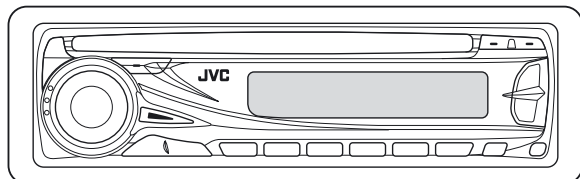
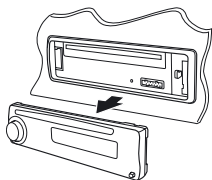


# JVC

## CD RECEIVER

# KD-G333/KD-G332/KD-G331



**WMA MP3**



For canceling the display demonstration, see page 5.

For installation and connections, refer to the separate manual.

## INSTRUCTIONS

GET0406-003A  
[EX/EU]

Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

## IMPORTANT FOR LASER PRODUCTS

- CLASS 1 LASER PRODUCT
- CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
- CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
- REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

<b>CAUTION</b> VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC00025-1:2001 (ENG)	<b>ATTENTION</b> RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT, NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRN)	<b>AVISO</b> RADIACION LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICO. (ESP)	<b>VARNING</b> SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÅR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	<b>注意</b> この製品と付属 及び/または不可視 のクラス1M レーザー放射が 出ます。 光学機器で直接 見ないでください。 (JPN)	<b>CAUTION</b> VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)
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### Warning:

If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.



This symbol is only valid in the European Union.

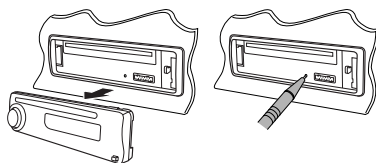
### Information for Users on Disposal of Old Equipment

This symbol indicates that the product with this symbol should not be disposed as general household waste at its end-of-life. If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country and municipality. By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health.

### Caution on volume setting:

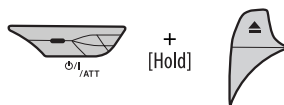
Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

### How to reset your unit



- Your preset adjustments will also be erased.

### How to forcibly eject a disc

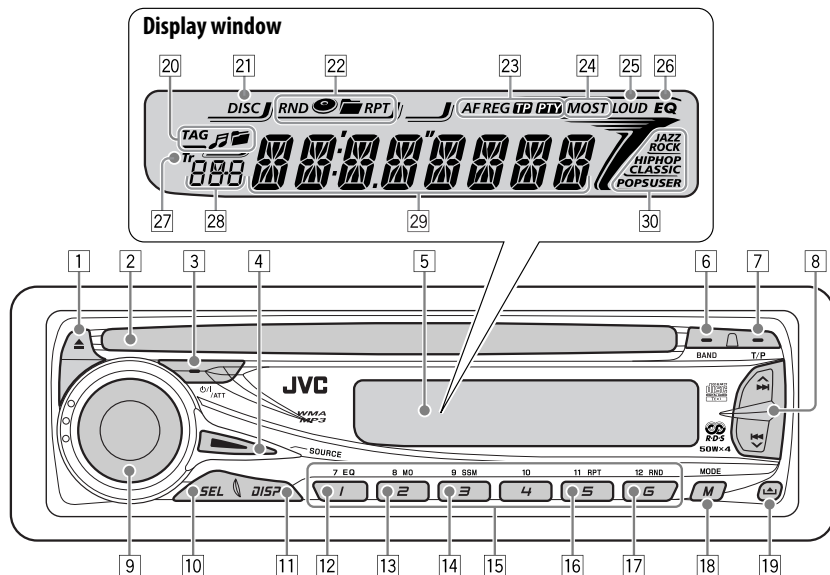


- Be careful not to drop the disc when it ejects.
- If this does not work, reset your unit.



# Control panel — KD-G333/KD-G332/KD-G331

## Parts identification

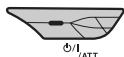


- |  |  |
|--|--|
| 1 ▲ (eject) button                               | 19 ▲ (control panel release) button  |
| 2 Loading slot                                   | 20 Disc information indicators—<br>TAG (Tag information), 🎵 (track/file), 📁 (folder)           |
| 3 ⏻ / I / ATT (standby/on/attenuator) button     | 21 DISC indicator  |
| 4 SOURCE button                                  | 22 Playback mode / item indicators—RND (random),<br>📀 (disc), 📁 (folder), RPT (repeat)         |
| 5 Display window                                 | 23 RDS indicators—AF, REG, TP, PTY   |
| 6 BAND button                                    | 24 Tuner reception indicators—MO (monaural),<br>ST (stereo)                                    |
| 7 T/P (traffic programme/programme type) button  | 25 LOUD (loudness) indicator   |
| 8 ▲▶▶/I/◀◀▼ buttons                              | 26 EQ (equalizer) indicator  |
| 9 Control dial                                   | 27 Tr (track) indicator  |
| 10 SEL (select) button                           | 28 Source display / Volume level indicator / Time<br>countdown indicator                       |
| 11 DISP (display) button                         | 29 Main display  |
| 12 EQ (equalizer) button                         | 30 Sound mode (C-EQ: custom equalizer) indicators—<br>JAZZ, ROCK, HIP HOP, CLASSIC, POPS, USER |
| 13 MO (monaural) button                          |  |
| 14 SSM (Strong-station Sequential Memory) button |  |
| 15 Number buttons                                |  |
| 16 RPT (repeat) button                           |  |
| 17 RND (random) button                           |  |
| 18 M MODE button                                 |  |

# Getting started

## Basic operations

### 1 Turn on the power.

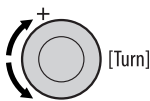


\* You cannot select "DISC" as the playback source if there is no disc in the unit.

### 3 For FM/AM tuner



### 4 Adjust the volume.



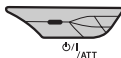
**VOL 20**

Volume level appears.

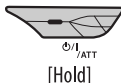
### 5 Adjust the sound as you want. (See page 11.)

#### To drop the volume in a moment (ATT)

To restore the sound, press the button again.

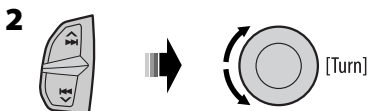


#### To turn off the power



## Basic settings

• See also "General settings — PSM" on pages 12 and 13.



### 1 Canceling the display demonstrations

Select "DEMO," then "DEMO OFF."

### 2 Setting the clock

Select "CLOCK H" (hour), then adjust the hour. Select "CLOCK M" (minute), then adjust the minute.

Select "24H/12H," then "24H" (hour) or "12H" (hour).

### 3 Finish the procedure.

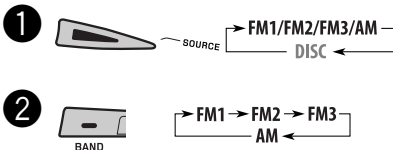


### To check the current clock time while the power is turned off



Clock time is shown on the display for about 5 seconds. See also page 12.

# Radio operations



Lights up when receiving an FM stereo broadcast with sufficient signal strength.



## 3 Start searching for a station.



When a station is received, searching stops.

To stop searching, press the same button again.

## To tune in to a station manually

In step 1 above...



## 2 Select a desired station frequency.



## When an FM stereo broadcast is hard to receive



Lights up when monaural mode is activated.



Reception improves, but stereo effect will be lost.

To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

## Storing stations in memory

You can preset six stations for each band.

### FM station automatic presetting—SSM (Strong-station Sequential Memory)

#### 1 Select the FM band (FM1 – FM3) you want to store into.

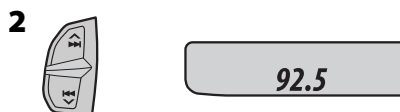


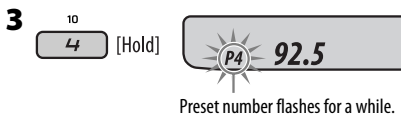
"SSM" flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

### Manual presetting

Ex.: Storing FM station of 92.5 MHz into preset number 4 of the FM1 band.





## Listening to a preset station

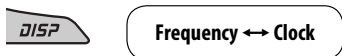


2 Select the preset station (1 – 6) you want.



### To check the current clock time while listening to an FM (non-RDS) or AM station

• For FM RDS stations, see page 9.



## FM RDS operations

### What you can do with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals.

By receiving the RDS data, this unit can do the following:

- Programme Type (PTY) Search (see the following)
- TA (Traffic Announcement) and PTY Standby Receptions (see pages 8 and 13)
- Tracing the same programme automatically —Network-Tracking Reception (see page 8)
- Programme Search (see pages 9 and 13)

## Searching for your favorite FM RDS programme

You can tune in to a station broadcasting your favorite programme by searching for a PTY code.

- To store your favorite programme types, see the following.



2 Select one of your favorite programme types.



or

Select one of the PTY codes (see page 9).



3 Start searching for your favorite programme.



If there is a station broadcasting a programme of the same PTY code as you have selected, that station is tuned in.

## Storing your favorite programme types

You can store six favorite programme types.

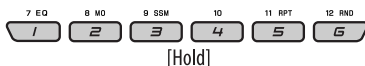
### Preset programme types in the number buttons (1 to 6):

1	2	3	4	5	6
POP M	ROCK M	EASY M	CLASSICS	AFFAIRS	VARIED

1 Select a PTY code (see above).

*Continued on the next page*

## 2 Select the preset number (1 – 6) you want to store into.



Ex.: When "ROCK M" is selected

## 3 Repeat steps 1 and 2 to store other PTY codes into other preset numbers.

## 4 Finish the procedure.



## Using the standby receptions

### TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from any source other than AM.

The volume changes to the preset TA volume level if the current level is lower than the preset level (see page 13).

#### To activate TA Standby Reception



The TP (Traffic Programme) indicator either lights up or flashes.

- If the TP indicator lights up, TA Standby Reception is activated.
- If the TP indicator flashes, TA Standby Reception is not yet activated. (This occurs when you are listening to an FM station without the RDS signals required for TA Standby Reception.)

To activate TA Standby Reception, tune in to another station providing these signals. The TP indicator will stop flashing and remain lit.

#### To deactivate the TA Standby Reception



The TP indicator goes off.

### PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite PTY programme from any source other than AM.

To activate and select your favorite PTY code for PTY Standby Reception, see page 13.

The PTY indicator either lights up or flashes.

- If the PTY indicator lights up, PTY Standby Reception is activated.
- If the PTY indicator flashes, PTY Standby Reception is not yet activated.

To activate PTY Standby Reception, tune in to another station providing these signals. The PTY indicator will stop flashing and remain lit.

To deactivate the PTY Standby Reception, select "OFF" for the PTY code (see page 13). The PTY indicator goes off.

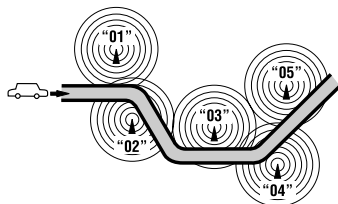
## Tracing the same programme— Network-Tracking Reception

When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to another FM RDS station of the same network, possibly broadcasting the same programme with stronger signals (see the illustration below).

When shipped from the factory, Network-Tracking Reception is activated.

To change the Network-Tracking Reception setting, see "AF-REG" on page 12.

Programme A broadcasting on different frequency areas (01 – 05)





## Automatic station selection— Programme Search

Usually when you press the number buttons, the preset station is tuned in.

If the signals from the FM RDS preset station are not sufficient for good reception, this unit, using the AF data, tunes in to another frequency broadcasting the same programme as the original preset station is broadcasting.

- The unit takes some time to tune in to another station using programme search.
- See also page 13.

### To check the current clock time while listening to an FM RDS station

DISP

Station name (PS) → Station Frequency → Programme type (PTY) → Clock → (back to the beginning)

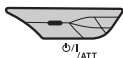
### PTY codes

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

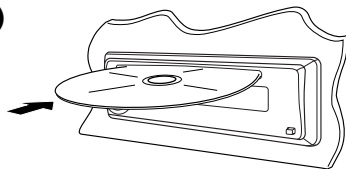
## Disc operations

### Playing a disc in the unit

- 1 Turn on the power.



2



All tracks will be played repeatedly until you change the source or eject the disc.

#### To stop play and eject the disc

- Press SOURCE to listen to another playback source.



#### To fast-forward or reverse the track

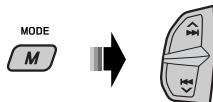


[Hold]

#### To go to the next or previous tracks



#### To go to the next or previous folders (only for MP3 or WMA discs)

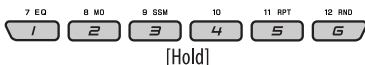


### To locate a particular track (for CD) or folder (for MP3 or WMA discs) directly

To select a number from 01 – 06:



To select a number from 07 – 12:



- To use direct folder access on MP3/WMA discs, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

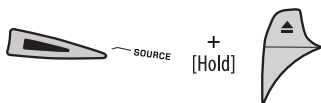
Continued on the next page

To select a particular track in a folder (for MP3 or WMA disc):



## ■ Prohibiting disc ejection

You can lock a disc in the loading slot.



To cancel the prohibition, repeat the same procedure.

## Changing the display information

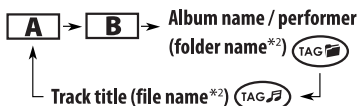


### ■ While playing an audio CD or a CD Text



### ■ While playing an MP3 or a WMA disc

• When "TAG DISP" is set to "TAG ON" (see page 13)



• When "TAG DISP" is set to "TAG OFF"



**A** : Elapsed playing time with the current track number

**B** : Clock with the current track number

○ : Corresponding indicator lights up on the display

\*1 If the current disc is an audio CD, "NO NAME" appears.

\*2 If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.

## Selecting the playback modes

You can use only one of the following playback modes at a time.

1 MODE  
M

2 Select your desired playback mode.

### ■ Repeat play

11 RPT



Mode Plays repeatedly

TRK RPT : The current track. (RPT)

FLDR RPT\* : All tracks of the current folder.



RPT OFF : Cancels.

### ■ Random play

12 RND



Mode Plays at random

FLDR RND\* : All tracks of the current folder, then tracks of the next folder and so on. (RND 📁)

DISC RND : All tracks of the current disc.



RND OFF : Cancels.

\* Only while playing an MP3 or a WMA disc.

○ : Corresponding indicator lights up on the display

## Sound adjustments



You can select a preset sound mode suitable to the music genre (C-EQ: custom equalizer).

- 1  MODE  
M
- 2  7 EQ  
I
- USER → ROCK → CLASSIC  
← JAZZ ← HIP HOP ← POPS ←

Preset values	BAS (bass)	TRE (treble)	LOUD (loudness)
<b>USER</b> (Flat sound)	00	00	OFF
<b>ROCK</b> (Rock or disco music)	+03	+01	ON
<b>CLASSIC</b> (Classical music)	+01	-02	OFF
<b>POPS</b> (Light music)	+04	+01	OFF
<b>HIP HOP</b> (Funk or rap music)	+02	00	ON
<b>JAZZ</b> (Jazz music)	+02	+03	OFF

## Adjusting the sound

You can adjust the sound characteristics to your preference.

- 1  SEL
- BAS → TRE → FAD  
← VOL ← LOUD ← BAL ←
- 2  [Turn]

### Indication, [Range]

**BAS**\*<sup>1</sup> (bass), [-06 to +06]  
Adjust the bass.

**TRE**\*<sup>1</sup> (treble), [-06 to +06]  
Adjust the treble.

**FAD**\*<sup>2</sup> (fader), [R06 to F06]  
Adjust the front and rear speaker balance.

**BAL** (balance), [L06 to R06]  
Adjust the left and right speaker balance.

**LOUD**\*<sup>1</sup> (loudness), [LOUD ON or LOUD OFF]  
Boost low and high frequencies to produce a well-balanced sound at low volume level.

**VOL** (volume), [00 to 30 or 50\*<sup>3</sup>]  
Adjust the volume.

\*<sup>1</sup> When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (C-EQ) including "USER."

\*<sup>2</sup> If you are using a two-speaker system, set the fader level to "00."

\*<sup>3</sup> Depending on the amplifier gain control setting. (See page 13 for details.)

## General settings — PSM

You can change PSM (Preferred Setting Mode) items listed in the table that follows.

1



2 Select a PSM item.



3 Adjust the PSM item selected.



4 Repeat steps 2 and 3 to adjust other PSM items if necessary.

5 Finish the procedure.



Indications	Item (__: Initial)	Selectable settings, [reference page]
<b>DEMO</b> Display demonstration	<ul style="list-style-type: none"> <li>• <b>DEMO ON</b></li> <li>• <b>DEMO OFF</b></li> </ul>	<ul style="list-style-type: none"> <li>: Display demonstration will be activated automatically if no operation is done for about 20 seconds, [5].</li> <li>: Cancels.</li> </ul>
<b>CLK DISP</b> *1 Clock display	<ul style="list-style-type: none"> <li>• <b>ON</b></li> <li>• <b>OFF</b></li> </ul>	<ul style="list-style-type: none"> <li>: Clock time is shown on the display at all times when the power is turned off.</li> <li>: Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [5].</li> </ul>
<b>CLOCK H</b> Hour adjustment	<b>0 – 23 (1 – 12)</b>	[Initial: 0 (0:00)], [5].
<b>CLOCK M</b> Minute adjustment	<b>00 – 59</b>	[Initial: 00 (0:00)], [5].
<b>24H/12H</b> Time display mode	<ul style="list-style-type: none"> <li>• <b>24H</b></li> <li>• <b>12H</b></li> </ul>	: See also page 5 for setting.
<b>CLK ADJ</b> *2 Clock adjustment	<ul style="list-style-type: none"> <li>• <b>AUTO</b></li> <li>• <b>OFF</b></li> </ul>	<ul style="list-style-type: none"> <li>: The built-in clock is automatically adjusted using the CT (clock time) data in the RDS signal.</li> <li>: Cancels.</li> </ul>
<b>AF-REG</b> *2 Alternative frequency/ regionalization reception	<ul style="list-style-type: none"> <li>• <b>AF</b></li> <li>• <b>AF REG</b></li> <li>• <b>OFF</b></li> </ul>	<ul style="list-style-type: none"> <li>: When the currently received signals become weak, the unit switches to another station (the programme may differ from the one currently received), [8]. <ul style="list-style-type: none"> <li>• The AF indicator lights up.</li> </ul> </li> <li>: When the currently received signals become weak, the unit switches to another station broadcasting the same programme. <ul style="list-style-type: none"> <li>• The AF and REG indicators light up.</li> </ul> </li> <li>: Cancels.</li> </ul>

Indications	Item ( ___: Initial)	Selectable settings, [reference page]
<b>PTY-STBY</b> * <sup>2</sup> PTY standby	<b>OFF, PTY codes</b>	Activates PTY Standby Reception with one of the PTY codes, [9].
<b>TA VOL</b> * <sup>2</sup> Traffic announcement volume	<b>VOL 00 – VOL 30 or 50</b> * <sup>3</sup>	[Initial: VOL 15]
<b>P-SEARCH</b> * <sup>2</sup> Programme search	<ul style="list-style-type: none"> <li>• <b>ON</b></li> <li>• <b>OFF</b></li> </ul>	<ul style="list-style-type: none"> <li>: Activates Programme Search, [9].</li> <li>: Cancels.</li> </ul>
<b>DIMMER</b> Dimmer	<ul style="list-style-type: none"> <li>• <b>ON</b></li> <li>• <b>OFF</b></li> </ul>	<ul style="list-style-type: none"> <li>: Dims the display illumination.</li> <li>: Cancels.</li> </ul>
<b>TEL</b> Telephone muting	<ul style="list-style-type: none"> <li>• <b>MUTING 1/ MUTING 2</b></li> <li>• <b>OFF</b></li> </ul>	<ul style="list-style-type: none"> <li>: Select either one which mutes the sounds while using a cellular phone.</li> <li>: Cancels.</li> </ul>
<b>SCROLL</b> * <sup>4</sup> Scroll	<ul style="list-style-type: none"> <li>• <b>ONCE</b></li> <li>• <b>AUTO</b></li> <li>• <b>OFF</b></li> </ul>	<ul style="list-style-type: none"> <li>: Scrolls the disc information once.</li> <li>: Repeats scrolling (at 5-second intervals).</li> <li>: Cancels.</li> <li>• Pressing DISP for more than one second can scroll the display regardless of the setting.</li> </ul>
<b>TAG DISP</b> Tag display	<ul style="list-style-type: none"> <li>• <b>TAG ON</b></li> <li>• <b>TAG OFF</b></li> </ul>	<ul style="list-style-type: none"> <li>: Shows the Tag information while playing MP3/WMA tracks, [10].</li> <li>: Cancels.</li> </ul>
<b>AMP GAIN</b> Amplifier gain control	<ul style="list-style-type: none"> <li>• <b>LOW PWR</b></li> <li>• <b>HIGH PWR</b></li> </ul>	<ul style="list-style-type: none"> <li>: VOL 00 – VOL 30 (Select this if the maximum power of the speaker is less than 50 W to prevent them from damaging the speaker.)</li> <li>: VOL 00 – VOL 50</li> </ul>
<b>IF BAND</b> Intermediate frequency band	<ul style="list-style-type: none"> <li>• <b>AUTO</b></li> <li>• <b>WIDE</b></li> </ul>	<ul style="list-style-type: none"> <li>: Increases the tuner selectivity to reduce interference noises between close stations. (Stereo effect may be lost.)</li> <li>: Subject to the interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.</li> </ul>

\*<sup>1</sup> If the power supply is not interrupted by turning off the ignition key of your car, it is recommended to select "OFF" to save the car's battery.

\*<sup>2</sup> Only for FM RDS stations.

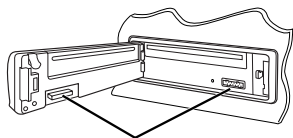
\*<sup>3</sup> Depends on the amplifier gain control.

\*<sup>4</sup> Some characters or symbols will not be shown correctly (or will be blanked) on the display.

## Maintenance

### How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connector

### Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

### How to handle discs

**When removing a disc from its case**, press down the center holder of the case and lift the disc out, holding it by the edges.

- Always hold the disc by the edges. Do not touch its recording surface.

**When storing a disc into its case**, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the cases after use.

Center holder



### To keep discs clean

A dirty disc may not play correctly.

If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.



### To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.

To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.



### Do not use the following discs:

Warped disc



Sticker



Sticker residue



Stick-on label



Unusual shape



Single CD (8 cm disc)

## More about this unit

### Basic operations

#### Turning on the power

- By pressing SOURCE on the unit, you can also turn on the power. If the source is ready, playback also starts.

#### Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where playback has been stopped previously, next time you turn on the power.

### Tuner operations

#### Storing stations in memory

- During SSM search...
  - All previously stored stations are erased and stations are stored newly.
  - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
  - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

### FM RDS operations

- Network-Tracking Reception requires two types of RDS signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly. Without receiving these data correctly, Network-Tracking Reception will not operate correctly.
- If a Traffic Announcement is received by TA Standby Reception, the volume level automatically changes to the preset level (TA VOL) if the current level is lower than the preset level.
- When Alternative Frequency Reception is activated (with AF selected), Network-Tracking Reception is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Frequency Reception. (See page 12.)

- If you want to know more about RDS, visit <<http://www.rds.org.uk>>.

### Disc operations

#### Caution for 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 may not be recommended.

### General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- MP3 and WMA “tracks” (words “file” and “track” are used interchangeably) are recorded in “folders.”
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

### Playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
- This unit can play back only files of the same type which are first detected if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, or for the following reasons:
  - Discs are dirty or scratched.
  - Moisture condensation occurs on the lens inside the unit.
  - The pickup lens inside the unit is dirty.
  - CD-R/CD-RW on which the files are written with “Packet Write” method.
  - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).

*Continued on the next page*

- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
  - Discs with stickers, labels, or protective seal stuck to the surface.
  - Discs on which labels can be directly printed by an ink jet printer.
 Using these discs under high temperatures or high humidities may cause malfunctions or damage to the unit.

### **Playing an MP3/WMA disc**

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
  - Bit rate: 8 kbps — 320 kbps
  - Sampling frequency:
    - 48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    - 24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
  - Disc format: ISO 9660 Level 1/ Level 2, Romeo, Joliet, Windows long file name
- The maximum number of characters for file/folder names vary among the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
  - ISO 9660 Level 1: up to 12 characters
  - ISO 9660 Level 2: up to 31 characters
  - Romeo: up to 128 characters
  - Joliet: up to 64 characters
  - Windows long file name: up to 128 characters
- This unit can recognize a total of 512 files, of 200 folders, and of 8 hierarchies.

- This unit can play back files recorded in VBR (variable bit rate).
  - Files recorded in VBR have a discrepancy in elapsed time display, and do not show the actual elapsed time. Especially, after performing the search function, this difference becomes noticeable.
- This unit cannot play back the following files:
  - MP3 files encoded with MP3i and MP3 PRO format.
  - MP3 files encoded in an inappropriate format.
  - MP3 files encoded with Layer 1/2.
  - WMA files encoded with lossless, professional, and voice format.
  - WMA files which are not based upon Windows Media® Audio.
  - WMA files copy-protected with DRM.
  - Files which have the data such as WAVE, ATRAC3, etc.
- The search function works but search speed is not constant.

### **Changing the source**

- If you change the source, playback also stops (without ejecting the disc).
  - Next time you select “DISC” for the playback source, disc play starts from where it has been stopped previously.

### **Ejecting a disc**

- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust.
- After ejecting a disc, “NO DISC” appears and you cannot operate some of the buttons. Insert another disc or press SOURCE to select another playback source.

### **General settings—PSM**

- If you change the “AMP GAIN” setting from “HIGH PWR” to “LOW PWR” while the volume level is set higher than “VOL 30,” the unit automatically changes the volume level to “VOL 30.”



# Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	<ul style="list-style-type: none"><li>• Sound cannot be heard from the speakers.</li></ul>	<ul style="list-style-type: none"><li>• Adjust the volume to the optimum level.</li><li>• Check the cords and connections.</li></ul>
	<ul style="list-style-type: none"><li>• The unit does not work at all.</li></ul>	Reset the unit (see page 2).
FM/AM	<ul style="list-style-type: none"><li>• SSM automatic presetting does not work.</li></ul>	Store stations manually.
	<ul style="list-style-type: none"><li>• Static noise while listening to the radio.</li></ul>	Connect the aerial firmly.
Disc playback	<ul style="list-style-type: none"><li>• Disc cannot be played back.</li></ul>	Insert the disc correctly.
	<ul style="list-style-type: none"><li>• CD-R/CD-RW cannot be played back.</li><li>• Tracks on the CD-R/CD-RW cannot be skipped.</li></ul>	<ul style="list-style-type: none"><li>• Insert a finalized CD-R/CD-RW.</li><li>• Finalize the CD-R/CD-RW with the component which you used for recording.</li></ul>
	<ul style="list-style-type: none"><li>• Disc can be neither played back nor ejected.</li></ul>	<ul style="list-style-type: none"><li>• Unlock the disc (see page 10).</li><li>• Eject the disc forcibly (see page 2).</li></ul>
	<ul style="list-style-type: none"><li>• Disc sound is sometimes interrupted.</li></ul>	<ul style="list-style-type: none"><li>• Stop playback while driving on rough roads.</li><li>• Change the disc.</li><li>• Check the cords and connections.</li></ul>
	<ul style="list-style-type: none"><li>• "NO DISC" appears on the display.</li></ul>	Insert a playable disc into the loading slot.

Continued on the next page

	Symptoms	Remedies/Causes
MP3/WMA playback	<ul style="list-style-type: none"> <li>Disc cannot be played back.</li> </ul>	<ul style="list-style-type: none"> <li>Use a disc with MP3/WMA tracks recorded in the format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet.</li> <li>Add the extension code &lt;.mp3&gt; or &lt;.wma&gt; to the file names.</li> </ul>
	<ul style="list-style-type: none"> <li>Noise is generated.</li> </ul>	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	<ul style="list-style-type: none"> <li>A longer readout time is required ("CHECK" keeps flashing on the display).</li> </ul>	Do not use too many hierarchies and folders.
	<ul style="list-style-type: none"> <li>Tracks are not played back in the order you have intended.</li> </ul>	Playback order is determined when the files are recorded.
	<ul style="list-style-type: none"> <li>Elapsed playing time is not correct.</li> </ul>	This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.
	<ul style="list-style-type: none"> <li>"PLEASE EJECT" appears on the display.</li> </ul>	Insert a disc that contains MP3/WMA tracks.
	<ul style="list-style-type: none"> <li>Correct characters are not displayed (e.g. album name).</li> </ul>	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.

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# Specifications

## AUDIO AMPLIFIER SECTION

Maximum Power Output:	
Front/Rear:	50 W per channel
Continuous Power Output (RMS):	
Front/Rear:	19 W per channel into 4 $\Omega$ , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance:	4 $\Omega$ (4 $\Omega$ to 8 $\Omega$ allowance)
Tone Control Range:	
Bass:	$\pm 12$ dB at 100 Hz
Treble:	$\pm 12$ dB at 10 kHz
Frequency Response:	40 Hz to 20 000 Hz
Signal-to-Noise Ratio:	70 dB
Line-Out Level/Impedance:	2.5 V/20 k $\Omega$ load (full scale)
Output Impedance:	1 k $\Omega$
Other Terminals:	Steering wheel remote input

## TUNER SECTION

Frequency Range:	
FM:	87.5 MHz to 108.0 MHz
AM:	MW: 522 kHz to 1 620 kHz LW: 144 kHz to 279 kHz
<b>FM Tuner</b>	
Usable Sensitivity:	11.3 dBf (1.0 $\mu$ V/75 $\Omega$ )
50 dB Quietening Sensitivity:	16.3 dBf (1.8 $\mu$ V/75 $\Omega$ )
Alternate Channel Selectivity (400 kHz):	65 dB
Frequency Response:	40 Hz to 15 000 Hz
Stereo Separation:	30 dB
<b>MW Tuner</b>	
Sensitivity/Selectivity:	20 $\mu$ V/35 dB
<b>LW Tuner</b>	
Sensitivity:	50 $\mu$ V

## CD PLAYER SECTION

Type:	Compact disc player
Signal Detection System:	Non-contact optical pickup (semiconductor laser)
Number of Channels:	2 channels (stereo)
Frequency Response:	5 Hz to 20 000 Hz
Dynamic Range:	96 dB
Signal-to-Noise Ratio:	98 dB
Wow and Flutter:	Less than measurable limit
MP3 Decoding Format: (MPEG1/2 Audio Layer 3)	
Max. Bit Rate:	320 kbps
WMA (Windows Media <sup>®</sup> Audio) Decoding Format:	
Max. Bit Rate:	192 kbps

## GENERAL

Power Requirement:	
Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
Grounding System:	Negative ground
Allowable Operating Temperature:	0°C to +40°C
Dimensions (W $\times$ H $\times$ D): (approx.)	
Installation Size:	182 mm $\times$ 52 mm $\times$ 150 mm
Panel Size:	187 mm $\times$ 58 mm $\times$ 13 mm
Mass:	1.4 kg (excluding accessories)

*Design and specifications are subject to change without notice.*

**Having TROUBLE with operation?**

**Please reset your unit**

**Refer to page of How to reset your unit**

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Dear Customer,

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of Victor Company of Japan, Limited  
is:

JVC Technology Centre Europe GmbH

Postfach 10 05 52

61145 Friedberg

Germany

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**JVC**



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