KENWOOD

CD-RECEIVER

KDC-MP2032
KDC-MP2032CR
KDC-MP232
KDC-MP202
KDC-232MR

INSTRUCTION MANUAL

Kenwood Corporation

SIRIUS **READY**   HD Radio **READY**   Designed for Windows Media™

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-MP2032/MP2032CR/MP232/MP202/232MR Serial number _____

US Residence Only

Register Online

Register your Kenwood product at
www.Kenwoodusa.com

© B64-3290-10/02 (KW/K0)

Contents

⚠Warning

⚠CAUTION

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-MACHI,
> 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 harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Safety precautions

⚠WARNING

To prevent injury or fire, take the following precautions:

• To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.

• Mounting and wiring this product requires skills and experience. For safety's sake, leave the mounting and wiring work to professionals.

⚠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 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 place the faceplate (and the faceplate case) in areas exposed to direct sunlight, excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

• To prevent deterioration, do not touch the terminals of the unit or faceplate with your fingers.

• Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.

• When replacing a fuse, only use a new fuse with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.

• Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.

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.

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.
Connecting unsupported disc changers/CD players to this unit may result in damage.
Set the "O-N" Switch to the "N" position for the applicable Kenwood disc changers/ CD players.
The functions you can use and the information that can be displayed may differ depending on the models being connected.

⚠

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

Lens Fogging

When 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, this condesnation on the lens may not allow CDs 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.

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

Notes

- If you experience problems during installation, consult your Kenwood dealer.
- When you purchase optional accessories, check with your Kenwood dealer to make sure that they work with your model and in your area.
- If the unit fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed.
- Press the reset button if the disc auto changer fails to operate correctly. Normal operation should be restored.
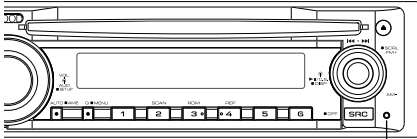
Reset button

- We recommend the use of <Activating Security Code> (page 20) to prevent theft.
- The characters which can be displayed by this unit are A-Z 0-9 @ " ' ` % & * + – = , . / \ < > [ ] ( ) : ; ^ - { } | ~ .
- The illustrations of the display and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the illustrations on the display may be inapplicable.

Cleaning the Unit

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

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- 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 Faceplate Terminals

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

Before using this unit for the first time

This unit is initially set on the Demonstration mode. When using this unit for the first time, cancel the <Demonstration mode Setting> (page 23).

About SIRIUS Satellite radio tuner

Refer to the instruction manual of SIRIUS Satellite radio tuner KTC-SR901/SR902/SR903 (optional accessory), when connected, for the operation method.

- KDC-MP2032/KDC-MP232/KDC-232MR
 Refer to the sections of A models for operations.
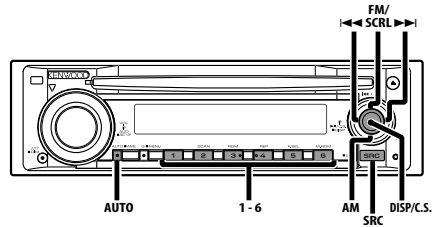
About CDs

Handling CDs
• Do not 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.
• Do not stick tape etc. on the CD, or use a CD with tape stuck on it.

When using a new CD
If the CD center hole or outside rim has burrs, use the CD only after removing the burrs with a ballpoint pen, etc.

Burrs

Burrs
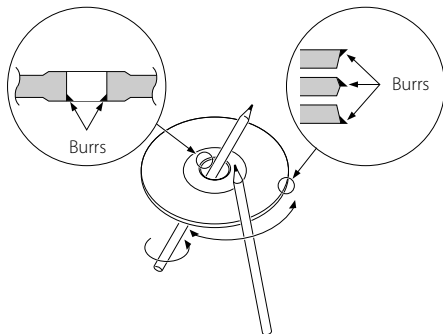
CD accessories
Do not use disc type accessories.

CD cleaning
Clean from the center of the disc and move outward.
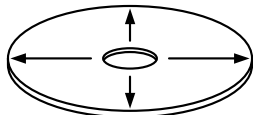
Removing CDs
When removing CDs from this unit pull them out horizontally.

CDs that cannot be used
• CDs that are not round cannot be used.
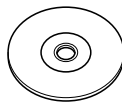
• CDs with coloring on the recording surface or CDs that are dirty cannot be used.
• This unit can only play the CDs with

This unit may not correctly play discs which do not have the mark.
• You cannot play a CD-R or CD-RW that has not been finalized. (For the finalization process refer to your CD-R/CD-RW writing software, and your CD-R/CD-RW recorder instruction manual.)

CD storage
• Do not place CDs in direct sunlight (On the seat or dashboard etc.) or where the temperature is high.
• Store CDs in their cases.

About MP3 and WMA

The playable MP3/WMA file (hereafter called Audio file) and the media format has the following limitation. The Audio file, which is not comforming to the specification, may not play normally, or the file and folder names may not display correctly.

Playable Audio file
• MP3, WMA: KDC-MP2032/KDC-MP2032CR/ KDC-MP232/KDC-MP202

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• Attach the correct extension for the Audio file (MP3: ".MP3", WMA: ".WMA")
• Do not attach the extensions to files other than the Audio file. If the extension is attached, the file, which is not the Audio file, will play and outputs a loud noise, causing damage to the speaker.
• The files with copy protection cannot be played.
• The settings of your encoding software and the environment in which it is used may now allow you to play or view specific audio files. For encoding specifications and instructions on how to set encoding software, browse through software help or check with the developers.

Playable MP3 file
• MPEG 1/2 Audio Layer 3 file
• Transfer bit rate: 8-320 kbps
• Sampling frequency
  : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48 kHz

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

Playable media
• CD-ROM, CD-R, CD-RW

💬

• CD-RW discs which are quick formatted by the writing software cannot be used.
• When recording to the maximum media capacity at once, the writing software is set to "Disc at once".

Playable disc format
• ISO 9660 Level 1/2
• Joliet
• Romeo
• Long file name.

The maximum number of characters for display
File/Folder name: 64 (Joliet: 32)–characters
MP3 ID3 Tag/ WMA Contents property: 30 characters

💬

• File/Folder name is the number of the characters including the extensions
• MP3 ID3 Tag can only display the tag of Ver1.0/1.1

Limitation of structure for the file and the folder
• Maximum number of directory levels: 8
• Maximum number of folders: 100
• Maximum number of files per folder: 255

Playing order of the Audio file
The Audio file plays in the order which is written by writing software. You may be able to set the playing order by writing the play sequence numbers such as "01" to "99" at the beginning of the file name.

Example
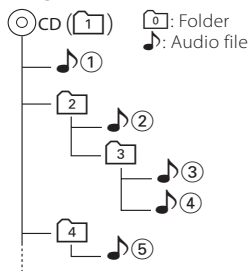
• **Playing order**
  Playing order after ♪① play.
  ➡ ♪②, ♪③, ♪④, ♪⑤...
• **File search**
  Forward file search during ♪③ play.
  Push the Control knob towards [►►I] ➡ ♪④
• **Folder search**
  Forward folder search during ♪② play.
  Push the Control knob towards [FM] ➡ ③, ④...
• **Folder select**
  When the selection is set to directory ④, and you want to skip to the folder ② at the same level.
  Push the Control knob towards [I◄◄] ➡ ②

  When the selection is set to directory ③, moves the level up by folder select.
  Push the Control knob towards [AM] ➡ ②

General features

Release button   **VOL**   **Control knob**

ATT/DIM   **Q**   **SRC**

LOUD indicator

ATT indicator   **Clock display**

Power

Turning ON the Power
   Press the [SRC] button.

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

Selecting the Source

   Press the [SRC] button.

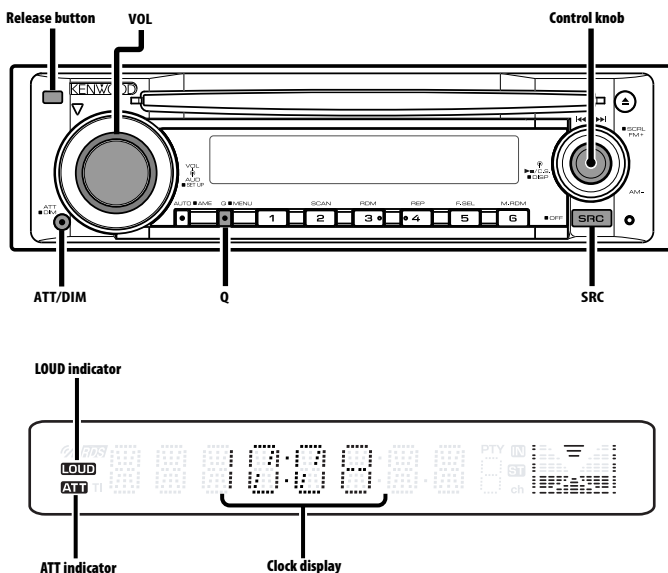| Source required	Display
SIRIUS tuner* (Optional accessory)	"SIRIUS"
Tuner or HD Radio* (Optional accessory)	"TUNER" or "HD RADIO"
CD	"CD"
External disc* (Optional accessory)	"CD CH"
Auxiliary input* (Optional accessory)	"AUX EXT"
Standby (Illumination only mode)	"STANDBY"

{⊞}
- • * Function of the KDC-MP2032/MP232/232MR
- • The power will be turned off automatically after about 20 minutes have elapsed under the standby mode (KDC-232MR only).

8 | English

Volume

Increasing Volume
   Turn the [VOL] knob clockwise.

Decreasing Volume
   Turn the [VOL] knob counterclockwise.

Attenuator

Turning the volume down quickly.

   Press the [ATT] button.
   Each time you press the button, the Attenuator turns ON and OFF.
   When the Attenuator is ON, the "ATT" indicator blinks.

System Q

Selecting 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.

When you press the button once, the current sound setting is displayed.

Each time you press the button, the sound setting alternates.

Sound setting	Display
Natural	"NATURAL"
Rock	"ROCK"
Pops	"POPS"
Easy	"EASY"
Top 40	"TOP40"
Jazz	"JAZZ"

{⊞⊟}

• Change each setting value with the <Speaker Setting> (page 10).
  First, select the speaker type with the Speaker setting.
• When the value is set up by <Audio Control> (page 9), "USER" is displayed.

Audio Control

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

2 Enter Audio Control mode
Press the [VOL] knob.

3 Select the Audio item to adjust
Press the [VOL] knob.

Each time you press the knob, the item to be adjusted alternates between the items shown in the table below.

4 Adjust the Audio item
Turn the [VOL] knob.

Adjustment Item	Display	Range
Bass level	"BAS L"	−8 — +8
Middle level	"MID L"	−8 — +8
Treble level	"TRE L"	−8 — +8
Balance	"BAL"	Left 15 — Right 15
Fader	"FAD"	Rear 15 — Front 15
Exit Audio Control mode (Volume control mode)		

5 Exit Audio Control mode
Press any button.

Press a button other than the [VOL] knob, [SRC], [▲] and [ATT] button.

Audio Setup

Setting the Sound system, such as Volume offset and Loudness.

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

2 Enter Audio Setup mode
Press the [VOL] knob for at least 1 second.

3 Select the Audio Setup item to adjust
Press the [VOL] knob.

Each time you press the knob, the item to be adjusted alternates between the items shown in the table below.

4 Adjust the Audio setup item
Turn the [VOL] knob.

Adjustment Item	Display	Range
Volume offset	"V-OFF"	−8 — ±0
Loudness	"LOUD"	ON/OFF

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• Volume offset: Sets each source's volume as a difference from the basic volume.
• Loudness: Compensates for low and high tones during low volume.
  When Loudness is ON, "LOUD" indicator is ON.

5 Exit Audio Setup mode
Press the [VOL] knob for at least 1 second.

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 "STANDBY" display.

2 Enter Speaker Setting mode
Press the [VOL] knob.

3 Select the Speaker type
Turn the [VOL] knob.
Each time you turn the knob, the setting alternates between the settings shown in the table below.

Speaker type	Display
OFF	"SP OFF"
For 5 & 4 in. speaker	"SP 5/4"
For 6 & 6x9 in. speaker	"SP 6*9/6"
For the OEM speaker	"SP OEM"

4 Exit Speaker Setting mode
Press the [VOL] knob.

Switching Display

Changing the information displayed.

1 Enter Switching Display mode
Press the Control knob for at least 1 second.
"DISP SEL" is displayed.

2 Select the Display item
Push the Control knob towards [I◄◄] or [►►I].

In Tuner source

Information	Display
Frequency	"FREQ"
Clock	"CLOCK"

In CD & External disc source

Information	Display
Disc title (In External disc source or KDC-MP2032/MP2032CR/MP232/MP202 internal CD source)	"D-TITLE"*
Track title (In External disc source or KDC-MP2032/MP2032CR/MP232/MP202 internal CD source)	"T-TITLE"*

Track number & Play time	"P-TIME"
Clock	"CLOCK"

In Audio file source

Information	Display
Song title & Artist name	"TITLE"*
Album name & Artist name	"ALBUM"*
Folder name	"FOLDER"
File name	"FILE"
Track number & Play time	"P-TIME"
Clock	"CLOCK"

In HD Radio source

Information	Display
Station name	"ST NAME"*
Song title/ Artist name/ Album name/ Genre	"TITLE"*
Frequency	"FREQ"
Clock	"CLOCK"

In Standby/ Auxiliary input source

Information	Display
Source name	"SRC NAME"
Clock	"CLOCK"

3 Exit Switching Display mode
Press the Control knob.

�

- * If the contents of the information cannot be displayed, Play time or Frequency is displayed.
- Album name cannot be displayed in WMA file.

Dimmer Control

You can lower the brightness of the display by using the dimmer function.

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

Each time you press the button for 1 second, the Dimmer contol turns ON or OFF.
When the Dimmer control is ON, "DIM 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
Press the Release button.
The faceplate unlocks, allowing you to detach it.

⚠️

• The faceplate is a precision piece of equipment and can be damaged by shocks or jolts.
• Keep the faceplate in its faceplate case while detached.
• Do not expose the faceplate (and the faceplate 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 projections on the unit with the grooves on the faceplate.

Projections

Grooves
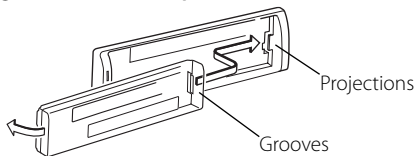
2 Push the faceplate in until it clicks.
The faceplate is locked in place, allowing you to use the unit.

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.
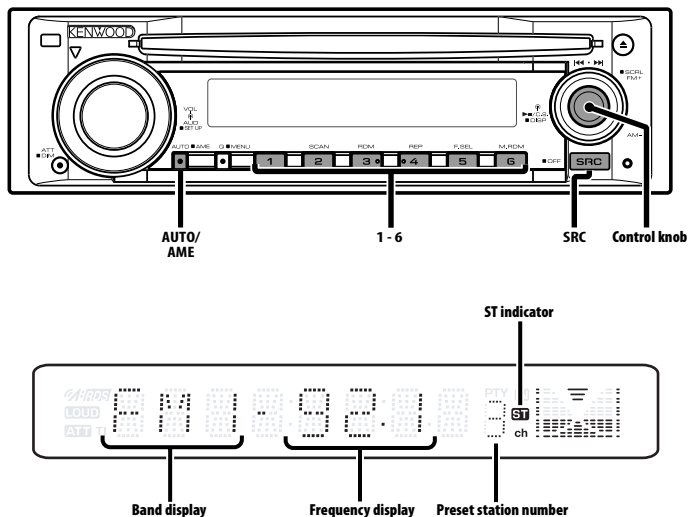
When the call ends
Hang up the phone.
The "CALL" display disappears and the audio system comes back ON.

💬

• To use the TEL Mute feature, you need to hook up the MUTE wire to your telephone using a commercial telephone accessory. Refer to <Connection Wires to Terminals> (page 27).

Tuner features

AUTO/AME   1 - 6   SRC   Control knob

ST indicator

Band display   Frequency display   Preset station number

Tuning

Selecting the station.

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

2 Select the band
Push the Control knob towards [FM] or [AM].
Each time you push the knob toward [FM], it switches between the FM1, FM2, and FM3 bands.

3 Tune up or down band
Push the Control knob towards [I◀◀] or [▶▶I].

⌨

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

Tuning Mode

Choose the tuning mode.

Press the [AUTO] button.
Each time you press the button, the Tuning mode alternates between the modes shown in the table below.

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.

Station Preset Memory

Putting a station in the memory.

1 Select the band
Push the Control knob towards [FM] or [AM].

2 Select the frequency to put in the memory
Push the Control knob towards [I◄◄] or
[►►I].

3 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 stations with good reception in the
memory automatically.

1 Select the band for Auto Memory Entry
Push the Control knob towards [FM] or [AM].

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.

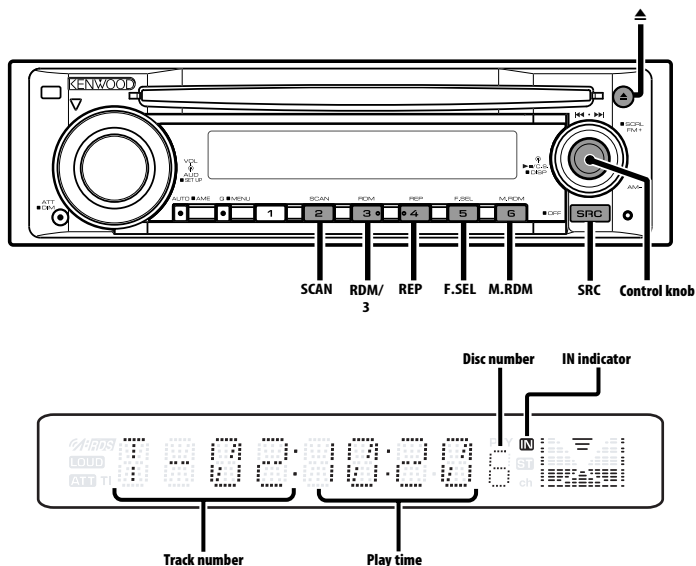## Preset Tuning

Recalling the stations in the memory.

1 Select the band
Push the Control knob towards [FM] or [AM].

2 Recall the station
Press the desired [1] — [6] button.

SCAN RDM/3 REP F.SEL M.RDM SRC Control knob

Disc number IN indicator

Track number Play time

Playing CD & Audio file

When a disc is inserted
Press the [SRC] button.
Select the "CD" display.

⬬
• When a CD is inserted, the "IN" indicator is ON.

Pause and play
Press the Control knob.
Each time you press the knob, the audio pauses or plays.

Eject the CD
Press the [⏏] button.

⬬
• Refer to <About MP3 and WMA> (page 7) for the Audio file by models you can play.

Function of the KDC-MP2032/KDC-MP232/KDC-232MR

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 CH"	CD changer
"MD CH"	MD changer

Pause and play
Press the Control knob.
Each time you press the knob, the audio pauses or 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 toward [►►ı] with the Control knob.
Release your finger to play the disc at that point.

Reversing
Hold down toward [ı◄◄] with the Control knob.
Release your finger to play the disc at that point.

⁽⁌⁾

• There is no sound while the Audio file is being searched.

Track/File Search

Searching for a song on the disc or in the Audio file folder.

Push the Control knob towards [ı◄◄] or [►►ı].

Function of disc changer/ Audio file
Disc Search/Folder Search

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

Push the Control knob towards [FM] or [AM].

Function of remote control
Direct Track/File Search

Doing Track/File Search by entering the track/file number.

1 Enter the track/file number
Press the number buttons on the remote control.

2 Do Track/File Search
Press the [ı◄◄] or [►►ı] button.

Cancelling Direct Track/File Search
Press the [►ıı] button.

Function of the KDC-MP2032/KDC-MP232/KDC-232MR
Function of disc changers with remote control
Direct Disc Search

Doing Disc Search by entering the disc number.

1 Enter the disc number
Press the number buttons on the remote control.

2 Do Disc Search
Press the [+] or [−] button.

Cancelling Direct Disc Search
Press the [►ıı] button.

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• Input "0" to select disc 10.

CD/Audio file/External disc control features

Track/File/Disc/Folder Repeat

Replaying the song, disc in the Disc changer or Audio file folder you are listening to.

Press the [REP] button.
Each time you press the button, the Repeat Play alternates between the modes shown in the tables below.

In CD & External disc source

Repeat play	Display
Track Repeat	"TRAC REP"
Disc Repeat (In Disc Changer)	"DISC REP"
OFF	"REP OFF"

In Audio file source

Repeat play	Display
File Repeat	"FILE REP"
Folder Repeat	"FOLD REP"
OFF	"REP OFF"

Scan Play

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

1 Start Scan Play
Press the [SCAN] button.
"TRAC SCN"/"FILE SCN" is displayed.

2 Release it when the song you want to hear is played
Press the [SCAN] button.

Random Play

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

Press the [RDM] button.
Each time you press the button, Random Play turns ON or OFF.
When the Random mode is ON, "DISC RDM"/ "FOLD RDM" is displayed.

⌢
• When you push the Control knob toward [►►|], the next random song starts.

Function of the KDC-MP2032/KDC-MP232/KDC-232MR
Function of disc changer

Magazine Random Play

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

Press the [M.RDM] button.
Each time you press the button, the Magazine Random Play turns ON or OFF.
When the Magazine Random mode is ON, "MGZN RDM" is displayed.

⌢
• When you push the Control knob toward [►►|], the next random song starts.

Function of the KDC-MP2032/KDC-MP2032CR/ KDC-MP232/KDC-MP202
Function of Audio file

Folder Select

Quickly selecting the folder you want to hear.
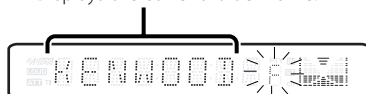
1 Enter Folder Select mode
Press the [F.SEL] button.
"FOLD SEL" is displayed.
During Select mode the folder information is displayed as shown below.

Folder name display
Displays the current folder name.

2 Select the folder level
Push the Control knob towards [FM] or [AM].
With the [FM] of the Control knob, you move 1 level down and with the [AM] of the Control knob, 1 level up.

Selecting a folder in the same level
Push the Control knob towards [|◄◄] or [►►|].
With the [|◄◄] of the Control knob, you move to the previous folder, and with the [►►|] of the Control knob, to the next folder.

Returning to the top level
Press the [3] button.

3 Decide the folder to play
  Press the Control knob.
  The Folder Select mode releases, and the Audio file in the folder being displayed plays.
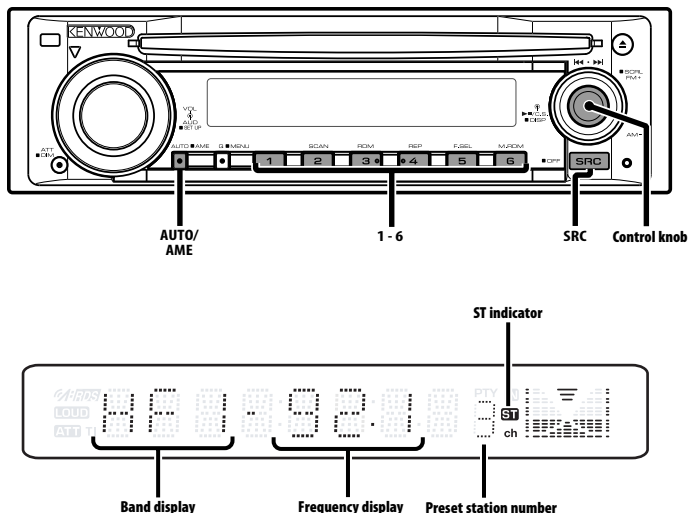
Cancelling the Folder Select mode
  Press the [F.SEL] button.

Text/Title Scroll

Scrolling the displayed CD text, Audio file text, or MD title.

  Push the Control knob toward [FM] for at least 2 seconds.

AUTO/ AME   **1 - 6**   **SRC**   **Control knob**

ST indicator

Band display   **Frequency display**   **Preset station number**

About HD Radio

- When you connect an HD Radio, Tuner features of the unit are disabled and changed to HD Radio tuner features. A portion of the setting methods including the Tuning Mode will change.

- With the HD Radio tuner, you can use the similar functions to <Station Preset Memory>, <Auto Memory Entry>, and <Preset Tuning> of Tuner features. Refer to Tuner features for how to use the functions.

Tuning

Selecting the station.

1 Select HD Radio source
Press the [SRC] button.
Select the "HD RADIO" display.

2 Select the HD FM band
Push the Control knob toward [FM].
Each time you push the knob to [FM], the band alternates between the HF1, HF2, and HF3 bands.
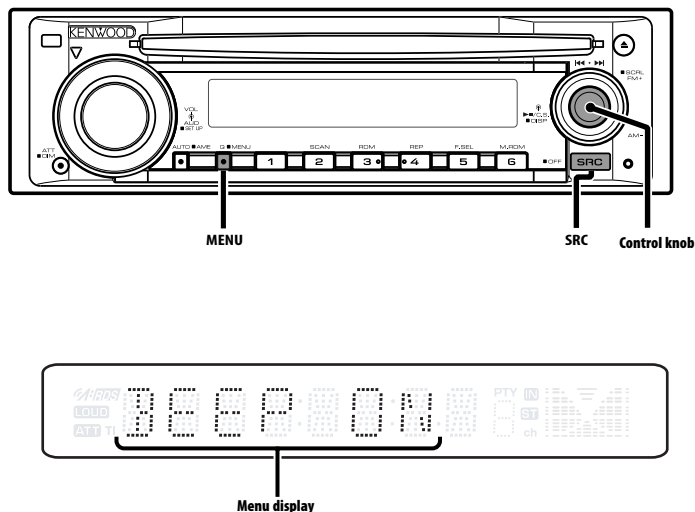
Select the HD AM band
Push the Control knob toward [AM].

3 Tune up or down band
Push the Control knob towards [I◄◄] or [►►I].

MENU   SRC   Control knob

Menu display

Menu System

Setting beep sound during operation, 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
Push the Control knob towards [FM] or [AM].
Example: When you want to set the beep sound, select the "BEEP" display.

3 Set the menu item
Push the Control knob towards [◄◄] or [►►].
Example: When you select "BEEP", each time you push the knob it alternates between "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 those applicable to the basic operation method above are displayed, their setting content chart is entered. (Normally the setting listed at the top of the chart is the original setting.)
Also, the explanation for items that are not applicable (<Manual Clock Adjustment> etc.) are entered step by step.

English | **19**

Menu system

In Standby mode

Activating Security Code

Activating the Security Code disables the usage of audio unit by someone else. Once the Security Code is activated, the entry of authorized Security Code is required to turn on the audio unit when it is removed from the vehicle. Indication of this Security Code activation prevents your precious audio unit from stealing.

⚘

- Set the Security Code when the <Demonstration mode Setting> (page 23) is set to OFF.
- You can set the Security Code with a 4 digit number of your choice.
- The Security Code cannot be displayed or referenced. Make a note of the Security Code and treasure it up.

1 Enter Standby
Press the [SRC] button.
Select the "STANDBY" display.

2 Enter Menu mode
Press the [MENU] button for at least 1 second.
When "MENU" is displayed, "CODE SET" is also displayed.

3 Enter Security Code mode
Press the Control knob for at least 2 seconds.
When "ENTER" is displayed, "CODE" is also displayed.

4 Select the digits to enter
Push the Control knob towards [I◄◄] or [►►I].

5 Select the Security Code numbers
Push the Control knob towards [FM] or [AM].

6 Repeat steps 4 and 5, and complete the Security Code.

7 Confirm the Security Code
Press the Control knob for at least 3 seconds.
When "RE-ENTER" is displayed, "CODE" is also displayed.

8 Do the step 4 through 7 operation, and reenter the Security Code.
"APPROVED" is displayed.
The Security Code function activates.

⚘

- If you enter the wrong Code in steps 4 through 6, repeat from step 4.

Resetting the Security Code function when the audio unit is first used after removed from the battery power source or the Reset button is pressed

1 Turn the power ON.

2 Do the step 4 through 7 operation, and enter the Security Code.
"APPROVED" is displayed.
Now, you can use the unit.

⚘

- When the Security Code function is activated, "CODE SET" changes to "CODE CLR".
- To deactivate the Security Code function, see the next section <Deactivating Security Code>.

In Standby mode

Deactivating Security Code

To deactivate the Security Code function.

1 Select Security Code mode
Push the Control knob towards [FM] or [AM].
Select the "CODE CLR" display.

2 Enter Security Code mode
Press the Control knob for at least 1 second.
When "ENTER" is displayed, "CODE" is also displayed.

3 Select the digits to enter
Push the Control knob towards [I◄◄] or [►►I].

4 Select the Seciruty Code numbers
Push the Control knob towards [FM] or [AM].

5 Repeat steps 3 and 4, and complete the Security Code.

6 Press the Control knob for at least 3 seconds.
"CLEAR" is displayed.
The Security Code function deactivates.

⚘

- If a wrong security code is entered, "ERROR" is displayed. Enter a correct security code.

In Standby mode
Touch Sensor Tone

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

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

In Standby mode
Manual Clock Adjustment

1 Select Clock Adjustment mode
Push the Control knob towards [FM] or [AM].
Select the "CLK ADJ" display.

2 Enter Clock Adjust mode
Press the Control knob for at least 1 second.
The clock display blinks.

3 Adjust the hours
Push the Control knob towards [FM] or [AM].

Adjust the minutes
Push the Control knob towards [I◄◄] or [►►I].

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

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.

Function of the KDC-MP2032/KDC-MP2032CR/ KDC-MP232/KDC-MP202
In CD mode
Supreme Setting

When MP3 or WMA files encoded at a low bit rate (less than 96kbps (fs=32k, 44.1k, 48kHz)) are played, this function restores their high frequency region to approach the sound quality of equivalents of these files encoded at a high bit rate. Processing is optimized for the compression format used (MP3, or WMA), and adjustment is made for the bit rate used.

Display	Setting
"SPRM ON"	Plays sound using the Supreme function.
"SPRM OFF"	Plays the original sound stored in the audio file.

⟮⟯
• The sound effect may be imperceptible depending on the relationship between the audio file format and setting.

In FM reception
CRSC (Clean Reception System Circuit)

Temporarily have reception alternate 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, turn it OFF.

Menu system

Function of the KDC-MP2032/KDC-MP232/KDC-232MR
In HD Radio mode

Receive mode Setting

Sets the receive mode.

1 Select the Receive mode
Push the Control knob towards [FM] or [AM].
Select the "HDR MODE" display.

2 Enter Receive mode
Press the Control knob for at least 1 second.

3 Set the Receive mode
Push the Control knob towards [FM] or [AM].
Each time you push the knob, the Receive mode alternates between the modes shown in the table below.

Receive mode	Display	Operation
Auto mode	"AUTO"	Analog broadcasts and digital broadcasts will be switched automatically. When both are being transmitted, the digital broadcast will have priority.
Digital	"DIGITAL"	Digital broadcasts only.
Analog	"ANALOG"	Analog broadcasts only.

4 Exit Receive mode
Press the [MENU] button.

⚙
- Even if the Receive mode is set to "AUTO", when the Ball game mode program (non-delayed broadcast program) is received, the Receive mode will automatically switch to Analog broadcast only.

Function of the KDC-MP2032/KDC-MP232/KDC-232MR
In SIRIUS tuner source

SIRIUS ID (ESN) display

Displaying the SIRIUS ID (Electronic Serial Number).

Display
"ESN= ***********"

⚙
- Serial & SIRIUS ID (ESN)
  It is important to retain the unit serial number and the electronic SIRIUS Identification number for service activation and potential service changes.

Function of the KDC-MP2032/KDC-MP232/KDC-232MR

Auxiliary Input Display Setting

Selecting the display when alternating to Auxiliary input source.

1 Select Auxiliary input source
Press the [SRC] button.
Select the "AUX EXT" display.

2 Enter Menu mode
Press the [MENU] button for at least 1 second.
"MENU" is displayed.

3 Select Auxiliary input display setting mode
Push the Control knob towards [FM] or [AM].
Select the "NAME SET" display.

4 Enter Auxiliary input display setting mode
Press the Control knob for at least 1 second.
The selected Auxiliary input display is displayed.

5 Select the Auxiliary input display
Push the Control knob towards [I◄◄] or [►►I].
Each time you push the knob, the display alternates as listed below.
- "AUX EXT"
- "DVD"
- "PORTABLE"
- "GAME"
- "VIDEO"
- "TV"

6 Exit Auxiliary input display setting mode
Press the [MENU] button.

⚙
- When operation stops for 10 seconds, the name at that time is registered, and the Auxiliary input display setting mode closes.
- You can only set the Auxiliary input display when the auxiliary input of optional KCA-S210A is used.

Text Scroll

Setting the displayed text scroll.

Display	Setting
"SCL AUTO"	Repeats scroll.
"SCL MANU"	Scrolls when the display changes.

{≣}

- The text scrolled is listed below.
  - CD text
  - Folder name/ File name/ Song title/ Artist name/ Album name
  - MD title
  - Text for the SIRIUS tuner source, HD Radio source, including Channel name, etc.

Function of the KDC-MP2032/KDC-MP2032CR/ KDC-MP232/KDC-MP202
In Standby mode

CD Read Setting

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

Display	Setting
"CD READ1"	Play CD and Audio file.
"CD READ2"	Play CD by force.

{≣}

- Setting "CD READ2" cannot play Audio file.
  Some music CDs may not play even in the "CD READ2" mode.

Function of the KDC-MP2032/KDC-MP232/KDC-232MR
In Standby mode

Demonstration mode Setting

Sets the demonstration mode.

1 Select the Demonstration mode
Push the Control knob towards [FM] or [AM].
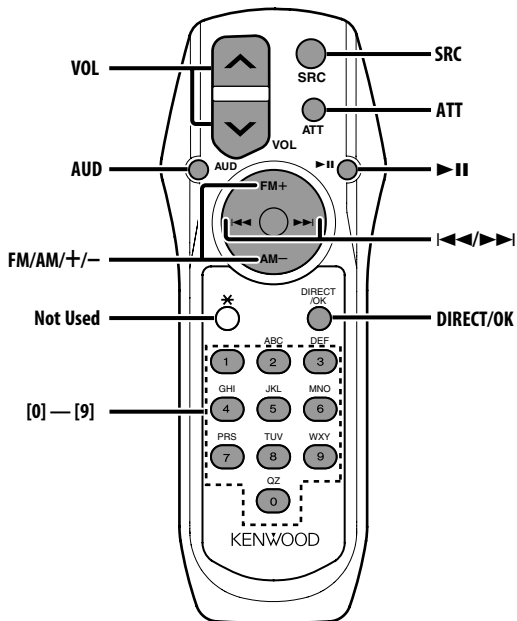Select the "DEMO" display.

2 Set the Demonstration mode
Press the Control knob for at least 2 seconds.
Each time you press the knob at least 2 seconds, the Demonstration mode alternates between the settings shown in the table below.

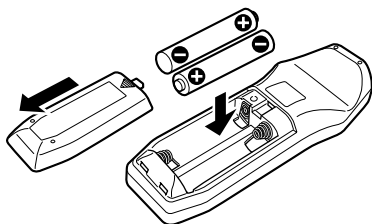| Display	Setting
"DEMO ON"	The Demonstration mode function is ON.
"DEMO OFF"	Exit Demonstration mode (Normal mode).

Loading and Replacing the battery

Use two "AA"/ "R6"-size batteries.
Slide the cover while pressing downwards to remove it as illustrated.
Insert the batteries with the + and – poles aligned properly, following the illustration inside the case.

Basic operations

[VOL] buttons
Adjusts the volume.

[SRC] button
Each time you press the button, the source alternates.
For the source alternating order refer to <Selecting the Source> (page 8).

[ATT] button
Turns the volume down quickly.
When the button is pressed again, the volume returns to the previous level.

Audio Control

[AUD] button

Selects the Audio item to be adjusted.

[VOL] buttons

Adjusts the Audio item.

{🗩}

• Refer to <Audio Control> (page 9) for the operation
method, such as the procedures for Audio control and
others operations.

In Tuner source

[FM]/ [AM] buttons

Selects the band.
Each time you press the [FM] button, the band
alternates between the FM1, FM2, and FM3
bands.

[◄◄]/ [►►] buttons

Tune up or down band.

[0] — [9] buttons

Press buttons [1] — [6] to recall preset stations.

In Disc source

[◄◄]/ [►►] buttons

Going forwards and backwards between track/
files.

[+]/ [−] buttons

Going forwards and backwards between disc/
folders.

[►II] button

Each time you press the button, the song pauses
or plays.

[0] — [9] buttons

When in <Direct Track/File Search> (page 15) and
<Direct Disc Search> (page 15), enters the track/
file/disc number.

In SIRIUS tuner source

[FM] button

Selects the preset band.

[◄◄]/ [►►] buttons

Searches up or down channels.

[0] — [9] buttons

Press buttons [1] — [6] to recall preset channels.

[DIRECT]/ [OK] button

Enters and cancels the <Direct Access Tuning>
mode.

{🗩}

• Refer to the instruction manual of SIRIUS Satellite radio
tuner for <Direct Access Tuning> function.

In HD Radio source

[FM] button

Selects the HD FM band.
Each time you press the [FM] button, the band
alternates between the HF1, HF2, and HF3 bands.

[AM] button

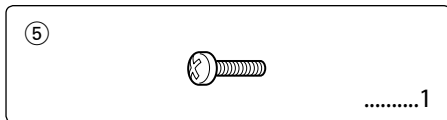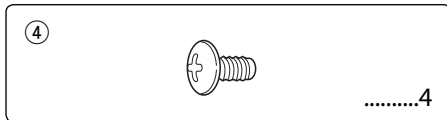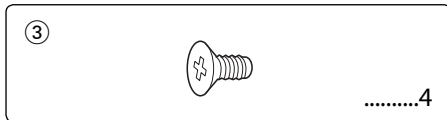Selects the HD AM band.
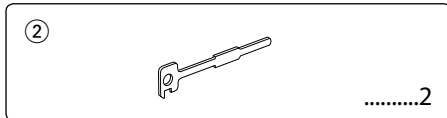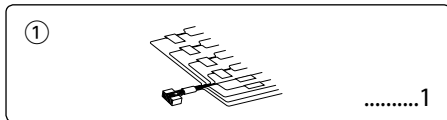
[◄◄]/ [►►] buttons

Tunes up or down bands.

[0] — [9] buttons

Press buttons [1] — [6] to recall preset stations.

Accessories/ Installation Procedure

Accessories

①
.........1

②
.........2

③
.........4

④
.........4

⑤
.........1

Installation Procedure

1. To prevent a short circuit, remove the key from the ignition and disconnect the ⊖ 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 ⊖ battery.
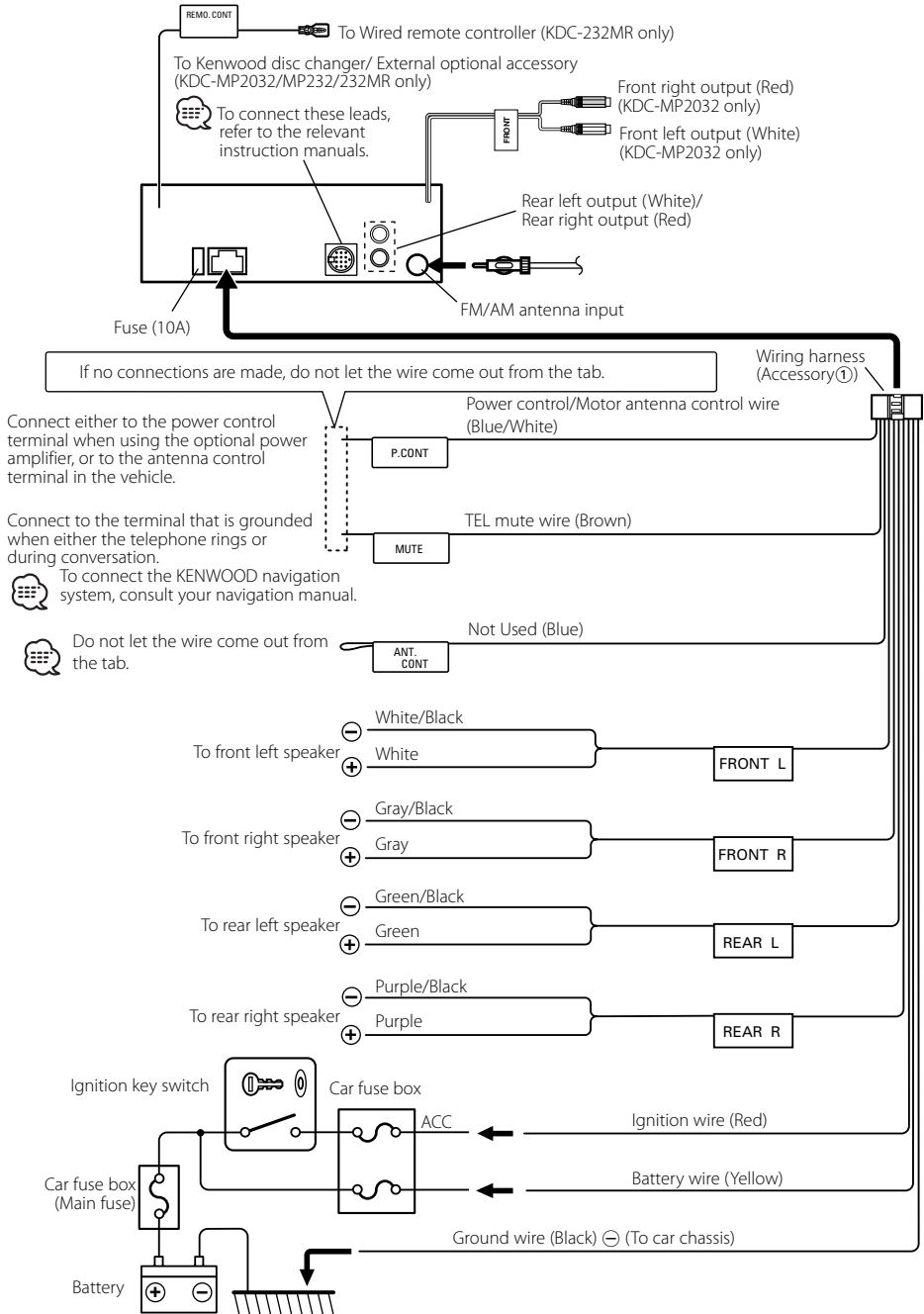8. Press the reset button.

⚠WARNING

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.

⚠

- If the power is not turned ON (or it is ON, but will be OFF immediately), the speaker wire may have a short-circuit or touched the chasis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- If the console has a lid, make sure to install the unit so that the faceplate will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the ⊖ wires or ground them to any metal part in the car.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). 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

REMO. CONT

To Wired remote controller (KDC-232MR only)

To Kenwood disc changer/ External optional accessory
(KDC-MP2032/MP232/232MR only)

To connect these leads,
refer to the relevant
instruction manuals.

FRONT

Front right output (Red)
(KDC-MP2032 only)

Front left output (White)
(KDC-MP2032 only)

Rear left output (White)/
Rear right output (Red)

Fuse (10A)

FM/AM antenna input

Wiring harness
(Accessory①)

If no connections are made, do not let the wire come out from the tab.

Connect either to the power control
terminal when using the optional power
amplifier, or to the antenna control
terminal in the vehicle.

P.CONT

Power control/Motor antenna control wire
(Blue/White)

Connect to the terminal that is grounded
when either the telephone rings or
during conversation.

MUTE

TEL mute wire (Brown)

To connect the KENWOOD navigation
system, consult your navigation manual.

Do not let the wire come out from
the tab.

ANT. CONT

Not Used (Blue)

To front left speaker ⊖ White/Black
⊕ White

FRONT L

To front right speaker ⊖ Gray/Black
⊕ Gray

FRONT R

To rear left speaker ⊖ Green/Black
⊕ Green

REAR L

To rear right speaker ⊖ Purple/Black
⊕ Purple

REAR R

Ignition key switch

Car fuse box

ACC

Ignition wire (Red)

Car fuse box
(Main fuse)

Battery wire (Yellow)

Battery

Ground wire (Black) ⊖ (To car chassis)

Installation

non-Japanese cars

Metal mounting strap
(commercially available)

Firewall or metal support
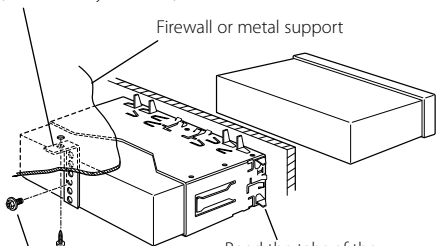
Bend the tabs of the
mounting sleeve with a
screwdriver or similar utensil
and attach it in place.

Self-tapping screw
(commercially available)

Screw (M4X8)
(commercially available)

⌨

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

Japanese cars

1 Refer to the section <Removing the hard rubber
frame> (page 30) 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.

T   N

N   T   ⦿ T/N

T: Toyota cars
N: Nissan cars

8 mm
MAX.

③

ø5mm

8mm
MAX.

④

ø5mm
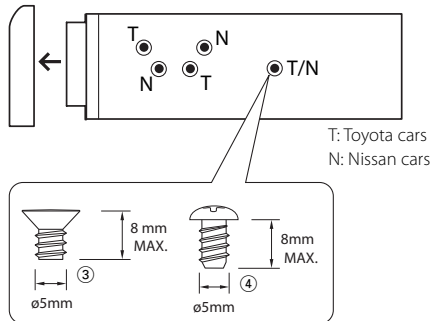
Accessory③...for Nissan car
Accessory④...for Toyota car

⚠

• 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 in the holes shown below.
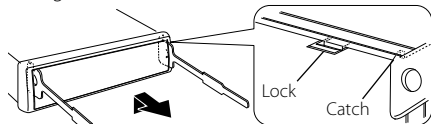
Accessory⑤

⚠
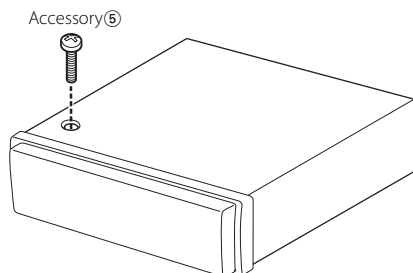
· Never insert the screw in any other screw hole than the one specified. If you screw them in another hole, it will contact and may cause damage to the mechanical parts inside the unit.
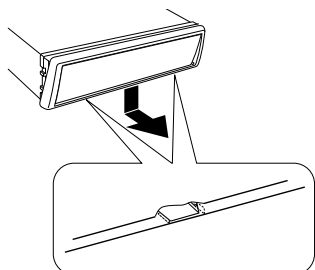
Removing the Unit

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.

Lock

Catch

Accessory②
Removal tool

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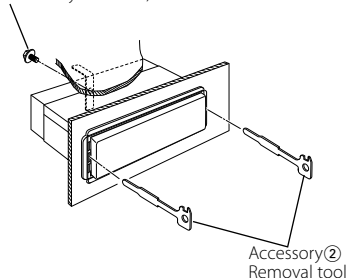
⌣

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

Removing the Unit

1 Refer to the section <Removing the hard rubber frame> (page 30) and then remove the hard rubber frame.

2 Remove the screw (M4 × 8) on the back panel.

3 Insert the two removal tools deeply into the slots on each side, as shown.

Screw (M4X8)
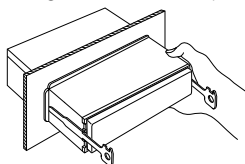(commercially available)

Accessory②
Removal tool

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

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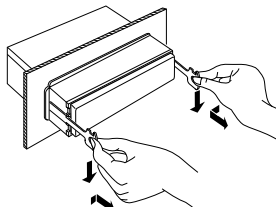
• Be careful to avoid injury from the catch pins on the removal tool.

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.

? 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>.

? 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.

? 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 Setup> (page 9).

? 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.

? The Touch Sensor Tone doesn't sound.
- ✔ The preout jack is being used.
  - ☞ The Touch Sensor Tone can't be output from the preout jack.

Tuner source

? Radio reception is poor.
- ✔ The car antenna is not extended.
  - ☞ Pull the antenna out all the way.
- ✔ The antenna control wire is not connected.
  - ☞ Connect the wire correctly, referring to the section on <Connecting Wires to Terminals>.

Troubleshooting Guide

Disc source

? **"AUX EXT" is displayed without achieving External disc control mode.**
  ✔ Unsupported disc changer is connected.
    ☞ Use the disc changer mentioned in the <About CD players/disc changers connected to this unit> (page 4) of the section on <Safety precautions>.

? **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 6).

? **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.

Audio file source

? **Cannot play an Audio file.**
  ✔ The media is scratched or dirty.
    ☞ Clean the media, referring to the CD cleaning of the section on <About CDs> (page 6).

? **The sound skips when an Audio file is being played.**
  ✔ The media is scratched or dirty.
    ☞ Clean the media, referring to the CD cleaning of the section on <About CDs> (page 6).
  ✔ The recording condition is bad.
    ☞ Record the media again or use another media.

? **The Audio file track time isn't displayed correctly.**
  ✔ ---
    ☞ There are times when it isn't displayed correctly according to the Audio file recording conditions.

? **Supreme does not take effect when it is turned ON.**
  ✔ Little high-frequency component.
    ☞ Supreme would not take effect with songs with little high-frequency component.
  ✔ Songs that have not been encoded at bit rates lower than 96 kbps (fs = 32k, 44.1 k, 48 kHz)or those that have been encoded at a variable bit rate cannot be decoded to reproduce their high-frequency components.
    ☞ ---

HD Radio source

? **No sound can be heard, or the volume is low.**
  ✔ The preset broadcast station is not transmitting in the mode that was set with <Receive mode Setting> (page 22).
    ☞ Please set <Receive mode Setting> to "AUTO".
  ✔ In digital AM broadcasting, receive mode switches between stereo and monaural too often.
    ☞ Receiving condition is bad or unstable. Stereo is chosen when receiving condition is good, and it switches to monaural when the condition becomes bad.
  ✔ HD Radio tuner is connected to KCA-S210A or other units.
    ☞ Connect the HD Radio tuner directly to the control unit.

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 ERR: 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: 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.

E-99: 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 "E-99" code does not disappear, consult your nearest service center.

HOLD: The protective circuit in the unit activates when the temperature inside the automatic disc changer exceeds 60℃ (140℉), stopping all operation.
⇨ Cool down the unit by opening the windows or turning on the air conditioner. As the temperature falls below 60℃ (140℉), the disc will start playing again.

LOAD: Discs are being exchanged in the Disc changer.

READING: The unit is reading the data on the disc.

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.

PROTECT: The speaker wire has a short-circuit or touches the chassis of the vehicle, and then the protection function is activated.
⇨ Wire or insulate the speaker cable properly and press the reset button.

NA FILE: An Audio file is played with a format that this unit can't support.
⇨ ----

COPY PRO: A copy-protected file is played.
⇨ ----

DEMO: The Demonstration mode has been selected.
⇨ The <Demonstration mode Setting> (page 23) is ON. Turn it OFF.

Specifications

Specifications subject to change without notice.

FM tuner section

Frequency range (200 kHz space)
: 87.9 MHz – 107.9 MHz
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 (±3.0 dB)
: 30 Hz – 15 kHz
Signal to Noise ratio (MONO)
: 70 dB
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)
: 28 dBµ (25 µV)

CD player section

Laser diode
: GaAlAs
Digital filter (D/A)
: 8 Times Over Sampling
D/A Converter
: 1 Bit
Spindle speed
KDC-MP2032/MP2032CR/MP232/MP202
: 1000 – 400 rpm (CLV 2times)
KDC-232MR
: 500 – 200 rpm (CLV)
Wow & Flutter
: Below Measurable Limit
Frequency response (±1 dB)
: 10 Hz – 20 kHz
Total harmonic distortion (1 kHz)
: 0.01 %
Signal to Noise ratio (1 kHz)
KDC-MP2032/MP2032CR/MP232/MP202
: 105 dB
KDC-232MR: 93 dB
Dynamic range
: 93 dB
MP3 decode
KDC-MP2032/MP2032CR/MP232/MP202
: Compliant with MPEG-1/2 Audio Layer-3
WMA decode
KDC-MP2032/MP2032CR/MP232/MP202
: Compliant with Windows Media Audio

Audio section

Maximum output power
KDC-MP2032/232MR
: 50 W x 4
KDC-MP2032CR/MP232/MP202
: 45 W x 4
Full Bandwidth Power (at less than 1% THD)
: 22 W x 4
Speaker impedance
: 4 - 8 Ω
Tone action
Bass : 100 Hz ±8 dB
Middle : 1 kHz ±8 dB
Treble : 10 kHz ±8 dB
Preout level / Load (during disc play)
: 2000 mV/10 kΩ
Preout impedance
: ≤ 600 Ω

General

Operating voltage (11 – 16V allowable)
: 14.4 V
Current consumption
: 10 A
Installation Size (W x H x D)
: 182 x 53 x 155 mm
7-3/16 x 2-1/16 x 6-1/8 inch
Weight
: 3.1 lbs (1.40 kg)