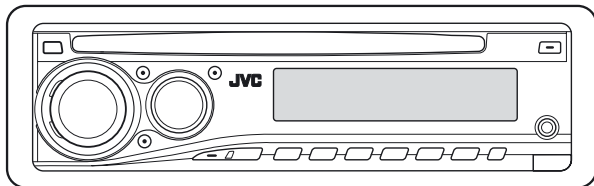
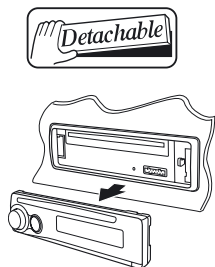


JVC

ENGLISH

CD RECEIVER

KD-DB101



For canceling the display demonstration, see page 5.

For installation and connections, refer to the separate manual.

INSTRUCTIONS

LVT1675-001A
[EX]

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.

CAUTION	ATTENTION	AVISO	WARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACION LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÅR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視 及び/または不可視 のクラス1M レーザー放射が 出ます。 光学器械で直接 見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS II 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.

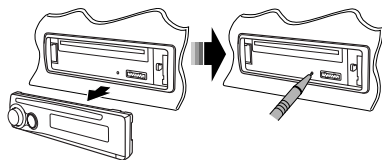
This unit is equipped with the steering wheel remote control function.

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

Caution on volume setting:

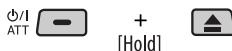
Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

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...



: Indicator displayed for the corresponding operation.

How to use the M MODE button

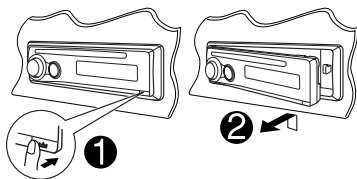
If you press M MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons work as different function buttons.

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

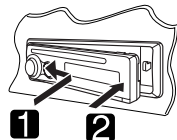


To use these buttons for their original functions again after pressing M MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared or press M MODE again.

Detaching the control panel



Attaching the control panel



CONTENTS

Control panel	4
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Other external component operations	16
Remote controller — RM-RK50	17
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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...

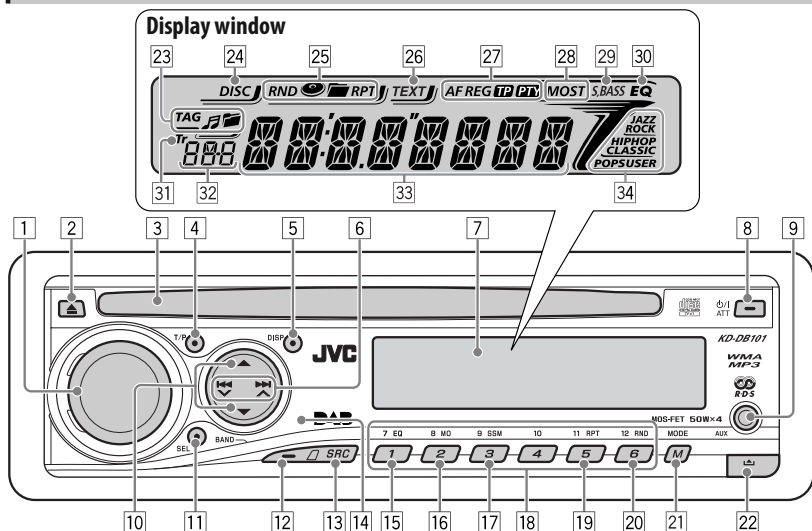
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

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



- | | | | |
|----|--|----|--|
| 1 | Control dial | 17 | SSM (Strong-station Sequential Memory) button |
| 2 | ▲ (eject) button | 18 | Number buttons |
| 3 | Loading slot | 19 | RPT (repeat) button |
| 4 | T/P (traffic programme/programme type) button | 20 | RND (random) button |
| 5 | DISP (display) button | 21 | M MODE button |
| 6 | ◀◀ ◻ ▶▶ ▲ buttons | 22 | ⏏ (control panel release) button |
| 7 | Display window | 23 | Disc information indicators |
| 8 | ⏻/⏷ ATT (standby/on attenuator) button | 24 | DISC indicator |
| 9 | AUX (auxiliary) input jack | 25 | Playback mode / item indicators |
| 10 | ▲ (up) / ▼ (down) buttons | 26 | TEXT indicator |
| 11 | SEL (select) button | 27 | RDS indicators |
| 12 | BAND button | 28 | Tuner reception indicators |
| 13 | SRC (source) button | 29 | S.BASS indicator |
| 14 | Remote sensor
• You can control this unit with an optionally purchased remote controller. For details, see pages 17.
• DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting). | 30 | EQ (equalizer) indicator |
| 15 | EQ (equalizer) button | 31 | Tr (track) indicator |
| 16 | MO (monaural) button | 32 | Source display / Volume level indicator / Time countdown indicator |
| | | 33 | Main display |
| | | 34 | Sound mode (C-EQ: custom equalizer) indicators |

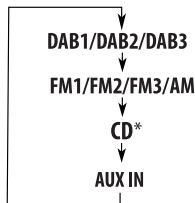
Getting started

Basic operations

- 1 Turn on the power.



- 2

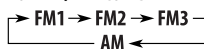


* You cannot select this source if it is not ready.

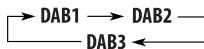
- 3



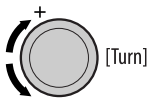
- For FM/AM tuner



- For DAB tuner



- 4 Adjust the volume.



Volume level appears.



- 5 Adjust the sound as you want. (See page 13.)

To drop the volume in a moment (ATT)

To restore the sound, press the button again.



To turn off the power



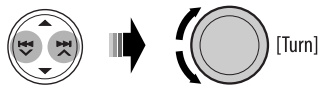
Basic settings

- See also "General settings — PSM" on page 14.

- 1



- 2



- 1 **Canceling the display demonstrations**

Select "DEMO ON," 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

Clock time is shown on the display for about 5 seconds if power is turned off. See also page 14.



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 3 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.



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.



The following features are available only for FM RDS stations.

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.

To store 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 steps 1 and 2 on page 7).
- 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

You can use two types of Standby Reception for FM Station—TA Standby Reception and PTY Standby Reception. TA Standby Reception is also available for DAB services.

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 15).

To activate TA Standby Reception

T/P 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 a station or a DAB service without the signals required for TA Standby Reception.)
To activate TA Standby Reception, tune in to another station or a DAB service providing these signals. The TP indicator will stop flashing and remain lit.

To deactivate the TA Standby Reception

T/P 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 15.

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. The PTY indicator will stop flashing and remain lit.

To deactivate the PTY Standby Reception, select "OFF" for the PTY code (see page 15). The PTY indicator goes off.

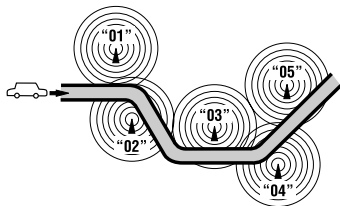
Tracking the same programme— Network-Tracking Reception

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 15.

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 15.

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)

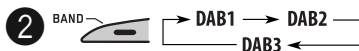
PTY codes

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

DAB tuner operations

This unit can do the following:

- Tracing the same programme automatically —Alternative Frequency Reception (see "DAB AF" on page 15).



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 on page 9...

1



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 9).

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 BAND → DAB1 → DAB2
DAB3 ←

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.

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

To deactivate the Alternative Frequency Reception, see “DAB AF” on page 15.

Other Main DAB Features

■ TA Standby Reception

See page 8.

■ PTY Search

See page 7.

You cannot store PTY codes separately for the DAB tuner and for the FM tuner.

■ Display the radio text information

When TEXT indicator lights on the display, you can check the Dynamic Label Segment (DLS: DAB radio text).

DISP ● [Hold]



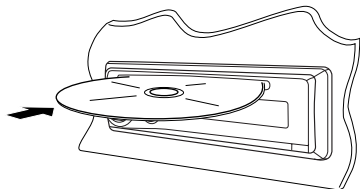
To check the current clock time while listening to a DAB service

DISP ●

Service name → Ensemble name
→ Channel number → Frequency
→ Programme type (PTY)
→ Dynamic Label Segment (DLS)
→ Clock → (back to the beginning)

Disc operations

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.



About MP3 and WMA discs

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

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)

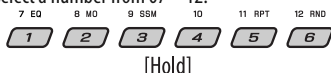


To locate a particular track (for CD) or folder (for MP3 or WMA discs) directly

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.

Other main functions

Skipping tracks quickly during play

- 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)



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

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



Changing the display information



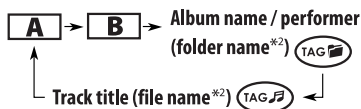
While playing an audio CD or a CD

Text



While playing an MP3 or a WMA disc

- When "TAG DISP" is set to "TAG ON" (see page 16)



- 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 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



2 Select your desired playback mode.

Repeat play

11 RPT



Mode	Plays repeatedly
TRK RPT	: The current track.
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.
DISC RND	: All tracks of the current disc.
RND OFF	: Cancels.

* Only while playing an MP3 or a WMA disc.

Prohibiting disc ejection

You can lock a disc in the loading slot.



+



[Hold]



To cancel the prohibition, repeat the same procedure.

Sound adjustments

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

- 
- 

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

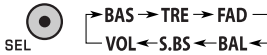

*¹ Bass

*² Treble

*³ 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.

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]

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

VOL (volume), [00 to 30 or 50*³]

Adjust the volume.

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

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

*³ Depending on the amplifier gain control setting. (See page 16 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 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.

*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.

Indications	Item (__: Initial)	Selectable settings, [reference page]
AF-REG Alternative frequency/ regionalization reception	<ul style="list-style-type: none"> • AF • AF REG • OFF*2 	<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), [9]. <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.
PTY-STBY PTY standby	OFF, PTY codes	: Activates PTY Standby Reception with one of the PTY codes, [8].
TA VOL Traffic announcement volume	VOL 00 – VOL 30 or 50 *3	[Initial: VOL 15], [8]
P-SEARCH Programme search	<ul style="list-style-type: none"> • ON • OFF 	<ul style="list-style-type: none"> : Activates Programme Search, [9]. : Cancels.
DAB AF 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, [9, 10]. : Cancels.
DAB VOL 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.
DAB ANT DAB aerial	<ul style="list-style-type: none"> • ON • OFF 	<ul style="list-style-type: none"> : The unit supplies the power to the DAB aerial with the booster. Select when using the DAB aerial with the booster (not supplied). : Select when using the DAB aerial without the booster.
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 *4 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.

*2 Not selectable when "DAB AF" is set to "AF ON"

*3 Depends on the amplifier gain control.

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

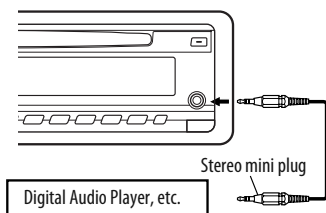
Indications	Item (_: Initial)	Selectable settings, [reference page]
AUX ADJ Auxiliary input level adjustment	A.ADJ 00 — A.ADJ 05	: Adjust the auxiliary input level to match the FM sound level and store it in memory.
TAG DISP Tag display	• TAG ON • TAG OFF	: Shows the Tag information while playing MP3/WMA tracks, [12]. : Cancels.
AMP GAIN Amplifier gain control	• LOW PWR • HIGH PWR	: 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

Other external component operations

You can connect an external component to AUX (auxiliary) input jack on the control panel.

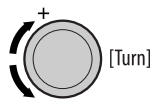
- For connection, see Installation/Connection Manual (separate volume).

Connecting an external component to the AUX input jack



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

- Adjust the volume.



- Adjust the sound as you want. (See page 13.)

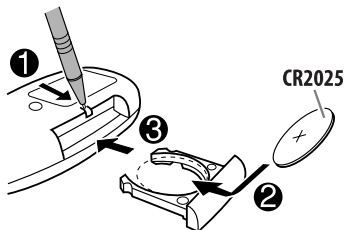
To check the other information while listening to an external component



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)

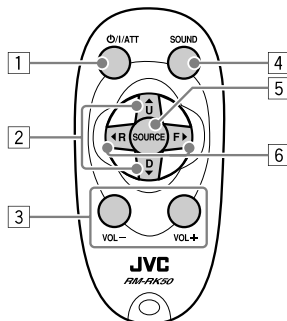


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

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

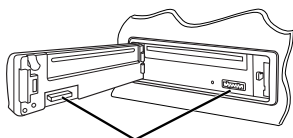


- 1** **⏻/I/ATT** (standby/on/attenuator) button
 - Turns the power on if pressed briefly or attenuates the sound when the power is on.
 - Turns the power off if pressed and held.
- 2** **▲ U (up) / D (down) ▼** buttons
 - Changes the FM/AM/DAB bands with **▲ U**.
 - Changes the preset stations and preset DAB services with **D ▼**.
 - Changes the folder of the MP3/WMA discs.
- 3** **VOL - / VOL +** buttons
 - Adjusts the volume level.
- 4** **SOUND** button
 - Selects the sound mode (C-EQ: custom equalizer).
- 5** **SOURCE** button
 - Selects the source.
- 6** **◀ R (reverse) / F (forward) ▶** buttons
 - Searches for stations and 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.

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:

Warped disc



Sticker



Sticker residue

Directly printed by an inkjet printer



Stick-on label



Unusual shape



Single CD (8 cm disc)

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

- 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 9,15.)
- If you want to know more about RDS, visit <<http://www.rds.org.uk>>.

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.

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.
- 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.

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 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
- 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 “CD” 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.

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"> • 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.
DAB	<ul style="list-style-type: none"> • "noSIGNAL" appears on the display. 	Move to an area with stronger signals.
	<ul style="list-style-type: none"> • "RESET 8" appears on the display. 	Reset the unit (see page 2).
	<ul style="list-style-type: none"> • "ANTENANG" appears on the display. 	Check the cords and connections.
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 12). • 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 or change to another source.
	<ul style="list-style-type: none"> • "PLEASE" and "EJECT" appear alternately on the display. 	<ul style="list-style-type: none"> • Disc is inserted upside down. • Inserted disc does not contain playable files.

	Symptoms	Remedies/Causes
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.
	<ul style="list-style-type: none"> Tracks are not played back in the order you have intended. 	Playback order is determined when the files are recorded.
	<ul style="list-style-type: none"> Elapsed playing time is not correct. 	This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.
	<ul style="list-style-type: none"> Correct characters are not displayed (e.g. album name). 	This unit can only display one-byte characters—letters (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 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:	± 10 dB at 100 Hz
Treble:	± 10 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 Ω load (full scale)
Output Impedance:	1 k Ω
Other Terminals:	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:	11.2 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:	35 dB
MW Tuner	
Sensitivity/Selectivity:	20 μ V/35 dB
LW Tuner	
Sensitivity:	50 μ V
DAB Tuner	
Sensitivity:	-100 dBm (Band III)/ -98 dBm (L-Band)
Selectivity:	40 dB

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:	188 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

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
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61145 Friedberg
Germany

JVC



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