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-MP4028/MP428/3028/328
Serial number ____________________
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**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 NO.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 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.

Attach the panel while you are on the vehicle
The panel lock arm will be appeared when the panel is removed. Therefore, the panel must be attached during the driving.

⚠️ 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 set the removed faceplate or 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 one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- Do not apply excessive force to the open faceplate or place objects on it. Doing so will cause damage or breakdown.
- 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. 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.

LX-bus connection
The LX AMP and the sensor unit cannot be connected simultaneously.
You must connect any of them at a time.

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.

The "AAC" logo is a trademark of Dolby Laboratories.

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

- 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.
- Press the reset button if the disc auto changer fails to operate correctly. Normal operation should be restored.

- We recommend the use of <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 represent something impossible in actual operation.

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

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

Cleaning the Faceplate Terminals
If the terminals on the unit or faceplate get dirty, wipe them with a dry, soft 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 24).

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.

About DAB Tuner control
Refer to [A] group on the Instruction manual of DAB Tuner KTC-9090DAB (optional accessory) for the control method of DAB Tuner function.
However, the following control methods of the function for this unit may be differed from the Instruction manual; therefore, refer to the following supplemental instruction.

<Auto Ensemble Memory Entry>
1. Select the preset band for Auto Ensemble Memory Entry.
2. Press the [AME] button for at least 2 seconds. Open Auto Ensemble Memory Entry.
After storing in the memory finishes, the number of the pre-set buttons and the ensemble label are displayed.

<Searching by programme type and language> and <Languages to be displayed>
At the operation to press [DISP] button, press [AUTO] button.
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.

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 discs 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.

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.
About AAC, MP3 and WMA (KDC-MP4028/KDC-MP428)

The playable AAC/MP3/WMA file (hereafter called Audio file) and the media format has the following limitation. The Audio file, which is out of the specification, may not able to be played normally, or the file and folder names may not be displayed correctly.

**Playable Audio file**
- AAC, MP3, WMA: KDC-MP4028/KDC-MP428
  - Attach the correct extension for the Audio file (AAC: "M4A", MP3: "MP3", WMA: "WMA")
  - Do not attach the extensions to the other files besides the Audio file. If it is attached, the file, which is not the Audio file, will be played and outputs the loud noise, and then the speaker will be damaged.
  - The files with copy protection cannot be played.

**Playable AAC file**
- "m4a" file encoded by AAC-LC format. Refer to http://www.kenwood.mediamanager.jp for the details.

**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 with quick format cannot be used.)
  - When recording to the media up to the maximum capacity at once, the writing soft 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 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.X

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 is played in the order which is written by writing soft. 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 \n1\ play.
  - \n2\, \n3\, \n4\, \n5\...

- File search
  - Forward file search during \n3\ play.
  - Push the Control knob to [►►] \n4\...

- Folder search
  - Forward folder search during \n2\ play.
  - Push the Control knob to [FM] \n2\...

- Folder select
  - When it is set to directory \n1\, skip to the folder before the same level by folder select.
  - Push the Control knob to [◄◄] \n2\...
  - When it is set to directory \n3\, makes the level up by folder select.
  - Push the Control knob to [AM] \n3\...
General features

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.

<table>
<thead>
<tr>
<th>Source required</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIRIUS tuner (Optional accessory)</td>
<td>&quot;SIRIUS&quot;</td>
</tr>
<tr>
<td>Tuner or HD Radio (Optional accessory)</td>
<td>&quot;TUNER&quot; or &quot;HD RADIO&quot;</td>
</tr>
<tr>
<td>CD</td>
<td>&quot;CD&quot;</td>
</tr>
<tr>
<td>External disc (Optional accessory)</td>
<td>&quot;CD CH&quot;</td>
</tr>
<tr>
<td>Auxiliary input*</td>
<td>&quot;AUX&quot;</td>
</tr>
<tr>
<td>Auxiliary input (Optional accessory)</td>
<td>&quot;AUX EXT&quot;</td>
</tr>
<tr>
<td>Standby (Illumination only mode)</td>
<td>&quot;STANDBY&quot;</td>
</tr>
</tbody>
</table>

- * Function of the KDC-MP428

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 the button is pressed, the Attenuator turns ON and 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.
   When the button is pressed once, the current sound setting is displayed.
   Each time the button is pressed, the sound setting switches.

<table>
<thead>
<tr>
<th>Sound setting</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural</td>
<td>&quot;NATURAL&quot;</td>
</tr>
<tr>
<td>User memory*</td>
<td>&quot;USER&quot;</td>
</tr>
<tr>
<td>Rock</td>
<td>&quot;ROCK&quot;</td>
</tr>
<tr>
<td>Pops</td>
<td>&quot;POPS&quot;</td>
</tr>
<tr>
<td>Easy</td>
<td>&quot;EASY&quot;</td>
</tr>
<tr>
<td>Top 40</td>
<td>&quot;TOP40&quot;</td>
</tr>
<tr>
<td>Jazz</td>
<td>&quot;JAZZ&quot;</td>
</tr>
</tbody>
</table>

Turn the [VOL] knob.

<table>
<thead>
<tr>
<th>Adjustment Item</th>
<th>Display</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subwoofer level*1,2,3</td>
<td>&quot;SW L&quot;</td>
<td>-15 — +15</td>
</tr>
<tr>
<td>Bass level</td>
<td>&quot;BAS L&quot;</td>
<td>-8 — +8</td>
</tr>
<tr>
<td>Middle level</td>
<td>&quot;MID L&quot;</td>
<td>-8 — +8</td>
</tr>
<tr>
<td>Treble level</td>
<td>&quot;TRE L&quot;</td>
<td>-8 — +8</td>
</tr>
<tr>
<td>Balance</td>
<td>&quot;BAL&quot;</td>
<td>Left 15 — Right 15</td>
</tr>
<tr>
<td>Fader</td>
<td>&quot;FAD&quot;</td>
<td>Rear 15 — Front 15</td>
</tr>
</tbody>
</table>

- *1 You can control this item when <Switching preout> (page 22) is set to "SWPRE SW". (KDC-MP428 only)
- *2 You can control this item when <Subwoofer Output> (page 11) is set to "SW ON".
- *3 Function of the KDC-MP4028/KDC-MP428

5 Exit Audio Control mode
   Press any button.
   Press the button which is not [VOL], knob and [ATT] button.

Audio Control

1 Select the source for adjustment
   Press the [SRC] button.

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

3 Select the Audio item for adjustment
   Press the [VOL] knob.
   Each time the knob is pressed, the items that can be adjusted switch as shown below.

4 Adjust the Audio item
General features

Audio Setup
Setting the Sound system, such as Cross over Network.

1 Select the source for adjustment
Press the [SRC] button.

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

3 Select the Audio Setup item for adjustment
Press the [VOL] knob.
Each time the knob is pressed, the items that can be adjusted switch as shown below.

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

<table>
<thead>
<tr>
<th>Adjustment Item</th>
<th>Display</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front High Pass Filter 1/2</td>
<td>&quot;HPF&quot;</td>
<td>Through/80/100/120/150 Hz</td>
</tr>
<tr>
<td>Rear High Pass Filter 2/3</td>
<td>&quot;HPR&quot;</td>
<td>Through/80/100/120/150 Hz</td>
</tr>
<tr>
<td>Low Pass Filter 1/2/3</td>
<td>&quot;LPF&quot;</td>
<td>60/80/120/Through Hz</td>
</tr>
<tr>
<td>Subwoofer Phase 1/2/3</td>
<td>&quot;PHAS&quot;</td>
<td>Reverse (180°)/Normal (0°)</td>
</tr>
<tr>
<td>Volume offset</td>
<td>&quot;V-OFF&quot;</td>
<td>-8 --- ±0</td>
</tr>
<tr>
<td>Loudness</td>
<td>&quot;LOUD&quot;</td>
<td>ON/OFF</td>
</tr>
</tbody>
</table>

5 Exit Audio Setup mode
Press [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 the knob is turned, the setting switches as shown below.

<table>
<thead>
<tr>
<th>Speaker type</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>&quot;SP OFF&quot;</td>
</tr>
<tr>
<td>For 5 &amp; 4 in. speaker</td>
<td>&quot;SP 5/4&quot;</td>
</tr>
<tr>
<td>For 6 &amp; 8 in. speaker</td>
<td>&quot;SP 6/8&quot;</td>
</tr>
<tr>
<td>For the OEM speaker</td>
<td>&quot;SP OEM&quot;</td>
</tr>
</tbody>
</table>

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

Switching Display
Switching 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 to [◄◄] or [►►].

In Tuner source

<table>
<thead>
<tr>
<th>Information</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>&quot;FREQ&quot;</td>
</tr>
<tr>
<td>Clock</td>
<td>&quot;CLOCK&quot;</td>
</tr>
</tbody>
</table>

In CD & External disc source

<table>
<thead>
<tr>
<th>Information</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disc title* (In External disc source or KDC-MP4028/KDC-MP428 internal disc source)</td>
<td>&quot;D-TITLE&quot;</td>
</tr>
<tr>
<td>Track title* (In External disc source or KDC-MP4028/KDC-MP428 internal disc source)</td>
<td>&quot;T-TITLE&quot;</td>
</tr>
<tr>
<td>Track number &amp; Play time</td>
<td>&quot;P-TIME&quot;</td>
</tr>
<tr>
<td>Clock</td>
<td>&quot;CLOCK&quot;</td>
</tr>
</tbody>
</table>
In Audio file source  
(KDC-MP4028/KDC-MP428)

<table>
<thead>
<tr>
<th>Information</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Song title &amp; Artist name*</td>
<td>&quot;TITLE&quot;</td>
</tr>
<tr>
<td>Album name &amp; Artist name*</td>
<td>&quot;ALBUM&quot;</td>
</tr>
<tr>
<td>Folder name</td>
<td>&quot;FOLDER&quot;</td>
</tr>
<tr>
<td>File name</td>
<td>&quot;FILE&quot;</td>
</tr>
<tr>
<td>Track number &amp; Play time</td>
<td>&quot;P.TIME&quot;</td>
</tr>
<tr>
<td>Clock</td>
<td>&quot;CLOCK&quot;</td>
</tr>
</tbody>
</table>

In HD Radio source

<table>
<thead>
<tr>
<th>Information</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Station name*</td>
<td>&quot;ST NAME&quot;</td>
</tr>
<tr>
<td>Song title*/ Artist name*/ Album name*/ Genre*</td>
<td>&quot;TITLE&quot;</td>
</tr>
<tr>
<td>Frequency</td>
<td>&quot;FREQ&quot;</td>
</tr>
<tr>
<td>Clock</td>
<td>&quot;CLOCK&quot;</td>
</tr>
</tbody>
</table>

In Auxiliary input source

<table>
<thead>
<tr>
<th>Information</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auxiliary input name</td>
<td>&quot;SRC NAME&quot;</td>
</tr>
<tr>
<td>Clock</td>
<td>&quot;CLOCK&quot;</td>
</tr>
</tbody>
</table>

3 Exit Switching Display mode
Press the Control knob.

- *If the contents of the information cannot be displayed, Play time or Frequency is displayed.
- When the clock display is selected, the display setting of each source will be switched to the clock display. (KDC-3028/KDC-328 only)
- Album name cannot be displayed in WMA file.
- Song title, Artist name, and Album name cannot be displayed in AAC file.

Function of the KDC-MP4028/KDC-MP428

Subwoofer Output

Turning the Subwoofer output ON or OFF.

Hold down on [AM] of the Control knob for at least 1 second.
Each time the button is pressed, Subwoofer output switches ON and OFF.
When it's ON, "SW ON" is displayed.

- You can control this function when <Switching preout> (page 22) is set to "SWPRE SW". (KDC-MP428 only)

Function of the KDC-3028/KDC-328

Dimmer Control

You can change the unit's display to dimmer.

Press the [DIM] button for at least 1 second.
Each time the button is pressed for 1 second, the Dimmer control turns ON and OFF.
When it's ON, "DIM ON" is displayed.
**General features**

**Theft Deterrent Faceplate**
The faceplate of the unit can be detached and taken with you, helping to deter theft.

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

![Image of faceplate being removed](image)

---

**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.

---

**Reattaching the Faceplate**
1. **Align the shaft on the unit with the depression on the faceplate.**

![Image of faceplate being reattached](image)

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

---

**Tuning**

Selecting the station.

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

2 **Select the band**
   Push the Control knob to [FM] or [AM].
   Each time the knob is pushed to [FM], it switches between the FM1, FM2, and FM3 bands.

3 **Tune up or down band**
   Push the Control knob to [◄ ►] or [►►►].

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

---

**Tuning Mode**

Choose the tuning mode.

Press the [AUTO] button.
Each time the button is pressed, the Tuning mode switches as shown below.

<table>
<thead>
<tr>
<th>Tuning mode</th>
<th>Display</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto seek</td>
<td>&quot;AUTO 1&quot;</td>
<td>Automatic search for a station.</td>
</tr>
<tr>
<td>Preset station seek</td>
<td>&quot;AUTO 2&quot;</td>
<td>Search in order of the stations in the Preset memory.</td>
</tr>
<tr>
<td>Manual</td>
<td>&quot;MANUAL&quot;</td>
<td>Normal manual tuning control.</td>
</tr>
</tbody>
</table>
**Tuner features**

Function of the KDC-MP4028/KDC-MP428
Function of remote

**Direct Access Tuning**

Entering the frequency and tuning.

1. **Select the band**
   Press the [FM] or [AM] button.

2. **Enter Direct Access Tuning mode**
   Press the [DIRECT] button on the remote.
   "- - - -" is displayed.

3. **Enter the frequency**
   Press the number buttons on the remote.
   
   **Example:**
   
<table>
<thead>
<tr>
<th>Desired frequency</th>
<th>Press button</th>
</tr>
</thead>
<tbody>
<tr>
<td>92.1 MHz (FM)</td>
<td>[0], [9], [2], [1]</td>
</tr>
<tr>
<td>810 kHz (AM)</td>
<td>[0], [8], [1], [0]</td>
</tr>
</tbody>
</table>

**Canceling Direct Access Tuning**

Press the [DIRECT] button on the remote.

**Preset Tuning**

Calling up the stations in the memory.

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

2. **Call up the station**
   Push the Control knob to [◄◄] or [►►].

3. **Put the frequency in the memory**
   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 to [FM] or [AM].

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

---

14 | English
CD/Audio file/External disc control features

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

Press the [SRC] button.
Select the display for the disc player you want.

Display examples:

<table>
<thead>
<tr>
<th>Display</th>
<th>Disc player</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;CD CH&quot;</td>
<td>CD changer</td>
</tr>
<tr>
<td>&quot;MD CH&quot;</td>
<td>MD changer</td>
</tr>
</tbody>
</table>

Pause and play
Press the Control knob.
Each time the knob 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.
CD/Audio file/External disc control features

Playing CD & Audio file

**When there is no disc inserted**
1. Drop open the faceplate
   Press the Release button.
2. Insert a disc.
3. Push the faceplate on the left side, and return it to its former position.

⚠️ When the faceplate has been dropped open, it might interfere with the shift lever or something else. If this happens, pay attention to safety and move the shift lever or take an appropriate action, then operate the unit.
   - Do not use the unit with the faceplate in the open condition. If it’s used in the open position dust can enter the inside part and cause damage.

民意 Refer to <About AAC, MP3 and WMA> (page7) for the Audio file by models which can be played.
   - 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 Control knob.
Each time the knob is pressed, it pauses and plays.

**Eject the disc**
1. Drop open the faceplate
   Press the Release button.
2. Eject the disc
   Press the [▲] button.
   ![Eject the disc](image)

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

Fast Forwarding and Reversing

**Fast Forwarding**
Hold down on [►►] of the Control knob.
Release your finger to play the disc at that point.

**Reversing**
Hold down on [◄◄] of the Control knob.
Release your finger to play the disc at that point.

�能 The sound is not output while the Audio file is being searched.
   - Fast Forwarding and Reversing cannot be done while AAC file is being played.

Track/File Search

Searching for a song on the disc or in the Audio file folder.
Push the Control knob to [◄◄] or [►►].

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 to [FM] or [AM].

Function of remote

**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.

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

**Canceling Direct Track/File Search**
Press the [►II] button.
**Function of disc changers with remote**

**Direct Disc Search**
Doing Disc Search by entering the disc number.

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

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

**Canceling Direct Disc Search**
Press the [ ►|◄ ] button.

- Input '0' to select disc 10.

---

**Track/File/Disc/Folder Repeat**
Replaying the song, disc in the Disc changer or Audio file folder you're listening to.

Press the [REP] button.
Each time the button is pressed, the Repeat Play switches as shown below.

**In CD & External disc source**

<table>
<thead>
<tr>
<th>Repeat play</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track Repeat</td>
<td>&quot;TRAC REP&quot;</td>
</tr>
<tr>
<td>Disc Repeat (in Disc Changer)</td>
<td>&quot;DISC REP&quot;</td>
</tr>
<tr>
<td>OFF</td>
<td>&quot;REP OFF&quot;</td>
</tr>
</tbody>
</table>

**In Audio file**

<table>
<thead>
<tr>
<th>Repeat play</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>File Repeat</td>
<td>&quot;FILE REP&quot;</td>
</tr>
<tr>
<td>Folder Repeat</td>
<td>&quot;FOLD REP&quot;</td>
</tr>
<tr>
<td>OFF</td>
<td>&quot;REP OFF&quot;</td>
</tr>
</tbody>
</table>

---

**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 listen to.

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

2 **Release it when the song you want to listen to 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 the button is pressed, Random Play turns ON and OFF.
When it’s ON, "DISC RDM"/"FOLD RDM" is displayed.

- When the Control knob is pushed to [ ►|◄ ], the next random song starts.

---

**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 the button is pressed, the Magazine Random Play turns ON and OFF.
When it’s ON, "MGZN RDM" is displayed.

- When the Control knob is pushed to [ ►|◄ ], the next random song starts.
CD/Audio file/External disc control features

Function of the KDC-MP4028/KDC-MP428
Function of Audio file

Folder Select

Quickly selecting the folder you want to listen to.

1 Enter Folder Select mode
   Press the [F.SEL] button.
   “F-SELECT” 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 to [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 to [◄◄] 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

3 Decide the folder to play
   Press the Control knob.
   The Folder Select mode releases, and the Audio file in the folder being displayed is played.

   Canceling the Folder Select mode
   Press the [F.SEL] button.

Text/Title Scroll

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

   Hold down on [FM] of the Control knob for at least 1 second.
HD Radio control features

Tuning
Selecting the station.

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

2 Select the HF band
Push the Control knob to [FM].
Each time the knob is pushed to [FM], it switches between the HF1, HF2, and HF3 bands.

Select the HA band
Push the Control knob to [AM].

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

• When you connect an HD Radio, Tuner features of the unit are disabled and switched 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 <Tuning Mode>, <Station Preset Memory>, <Auto Memory Entry>, and <Preset Tuning> of Tuner features. Refer to Tuner features for how to use the functions.
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
Push the Control knob to [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 to [◄◄] or [►►].
Example: When "BEEP" is selected, each time the knob is pushed 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.

In Standby mode

Security Code

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

- When the Security Code function is activated, the code can’t be changed and the function can’t be released.
Note, the Security Code can be set as the 4 digit number of your choice.
1 Enter Standby
   Press the [SRC] button.
   Select the “STANDBY” 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 Control knob for at least 1 second.
   When "ENTER" is displayed, "CODE" is displayed.

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

5 Select the Security Code numbers
   Push the Control knob to [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 second.
   When "RE-ENTER" is displayed, "CODE" is displayed.

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

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

Press the Reset button and when it's removed from the battery power source
1 Turn the power ON.
2 Do the step 4 through 7 operation, and enter the Security Code.
   "APPROVED" is displayed.
   The unit can be used.

In Standby mode

**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 to [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 to [FM] or [AM].

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

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

In Standby mode

**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-MP4028/KDC-MP428

In Standby mode

**Dimmer**

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

**Display**  **Setting**
--- | ---
"DIM ON" | The display dims.
"DIM OFF" | The display doesn’t dim.
**Menu System**

**Function of the KDC-MP428**

**In Standby mode**

**Switching preout**

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

<table>
<thead>
<tr>
<th>Display</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;SWPRE R&quot;</td>
<td>Rear preout.</td>
</tr>
<tr>
<td>&quot;SWPRE SW&quot;</td>
<td>Subwoofer preout.</td>
</tr>
</tbody>
</table>

**Function of the KDC-MP4028/KDC-MP428**

**In Standby mode**

**Built-in Amp Setting**

Built-in amplifier is controlled. Turning OFF this control enhances the preout quality.

<table>
<thead>
<tr>
<th>Display</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;AMP ON&quot;</td>
<td>The built-in amplifier activates.</td>
</tr>
<tr>
<td>&quot;AMP OFF&quot;</td>
<td>The built-in amplifier deactivates.</td>
</tr>
</tbody>
</table>

**In FM reception**

**CRSC (Clean Reception System Circuit)**

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

<table>
<thead>
<tr>
<th>Display</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;CRSC ON&quot;</td>
<td>The CRSC is ON.</td>
</tr>
<tr>
<td>&quot;CRSC OFF&quot;</td>
<td>The CRSC is OFF.</td>
</tr>
</tbody>
</table>

- 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.

**In HD Radio mode**

**Receive mode Setting**

Sets the receive mode.

---

1. **Select the Receive mode**
   Push the Control knob to [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 to [FM] or [AM]. Each time the knob is pushed, the Receive mode switches as shown below.

<table>
<thead>
<tr>
<th>Receive mode</th>
<th>Display</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto mode</td>
<td>&quot;AUTO&quot;</td>
<td>Analog broadcasts and digital broadcasts will be switched automatically. When both are being transmitted, the digital broadcast will have priority.</td>
</tr>
<tr>
<td>Digital</td>
<td>&quot;DIGITAL&quot;</td>
<td>Digital broadcasts only.</td>
</tr>
<tr>
<td>Analog</td>
<td>&quot;ANALOG&quot;</td>
<td>Analog broadcasts only.</td>
</tr>
</tbody>
</table>

4. **Exit Receive mode**
   Press the [MENU] button.

- Even if the "AUTO" setting, and analog broadcast will be received during the reception of a ball game mode (non-delayed broadcast program).

**In SIRIUS tuner source**

**SIRIUS ID (ESN) display**

Displaying the SIRIUS ID (Electronic Serial Number)

<table>
<thead>
<tr>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;ESN = ***********</td>
</tr>
</tbody>
</table>

- Serial & SIRIUS ID (ESN)
  It is especially important to retain the unit serial number and the electronic SIRIUS identification number for service activation and potential future service changes.
**Auxiliary Input Display Setting**

For selecting the display when switched to Auxiliary input source.

1 **Select Auxiliary input source**
   Press the [SRC] button.
   Select the "AUX"/"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 to 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 presently selected Auxiliary input display is displayed.

5 **Select the Auxiliary input display**
   Push the Control knob to [◄◄] or [►►].
   Each time the button is pressed, the display switches as shown below:
   - "AUX"/"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.
   - The Auxiliary Input Display can be set only when the built-in auxiliary input or the auxiliary input of optional KCA-S210A is used.

**Function of the KDC-MP428**

**In Standby mode**

**Built-in Auxiliary input Setting**

Set the Built-in Auxiliary Input function.

<table>
<thead>
<tr>
<th>Display</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;AUX OFF&quot;</td>
<td>When selecting the source there's no Auxiliary Input.</td>
</tr>
<tr>
<td>&quot;AUX ON&quot;</td>
<td>When selecting the source there's Auxiliary Input.</td>
</tr>
</tbody>
</table>

**Function of the KDC-MP4028/KDC-MP428**

**In Standby mode**

**CD Read Setting**

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

<table>
<thead>
<tr>
<th>Display</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;CD READ1&quot;</td>
<td>Play CD and Audio file.</td>
</tr>
<tr>
<td>&quot;CD READ2&quot;</td>
<td>Play CD by force.</td>
</tr>
</tbody>
</table>

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

**Text Scroll**

Setting the displayed text scroll.

<table>
<thead>
<tr>
<th>Display</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;SCL AUTO&quot;</td>
<td>Repeats scroll.</td>
</tr>
<tr>
<td>&quot;SCL MANU&quot;</td>
<td>Scrolls when the display changes.</td>
</tr>
</tbody>
</table>
Menu system

In Standby mode

Demonstration mode Setting

Sets the demonstration mode.

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

2. Set the Demonstration mode
   Press the Control knob for at least 2 seconds.
   Each time the knob is pressed at least 2 seconds,
   the Demonstration mode switches as shown below.

<table>
<thead>
<tr>
<th>Display</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;DEMO ON&quot;</td>
<td>The Demonstration mode function is ON.</td>
</tr>
<tr>
<td>&quot;DEMO OFF&quot;</td>
<td>Exit Demonstration mode (Normal mode).</td>
</tr>
</tbody>
</table>
Loading and Replacing the battery

Use two "AA"-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.

WARNING

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

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

Basic operations

[VOL] buttons
Adjusting the volume.

[SRC] button
Each time the button is pressed, the source switches. For the source switching order refer to <Selecting the Source> (page 8).

[ATT] button
Turning the volume down quickly. When it is pressed again, it returns to the previous level.
Basic Operations of remote

Audio Control

[AUD] button
Select the Audio item for adjustment.

[VOL] buttons
Adjust the Audio item.

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

In Tuner source

[FM]/[AM] buttons
Select the band.
Each time the [FM] button is pressed, it switches between the FM1, FM2, and FM3 bands.

[◄◄]/[►►] buttons
Tune up or down band.

[0]—[9] buttons

[DIRECT]/[OK] button (KDC-MP4028/KDC-MP428)
Enters and cancels the <Direct Access Tuning> (page 14) mode.

In SIRIUS tuner source

[FM] button
Select the preset band.

[◄◄]/[►►] buttons
Search up or down channel.

[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
Select the HF band.
Each time the [FM] button is pressed, it switches between the HF1, HF2, and HF3 bands.

[AM] button
Select the HA band.

[◄◄]/[►►] buttons
Tune up or down band.

[0]—[9] buttons

In Disc source

[◄◄]/[►►] buttons
Doing track/file forward and backward.

[+]/* buttons
Doing disc/folder forward and backward.

[►►] button
Each time the button is pressed, the song pauses and plays.

[0]—[9] buttons
When in <Direct Track/File Search> (page 16) and <Direct Disc Search> (page 17), enter the track/file/disc number.
**Accessories/ Installation Procedure**

**Accessories**

1. Make the proper input and output wire connections for each unit.
2. Connect the speaker wires of the wiring harness.
3. Connect the wiring harness wires in the following order: ground, battery, ignition.
4. Connect the wiring harness connector to the unit.
5. Install the unit in your car.
6. Reconnect the battery.
7. 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.

![Image](32x26 to 408x582)

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 chassis 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.

**Installation Procedure**

1. To prevent a short circuit, remove the key from the ignition and disconnect the battery.
Connecting Wires to Terminals (KDC-MP4028/KDC-MP428)

Front left output (White)
Front right output (Red)
Rear left output (White)/Sub Woofer left output (White) (KDC-MP428 only)
Rear right output (Red)/Sub Woofer right output (Red) (KDC-MP428 only)

Fuse (10A)
To connect these leads, refer to the relevant instruction manuals.

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

When using the optional power amplifier, connect to its power control terminal.

Depending on what antenna you are using, connect either to the control terminal of the motor antenna, or to the power terminal for the booster amplifier of the film-type antenna.

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

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

To car light control switch

To front left speaker
- White/Black
- White

To front right speaker
- Gray/Black
- Gray

To rear left speaker
- Green/Black
- Green

To rear right speaker
- Purple/Black
- Purple

Ignition key switch
Car fuse box

Car fuse box (Main fuse)
Battery

Power control wire (Blue/White)
Motor antenna control wire (Blue)
TEL mute wire (Brown)
Dimmer control wire (Orange/White)
ILLUM

Wiring harness (Accessory(1))

To KENWOOD disc changer/External optional accessory

ACC
Ignition wire (Red)
Battery wire (Yellow)

Ground wire (Black) (To car chassis)
Connecting Wires to Terminals (KDC-3028/KDC-328)

When using the optional power amplifier, connect to its power control terminal.

Depending on what antenna you are using, connect either to the control terminal of the motor antenna, or to the power terminal for the booster amplifier of the film-type antenna.

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

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

- Rear left output (White)
- Rear right output (Red)
- Front left output (White) (KDC-3028 only)
- Front right output (Red) (KDC-3028 only)

Fuse (10A)

To KENWOOD disc changer/ External optional accessory

FM/AM antenna input

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

Wiring harness (Accessory①)

Power control wire (Blue/White)

Motor antenna control wire (Blue)

TEL mute wire (Brown)

P.CONT

ANT.CONT

MUTE

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

To front left speaker
- White/Black
- White

To front right speaker
- Gray/Black
- Gray

To rear left speaker
- Green/Black
- Green

To rear right speaker
- Purple/Black
- Purple

Ignition key switch

Car fuse box

ACC

Ignition wire (Red)

Battery wire (Yellow)

Ground wire (Black) (To car chassis)

Car fuse box (Main fuse)
**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)

焊接

- 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 32) 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: Toyota cars
- N: Nissan cars

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.

1. Refer to the section '<Removing the hard rubber frame>' (page 32) and then remove the hard rubber frame.
2. Drop open the faceplate by pressing the Release button.
3. Tighten the stepped screw (Accessory (6)) in the hole shown on the diagram.

4. Tighten the screw (Ø2 × 5 mm) (Accessory (6) and bracket (Accessory (7)) in the hole shown on the diagram.

5. Tighten the screw (Ø2 × 5 mm) (Accessory (6) and bracket (Accessory (8)) in the hole shown on the diagram.

⚠️ Never insert the screws 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.

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Accessory (6)  

Accessory (7)  

Accessory (5)  

Accessory (6)  

Accessories 1  

Accessories 2
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

1 Refer to the section <Removing the hard rubber frame> (page 32) and then remove the hard rubber frame.

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

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

- Screw (M4X8) (commercially available)

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.
  ❸ After checking for short circuits in the wires, replace the fuse with one with the same rating.
  ✓ The speaker wire has a short-circuit or touches the chassis of the vehicle, and then the protection function is activated.
  ❸ Wire or insulate the speaker cable properly and press the reset button.

? There's a source you can't switch.
  ✓ There's no media inserted.
  ❸ 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.
  ❸ 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.
  ❸ 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.
  ❸ 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.
  ❸ 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.
  ❸ 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.
  ❸ Center the fader and balance settings.
  ✓ The input/output wires or wiring harness are connected incorrectly.
  ❸ 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.
  ❸ Turn up the Volume offset, referring to the section on <Audio Setup> (page 10).
  ✓ The <Built-in Amp Setting> (page 22) is OFF.
  ❸ Turn it ON.

? The sound quality is poor or distorted.
  ✓ One of the speaker wires is being pinched by a screw in the car.
  ❸ Check the speaker wiring.
  ✓ The speakers are not wired correctly.
  ❸ 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.
  ❸ The Touch Sensor Tone can't be output from the preout jack.
  ✓ The <Touch Sensor Tone> (page 21) is OFF.
  ❸ Turn it ON.

? The Dimmer function doesn't work.
  ✓ The Dimmer wire isn't connected correctly.
  ❸ Check the Dimmer wire connection (page 28).

**Tuner source**

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

? The desired frequency can't be entered with the Direct Access Tuning.
  ✓ A station that can't be received is being entered.
  ❸ Enter a station that can be received.
  ✓ You're trying to enter a frequency with a 0.01 MHz unit.
  ❸ What can be designated in the FM band is to 0.1 MHz.
Troubleshooting Guide

Disc source

? “AUX” 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.

? 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 ○ 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 ○ 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.

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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
</table>
| 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°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. |

### LOAD: Discs are being exchanged in the Disc changer.

### 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.

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

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

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*English | 35*
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-MP4028/KDC-MP428: 1000 – 400 rpm (CLV 2times)
  - KDC-3028/KDC-328: 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-MP4028/KDC-MP428: 105 dB
  - KDC-3028/KDC-328: 93 dB
- Dynamic range : 93 dB
- Channel separation KDC-MP4028/KDC-MP428: 96 dB
  - KDC-3028/KDC-328: 85 dB
- MP3 decode (KDC-MP4028/KDC-MP428) : Compliant with MPEG-1/2 Audio Layer-3
  - WMA decode (KDC-MP4028/KDC-MP428) : Compliant with Windows Media Audio
  - AAC decode (KDC-MP4028/KDC-MP428) : AAC-LC "m4a" files

**Audio section**
- Maximum output power : 50 W x 4
- Full Bandwidth Power (at less than 1% THD) : 22 W x 4
- Tone action
  - Bass : 100 Hz ±10 dB
  - Middle : 1 kHz ±10 dB
  - Treble : 10 kHz ±10 dB
- Preout level / Load (during disc play)
  - KDC-MP4028: 4000 mV/10 kΩ
  - KDC-MP428/KDC-3028/KDC-328: 2000 mV/10 kΩ
- Preout impedance : ≤ 600 Ω

**Auxiliary input (KDC-MP428)**
- Frequency response (±1 dB) : 20 Hz – 20 kHz
- Input Maximum Voltage : 1200 mV
- Input Impedance : 100 kΩ

**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 6-1/10 inch
- Weight : 2.64 lbs (1.20 kg)
ATTENTION
Before using this product for the first time
Demonstration function is set to ON as the original setting for this product. It is recommended that this feature is turned OFF at the time of installation or before initial use of the product. If the Demonstration mode is left in the ON position the display will change arbitrarily and the security code feature can not be accessed.

Setting the Demonstration function to be OFF
1. Enter Standby mode.
   Select "STANDBY"/"Standby" display by pressing [SRC] button.
2. Enter Menu mode.
   Press [MENU] button for at least 1 second until "MENU"/"Menu" is displayed.
3. Select Demonstration mode setting item.
   Push the Control knob to [FM] or [AM] to select "DEMO ON"/"DEMO Mode:ON" display.
4. Turn the Demonstration mode OFF.
   Press the Control knob (▷-II) for at least 2 seconds until "DEMO OFF"/"DEMO Mode:OFF" is displayed.

ATTENTION
Avant d’utiliser ce produit pour la première fois
La fonction de démonstration est activée en sortie d’usine. Il est recommandé de désactiver cette fonction au moment de l’installation de cet appareil ou avant sa première utilisation.
En effet, si le mode de démonstration reste activé, l’affichage risquera de changer de façon arbitraire et il ne sera pas possible d’accéder à la fonction de configuration du code de sécurité.
Déactivation de la fonction de démonstration
1. Entrez en mode de veille.
   Sélectionnez l’affichage "STANDBY"/"Standby" en appuyant sur la touche [SRC].
2. Entrez en mode menu.
   Appuyez sur la touche [MENU] pendant au moins 1 seconde jusqu’à ce que "MENU"/"Menu" s’affiche.
3. Sélectionnez l’élément du mode de démonstration à configurer.
   Placez la molette de commande sur [FM] ou [AM] pour afficher "DEMO ON"/"DEMO Mode:ON".
4. Désactivez le mode de démonstration.
   Appuyez sur la touche de commande (▷-II) pendant au moins 2 secondes jusqu’à ce que le message "DEMO OFF"/"DEMO Mode:OFF" s’affiche.

ATENCIÓN
Antes de utilizar esta unidad por primera vez
La función de demostración esta activada como configuración de origen para este producto. Se recomienda desactivar esta función en el momento de la instalación o antes del uso inicial del producto.
Si el modo de demostración se deja activado, la pantalla cambiará de modo arbitrario y no se podrá acceder a la función de código de seguridad.
Efectuar el ajuste de función de demostración desactivada
1. Introduzca el modo de espera.
   Seleccione la pantalla "STANDBY"/"Standby" pulsando el botón [SRC].
2. Introduzca el modo de menú.
   Pulse el botón [MENU] durante al menos 1 segundo hasta que se visualice "MENU"/"Menu".
3. Seleccione el ítem de configuración de modo de demostración.
   Mueva el mando de control a [FM] o [AM] para seleccionar la pantalla "DEMO ON"/"DEMO Mode:ON".
4. Desactive el modo de demostración.
   Presione el mando de control (▷-II) durante al menos 2 segundos hasta que se visualice "DEMO OFF"/"DEMO Mode:OFF". 
Attention:
This card is necessary to purchase a new panel in case of theft or damage.

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

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

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

Atención:
Esta tarjeta es necesaria para comprar el panel en el caso de que le haya sido robado o se haya estropeado.
This warranty will be honored only in the U.S.A.

KENWOOD LIMITED WARRANTY FOR CAR STEREO COMPONENTS

HOW LONG IS THE WARRANTY
Kenwood U.S.A. Corporation ("Kenwood") warrants this product for a period of one (1) year from the date of original purchase.

WHAT IS COVERED AND WHAT IS NOT COVERED
Except as specified below, this warranty covers all defects in material and workmanship in Kenwood car stereo components. The following are not covered by the warranty:
1. Any product not distributed in the U.S.A. by Kenwood or which is not purchased in the U.S.A. from an authorized Kenwood car stereo dealer or an automobile dealer, unless the product is purchased through the U.S.A Military Exchange Service.
2. Any product on which the serial number has been defaced, modified or removed.
3. Damage, deterioration or malfunction resulting from:
   a. Any shipment of the product (claims must be presented to the carrier).
   b. Installation or removal of the product.
   c. Accident, acts of nature, misuse, abuse, neglect, unauthorized product modification or failure to follow instructions supplied with the product.
   d. Repair or attempted repair by anyone not authorized by Kenwood.
   e. Any other cause which does not relate to a product defect.

WHO IS PROTECTED
This warranty is enforceable only by the original purchaser.

WHAT WE WILL PAY FOR
We will pay for all labor and material expenses for covered items. Payment of shipping charges is discussed in the next section of this warranty.

HOW TO OBTAIN WARRANTY SERVICE
If your KENWOOD product ever needs service:
1. Take or ship it to any KENWOOD Authorized Service Center in the U.S.A. along with & complete description of the problem. If you are uncertain as to whether a Service Center is authorized, please call 1-800-KENWOOD for the nearest Service Center. 1-800-536-9663.
2. Although you must pay any shipping charges if it is necessary to ship the product for warranty service, we will pay the return shipping charges if the repairs are covered by the warranty within the United States.
3. Whenever your units are taken or sent for warranty service, you must include a copy of the original dated sales receipt as proof of warranty coverage.

LIMITATION OF IMPLIED WARRANTIES
ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

EXCLUSION OF DAMAGES
KENWOOD'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT AT OUR OPTION. KENWOOD SHALL NOT BE LIABLE FOR:
1. INSTALLATION OR REMOVAL CHARGES, DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN KENWOOD CAR STEREO COMPONENTS, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, OR ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.
SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

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

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

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