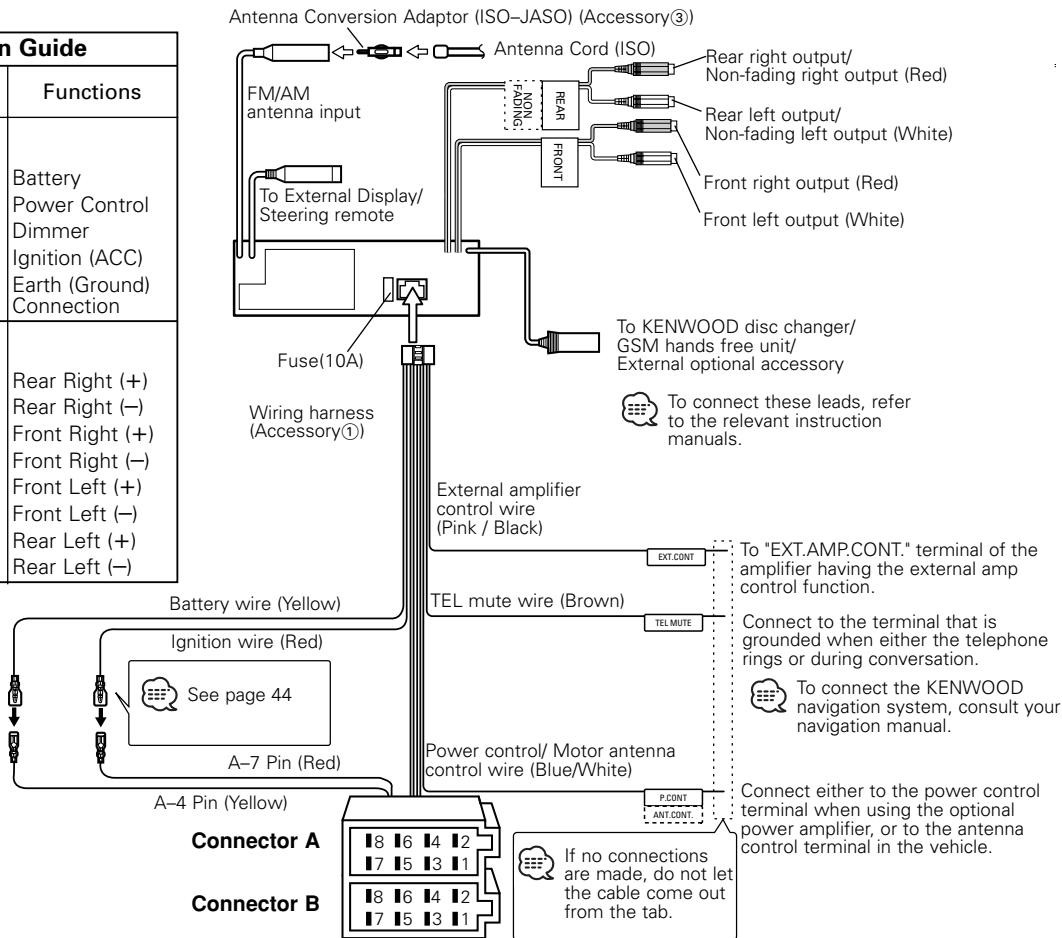
- If your car is not prepared for this special connection-system, consult your KENWOOD dealer.
- Only use antenna conversion adapters (ISO-JASO) when the antenna cord has an ISO plug.
- Make sure that all wire connections are securely made by inserting jacks until they lock completely.
- If your vehicle's ignition does not have an ACC position, or if the ignition wire is connected to a power source with constant voltage such as a battery wire, the power will not be linked with the ignition (i.e., it will not turn on and off along with the ignition). If you want to link the unit's power with the ignition, connect the ignition wire to a power source that can be turned on and off with the ignition key.
- If the fuse blows, first make sure that the wires have not caused a short circuit, then replace the old fuse with one with the same rating.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent short circuits, also do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may receive damage or fail to work if you share the  $\ominus$  wires and/or ground them to any metal part in the car.
- After the unit is installed, check whether the brake lamps, indicators, wipers, etc. on the car are working properly.
- If the console has a lid, make sure to install the unit so that the faceplate does not hit the lid when closing and opening.
- Mount the unit so that the mounting angle is 30° or less.

## Installation Procedure

1. To prevent short circuits, remove the key from the ignition and disconnect the  $\ominus$  terminal of the battery.
2. Make the proper input and output wire connections for each unit.
3. Connect the wire on the wiring harness.
4. Take Connector B on the wiring harness and connect it to the speaker connector in your vehicle.
5. Take Connector A on the wiring harness and connect it to the external power connector on your vehicle.
6. Connect the wiring harness connector to the unit.
7. Install the unit in your car.
8. Reconnect the  $\ominus$  terminal of the battery.
9. Turn the vehicle's ignition key on and open the panel.
10. Press the reset button.

## Connecting Wires to Terminals

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



## Connecting Wires to Terminals

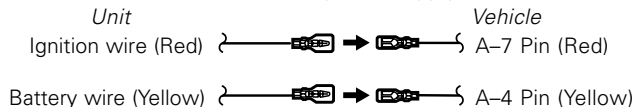
### **⚠ WARNING** Connecting the ISO Connector

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

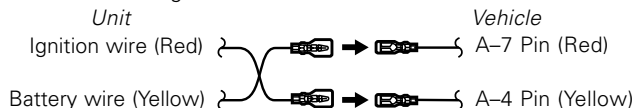
The default connection for the wiring harness is described in **[1]** below. If the ISO connector pins are set as described in **[2]** or **[3]**, make the connection as illustrated.

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

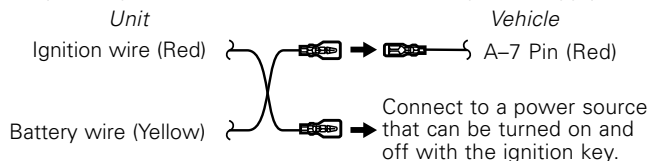
- [1]** (Default setting) The A-7 pin (red) of the vehicle's ISO connector is linked with the ignition, and the A-4 pin (yellow) is connected to the constant power supply.



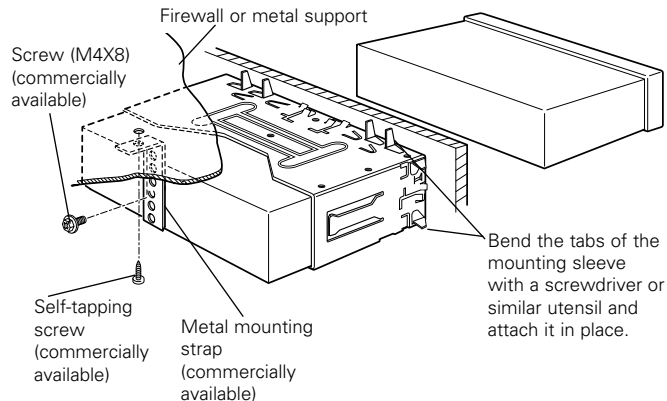
- [2]** The A-7 pin (red) of the vehicle's ISO connector is connected to the constant power supply, and the A-4 pin (yellow) is linked to the ignition.



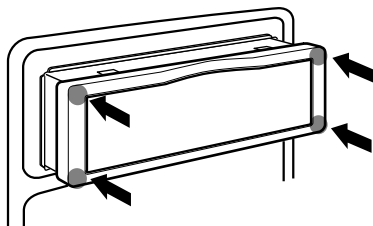
- [3]** The A-4 pin (yellow) of the vehicle's ISO connector is not connected to anything, while the A-7 pin (red) is connected to the constant power supply (or both the A-7 (red) and A-4 (yellow) pins are connected to the constant power supply).



## Installation



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

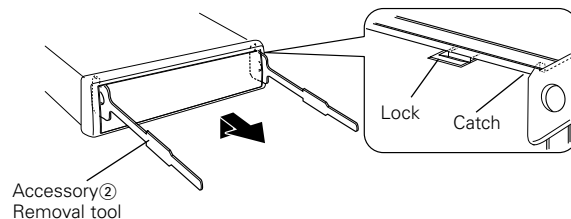


- To attach this unit, make sure the front of the control panel faces you and fit it into the mounting sleeve by pressing the four corners of the hard rubber frame at the same time. Do not apply strong pressure to other sections than the corners; otherwise troubles such as the impossibility of opening or closing the panel may result.
- The hollow at the center of the rubber frame is designed to make it easier to remove discs. If you do not want the hollow to be visible, mount the rubber frame in the opposite direction (with the flat side at the top instead of the bottom).

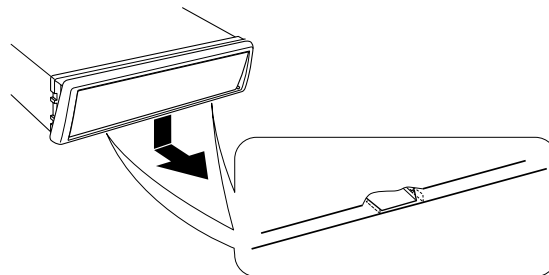
## Removing the Unit

### ■ Removing the hard rubber frame

- 1 Engage the catch pins on the removal tool and remove the two locks on the upper level. Upper the frame and pull it forward as shown in the figure.



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

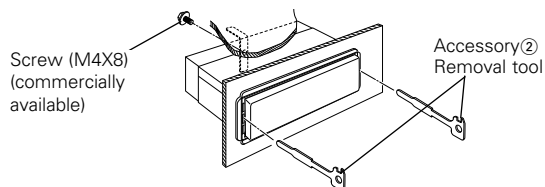


The frame can be removed from the bottom side in the same manner.


## Removing the Unit

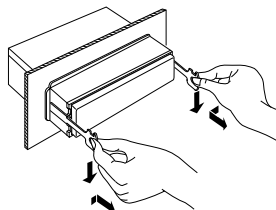
### ■ Removing the Unit

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

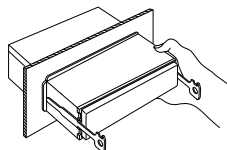


- 4 Lower the removal tool toward the bottom, and pull out the unit halfway while pressing towards the inside.

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

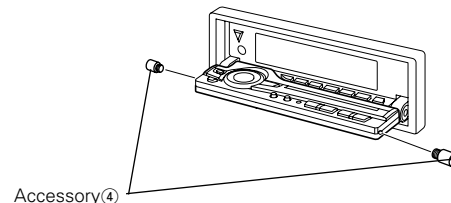


- 5 Pull the unit all the way out with your hands, being careful not to drop it.



## Locking the Backpanel to the unit

- 1 Refer to the Removing the Backpanel function of the section on <Theft Deterrent Panel> (page 17) and remove the Backpanel.
- 2 Insert the panel lock screws into the holes at the sides of the panel.



- 3 Reattach the Backpanel.



Never insert the panel lock screws (M2 X 1.5 mm) in any other screw holes than the one specified. If you insert them in another hole, it will contract and may cause damage to the mechanical parts inside the unit.

## 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.

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

- ✓ There's no media 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 Disc changer isn't connected.
  - ☞ Connect the Disc changer. If the Disc changer isn't connected to it's input terminal, You can't switch to an external disc source.

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

- ✓ The ignition and battery wire are incorrectly connected.
  - ☞ Connect the wire correctly, referring to the 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 Non-fading output can't be turned ON or OFF.

- ✓ The <Switching preout> (page 38) is set is set on Rear preout.
  - ☞ Change it to Non-fading preout.

#### ? The TEL mute function does not work.

- ✓ The TEL mute wire is not connected properly.
  - ☞ Connect the wire correctly, referring to the section on <Connecting Wires to Terminals>.

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

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

#### ? Even if Loudness is turned ON, high-pitched tone isn't compensated for.

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

#### ? 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 Setting> (page 38) 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.
  - ☞ Turn up the Volume offset, referring to the section on <Audio control> (page12).
- ✓ The <Built-in Amp Mute Setting> (page 38) is ON.
  - ☞ 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 <Switching preout> (page 38) is set on Rear preout.
  - ☞ Set it on Non-fading preout.
- ✓ The <Non-fading output> (page 16) is OFF.
  - ☞ Turn it ON.
- ✓ The <Dual zone system> (page 18) 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.

## Troubleshooting Guide

### ? 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 Synchronize Clock is ON, the clock can't be adjusted.

- ✓ The received RDS station isn't sending time data.
- ☞ Receive another RDS station.

### ? The Dimmer function doesn't work.

- ✓ The Dimmer wire isn't connected correctly.
- ☞ Check the Dimmer wire connection.

### ? The panel is not hidden even when the power is turned off.

- ✓ The protection function for preventing fingers or other things from getting caught in between the panel and this unit has been activated.
- ☞ Turn off the power again.

### ? Sound is interrupted when Dual Zone System is set to ON.

- ✓ When Dual Zone System is set to ON while the Menu system's <AF (Alternative Frequency)>(page 40) is set to ON, the sound quality may be adversely affected if the internal source is set to the tuner.
- ☞ ---

## 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>.

### ? It isn't the set Traffic information sound volume.

- ✓ The set sound volume is less than the tuner sound volume.
- ☞ If the tuner sound volume is louder than the set sound volume, the tuner sound volume is used.

## Disc source

### ? "AUX1" is displayed without achieving External disc control mode.

- ✓ Unsupported disc changer is connected.
- ☞ Use the disc changer mentioned in the IMPORTANT INFORMATION of the section on <Safety precautions> (page 3).

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

- ✓ The specified CD is quite dirty.
- ☞ Clean the CD.
- ✓ 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.

### ? A CD ejects as soon as it is loaded.

- ✓ The CD is quite dirty.
- ☞ Clean the CD, referring to the CD cleaning of the section on <About CDs> (page 9).

### ? 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 [▲] button and remove the disc.

### ? Direct Search can't be done.

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

### ? Track Search can't be done.

- ✓ For the discs/folders first or last song.
- ☞ For each disc/folder, Track Search can't be done in the backward direction for the first song or in the forward direction for the last song.



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## MP3 source

### ? Cannot play an MP3.

- ✓ The media is scratched or dirty.
    - ☞ Clean the media, referring to the CD cleaning of the section on <About CDs> (page 9).
- 

### ? The sound skips when an MP3 is being played.

- ✓ The media is scratched or dirty.
    - ☞ Clean the media, referring to the CD cleaning of the section on <About CDs> (page 9).
  - ✓ The recording condition is bad.
    - ☞ Record the media again or use another media.
- 

### ? The MP3 track time isn't displayed correctly.

- ✓ ---
    - ☞ 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 "AUX1" showing in the display during the Changer Mode.

## Troubleshooting Guide

### The messages shown below display your systems condition.

EJECT:	No disc magazine 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:	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.
Waiting:	Radio text data is being received.
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.

## ***Specifications***

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### **Specifications subject to change without notice.**

#### ***FM tuner section***

Frequency range (50 kHz space) .....	87.5 MHz – 108.0 MHz
Usable sensitivity (S/N = 26dB) .....	0.7 $\mu$ V /75 $\Omega$
Quieting Sensitivity (S/N = 46dB) .....	1.6 $\mu$ V /75 $\Omega$
Frequency response ( $\pm 3$ dB) .....	30 Hz – 15 kHz
Signal to Noise ratio (MONO) .....	65 dB
Selectivity (DIN) ( $\pm 400$ kHz) .....	$\geq 80$ dB
Stereo separation (1 kHz) .....	35 dB

#### ***MW tuner section***

Frequency range (9 kHz space) .....	531 kHz – 1611 kHz
Usable sensitivity (S/N = 20dB) .....	25 $\mu$ V

#### ***LW tuner section***

Frequency range .....	153 kHz – 281 kHz
Usable sensitivity (S/N = 20dB) .....	45 $\mu$ V

#### ***CD player section***

Laser diode .....	GaAlAs ( $\lambda=780$ nm)
Digital filter (D/A) .....	8 Times Over Sampling
D/A Converter .....	1 Bit
Spindle speed	
(KDC-M7024) .....	1000 – 400 rpm (CLV 2times)
(KDC-7024) .....	500 – 200 rpm (CLV)
Wow & Flutter .....	Below Measurable Limit
Frequency response ( $\pm 1$ dB) .....	10 Hz – 20 kHz
Total harmonic distortion (1 kHz) .....	0.01 %
Signal to Noise ratio (1 kHz) .....	105 dB
Dynamic range .....	93 dB
Channel separation .....	95 dB
MP3 decode (KDC-M7024)	
.....	Compliant with MPEG-1.0/2.0/2.5 Audio Layer-3

#### ***Audio section***

Maximum output power .....	50 W x 4
Output power (DIN 45324, +B=14.4V) .....	30 W x 4
Tone action	
Bass : .....	100 Hz $\pm 10$ dB
Middle : .....	1 kHz $\pm 10$ dB
Treble : .....	10 kHz $\pm 10$ dB
Preout level / Load (during disc play) .....	2000 mV/10 k $\Omega$
Preout impedance (during disc play) .....	$\leq 600 \Omega$

#### ***General***

Operating voltage (11 – 16V allowable) .....	14.4 V
Current consumption .....	10 A
Installation Size (W x H x D) .....	178 x 50 x 165 mm
Weight .....	1.7 kg

KENWOOD