



ENGLISH

# KW-R710 / KW-R510

CD RECEIVER

## INSTRUCTION MANUAL

JVCKENWOOD Corporation

Please read all instructions carefully before operation to obtain the best possible performance from the unit.



GET0948-001A [U]

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## How to read this manual

- Operations are explained mainly using buttons on the faceplate of KW-R710.
- [XX] indicates the selected items.
- (→ XX) indicates references are available on the stated page.

# BEFORE USE

## ▲ Warning

Do not operate any function that takes your attention away from safe driving.

## ▲ Caution

### Volume setting:

- Adjust the volume so that you can hear sounds outside the car to prevent accidents.
- Lower the volume before playing digital sources to avoid damaging the speakers by the sudden increase of the output level.

### General:

- Avoid using the USB device or iPod/iPhone if it might hinder safe driving.
- Make sure all important data has been backed up. We shall bear no responsibility for any loss of recorded data.
- Never put or leave any metallic objects (such as coins or metal tools) inside the unit, to prevent a short circuit.
- If a disc error occurs due to condensation on the laser lens, eject the disc and wait for the moisture to evaporate.

### Remote control (RM-RK52):

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

## Maintenance

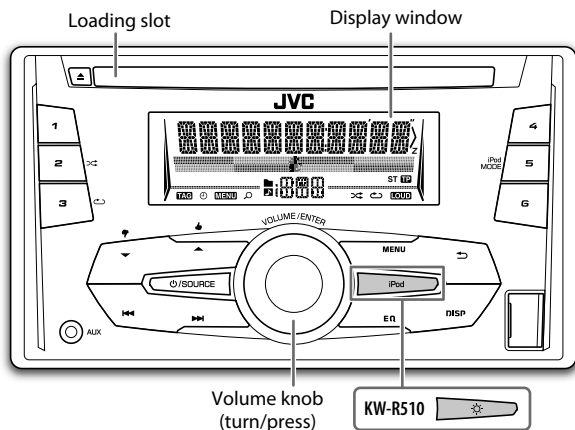
**Cleaning the unit:** Wipe off dirt on the faceplate with a dry silicone or soft cloth.

### Handling discs:

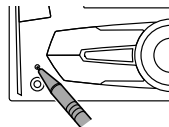
- Do not touch the recording surface of the disc.
- Do not stick tape etc. on the disc, or use a disc with tape stuck on it.
- Do not use any accessories for the disc.
- Clean from the center of the disc and move outward.
- Clean the disc with a dry silicone or soft cloth. Do not use any solvents.
-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

# BASICS

## Faceplate



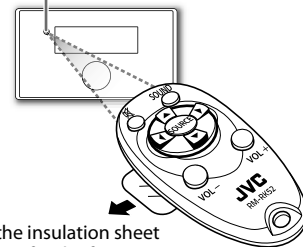
### How to reset



Your preset adjustments will also be erased.

### Remote control (RM-RK52)

Remote sensor  
(Do not expose to bright sunlight.)



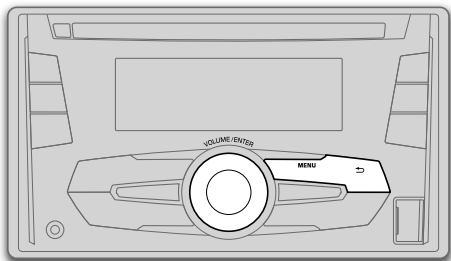
Pull out the insulation sheet when using for the first time.

### How to replace the battery



To	Do this (on the faceplate)	Do this (on the remote control)
Turn on the power	Press <b>⏻</b> /SOURCE. • Press and hold to turn off the power.	( not available )
Adjust the volume	Turn the volume knob.  Press the volume knob to mute the sound or pause playback. • Press again to cancel.	Press <b>VOL +</b> or <b>VOL -</b> .  Press <b>M</b> to mute the sound or pause playback. • Press again to cancel.
Select a source	• Press <b>⏻</b> /SOURCE repeatedly. • Press <b>⏻</b> /SOURCE, then turn the volume knob within 2 seconds.	Press <b>SOURCE</b> repeatedly.
Change the display information	Press <b>DISP</b> repeatedly. (→ 13) • Press and hold to scroll the current display information.	( not available )

# GETTING STARTED



## 1 Cancel the demonstration

- 1 Press and hold **MENU**.
- 2 Turn the volume knob to select [DEMO], then press the knob.
- 3 Turn the volume knob to select [DEMO OFF], then press the knob.
- 4 Press **MENU** to exit.

## 2 Set the clock

- 1 Press and hold **MENU**.
- 2 Turn the volume knob to select [CLOCK], then press the knob.
- 3 Turn the volume knob to select [CLOCK SET], then press the knob.
- 4 Turn the volume knob to make the settings, then press the knob.  
Day → Hour → Minute
- 5 Turn the volume knob to select [24H/ 12H], then press the knob.
- 6 Turn the volume knob to select [12 HOUR] or [24 HOUR], then press the knob.
- 7 Press **MENU** to exit.

## 3 Set the basic settings

- 1 Press and hold **MENU**.
- 2 Turn the volume knob to make a selection (see the following table), then press the knob.
- 3 Press **MENU** to exit.

To return to the previous setting item or hierarchy, press **↵**.

Default: **XX**

### CLOCK

**CLOCK ADJ** **AUTO**: The clock time is automatically set using the Clock Time (CT) data in FM Radio Data System signal. ; **OFF**: Cancels.

**CLOCK DISP** **ON**: The clock time is shown on the display even when the unit is turned off. ; **OFF**: Cancels.

### SETTINGS

**BEEP** **ON**: Activates the keypress tone. ; **OFF**: Deactivates.

### SRC SELECT

**AM\*** **ON**: Enables AM in source selection. ; **OFF**: Disables.

**SW1\*** **ON**: Enables SW1 in source selection. ; **OFF**: Disables.

**SW2\*** **ON**: Enables SW2 in source selection. ; **OFF**: Disables.

**PANDORA\*** (For KW-R710)  
**ON**: Enables PANDORA in source selection. ; **OFF**: Disables.

**AUX\*** **ON**: Enables AUX in source selection. ; **OFF**: Disables. ; **BT ADAPTER**: Select when the KS-BTA100 Bluetooth adapter is connected to the auxiliary input jack (→ 8). The source name will change to BT AUDIO.

### F/W UPDATE

#### SYSTEM

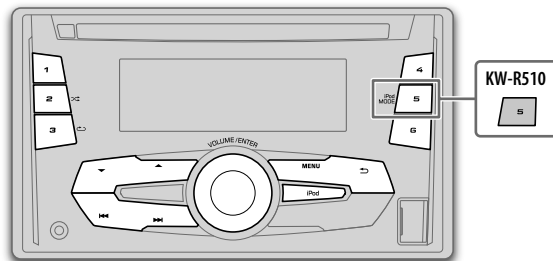
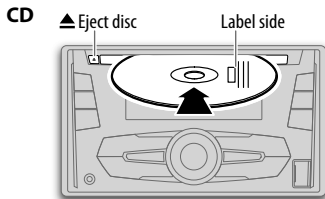
**F/W xxxx** **YES**: Starts upgrading the firmware. ; **NO**: Cancels (upgrading is not activated).  
For details on how to update the firmware, see:  
<<http://www.jvc.net/cs/car/>>.

\* Not displayed when the corresponding source is selected.

# CD / USB / iPod

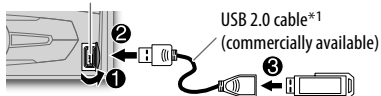
## Start playback

The source changes automatically and playback starts.



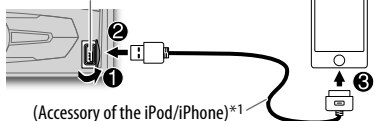
## USB

USB input terminal



## iPod/iPhone (for KW-R710)

USB input terminal



- You can also change the source from the other source to iPod by pressing **iPod**.

Press **5 iPod MODE** repeatedly to select the control mode ([**HEAD MODE**] / [**IPHONE MODE**]).

**HEAD MODE:** From the unit.

**IPHONE MODE:** From the iPod/iPhone.\*2

To	Do this
Select a track/file	Press <b>1</b> ◀◀/▶▶ (or press <b>◀/▶</b> on RM-RK52).
Select a folder *3	Press <b>▲/▼</b> (or press <b>▲/▼</b> on RM-RK52).
Reverse/ Fast-forward	Press and hold <b>1</b> ◀◀/▶▶ (or press and hold <b>◀/▶</b> on RM-RK52).
Repeat play *4	Press <b>3</b> ↺ repeatedly to make a selection. <ul style="list-style-type: none"><li>• Audio CD or JVC Playlist Creator (JPC) / JVC Music Control (JMC) file (➡ 13): TRACK RPT, RPT OFF</li><li>• MP3/WMA/WAV file: TRACK RPT, FOLDER RPT, RPT OFF</li><li>• iPod: ONE RPT, ALL RPT, RPT OFF</li></ul>
Random play *4	Press <b>2</b> ↻ repeatedly to make a selection. <ul style="list-style-type: none"><li>• Audio CD: ALL RND, RND OFF</li><li>• MP3/WMA/WAV file or JPC / JMC file: FOLDER RND, ALL RND, RND OFF</li><li>• iPod: SONG RND, ALL RND, RND OFF</li></ul>

\*1 Do not leave the cable inside the car when not using.

\*2 You can still play/pause, file skip, fast-forward or reverse files from the unit.

\*3 Only for MP3/WMA/WAV files. This does not work for iPod.

\*4 **For iPod:** Applicable under [**HEAD MODE**] only.

### Select a track/file from a list

For iPod: Applicable only when [HEAD MODE] is selected. (➔ 5)

- 1 Press **MENU**.
  - 2 Turn the volume knob to make a selection, then press the knob.
    - MP3/WMA/WAV file: Select the desired folder, then a file.
    - iPod or JPC / JMC file: Select the desired file from the list (PLAYLISTS, ARTISTS, ALBUMS, SONGS, PODCASTS\*, GENRES, COMPOSERS\*, AUDIOBOOKS\*).
- \* Only for iPod.

If you have many files....

You can search through them quickly (on step 2 above) by turning the volume knob quickly.

- Not applicable for iPod.

### Select a song by name

(For KW-R710)

While listening to the iPod and [HEAD MODE] is selected (➔ 5)....

If you have many folders or tracks/files, you can search through them quickly according to the first character (A to Z, 0 to 9 and OTHERS).

- "OTHERS" appear if the first character is other than A to Z, 0 to 9.

- 1 Press **MENU**.
- 2 Turn the volume knob to select the desired list, then press the knob.
- 3 Press ▲/▼ or turn the volume knob quickly to select the desired character.
- 4 Turn the volume knob to select the desired folder or track/file, then press the knob.

### Change the USB drive

When a smartphone (Mass Storage Class) is connected to the USB input terminal, you can select its internal memory or external memory (such as an SD card) to playback the stored songs.

You can also select the desired drive to playback when a multiple drives device is connected.

Press number button **5** repeatedly to select the desired drive.

(or)

- 1 Press and hold **MENU**.
- 2 Turn the volume knob to select [USB/IPOD], then press the knob.
- 3 Turn the volume knob to select [USB], then press the knob.
- 4 Press the volume knob to select [DRIVECHANGE].

The next drive is selected automatically.

Repeat steps 1 to 4 to select the following drives.

Selectable items: [DRIVE 1] to [DRIVE 5]

### Change the playback speed of the Audiobook

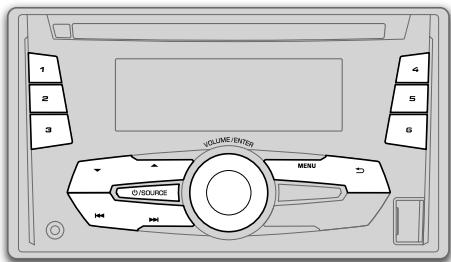
(For KW-R710)

While listening to the iPod and [HEAD MODE] is selected (➔ 5)....

- 1 Press and hold **MENU**.
- 2 Turn the volume knob to select [USB/IPOD], then press the knob.
- 3 Turn the volume knob to select [IPOD], then press the knob.
- 4 Turn the volume knob to make a selection, then press the knob.  
**BOOK NORMAL / BOOK FASTER / BOOK SLOWER:** Select the desired playback speed of the Audiobooks sound file in your iPod/iPhone.  
 (Default: Depends on your iPod/iPhone setting.)

- To return to the previous setting item or hierarchy, press ➔.
- To cancel, press **MENU**.

# RADIO



"ST" lights up when receiving an FM stereo broadcast with sufficient signal strength.

## Search for a station

- 1 Press **SOURCE** to select FM, AM, SW1 or SW2.
- 2 Press **◀◀/▶▶** (or press **◀/▶** on RM-RK52) to search for a station automatically.  
(or)  
Press and hold **◀◀/▶▶** (or press and hold **◀/▶** on RM-RK52) until "M" flashes, then press repeatedly to search for a station manually.

## Store a station

You can store up to 18 stations for FM and 6 stations for AM/SW1/SW2. While listening to a station....

Press and hold one of the number buttons (1 to 6) to store.

- (or)
- 1 Press and hold the volume knob until "PRESET MODE" flashes.
- 2 Turn the volume knob to select a preset number, then press the knob.

The preset number flashes and "MEMORY" appears.

- To select a stored station: Press **▲/▼** or one of the number buttons (1 to 6).  
(or)  
Press **MENU**, then turn the volume knob to select a preset number and press the knob to confirm.

## Search for your favorite program (PTY Search)

Available only for FM source.

- 1 Press and hold **↵**.
- 2 Turn the volume knob to select a PTY code, then press the knob to start searching.  
If there is a station broadcasting a program of the same PTY code as you have selected, that station is tuned in.

PTY code: NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M (music), ROCK M (music), EASY M (music), LIGHT M (music), CLASSICS, OTHER M (music), WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M (music), OLDIES, FOLK M (music), DOCUMENT

## Activate TA Standby Reception

Available only for FM source.

Press **↵**.

The unit will temporarily switch to Traffic Announcement (TA) (if available) from any source other than AM, SW1, or SW2.

- To deactivate, press **↵** again.

## Other settings

- 1 Press and hold **MENU**.
- 2 Turn the volume knob to select [TUNER], then press the knob.
- 3 Turn the volume knob to make a selection (➡8), then press the knob.
- 4 Press **MENU** to exit.

To return to the previous setting item or hierarchy, press **↵**.

# RADIO AUX

**RADIO TIMER** Turns on the radio at a specific time regardless of the current source.

- 1 ONCE/ DAILY/ WEEKLY/ OFF:** Select how often the timer will be turned on.
- 2 FM/ AM/ SW1/ SW2:** Select the FM, AM, SW1 or SW2 band.
- 3 01 to 18 (for FM)/ 01 to 06 (for AM/SW1/SW2):** Select the preset station.
- 4** Set the activation day\*1 and time.
  - “Ⓞ” lights up when complete.

\*1 Selectable only when [ONCE] or [WEEKLY] is selected in step 1.

Radio Timer will not activate for the following cases.

- The unit is turned off.
- [OFF] is selected for [AM/SW1/SW2] in [SRC SELECT] after Radio Timer for AM/SW1/SW2 is selected. (→ 4)

**SSM** **SSM 01 – 06 / SSM 07 – 12 / SSM 13 – 18:** Automatically presets up to 18 stations for FM. “SSM” stops flashing when the first 6 stations are stored. Select **SSM 07 – 12 / SSM 13 – 18** to store the following 12 stations.

**IF BAND\*2** **AUTO:** Increases the tuner selectivity to reduce interference noises from adjacent FM stations. (Stereo effect may be lost.) ; **WIDE:** Subjects to interference noises from adjacent FM stations, but sound quality will not be degraded and the stereo effect will remain.

**MONO\*2** **ON:** Improves the FM reception, but the stereo effect will be lost. ; **OFF:** Cancels.

**NEWS-STBY\*2** **ON:** The unit will temporarily switch to News Programme if available. ; **OFF:** Cancels.

**REGIONAL\*2** **ON:** Switches to another station only in the specific region using the “AF” control. ; **OFF:** Cancels.

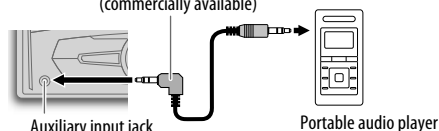
**AF SET\*2** **ON:** Automatically searches for another station broadcasting the same program in the same Radio Data System network with better reception when the current reception is poor. ; **OFF:** Cancels.

\*2 Only for FM source.

## Use a portable audio player

**1 Connect a portable audio player (commercially available).**

3.5 mm stereo mini plug with “L” shaped connector (commercially available)



**2 Select [ON] for [AUX] in [SRC SELECT]. (→ 4)**

**3 Press  $\odot$ /SOURCE to select AUX.**

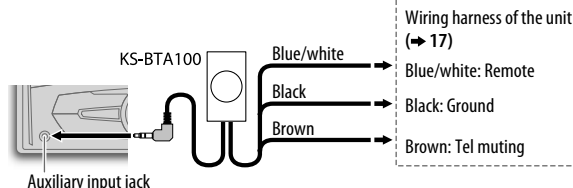
**4 Turn on the portable audio player and start playback.**



Use a 3-core plug head stereo mini plug for optimum audio output.

## Use a Bluetooth® device

**1 Connect the Bluetooth adapter, KS-BTA100 (separately purchased).**



**2 Register (pair) the Bluetooth device with KS-BTA100.**

**3 Select [BT ADAPTER] for [AUX] in [SRC SELECT]. (→ 4)**

**4 Press  $\odot$ /SOURCE to select BT AUDIO.**

**5 Start using the Bluetooth device.**

For details, refer to the instruction manual of KS-BTA100.

# Pandora® (for KW-R710) (Applicable for Australia or New Zealand models only)

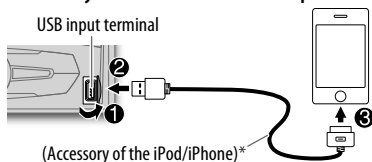
## Preparation:

Install the latest version of the Pandora application onto your device (iPhone/ iPod touch), then create an account and log in to Pandora.

- Select [ON] for [PANDORA] in [SRC SELECT]. (→ 4)








## Start listening

- 1 Open the Pandora application on your device.
- 2 Connect your device to the USB input terminal.



The source changes to PANDORA and broadcast starts.

\* Do not leave the cable inside the car when not using.

To	Do this
Pause or resume playback	Press the volume knob (or press  on RM-RK52).
Thumbs up or thumbs down	Press  /  (or press  /  on RM-RK52). <ul style="list-style-type: none"><li>• If thumbs down is selected, the current track is skipped.</li></ul>
Skip a track	Press  (or press  on RM-RK52).

## Create a new station

- 1 Press **MENU**.
- 2 Turn the volume knob to select [NEW STATION], then press the knob.
- 3 Turn the volume knob to select [FROM TRACK] or [FROM ARTIST], then press the knob.

A new station is created based on the current song or artist.

## Search for a registered station

- 1 Press **MENU**.
- 2 Turn the volume knob to make a selection, then press the knob.  
[BY DATE]: According to the registered date.  
[A-Z]: Alphabetical order.
- 3 Turn the volume knob to the desired station, then press the knob.

## Bookmark a song or artist information

- 1 Press and hold the volume knob.
- 2 Turn the volume knob to select [THIS TRACK] or [THIS ARTIST], then press the knob.  
"BOOKMARKED" appears and the information is stored to your device. The bookmark is available on your Pandora account but not on this unit.

# AUDIO SETTINGS

To	Do this
Select a preset equalizer	Press <b>EQ</b> repeatedly. (or) Press <b>EQ</b> , then turn the volume knob within 2 seconds. FLAT (default), HARD ROCK, JAZZ, POP, R&B, TALK, USER1, USER2, VOCAL BOOST, BASS BOOST, CLASSICAL, DANCE
Store your own sound settings Default: 00	<ol style="list-style-type: none"> <li>1 Press and hold <b>EQ</b>.</li> <li>2 Turn the volume knob to select [EASY EQ], then press the knob.</li> <li>3 Turn the volume knob to select [USER1] or [USER2], then press the knob.</li> <li>4 Turn the volume knob to make a selection, then press the knob. SUB.W*: -08 to +08 BASS LVL: -06 to +06 MID LVL: -06 to +06 TRE LVL: -06 to +06</li> </ol> <ul style="list-style-type: none"> <li>• To return to the previous setting item, press <b>↵</b>.</li> <li>• To exit, press <b>EQ</b>.</li> </ul>

\* Displayed only when [L/O MODE] is set to [SUB.W] (→ 11) and [SUB.W] is set to [ON]. (→ 10)

## Other settings

- 1 Press and hold **MENU**.
  - 2 Turn the volume knob to make a selection (see the following table), then press the knob.  
Repeat step 2 until the desired item is selected.
  - 3 Press **MENU** to exit.
- To return to the previous setting item or hierarchy, press **↵**.

Default: **XX**

EQ SETTING																												
<b>EQ PRESET</b>	<b>FLAT / HARD ROCK / JAZZ / POP / R&amp;B / TALK / USER1 / USER2 / VOCAL BOOST / BASS BOOST / CLASSICAL / DANCE:</b> Selects a preset equalizer.																											
<b>EASY EQ</b> Default: 00	<ol style="list-style-type: none"> <li>1 <b>USER1 / USER2:</b> Select a preset name.</li> <li>2 Adjust your own sound settings. SUB.W*1: -08 to +08 / BASS LVL: -06 to +06 / MID LVL: -06 to +06 / TRE LVL: -06 to +06</li> </ol>																											
<b>PRO EQ</b>	<ol style="list-style-type: none"> <li>1 <b>USER1 / USER2:</b> Select a preset name.</li> <li>2 <b>BASS / MIDDLE / TREBLE:</b> Select a sound tone.</li> <li>3 Adjust the sound elements of the selected sound tone.           <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><b>BASS</b></td> <td style="width: 40%;">Frequency: 60 / 80 / 100 / 200 Hz</td> <td style="width: 30%;">Default: (80 Hz)</td> </tr> <tr> <td></td> <td>Level: -06 to +06</td> <td>(00)</td> </tr> <tr> <td></td> <td>Q: Q1.0 / Q1.25 / Q1.5 / Q2.0</td> <td>(Q1.0)</td> </tr> <tr> <td><b>MIDDLE</b></td> <td>Frequency: 0.5 / 1.0 / 1.5 / 2.5 kHz</td> <td>Default: (1.0 kHz)</td> </tr> <tr> <td></td> <td>Level: -06 to +06</td> <td>(00)</td> </tr> <tr> <td></td> <td>Q: Q0.75 / Q1.0 / Q1.25</td> <td>(Q1.25)</td> </tr> <tr> <td><b>TREBLE</b></td> <td>Frequency: 10.0 / 12.5 / 15.0 / 17.5 kHz</td> <td>Default: (10.0 kHz)</td> </tr> <tr> <td></td> <td>Level: -06 to +06</td> <td>(00)</td> </tr> <tr> <td></td> <td>Q: Q FIX</td> <td>(Q FIX)</td> </tr> </table> </li> </ol>	<b>BASS</b>	Frequency: 60 / 80 / 100 / 200 Hz	Default: (80 Hz)		Level: -06 to +06	(00)		Q: Q1.0 / Q1.25 / Q1.5 / Q2.0	(Q1.0)	<b>MIDDLE</b>	Frequency: 0.5 / 1.0 / 1.5 / 2.5 kHz	Default: (1.0 kHz)		Level: -06 to +06	(00)		Q: Q0.75 / Q1.0 / Q1.25	(Q1.25)	<b>TREBLE</b>	Frequency: 10.0 / 12.5 / 15.0 / 17.5 kHz	Default: (10.0 kHz)		Level: -06 to +06	(00)		Q: Q FIX	(Q FIX)
<b>BASS</b>	Frequency: 60 / 80 / 100 / 200 Hz	Default: (80 Hz)																										
	Level: -06 to +06	(00)																										
	Q: Q1.0 / Q1.25 / Q1.5 / Q2.0	(Q1.0)																										
<b>MIDDLE</b>	Frequency: 0.5 / 1.0 / 1.5 / 2.5 kHz	Default: (1.0 kHz)																										
	Level: -06 to +06	(00)																										
	Q: Q0.75 / Q1.0 / Q1.25	(Q1.25)																										
<b>TREBLE</b>	Frequency: 10.0 / 12.5 / 15.0 / 17.5 kHz	Default: (10.0 kHz)																										
	Level: -06 to +06	(00)																										
	Q: Q FIX	(Q FIX)																										
AUDIO																												
<b>BASS BOOST</b>	+01 / +02: Selects your preferred bass boost level. ; <b>OFF:</b> Cancels.																											
<b>LOUD</b>	<b>01 / 02:</b> Boosts low or high frequencies to produce a well-balanced sound at low volume. ; <b>OFF:</b> Cancels.																											
<b>SUB.W LEVEL*1</b>	-08 — +08 (00): Adjusts the subwoofer output level.																											
<b>SUB.W*2</b>	<b>ON / OFF:</b> Turns on or off the subwoofer output.																											
<b>SUB.W LPF*1</b>	<b>THROUGH:</b> All signals are sent to the subwoofer. ; <b>LOW 55Hz / MID 85Hz / HIGH 120Hz:</b> Audio signals with frequencies lower than 55 Hz / 85 Hz / 120 Hz are sent to the subwoofer.																											

## AUDIO SETTINGS

<b>FADER*</b> <sup>3*4</sup>	<b>R06</b> — <b>F06 (00)</b> : Adjusts the front and rear speaker output balance.
<b>BALANCE*</b> <sup>3</sup>	<b>L06</b> — <b>R06 (00)</b> : Adjusts the left and right speaker output balance.
<b>VOL ADJUST</b>	<b>-05</b> — <b>+05 (00)</b> : Presets the volume adjustment level of each source (compared to the FM volume level). Before adjustment, select the source you want to adjust. ("VOL ADJ FIX" appears if FM is selected.)
<b>AMP GAIN</b>	<b>LOW POWER</b> : Limits the maximum volume level to 30. (Select if the maximum power of each speaker is less than 50 W to prevent damaging the speakers.); <b>HIGH POWER</b> : The maximum volume level is 50.
<b>D.T.EXP</b> (Digital Track Expander)	<b>ON</b> : Creates realistic sound by compensating the high-frequency components and restoring the rise-time of the waveform that are lost in audio data compression. ; <b>OFF</b> : Cancels.
<b>TEL MUTING*</b> <sup>5</sup>	<b>ON</b> : Mutes the sounds while using the cellular phone (not connected through KS-BTA100). ; <b>OFF</b> : Cancels.
<b>L/O MODE</b>	<b>SUB.W</b> / <b>REAR</b> : Selects whether rear speakers or a subwoofer are connected to the REAR/SW line out terminals on the rear panel (through an external amplifier).

\*1 Displayed only when [L/O MODE] is set to [SUB.W] and [SUB.W] is set to [ON].

\*2 Displayed only when [L/O MODE] is set to [SUB.W].

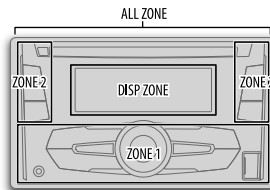
\*3 This adjustment will not affect the subwoofer output.

\*4 If you are using a two-speaker system, set the fader level to [00].

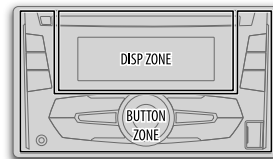
\*5 Does not work if [BT ADAPTER] is selected for [AUX] in [SRC SELECT].  
(⇒ 4)

## DISPLAY SETTINGS

KW-R710



KW-R510



- 1 Press and hold **MENU**.
- 2 Turn the volume knob to make a selection (see the following table), then press the knob.  
Repeat step 2 until the desired item is selected.
- 3 Press **MENU** to exit.

To return to the previous setting item or hierarchy, press ➡.

Default: **XX**

### DISPLAY

<b>DIMMER</b>	Selects the display and button illumination adjusted in the [BRIGHTNESS] setting. <b>AUTO</b> : Changes between the day and night adjustments when you turn off or on the car headlights. *1 ; <b>ON</b> : Selects the night adjustments. ; <b>OFF</b> : Selects the day adjustments.
<b>BRIGHTNESS</b>	Sets the button, display and USB input terminal brightness for day and night separately. <ol style="list-style-type: none"> <li>1 DAY / NIGHT: Select day or night.</li> <li>2 Select a zone for setting. (⇒ Illustration above)</li> <li>3 Set the brightness level (00 to 31). (Default: DAY: 31 ; NIGHT: 15)</li> </ol>
<b>SCROLL*</b> <sup>2</sup>	<b>ONCE</b> : Scrolls the display information once. ; <b>AUTO</b> : Repeats scrolling at 5-second intervals. ; <b>OFF</b> : Cancels.

\*1 The illumination control wire connection is required. (⇒ 17)

\*2 Some characters or symbols will not be shown correctly (or will be blanked).

## DISPLAY SETTINGS

## MORE INFORMATION

Default: **XX**

### COLOR (for KW-R710)

#### PRESET

You can select a color for [ALL ZONE], [ZONE 1], [DISP ZONE], or [ZONE 2] separately. For [ALL ZONE], you can also select a color pattern.

Default color:

**ALL ZONE:** [COLOR 06], **ZONE 1:** [COLOR 06], **DISP ZONE:** [COLOR 01], **ZONE 2:** [COLOR 27]

- 1 Select a zone for setting. (→ 11)
- 2 Select a color for the selected zone.
  - **COLOR 01 to COLOR 29**
  - **USER:** The color you have created for [DAY COLOR] or [NIGHT COLOR] is shown.
  - **COLOR FLOW 01 to COLOR FLOW 03:** Color changes at different speeds.
  - **SPECTRUM/ GROOVE/ TECHN/ EMOTION/ RELAX/ NIGHT SWEEP:** The selected color pattern is shown.\* (Selectable only when [ALL ZONE] is selected in step 1.)

\* If one of these color pattern is selected, the [ZONE 1], [DISP ZONE], [ZONE 2] illumination color will change to the default color.

#### DAY COLOR

Store your own day and night colors for different zone.

- 1 Select a zone for setting. (→ 11)
- 2 **RED / GREEN / BLUE:** Select a primary color.
- 3 **00 to 31:** Select the level.

Repeat steps 2 and 3 for all the primary colors.

- Your setting is stored to [USER] in [PRESET].
- If [00] is selected for all primary colors for [DISP ZONE], nothing appears on the display.

#### COLOR GUIDE

**ON:** Changes the button, display and USB input terminal illumination when settings are performed on menu and list search. Display zone will automatically change depending on volume level. ; **OFF:** Cancels.

[NIGHT COLOR] or [DAY COLOR] is changed by turning on or off your car's headlight.

Default: **XX**

### COLOR (for KW-R510)

#### PRESET

Select a color for [BUTTON ZONE].  
Default: [COLOR 06]

- **COLOR 01 to COLOR 29**
- **USER:** The color you have created for [DAY COLOR] or [NIGHT COLOR] is shown.
- **COLOR FLOW 01 to COLOR FLOW 03:** Color changes at different speeds.

#### DAY COLOR

Store your own day and night colors.

- 1 **RED / GREEN / BLUE:** Select a primary color.
- 2 **00 to 31:** Select the level.

#### NIGHT COLOR

Repeat steps 1 and 2 for all the primary colors.

- Your setting is stored to [USER] in [PRESET].

#### MENU COLOR

**ON:** Changes the button illumination to white color when settings are performed on menu and list search. ; **OFF:** Cancels.

### About discs and audio files

This unit can only play the following CDs:



- This unit can play back multi-session discs; however, unclosed sessions will be skipped during playback.
- **Unplayable discs:**
  - Discs that are not round.
  - Discs with coloring on the recording surface or discs that are dirty.
  - Recordable/ReWritable discs that have not been finalized.
  - 8 cm CD. Attempting to insert using an adapter may cause malfunction.
- **DualDisc playback:** The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product cannot be recommended.
- **Playable files:**
  - File extensions: MP3 (.mp3), WMA (.wma)
  - Bit rate: MP3: 8 kbps — 320 kbps  
WMA: 32 kbps — 192 kbps
  - Sampling frequency: MP3: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11.025 kHz, 8 kHz  
WMA: 8 kHz — 48 kHz
  - Variable bit rate (VBR) files.
- **Maximum number of characters for file/folder name:** It depends on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
  - ISO 9660 Level 1 and 2: 32 characters
  - Romeo: 32 characters
  - Joliet: 32 characters
  - Windows long file name: 32 characters

**About USB devices**

- This unit can play MP3/WMA/WAV files stored on a USB mass storage class device.
- You cannot connect a USB device via a USB hub.
- Connecting a cable whose total length is longer than 5 m may result in abnormal playback.
- The maximum number of characters for:
  - Folder names: 64 characters
  - File names: 64 characters
  - MP3 Tag: 64 characters
  - WMA Tag: 64 characters
  - WAV Tag: 64 characters
- This unit can recognize a total of 20 480 files, 999 folders (999 files per folder including folder without unsupported files), and of 8 hierarchies.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 1 A.

**About iPod/iPhone**

- Made for
  - iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
  - iPod classic
  - iPod nano (3rd, 4th, 5th, 6th and 7th generation)
  - iPhone, iPhone 3G, 3GS, 4, 4S, 5
- It is not possible to browse video files on the “Videos” menu in [HEAD MODE].
- The song order displayed on the selection menu of this unit may differ from that of the iPod/iPhone.
- If some operations are not performed correctly or as intended, visit: <<http://www.jvc.net/cs/car/>>.

**About JVC Playlist Creator and JVC Music Control**

- This unit supports the PC application JVC Playlist Creator and Android™ application JVC Music Control.
- When you play audio file with song data added using the JVC Playlist Creator or JVC Music Control, you can search for audio file by Genres, Artists, Albums, Playlists, and Songs.
- JVC Playlist Creator and JVC Music Control are available from the following web site: <<http://www.jvc.net/cs/car/>>.

**About Pandora**

- Pandora is available only in the U.S., Australia and New Zealand.
- Because Pandora is a third-party service, the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired, or some or all of the services may become unavailable.
- Some functions of Pandora cannot be operated from this unit.
- For issues using the application, please contact Pandora at [pandora-support@pandora.com](mailto:pandora-support@pandora.com).

**Change the display information**

Press **DISP** repeatedly.

<b>FM / AM / SW1 / SW2</b>	Station name (PS)*1 → Frequency → Program type (PTY)*1*2 → Title*1*2 → Day/Clock → (back to the beginning) *1 For FM Radio Data System stations only. *2 If unavailable, “NO PTY” / “NO TEXT” appears.
<b>CD or USB</b>	Playing time → Day/Clock → Disc name*3 → Album title/Artist*4 → Track title*5 → Folder/file name*6 → (back to the beginning) *3 Only for CD-DA: If not recorded, “NO NAME” appears. *4 Only for MP3/WMA files: If not recorded, “NO NAME” appears. *5 If not recorded, “NO NAME” appears. *6 Only for MP3/WMA files.
<b>USB-IPOD</b>	Playing time → Day/Clock → Album title/Artist*7 → Track title*7 → (back to the beginning) *7 If not recorded, “NO NAME” appears.
<b>PANDORA</b>	Station name → Album title/Artist → Track title → Playing time → Day/Clock → (back to the beginning)
<b>AUX</b>	AUX ↔ Day/Clock
<b>BT AUDIO</b>	BT AUDIO ↔ Day/Clock

# TROUBLESHOOTING

Symptom	Remedy
Sound cannot be heard.	<ul style="list-style-type: none"> <li>Adjust the volume to the optimum level.</li> <li>Check the cords and connections.</li> </ul>
“MISWIRING CHK WIRING THEN RESET UNIT” / “WARNING CHK WIRING THEN RESET UNIT” appears and no operations can be done.	Check to be sure the terminals of the speaker wires are insulated properly, then reset the unit. If this does not solve the problem, consult your nearest service center.
Source cannot be selected.	Check the [SRC SELECT] setting. (➔ 4)
Radio reception is poor. / Static noise while listening to the radio.	<ul style="list-style-type: none"> <li>Connect the antenna firmly.</li> <li>Pull the antenna out all the way.</li> </ul>
Correct characters are not displayed.	This unit can only display uppercase letters, numbers, and a limited number of symbols.
“PLEASE” and “EJECT” appear alternately.	Press ▲, then insert the disc correctly.
“IN DISC” appears.	Make sure nothing is blocking the loading slot when you eject the disc.
Disc cannot be ejected.	Press and hold ▲ to forcibly eject the disc. Be careful not to drop the disc when it is ejected.
Playback order is not as intended.	The playback order is determined by the file name (USB) or the order in which files were recorded (disc).
Elapsed playing time is not correct.	This depends on the recording process earlier.
“NOT SUPPORT” appears and track skips.	Check whether the track is a playable format. (➔ 12)

Symptom	Remedy	
“CANNOT PLAY” flashes and/or connected device cannot be detected.	<ul style="list-style-type: none"> <li>Check whether the connected device is compatible with this unit and ensure the files are in supported formats. (➔ 12)</li> <li>Reattach the device.</li> </ul>	
“READING” keeps flashing.	<ul style="list-style-type: none"> <li>Do not use too many hierarchical levels and folders.</li> <li>Reload the disc or reattach the USB device.</li> </ul>	
The iPod/iPhone does not turn on or does not work.	<ul style="list-style-type: none"> <li>Check the connection between this unit and iPod/iPhone.</li> <li>Detach and reset the iPod/iPhone using hard reset.</li> </ul>	
Pandora	“ADD ERROR” “SEARCH ERR”	New station creation is unsuccessful.
	“CHK DEVICE”	Check the Pandora application on your device.
	“NO SKIPS”	The skip limit has been reached.
	“NO STATIONS”	No stations are found.
	“STATION LIM”	The number of registered stations has reached its limit. Retry after deleting unnecessary stations from your device.
	“UPGRADE APP”	Make sure you have installed the latest version of the Pandora application on your device.
	“CONNECT ERR”	Communication is unstable.
	“RATING ERR” “LICENSE ERR”	Registration of thumbs up/thumbs down has failed. You try to access from a country which Pandora is not deliverable.

**If you still have troubles, reset the unit. (➔ 3)**

# SPECIFICATIONS

TUNER	FM	Frequency Range	87.5 MHz to 108.0 MHz (50 kHz step)
		Usable Sensitivity (S/N = 26 dB)	8.2 dBf (0.71 $\mu$ V/75 $\Omega$ )
		Quieting Sensitivity (DIN S/N = 46 dB)	17.2 dBf (2.0 $\mu$ V/75 $\Omega$ )
		Frequency Response ( $\pm 3$ dB)	30 Hz to 15 kHz
		Signal-to-Noise Ratio (MONO)	64 dB
		Stereo Separation (1 kHz)	40 dB
	AM	Frequency Range	Band 1 (MW): 531 kHz to 1 611 kHz (9 kHz step) Band 2 (SW1): 2 940 kHz to 7 735 kHz (5 kHz step) Band 3 (SW2): 9 500 kHz to 10 135 kHz (5 kHz step) 11 580 kHz to 18 135 kHz (5 kHz step)
	Channel Space Selection	Band 1: 9 kHz Band 2/3: 5 kHz	
	Usable Sensitivity (S/N = 20 dB)	MW: 29 dB $\mu$ (28.2 $\mu$ V) SW: 30 dB $\mu$ (32 $\mu$ V)	
CD player	Laser Diode	GaAlAs	
	Digital Filter (D/A)	8 times over sampling	
	Spindle Speed	500 rpm — 200 rpm (CLV)	
	Wow & Flutter	Below measurable limit	
	Frequency Response ( $\pm 1$ dB)	20 Hz — 20 kHz	
	Total Harmonic Distortion (1 kHz)	0.01 %	
	Signal-to-Noise Ratio (1 kHz)	105 dB	
	Dynamic Range	90 dB	
	Channel Separation	85 dB	
	MP3 Decode	Compliant with MPEG-1/2 Audio Layer-3	
	WMA Decode	Compliant with Windows Media Audio	

USB	USB Standard	USB 1.1, USB 2.0 (Full speed)
	Compatible Devices	Mass storage class
	File System	FAT12/ 16/ 32
	Maximum Supply Current	DC 5 V $\approx$ 1 A
	MP3 Decode	Compliant with MPEG-1/2 Audio Layer-3
	WMA Decode	Compliant with Windows Media Audio
	WAV Decode	Linear-PCM
Auxiliary	Frequency Response ( $\pm 3$ dB)	20 Hz — 20 kHz
	Input Maximum Voltage	1 200 mV
	Input Impedance	30 k $\Omega$
Audio	Maximum Output Power	50 W $\times$ 4
	Full Bandwidth Power (at less than 1 % THD)	22 W $\times$ 4
	Speaker Impedance	4 $\Omega$ — 8 $\Omega$
	Preout Level/Load (CD)	2 500 mV/10 k $\Omega$ load
	Preout Impedance	$\leq$ 600 $\Omega$
General	Operating Voltage (10.5 V — 16 V allowable)	14.4 V
	Maximum Current Consumption	10 A
	Operating Temperature Range	0°C to +40°C
	Installation Size (W $\times$ H $\times$ D)	180 mm $\times$ 100 mm $\times$ 158 mm
	Weight	1.5 kg

Subject to change without notice.

## ▲ Warning

- The unit can only be used with a 12 V DC power supply, negative ground.
- Disconnect the battery's negative terminal before wiring and mounting.
- Do not connect Battery wire (yellow) and Ignition wire (red) to the car chassis or Ground wire (black) to prevent a short circuit.
- Insulate unconnected wires with vinyl tape to prevent a short circuit.
- Be sure to ground this unit to the car's chassis again after installation.

## ▲ Caution

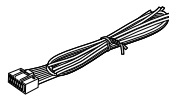
- For safety's sake, leave wiring and mounting to professionals. Consult the car audio dealer.
- Install this unit in the console of your vehicle. Do not touch the metal parts of this unit during and shortly after use of the unit. Metal parts such as the heat sink and enclosure become hot.
- Do not connect the  $\ominus$  wires of speakers to the car chassis or Ground wire (black), or connect them in parallel.
- Connect speakers with a maximum power of more than 50 W. If the maximum power of the speakers is lower than 50 W, change the [AMP GAIN] setting to avoid damaging the speakers. (➔ 11)
- Mount the unit at an angle of less than 30°.
- If your vehicle wiring harness does not have the ignition terminal, connect Ignition wire (red) to the terminal on the vehicle's fuse box which provides 12 V DC power supply and is turned on and off by the ignition key.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- If the fuse blows, first make sure the wires are not touching car's chassis, then replace the old fuse with one that has the same rating.

## Basic procedure

- 1 Remove the key from the ignition switch, then disconnect the  $\ominus$  terminal of the car battery.
- 2 Connect the wires properly.  
See Wiring connection. (➔ 17)
- 3 Install the unit to your car.  
See Installing the unit (in-dash mounting).
- 4 Connect the  $\ominus$  terminal of the car battery.
- 5 Reset the unit. (➔ 3)

## Part list for installation

### (A) Wiring harness



(×1)

### (B) Flat head screw (M5 × 8 mm)



(×8)

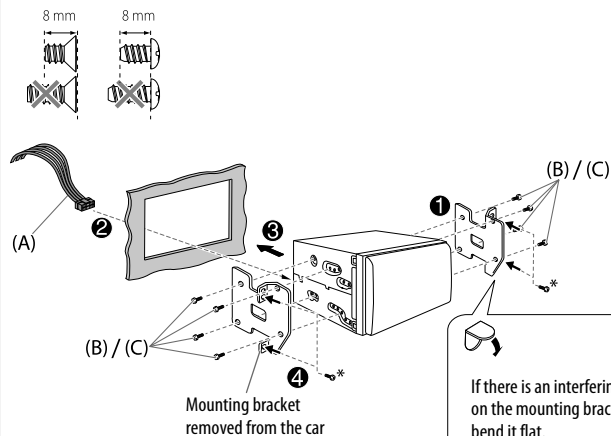
### (C) Round head screw (M5 × 8 mm)



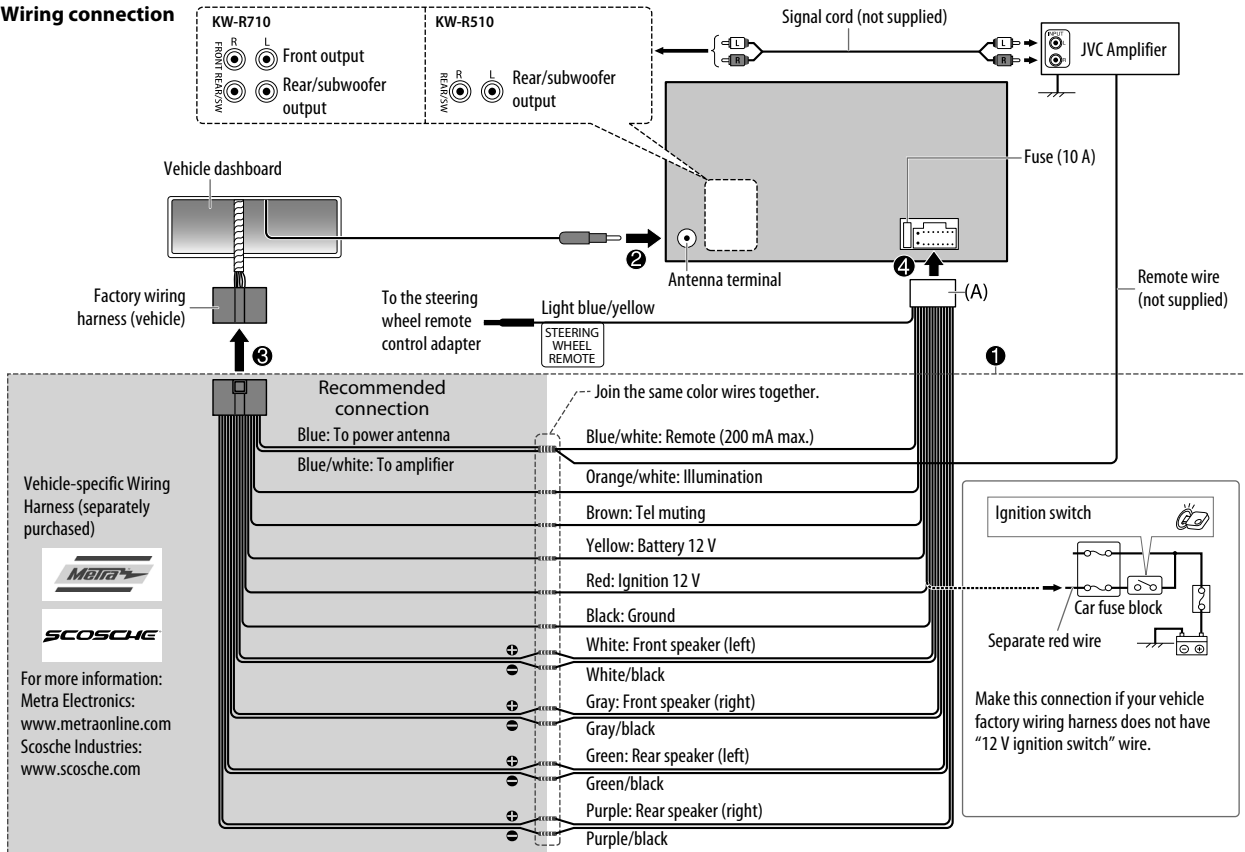
(×8)

## Installing the unit (in-dash mounting)

- ▲ Use only the specified screws. Using wrong screws might damage the unit.



## Wiring connection



Vehicle-specific Wiring Harness (separately purchased)



For more information:  
 Metra Electronics:  
[www.metraonline.com](http://www.metraonline.com)  
 Scosche Industries:  
[www.scosche.com](http://www.scosche.com)



CLASS 1  
LASER PRODUCT

**The marking of products using lasers**

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

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