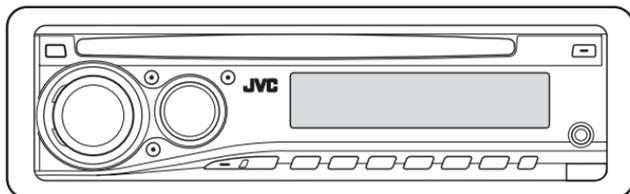
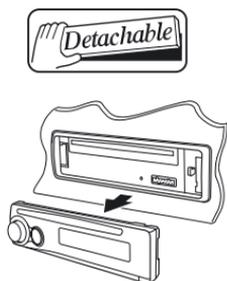


JVC

CD RECEIVER

KD-G431



WMA MP3



For canceling the display demonstration, see page 5.

For installation and connections, refer to the separate manual.

INSTRUCTIONS

GET0410-003A
[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

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

CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (EN6)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT, NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	AVISO RADIACIÓN LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO, NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICO. (ESP)	VARNING SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	注意 ここを覗くと有害 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)	CAUTION VISIBLE AND/OR INVISIBLE CLASS I LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)
--	---	--	--	---	---

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.

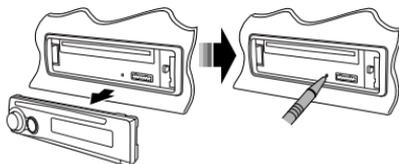
This unit is equipped with the steering wheel remote control function.

- See the Installation/Connection Manual (separate volume) for connection.

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.

The following marks are used to indicate...

-  : Built-in CD player operations.
-  : External CD changer operations.
-  : Indicator displayed for the corresponding operation.

How to use the M MODE button

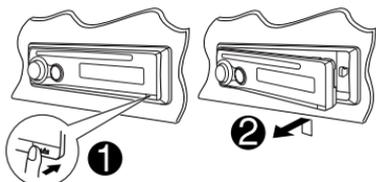
If you press M MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons work as different function buttons.

Ex.: When number button 2 works as MO (monaural) button.

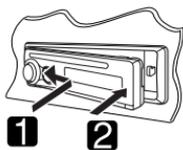


To use these buttons for their original functions again after pressing M MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared or press M MODE again.

Detaching the control panel



Attaching the control panel



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Note: Only for [EX] model users in UK and European countries

For security reasons, a numbered ID card is provided with this unit, and the same ID number is imprinted on the unit's chassis. Keep the card in a safe place, as it will help the authorities to identify your unit if stolen.

For safety...

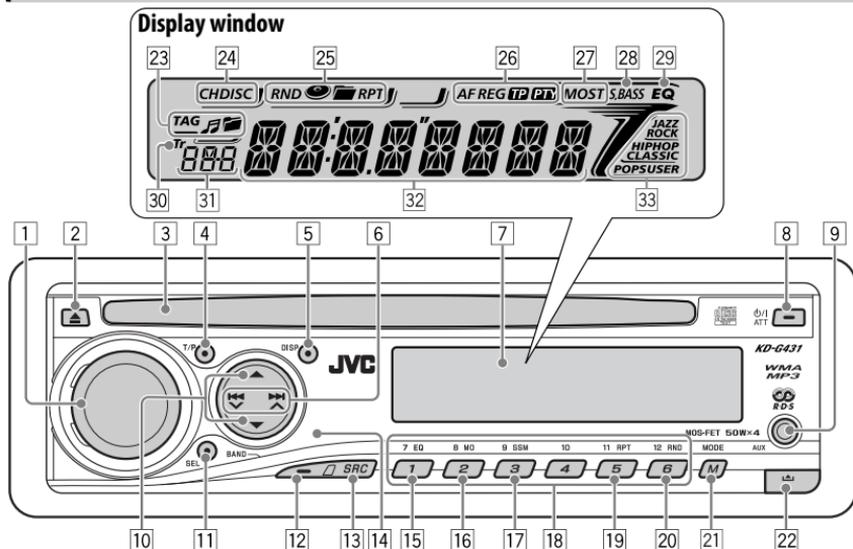
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Control panel

Parts identification



- | | |
|--|--|
| <p>1 Control dial</p> <p>2 ▲ (eject) button</p> <p>3 Loading slot</p> <p>4 T/P (traffic programme/programme type) button</p> <p>5 DISP (display) button</p> <p>6 ◀◀ ▶▶ ▶▶ ▲ buttons</p> <p>7 Display window</p> <p>8 ⓪/1 ATT (standby/on attenuator) button</p> <p>9 AUX (auxiliary) input jack</p> <p>10 ▲ (up) / ▼ (down) buttons</p> <p>11 SEL (select) button</p> <p>12 BAND button</p> <p>13 SRC (source) button</p> <p>14 Remote sensor</p> <ul style="list-style-type: none"> • You can control this unit with an optionally purchased remote controller. For details, see pages 19 and 20. • DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting). <p>15 EQ (equalizer) button</p> <p>16 MO (monaural) button</p> <p>17 SSM (Strong-station Sequential Memory) button</p> <p>18 Number buttons</p> <p>19 RPT (repeat) button</p> | <p>20 RND (random) button</p> <p>21 M MODE button</p> <p>22 ▲ (control panel release) button</p> <p>23 Disc information indicators—
TAG (Tag information), 📁 (track/file), 📁 (folder)</p> <p>24 Playback source indicators—
CH: Lights up only when CD-CH is selected as the playback source.
DISC: Lights up for the built-in CD player.</p> <p>25 Playback mode / item indicators—RND (random), 📁 (disc), 📁 (folder), RPT (repeat)</p> <p>26 RDS indicators—AF, REG, TP, PTY</p> <p>27 Tuner reception indicators—MO (monaural), ST (stereo)</p> <p>28 S.BASS (super bass) indicator</p> <p>29 EQ (equalizer) indicator</p> <p>30 Tr (track) indicator</p> <p>31 Source display / Volume level indicator / Time countdown indicator</p> <p>32 Main display</p> <p>33 Sound mode (iEQ: intelligent equalizer) indicators—JAZZ, ROCK, HIP HOP, CLASSIC, POPS, USER</p> |
|--|--|

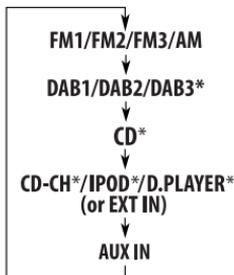
Getting started

Basic operations

1 Turn on the power.



2



* You cannot select these sources if they are not ready or not connected.

3



• For FM/AM tuner



• For DAB tuner



4 Adjust the volume.



Volume level appears.



5 Adjust the sound as you want. (See page 12.)

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 13–15.

1



2



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 13.

Radio operations

- 1  → FM1/FM2/FM3/AM →
- 2 BAND  → FM1 → FM2 → FM3
AM ←

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 3 above...

- 1  [Hold] 

- 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.



- 2 MODE 

- 3  [Hold]



"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.

- 1 BAND  → FM1 → FM2 → FM3
AM ←

- 2  

- 3  [Hold] 

Preset number flashes for a while.

Listening to a preset station

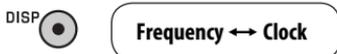


2 Select the preset station (1 – 6) you want.



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 14)
- Tracing the same programme automatically —Network-Tracking Reception (see page 8)
- Programme Search (see pages 9 and 14)

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.

1  [Hold] The last selected PTY code appears.

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).

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



Ex.: When "ROCK M" is selected

Continued on the next page

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

4 Finish the procedure.



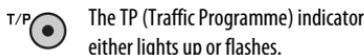
Using the standby receptions

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 14).

To activate TA Standby Reception



- 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



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 14.

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 14). The PTY indicator goes off.

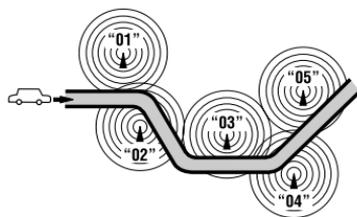
Tracing the same programme— Network-Tracking Reception

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 13.

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 14.

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



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

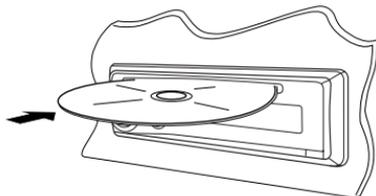
PTY codes

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

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



To stop play and eject the disc

- Press SRC to listen to another playback source.



Playing discs in the CD changer

All discs in the magazine will be played repeatedly until you change the source.

- Ejecting the magazine will also stop playing.

1

SRC



* If you have changed the external input setting to "EXT IN" (see page 14), you cannot select the CD changer.

2

Select a disc.

For disc number from 01 – 06:



For disc number from 07 – 12:



[Hold]

About MP3 and WMA discs

MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."

About the CD changer

It is recommended to use a JVC MP3-compatible CD changer with your unit.

- You can also connect MP3-incompatible CD changers. However, these units are not compatible with MP3 discs.
- You cannot use the CH-X99, CH-X100, and KD-MK series CD changers with this unit.
- You cannot play any WMA disc in the CD changer.
- Disc text information recorded in the CD Text can be displayed when a JVC CD Text compatible CD changer is connected.
- For connection, see Installation/Connection Manual (separate volume).

To fast-forward or reverse the track**To go to the next or previous tracks****To go to the next or previous folders (only for MP3 or WMA discs)**

For MP3 discs: 

For 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.

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

**Other main functions****■ Skipping tracks quickly during play**

Only possible on JVC MP3-compatible CD changer

- For MP3 or WMA discs, you can skip tracks within the same folder.

Ex.: To select track 32 while playing a track whose number is a single digit (1 to 9)

1 MODE


2 

Each time you press the button, you can skip 10 tracks.

- After the last track, the first track will be selected and vice versa.

3 

■ Prohibiting disc ejection

You can lock a disc in the loading slot.

 + 
[Hold]



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*2 disc

- When "TAG DISP" is set to "TAG ON" (see page 14)



- When "TAG DISP" is set to "TAG OFF"



A : Elapsed playing time with the current track number

B : Clock with the current track number

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

*2 Only for the built-in CD player.

*3 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.



2 Select your desired playback mode.

Repeat play

11 RPT



Mode	Plays repeatedly
TRK RPT	: The current track.
FLDR RPT *1	: All tracks of the current folder.
DISC RPT *2	: All tracks of the current disc.
RPT OFF	: Cancels.



Random play

12 RND



Mode	Plays at random
FLDR RND *1	: All tracks of the current folder, then tracks of the next folder and so on.
DISC RND	: All tracks of the current disc.
MAG RND *2	: All tracks of the inserted discs.
RND OFF	: Cancels.



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

*2 Only while playing discs in the CD changer.

Sound adjustments

You can select a preset sound mode suitable to the music genre (iEQ: intelligent equalizer).



Preset values Indication (For)	BAS* ¹	MID* ²	TRE* ³	S.BS* ⁴
	USER (Flat sound)	00	00	00
ROCK (Rock or disco music)	+03	00	+02	ON
CLASSIC (Classical music)	+01	00	+03	OFF
POPS (Light music)	+02	+01	+02	OFF
HIP HOP (Funk or rap music)	+04	-02	+01	ON
JAZZ (Jazz music)	+03	00	+03	OFF

*¹ Bass

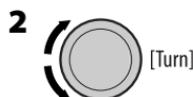
*² Mid-range

*³ Treble

*⁴ Super bass

Adjusting the sound

You can adjust the sound characteristics to your preference.



Indication, [Range]

BAS*¹ (bass), [-06 to +06]

Adjust the bass.

MID*¹ (mid-range), [-06 to +06]

Adjust the mid-range frequencies sound level.

TRE*¹ (treble), [-06 to +06]

Adjust the treble.

FAD*² (fader), [R06 to F06]

Adjust the front and rear speaker balance.

BAL (balance), [L06 to R06]

Adjust the left and right speaker balance.

S.BS*¹ (super bass), [S.BS ON or S.BS OFF], [01 to 05, initial: 03]*³

Maintain the richness and fullness of the bass sound regardless of how low you set the volume.

VOL (volume), [00 to 30 or 50]*⁴

Adjust the volume.

*¹ When you adjust the bass, mid-range, treble, or super bass, the adjustment you have made is stored for the currently selected sound mode (iEQ) including "USER."

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

*³ Range adjustment for super bass is adjustable only when it is set to "S.BS ON."

*⁴ Depending on the amplifier gain control setting. (See page 14 for details.)

General settings — PSM

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

1  [Hold]

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]
DEMO Display demonstration	<ul style="list-style-type: none"> • DEMO ON • DEMO OFF 	<ul style="list-style-type: none"> : Display demonstration will be activated automatically if no operation is done for about 20 seconds, [5]. : Cancels.
CLK DISP *1 Clock display	<ul style="list-style-type: none"> • ON • OFF 	<ul style="list-style-type: none"> : Clock time is shown on the display at all times when the power is turned off. : Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [5].
CLOCK H Hour adjustment	0 – 23 (1 – 12)	[Initial: 0 (0:00)], [5].
CLOCK M Minute adjustment	00 – 59	[Initial: 00 (0:00)], [5].
24H/12H Time display mode	<ul style="list-style-type: none"> • 24H • 12H 	: See also page 5 for setting.
CLK ADJ *2 Clock adjustment	<ul style="list-style-type: none"> • AUTO • OFF 	<ul style="list-style-type: none"> : The built-in clock is automatically adjusted using the CT (clock time) data in the RDS signal. : Cancels.
AF-REG *2 Alternative frequency/ regionalization reception	<ul style="list-style-type: none"> • AF • AF REG • OFF 	<ul style="list-style-type: none"> : When the currently received signals become weak, the unit switches to another station (the programme may differ from the one currently received), [8, 16]. <ul style="list-style-type: none"> • The AF indicator lights up. : When the currently received signals become weak, the unit switches to another station broadcasting the same programme. <ul style="list-style-type: none"> • The AF and REG indicators light up. : Cancels (not selectable when “DAB AF” is set to “AF ON”).

Continued on the next page

Indications	Item (__: Initial)	Selectable settings, [reference page]
PTY-STBY *2 PTY standby	OFF , PTY codes	: Activates PTY Standby Reception with one of the PTY codes, [9].
TA VOL *2 Traffic announcement volume	VOL 00 – VOL 30 or 50 *3	[Initial: VOL 15]
P-SEARCH *2 Programme search	<ul style="list-style-type: none"> • ON • OFF 	<ul style="list-style-type: none"> : Activates Programme Search, [9]. : Cancels.
DAB AF *4 Alternative frequency reception	<ul style="list-style-type: none"> • AF ON • AF OFF 	<ul style="list-style-type: none"> : Traces the programme among DAB services and FM RDS stations, [8, 16]. : Cancels.
DAB VOL *4 DAB volume adjustment	VOL –12 — VOL +12	: [Initial: VOL 00]; You can adjust the volume level of DAB tuner to match the FM sound level and store it in memory.
DIMMER Dimmer	<ul style="list-style-type: none"> • ON • OFF 	<ul style="list-style-type: none"> : Dims the display illumination. : Cancels.
TEL Telephone muting	<ul style="list-style-type: none"> • MUTING 1/ MUTING 2 • OFF 	<ul style="list-style-type: none"> : Select either one which mutes the sounds while using a cellular phone. : Cancels.
SCROLL *5 Scroll	<ul style="list-style-type: none"> • ONCE • AUTO • OFF 	<ul style="list-style-type: none"> : Scrolls the disc information once. : Repeats scrolling (at 5-second intervals). : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
EXT IN *6 External input	<ul style="list-style-type: none"> • CHANGER • EXT IN 	<ul style="list-style-type: none"> : To use a JVC CD changer, [9], JVC DAB tuner, [15], an Apple iPod or a JVC D. player, [16]. : To use any other external component than the above, [18].
AUX ADJ Auxiliary input level adjustment	A.ADJ 00 — A.ADJ 05	: Adjust the auxiliary input level to avoid the sudden increase of the output level when changing the source from external component connected to the AUX input jack on the control panel.
TAG DISP Tag display	<ul style="list-style-type: none"> • TAG ON • TAG OFF 	<ul style="list-style-type: none"> : Shows the Tag information while playing MP3/WMA tracks, [11]. : Cancels.
AMP GAIN Amplifier gain control	<ul style="list-style-type: none"> • LOW PWR • HIGH PWR 	<ul style="list-style-type: none"> : 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.) : VOL 00 – VOL 50

Indications	Item (__: Initial)	Selectable settings, [reference page]
IF BAND Intermediate frequency band	<ul style="list-style-type: none"> • AUTO • WIDE 	<ul style="list-style-type: none"> : Increases the tuner selectivity to reduce interference noises between close stations. (Stereo effect may be lost.) : Subject to the interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.

*1 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.

*2 Only for FM RDS stations.

*3 Depends on the amplifier gain control.

*4 Displayed only when DAB tuner is connected.

*5 Some characters or symbols will not be shown correctly (or will be blanked) on the display.

*6 Displayed only when one of the following sources is selected—FM, AM, CD, or AUX IN.

DAB tuner operations

What is DAB system?

Digital Audio Broadcasting (DAB) can deliver digital quality sound without any annoying interference and signal distortion. Furthermore, it can carry text, pictures, and data. When transmitting, DAB combines several programmes (called "services") to form one "ensemble." In addition, each "service"—called "primary service"—can also be divided into its components (called "secondary service"). A typical ensemble has six or more programmes (services) broadcast at the same time.

By connecting the DAB tuner, this unit can do the following:

- Tracing the same programme automatically —Alternative Frequency Reception (see "DAB AF" on page 14).

It is recommended to use DAB tuner KT-DB1000 with your unit. If you have another DAB tuner, consult your JVC IN-CAR ENTERTAINMENT dealer.

- Refer also to the Instructions supplied for your DAB tuner.



3 Start searching for an ensemble.



When an ensemble is received, searching stops.

To stop searching, press the same button again.

4 Select a service (either primary or secondary) to listen to.



To tune in to an ensemble manually

Start searching for an ensemble, as in step 3 above...



2 Select a desired ensemble frequency.



Storing DAB services in memory

You can preset six DAB services (primary) for each band.

- 1 Select a service you want (see steps 1 to 4 on page 15).
- 2 Select the preset number (1 – 6) you want to store into.



Preset number flashes for a while.

Tuning in to a preset DAB service

- 1
- 2 Select the preset DAB service (primary) number (1 – 6) you want.



If the selected primary service has some secondary services, pressing the same button again will tune in to the secondary services.

Tracing the same programme— Alternative Frequency Reception

You can keep listening to the same programme by activating the Alternative Frequency Reception.

- **While receiving a DAB service:**
When driving in an area where a service cannot be received, this unit automatically tunes in to another ensemble or FM RDS station, broadcasting the same programme.

- **While receiving an FM RDS station:**
When driving in an area where a DAB service is broadcasting the same programme as the FM RDS station is broadcasting, this unit automatically tunes in to the DAB service.

When shipped from the factory, Alternative Frequency Reception is activated.

To deactivate the Alternative Frequency Reception, see page 14.

To change the display information while tuning to an ensemble



Service name → Ensemble name
→ Channel number → Frequency
→ Clock → (back to the beginning)

iPod / D. player operations

This unit is ready for operating an Apple iPod or a JVC D. player from the control panel.

Before operating your iPod or D. player:
Connect either one of the following (separately purchased) to the CD changer jack on the rear of this unit.

- **Interface adapter for iPod**—KS-PD100 for controlling an iPod.
- **D. player interface adapter**—KS-PD500 for controlling a D. player.
- For connection, see Installation/Connection Manual (separate volume).
- For details, refer also to the manual supplied with the interface adapter.

Caution:

Make sure to turn off this unit or turn off the vehicle's ignition switch before connecting or disconnecting the iPod or D. player.

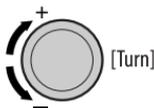
Preparations:

Make sure "CHANGER" is selected for the external input setting, see page 14.



Playback starts automatically from where it has been paused*1 or stopped*2 previously.

3 **Adjust the volume.**



4 **Adjust the sound as you want. (See page 12.)**

- Make sure the equalizer on the iPod or D. player is deactivated.

<p>To pause*1 or stop playback</p> <p>To resume playback, press the button again.</p>	
<p>To fast-forward or reverse the track</p>	 [Hold]
<p>To go to the next or previous tracks</p>	

*1 For iPod

*2 For D. player

Selecting a track from the menu

1 Enter the main menu.



Now the **▲/▼/◀/▶** buttons work as the menu selecting buttons*.

2 Select the desired menu.



For iPod:

PLAYLIST ↔ ARTISTS ↔ ALBUMS ↔ SONGS ↔ GENRES ↔ COMPOSER ↔
(back to the beginning)

For D. player:

PLAYLIST ↔ ARTIST ↔ ALBUM ↔ GENRE ↔ TRACK ↔ (back to the beginning)

3 Confirm the selection.



To move back to the previous menu, press **▲**.

- If a track is selected, playback starts automatically.
- If the selected item has another layer, you will enter the layer. Repeat steps 2 and 3 until the desired track is played.
- Holding **◀◀/▶▶** can skip 10 items at a time.

* The menu selecting mode will be canceled:

- If no operations are done for about 5 seconds.
- When you confirm the selection of a track.

Selecting the playback modes

1



2 Select your desired playback mode.

■ Repeat play

11 RPT



ONE RPT

Functions the same as "Repeat One" of the iPod or "Repeat Mode → One" for the D. player.

ALL RPT

Functions the same as "Repeat All" of the iPod or "Repeat Mode → All" for the D. player.

RPT OFF

Cancels.

■ Random play

12 RND



ALBM RND*

Functions the same as "Shuffle Albums" of the iPod.

SONG RND/RND ON

Functions the same as "Shuffle Songs" of the iPod or "Random Play → On" of the D. player.

RND OFF

Cancels.

* For iPod: Only if you select "ALL" in "ALBUMS" of the main "MENU."

To check other information while listening to an iPod or a D. player



Other external component operations

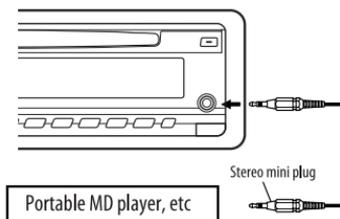
You can connect an external component to...

- CD changer jack on the rear using **Line Input Adapter**—KS-U57 (not supplied) or **AUX Input Adapter**—KS-U58 (not supplied) for any other components (except iPod and D. player).
- AUX (auxiliary) input jack on the control panel.

For connection, see Installation/Connection Manual (separate volume).

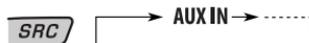
For listening to the iPod or D. player, refer to pages 16 – 18.

Connecting an external component to the AUX input jack



1 For selecting the external component connected to...

- AUX input jack



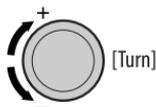
- CD changer jack on the rear using **KS-U57** or **KS-U58**

If "EXT IN" does not appear, see page 14 and select the external input ("EXT IN").



2 Turn on the connected component and start playing the source.

3 Adjust the volume.



4 Adjust the sound as you want. (See page 12.)

To check the other information while listening to an external component

DISP

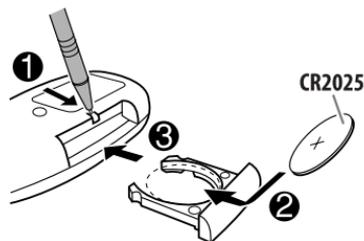


AUX IN or EXT IN ↔ Clock

Remote controller — RM-RK50

This unit can be remotely controlled as instructed here (with an optionally purchased remote controller). We recommend that you use remote controller RM-RK50 with your unit.

■ Installing the lithium coin battery (CR2025)

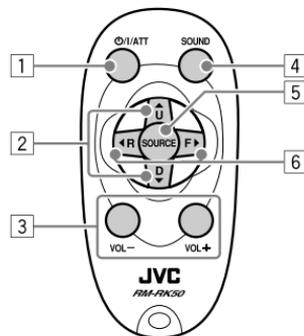


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Do not leave the remote controller in a place (such as dashboards) exposed to direct sunlight for a long time; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid risk of accident.
- To prevent the battery from over-heating, cracking, or starting a fire:
 - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
 - Do not leave the battery with other metallic materials.
 - Do not poke the battery with tweezers or similar tools.
 - Wrap the battery with tape and insulate when throwing away or saving it.

Main elements and features



- 1** ⏻/⏻ (standby/on/attenuator) button
- Turns the power on if pressed briefly or attenuates the sound when the power is on.
 - Turns the power off if pressed and held.

Continued on the next page

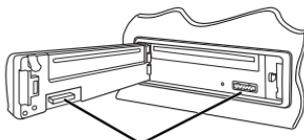
- 2 ▲ U (up) / D (down) ▼ buttons
- Changes the FM/AM/DAB bands with ▲ U.
 - Changes the preset stations (or DAB services) with D ▼.
 - Changes the folder of the MP3/WMA discs.
 - While playing an MP3 disc on an MP3-compatible CD changer:
 - Changes the disc if pressed briefly.
 - Changes the folder if pressed and held.
 - While listening to an Apple iPod or a JVC D. player:
 - Pauses/stops or resumes playback with D ▼.
 - Enters the main menu with ▲ U.
(Now ▲ U/D ▼/◀ R/F ► work as the menu selecting buttons.)*
- 3 VOL – / VOL + buttons
- Adjusts the volume level.
- 4 SOUND button
- Selects the sound mode (iEQ: intelligent equalizer).
- 5 SOURCE button
- Selects the source.
- 6 ◀ R (reverse) / F (forward) ► buttons
- Searches for stations (or DAB services) if pressed briefly.
 - Searches for DAB ensembles if pressed and held.
 - Fast-forwards or reverses the track if pressed and held.
 - Changes the tracks if pressed briefly.
 - While listening to an iPod or a D. player (in menu selecting mode):
 - Selects an item if pressed briefly. (Then, press D ▼ to confirm the selection.)
 - Skips 10 items at a time if pressed and held.

* ▲ U : Returns to the previous menu.
D ▼ : Confirms the selection.

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, benzene, etc.) to clean discs.

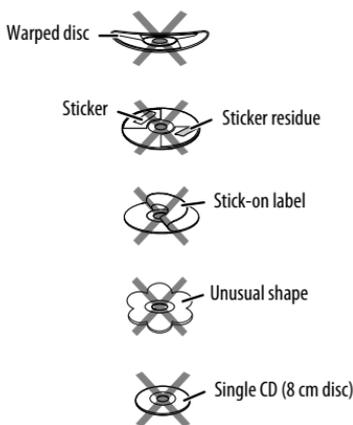
To play new discs

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:



More about this unit

Basic operations

Turning on the power

- By pressing SRC 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 13.)

Continued on the next page

- 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.
- When a disc is inserted upside down, “PLEASE” and “EJECT” appear alternately on the display. Press ▲ to eject the disc.
- 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.).
- 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 SRC 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."

DAB tuner operations

- Only primary DAB services can be presetted even when you store a secondary service.
- A previously preset DAB service is erased when a new DAB service is stored in the same preset number.

iPod or D. player operations

- When you turn on this unit, the iPod or D. player is charged through this unit.
- While the iPod or D. player is connected, all operations from the iPod or D. player are disabled. Perform all operations from this unit.
- The text information may not be displayed correctly.
 - Some characters such as accented letters cannot be shown correctly on the display.
 - Depends on the condition of communication between the iPod or D. player and the unit.
- If the text information includes more than 8 characters, it scrolls on the display (see also page 14). This unit can display up to 40 characters.

Notice:

When operating an iPod or a D. player, some operations may not be performed correctly or as intended. In this case, visit the following JVC web site:

For iPod users: <<http://www.jvc.co.jp/english/car/support/ks-pd100/index.html>>

For D. player users: <<http://www.jvc.co.jp/english/car/support/ks-pd500/index.html>>

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"> • Sound cannot be heard from the speakers. 	<ul style="list-style-type: none"> • Adjust the volume to the optimum level. • Check the cords and connections.
	<ul style="list-style-type: none"> • The unit does not work at all. 	Reset the unit (see page 2).
FM/AM	<ul style="list-style-type: none"> • SSM automatic presetting does not work. 	Store stations manually.
	<ul style="list-style-type: none"> • Static noise while listening to the radio. 	Connect the aerial firmly.
Disc playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	Insert the disc correctly.
	<ul style="list-style-type: none"> • CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped. 	<ul style="list-style-type: none"> • Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	<ul style="list-style-type: none"> • Disc can neither be played back nor ejected. 	<ul style="list-style-type: none"> • Unlock the disc (see page 10). • Eject the disc forcibly (see page 2).
	<ul style="list-style-type: none"> • Disc sound is sometimes interrupted. 	<ul style="list-style-type: none"> • Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	<ul style="list-style-type: none"> • "NO DISC" appears on the display. 	Insert a playable disc into the loading slot.
MP3/WMA playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	<ul style="list-style-type: none"> • Use a disc with MP3/WMA tracks recorded in the format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	<ul style="list-style-type: none"> • Noise is generated. 	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"> • A longer readout time is required ("CHECK" keeps flashing on the display). 	Do not use too many hierarchies and folders.

	Symptoms	Remedies/Causes
MP3/WMA playback	• Tracks are not played back in the order you have intended.	Playback order is determined when the files are recorded.
	• Elapsed playing time is not correct.	This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.
	• "PLEASE" and "EJECT" appear alternately on the display.	Insert a disc that contains MP3/WMA tracks.
	• Correct characters are not displayed (e.g. album name).	This unit can only display letters (upper case), numbers, and a limited number of symbols.
CD changer	• "NO DISC" appears on the display.	Insert a disc into the magazine.
	• "NO MAG" appears on the display.	Insert the magazine.
	• "RESET 8" appears on the display.	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
	• "RESET 1" – "RESET 7" appears on the display.	Press the reset button of the CD changer.
	• The CD changer does not work at all.	Reset the unit (see page 2).
DAB	• "noSIGNAL" appears on the display.	Move to an area with stronger signals.
	• "RESET 8" appears on the display.	Connect this unit and the DAB tuner correctly and reset the unit (see page 2).
	• "ANTENANG" appears on the display.	Check the cords and connections.
	• The DAB tuner does not work at all.	Reconnect this unit and the DAB tuner correctly and reset the unit (see page 2).

Continued on the next page

	Symptoms	Remedies/Causes
iPod/D. player playback	<ul style="list-style-type: none"> The iPod or D. player does not turn on or does not work. 	<ul style="list-style-type: none"> Check the connecting cable and its connection. Update the firmware version. Change the battery.
	<ul style="list-style-type: none"> Buttons do not work as intended. 	The functions of the buttons have been changed. Press M MODE before performing the operation.
	<ul style="list-style-type: none"> The sound is distorted. 	Deactivate the equalizer either on the unit or the iPod/D. player.
	<ul style="list-style-type: none"> "NO IPOD" or "NO DP" appears on the display. 	Check the connecting cable and its connection.
	<ul style="list-style-type: none"> Playback stops. 	The headphones are disconnected during playback. Restart the playback operation using the control panel (see page 16).
	<ul style="list-style-type: none"> No sound can be heard when connecting an iPod nano. 	Disconnect the headphones from the iPod nano.
	<ul style="list-style-type: none"> No sound can be heard. "ERROR 01" appears on the display when connecting a D. player. 	Disconnect the adapter from the D. player. Then, connect it again.
	<ul style="list-style-type: none"> "NO FILES" or "NO TRACK" appears on the display. 	No tracks are stored. Import tracks to the iPod or D. player.
	<ul style="list-style-type: none"> "RESET 1" – "RESET 7" appears on the display. 	Disconnect the adapter from both the unit and iPod/D. player. Then, connect it again.
	<ul style="list-style-type: none"> "RESET 8" appears on the display. 	Check the connection between the adapter and this unit.
	<ul style="list-style-type: none"> The iPod's or D. player's controls do not work after disconnecting from this unit. 	Reset the iPod or D. player.

- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

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 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance:	4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range:	
Bass:	± 12 dB at 60 Hz
Mid-range:	± 12 dB at 1 kHz
Treble:	± 12 dB at 7.5 kHz
Frequency Response:	40 Hz to 20 000 Hz
Signal-to-Noise Ratio:	70 dB
Line-Out Level/ Impedance:	2.5 V/20 k Ω load (full scale)
Output Impedance:	1 k Ω
Other Terminals:	CD changer, Steering wheel remote input, AUX (auxiliary) input jack

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
FM Tuner	
Usable Sensitivity:	11.3 dBf (1.0 μ V/75 Ω)
50 dB Quieting Sensitivity:	16.3 dBf (1.8 μ V/75 Ω)
Alternate Channel Selectivity (400 kHz):	65 dB
Frequency Response:	40 Hz to 15 000 Hz
Stereo Separation:	30 dB
MW Tuner	
Sensitivity/Selectivity:	20 μ V/35 dB
LW Tuner	
Sensitivity:	50 μ 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 [®] 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:	1.3 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

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

JVC



EN, FR

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