

JVC



CD RECEIVER

KD-LX1

ENGLISH

RECEPTOR CON CD

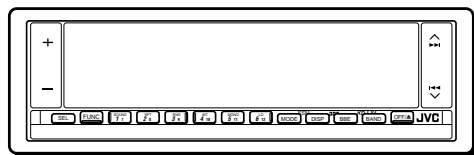
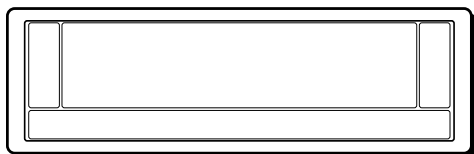
KD-LX1

ESPAÑOL

RECEPTEUR CD

KD-LX1

FRANÇAIS



BBE[®]

For installation and connections, refer to the separate manual.
Para la instalación y las conexiones, refiérase al manual separado.
Pour l'installation et les raccordements, se référer au manuel séparé.

INSTRUCTIONS

MANUAL DE INSTRUCCIONES
MANUEL D'INSTRUCTIONS

For customer Use:

Enter below the Model No. and Serial No. which are located on the top or bottom of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

LVT0223-001A

[J]

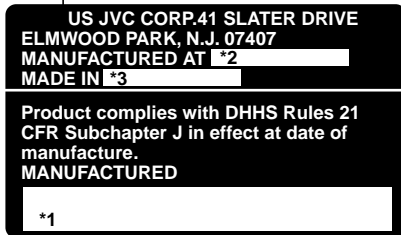
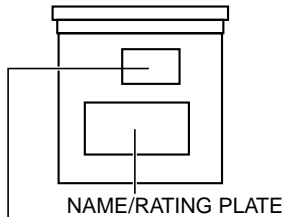
INFORMATION (For U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Identification and Certification labels

Bottom of the main unit

**IMPORTANT FOR LASER PRODUCTS (For U.S.A. only)****Precautions:**

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user-serviceable parts inside. Leave all servicing to qualified service personnel.
4. **CAUTION:** This CD player uses invisible laser radiation, however, is equipped with safety switches to prevent radiation emission when unloading CDs. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes:

- *1 The date of manufacture.
- *2 The ID code of manufacturing plant.
- *3 Marking of country origin.

BEFORE USE*** 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.

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.

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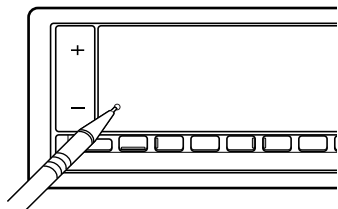
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To be continued on the next page

How to Reset your unit



After installing the unit or when you have troubles with operations, reset the microcomputer built in this unit. Press the reset button on the front panel using a ball-point pen or a similar tool.

- REMEMBER your preset adjustments such as preset channels or sound adjustments will also be erased from memory.

CD CHANGER OPERATIONS 29
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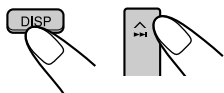
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To activate “DEMO” (Demonstration)



While holding DISP, press ^ >>> until “DEMO” appears on the lower part of the display.

Various functions and display illumination modes equipped for this unit will be demonstrated repeatedly in sequence.

- The DEMO mode will turn off automatically after 1 hour.

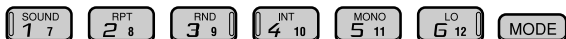
To turn off the DEMO mode, press ^ >>> again while holding DISP until “DEMO” disappears from the lower part of the display.

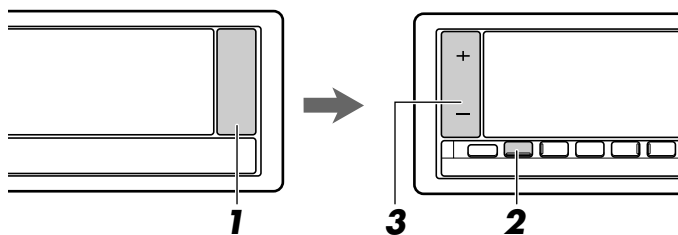
How to use the number buttons:

After pressing MODE (while “MODE” remains on the display), the number buttons work as other different function buttons.

To use these buttons as number buttons after pressing MODE, wait for 5 seconds without pressing any number button so that “MODE” disappears from the display.

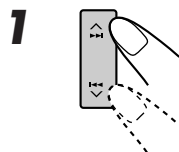
- Pressing MODE again also erases “MODE” from the display.





Note:

When you use this unit for the first time, set the built-in clock correctly, see page 20.



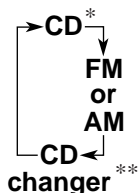
1 Turn on the power.

The display illuminates and the control panel comes out.



2 Select the source.

Each time you press the button, the source changes as described to the left:



To operate the tuner, see pages 6 – 10.

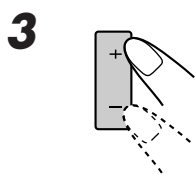
To operate the CD player, see pages 11 – 15.

To operate the CD changer, see pages 29 – 32.

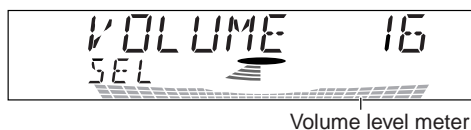
Notes:

* If a CD is not in the loading slot, you cannot select CD as the source to play.

** Without connecting the CD changer, you cannot select it as the source to play.



3 Adjust the volume.



Volume level meter

4 Adjust the sound as you want (see pages 16 – 19).

To drop the volume in a moment

Press FUNC (function) for more than 1 second while listening to any source. "ATT" starts flashing on the display, and the volume level will drop in a moment.

To resume the previous volume level, press the button for more than 1 second again.

To turn off the power

Press and hold OFF/▲ until "SEE YOU" appears on the display.



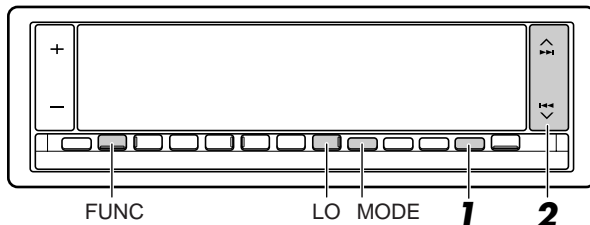
RADIO OPERATIONS

ENGLISH

Listening to the radio

You can use either automatic searching or manual searching to tune into a particular station.

Searching a station automatically: Auto search

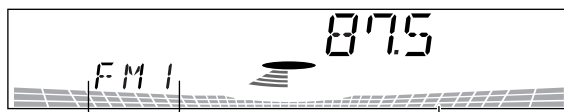


1



Select the band (FM1, FM2, FM3 or AM) you want.

If a CD is in the loading slot or the CD changer is connected, first select the tuner using FUNC. (See page 5.)



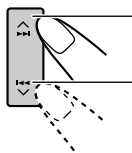
Selected band (then clock time: see page 25) appears.

Level meter (see page 25)

Note:

This receiver has three FM bands (FM1, FM2, FM3). You can use any one of them to listen to an FM broadcast.

2



To search stations of higher frequencies

To search stations of lower frequencies

Start searching a station.

When a station is received, searching stops.

To stop searching before a station is received, press the same button you have pressed for searching.

To tune in FM stations only with strong signals

This function works only while searching FM stations, including SSM preset (see page 8).

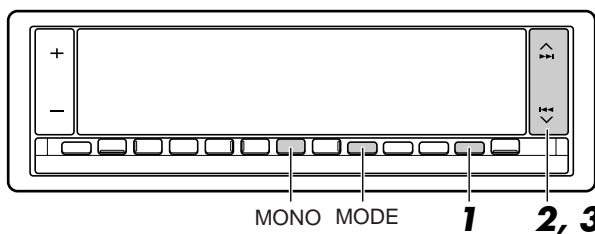
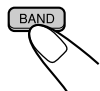
1 Press MODE.

“MODE” appears on the lower part of the display, and the number buttons can work as different function buttons.

2 Press LO (Local), while “MODE” is still on the display, so that the LOCAL indicator lights up on the display.

Each time you press the button, the LOCAL indicator lights up and goes off alternately.

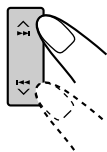
Searching a station manually: Manual search


1


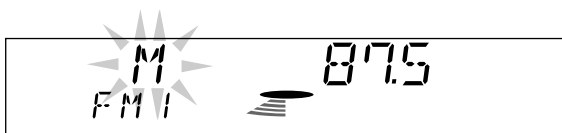
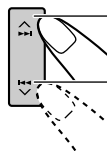
Select the band (FM1, FM2, FM3 or AM) you want.

Note:

This receiver has three FM bands (FM1, FM2, FM3). You can use any one of them to listen to an FM broadcast.

2


Press and hold \wedge \ggg or \lll \vee until "M" (Manual) starts flashing on the display.


3


To tune into stations of higher frequencies

To tune into stations of lower frequencies

Tune into a station you want while "M" is flashing.

- If you release your finger from the button, the manual mode will automatically turn off after 5 seconds.

When an FM stereo broadcast is hard to receive:

1 Press MODE while listening to an FM stereo broadcast (the STEREO indicator lights up while receiving an FM stereo broadcast).

"MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.

2 Press MONO (monaural), while "MODE" is still on the display, so that the MONO indicator lights up on the display.

The sound you hear becomes monaural but reception will be improved (the STEREO indicator goes off).

Each time you press the button, the MONO indicator lights up and goes off alternately.



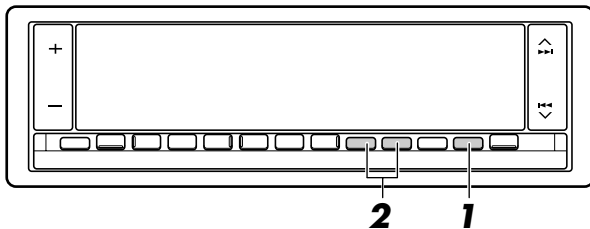
Storing stations in memory

You can use one of the following two methods to store broadcasting stations in memory.

- Automatic preset of FM stations: SSM (Strong-station Sequential Memory)
- Manual preset of both FM and AM stations

FM station automatic preset: SSM

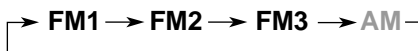
You can preset 6 local FM stations in each FM band (FM1, FM2 and FM3).



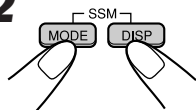
1



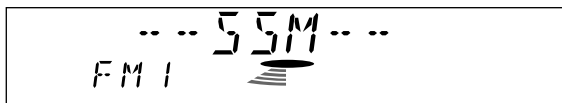
Select the FM band number (FM1, FM2 or FM3) you want to store FM stations into.



2



Press and hold both buttons for more than 2 seconds.



"SSM" appears, then disappears when automatic preset is over.

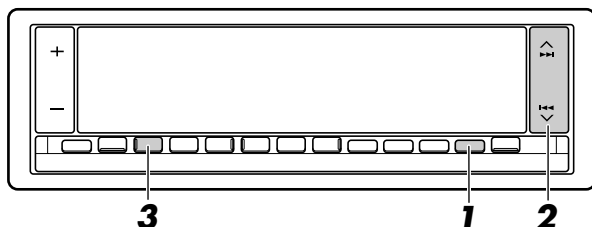
Local FM stations with the strongest signals are searched and stored automatically in the band number you have selected (FM1, FM2 or FM3). These stations are preset in the number buttons — No. 1 (lowest frequency) to No. 6 (highest frequency).

When automatic preset is over, the station stored in number button 1 will be automatically tuned in.

Manual preset

You can preset up to 6 stations in each band (FM1, FM2, FM3 and AM) manually.


EXAMPLE: Storing an FM station of 88.3 MHz into the preset number 1 of the FM1 band

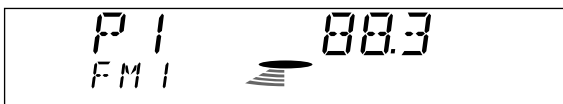


1  Select the FM1 band.

2  Tune into a station of 88.3 MHz.
See page 6 to tune into a station.



3  Press and hold the number button (in this example, 1) for more than 2 seconds.



FM band number and "MEMO"
appears alternately for a while.



4 Repeat the above procedure to store other stations into other preset numbers.

Notes:

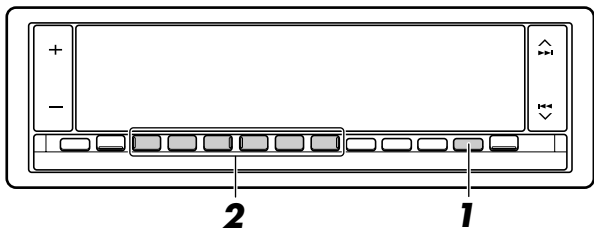
- A previously preset station is erased when a new station is stored in the same preset number.
- Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.



Tuning into a preset station

You can easily tune into a preset station.

Remember that you must store stations first. If you have not stored them yet, see pages 8 and 9.



1



Select the band (FM1, FM2, FM3 or AM) you want.

2



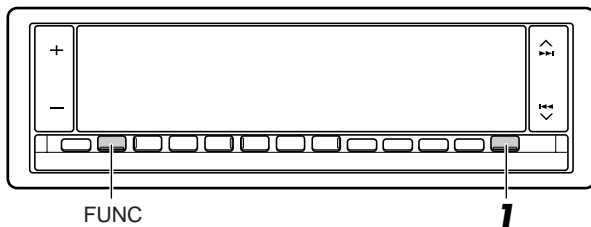
Select the number (1 – 6) for the preset station you want.

When using this unit in an area other than North or South America:


You need to change the AM/FM channel intervals. See "To change the AM/FM channel intervals" on page 26.

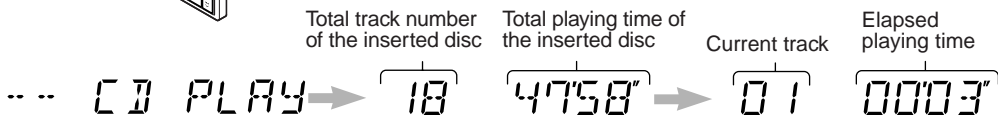


Playing a CD



- 1**  Open the loading slot.
The display panel moves down, and the loading slot appears.

- 2**  Insert a disc into the loading slot.
The unit draws a CD, the display panel moves up, and CD play starts automatically.



Notes:

- When a CD is in the loading slot, selecting "CD" as the source by pressing FUNC starts CD play.
- When a CD is inserted upside down, "CD EJECT" appears on the display and the CD automatically ejects.
- When you play a CD Text, the disc title and performer appear on the display. Then the current track and elapsed playing time appears on the display. See also "Playing a CD Text" (page 12) and "To select the scroll mode" (page 26).
If a CD Text includes much text information, some may not appear on the display.

To stop play and eject the CD

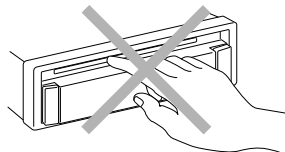
Press OFF/▲ briefly.

CD play stops, the display panel moves down, then the CD automatically ejects from the loading slot.

- If you change the source, the CD play also stops (without ejecting the CD this time).

To close the display panel, press ▲ ►► or ◀◀ ▼.

CAUTION: NEVER insert your finger between the display panel and the unit, as it may get caught in the unit.



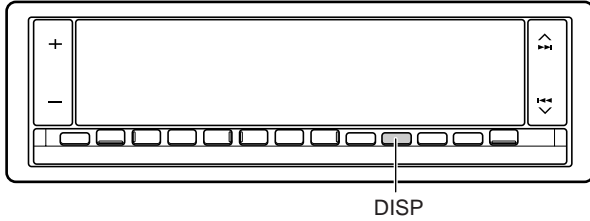
Note:

If the ejected disc is not removed for about 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (CD play will not start this time.)

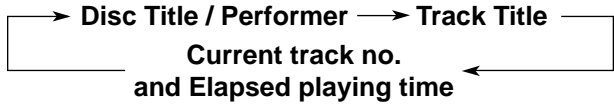


Playing a CD Text

In a CD Text, some information about the disc (its disc title, performer and track title) is recorded. You can show these disc information on the display.



Select text display mode while playing a CD Text. Each time you press the button, the display changes as follows:

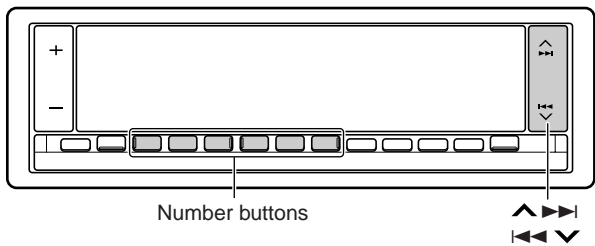


Notes:

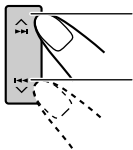
- The display shows up to 10 characters at one time and scrolls if there are more than 10 characters. See also “To select the scroll mode” on page 26. Some characters or symbols will not be shown (and be blanked) on the display. (Ex. “ABC&!d#” ⇒ “ABCA D ”)
- When you press DISP while playing a conventional CD, “NO NAME” appears for the disc title/performer and the track title.



Locating a track or a particular portion on a CD



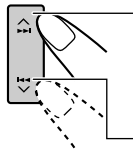
To fast-forward or reverse the track



Press and hold **▶▶▶▶**, while playing a CD, to fast-forward the track.

Press and hold **◀◀◀◀**, while playing a CD, to reverse the track.

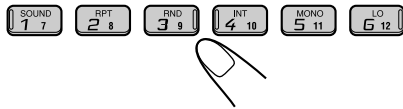
To go to the next tracks or the previous tracks



Press **▶▶** briefly, while playing a CD, to go ahead to the beginning of the next track. Each time you press the button consecutively, the beginning of the next tracks is located and played back.

Press **◀◀** briefly, while playing a CD, to go back to the beginning of the current track. Each time you press the button consecutively, the beginning of the previous tracks is located and played back.

To go to a particular track directly

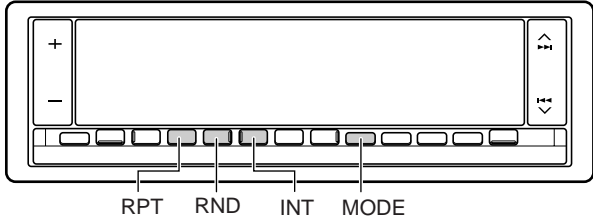


Press the number button corresponding to the track number to start its playback.

- To select a track number from 1 – 6:
Press 1 (7) – 6 (12) briefly.
- To select a track number from 7 – 12:
Press and hold 1 (7) – 6 (12) for more than 1 second.



Selecting CD playback modes

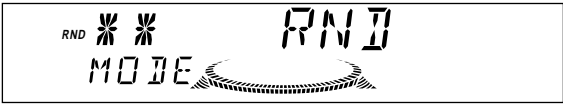


To play back tracks at random (Random Play)

You can play back all tracks on the CD at random.

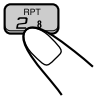


- 1 Press MODE while playing a CD.
"MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
- 2 Press RND (Random), while "MODE" is still on the display, so that the RND indicator lights up on the display.
Each time you press the button, CD random play mode turns on and off alternately.
When the random mode is turned on, the RND indicator lights up on the display and a track randomly selected starts playing.



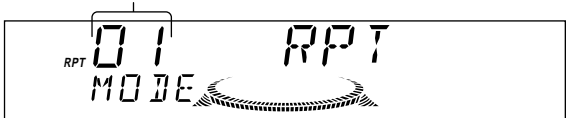
To play back tracks repeatedly (Repeat Play)

You can play back the current track repeatedly.



- 1 Press MODE while playing a CD.
"MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
- 2 Press RPT (Repeat), while "MODE" is still on the display, so that the RPT indicator lights up on the display.
Each time you press the button, CD repeat play mode turns on and off alternately.
When the repeat mode is turned on, the RPT indicator lights up on the display.

Track number of the currently playing track





To play back only intros (Intro Scan)

You can play back the first 15 seconds of each track sequentially.



1 Press MODE while playing a CD.

“MODE” appears on the lower part of the display, and the number buttons can work as different function buttons.

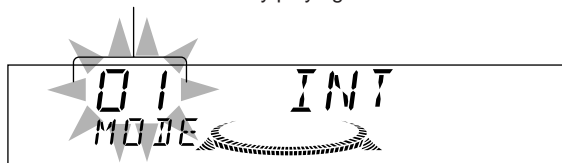


2 Press INT (Intro), while “MODE” is still on the display.

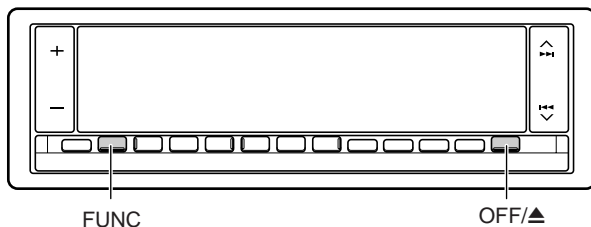
Each time you press the button, CD intro scan mode turns on and off alternately.

When the intro scan mode is turned on, “INT” appears on the display for 5 seconds and the track number flashes.

Track number of the currently playing track



Prohibiting CD ejection



You can prohibit CD ejection and can lock a CD in the loading slot.

While pressing FUNC (Function), press and hold OFF/▲ for more than 2 seconds. “NO EJECT” flashes on the display for about 5 seconds, and the CD is locked and cannot be ejected.



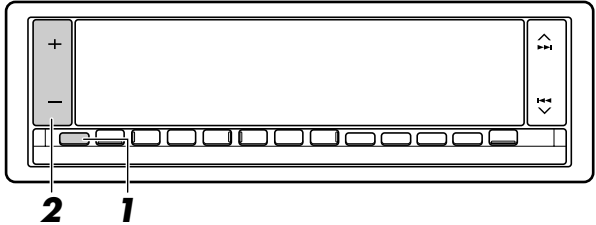
To cancel the prohibition and unlock the CD, press and hold OFF/▲ for more than 2 seconds again, while pressing FUNC. “EJECT OK” flashes on the display for about 5 seconds, and the CD is unlocked.

SOUND ADJUSTMENTS

ENGLISH

Adjusting the sound

You can adjust the sound characteristics to your preference.



1



Select the item you want to adjust.

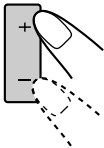


Indication	To do:	Range
BASS	Adjust the bass	-06 (min.) — +06 (max.)
TREBLE	Adjust the treble	-06 (min.) — +06 (max.)
FADER*	Adjust the front and rear speaker balance	R06 (Rear only) — F06 (Front only)
BAL	Adjust the left and right speaker balance	L06 (Left only) — R06 (Right only)
VOLUME	Adjust the volume	00 (min.) — 50 (max.)

Note:

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

2



Adjust the level.

Note:

Normally + / - button works as the volume control. So you do not have to select "VOLUME" to adjust the volume level.



Turning on/off the BBE function

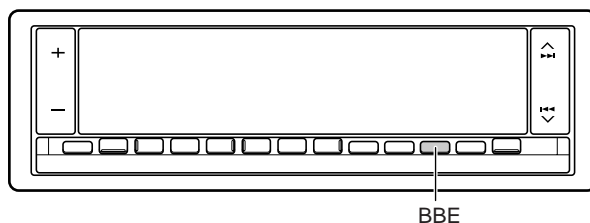
The BBE* function restores the brilliance and clarity of the original live sound in recording, broadcasts, etc.

When a speaker reproduces sound, it introduces frequency-dependent phase shifting, causing high-frequency sounds to take longer to reach the ear than low frequency sounds. The BBE function adjusts the phase relationship between the low, mid and high frequencies by adding a progressively longer delay time to the low and mid frequencies, so that all frequencies reach the listener's ears at the proper time.

In addition, the BBE function boosts low and high frequencies, which loudspeakers tend to be less efficient in reproducing, through dynamic, program-driven augmentation. When combined with the phase compensation feature, the resulting sound has a clearer, more finely detailed "live" presence.

* Under license from BBE Sound, Inc.

BBE® is a trademark of BBE Sound, Inc.



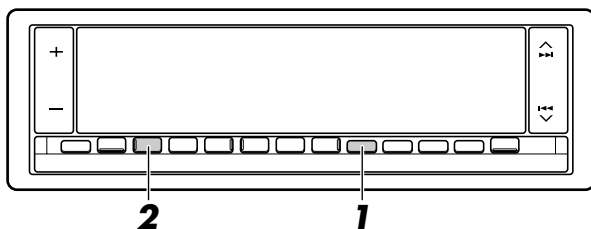
Each time you press BBE, the BBE function turns on and off alternately.





Selecting preset sound modes

You can select a preset sound adjustment suitable to the music genre.



1



Light “MODE” on the lower part of the display.
The number buttons can work as different function buttons.

**Within
5 seconds**

2



Select the sound control mode (SCM) you want.
Each time you press SOUND, the sound control mode (SCM) changes as follows.

→ **SCM BEAT** → **SCM SOFT** → **SCM POP** → **SCM OFF**

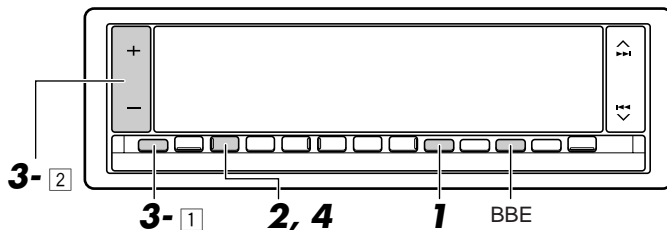
Indication	For:	Preset values		
		Bass	Treble	BBE
SCM OFF	(Flat sound)	00	00	On
SCM BEAT	Rock or disco music	+02	00	On
SCM SOFT	Quiet background music	+01	-03	Off
SCM POP	Light music	+04	+01	Off

Notes:

- You can adjust the preset sound control mode to your preference, and store in memory.
If you want to adjust and store your original sound control mode, see “Storing your own sound adjustments” on page 19.
- To adjust only the bass/treble reinforcement levels and BBE to your preference, see “Adjusting the sound” on page 16 and “Turning on/off the BBE function” on page 17.

Storing your own sound adjustments

You can adjust the sound control modes (BEAT, SOFT, POP: see page 18) to your preference and store your own adjustments in memory.



1 Light “MODE” on the lower part of the display.
The number buttons can work as different function buttons.

REMEMBER you must finish the following steps while “MODE” is still on the display. Otherwise, the setting will be canceled.

2 Select the sound control mode (SCM) you want.
For details, see page 18.

3 **1** To adjust the bass or treble level
2 Adjust the bass or treble level.

BBE
To turn on or off the BBE function
See page 17.

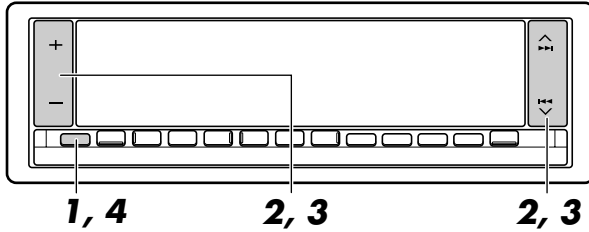
4 Press and hold SOUND.
Your adjustment made for the selected sound control mode is stored in memory.

5 Repeat the same procedure to adjust other items.

To reset to the factory settings

Repeat the same procedure and reassign the preset values listed in the table on page 18.

Setting the clock

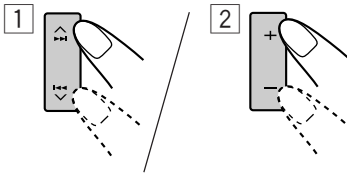


1



Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.

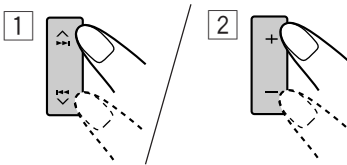
2



Set the hour.

- 1 Select "CLOCK HOUR" if not shown on the display.
- 2 Adjust the hour.

3



Set the minute.

- 1 Select "CLOCK MIN."
- 2 Adjust the minute.

4



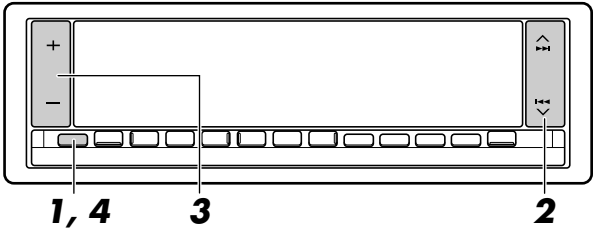
Finish the setting.


To check the current clock time while the unit is turned off, press + or -. The power turns on, the clock time is shown for 5 seconds, then the power turns off.

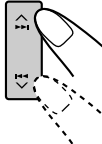
Controlling the volume automatically (Audio Cruise)

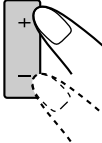
You can select the proper cruise mode for your car. This unit change the volume level automatically (at 3 possible levels) based on the driving speed of your car by detecting the alternator's generating frequency (Audio Cruise). If you want to use this mode, follow the procedures below. When shipped from the factory, this mode is set to "CRUISE OFF."

- CRUISE 1: Select this if your car is relatively quiet.
- CRUISE 2: Select this if your car is relatively loud. The volume increase rate is twice as much as that of the CRUISE 1 setting.
- CRUISE OFF: Cancels Audio Cruise.




1  Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.

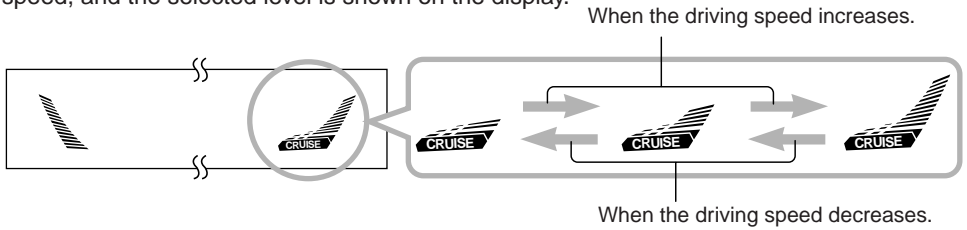
2  Select "CRUISE."

3  Select desired setting.
 Each time you press the button, the Audio Cruise mode changes as follows:

→ CRUISE 1 ↔ CRUISE 2 ↔ CRUISE OFF ←

4  Finish the setting.

When this function is turned on (the CRUISE indicator lights up on the display), the proper volume level is automatically selected among the 3 possible levels according to the driving speed, and the selected level is shown on the display.



To adjust the volume increase rate

If you find Audio Cruise increases (or decreases) the volume either too much or too little as the driving speed changes, you can adjust the increase rate by changing the boost level. To change it, follow the procedure below.

- 1 Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press ▲▶▶I or I◀◀▼ repeatedly until “CRUISE” appears on the display.
- 3 Press + or – to select either “CRUISE 1” or “CRUISE 2.”
- 4 Press ▲▶▶I (or I◀◀▼) to select “BOOST.”
The current boost level also appears on the display.
- 5 Press + or – to select the desired boost level (among 01 to 15).
- 6 Press SEL again to finish the setting.

If Audio Cruise does not function correctly

You may need to store the idling speed into memory to make Audio Cruise function correctly.

NOTICE that a number of factors, such as electric power steering, wipers, power windows, air conditioner, etc. do generate noises and, as a result, may cause Audio Cruise not to function correctly. If this is the main cause of malfunction, connect the memory backup lead (yellow lead) directly to the car battery to prevent these noises from affecting Audio Cruise.

- 1 Start the engine and let it warm up.
- 2 Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
- 3 Press ▲▶▶I or I◀◀▼ repeatedly until “CRUISE” appears on the display.
- 4 Press + or – to select either “CRUISE 1” or “CRUISE 2.”
- 5 Press ▲▶▶I (or I◀◀▼) to select “RPM SET (+OR– SET).”
- 6 Press + or – to select the desired idling speed.
- 7 Press SEL again to finish the setting.

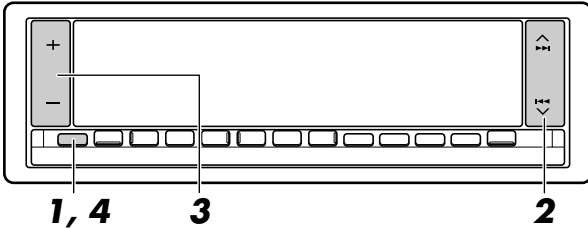
When the setting is complete, the unit automatically checks to see if Audio Cruise functions correctly with this new idling setting. If it does not function correctly, Audio Cruise is canceled automatically and the idling setting becomes invalid.


- If this happens, see the NOTICE above.

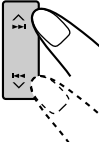
Changing the general settings (PSM)

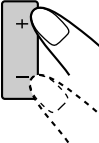
You can change the items listed on the next page by using the PSM (Preferred Setting Mode) control.


Basic Procedure



1  Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.

2  Select the PSM item you want to adjust. (See page 24.)

3  Adjust the PSM item selected above.

4  Finish the setting.

	1	2	3		Factory-preset settings	See page
		Select.		Set.		
CLOCK HOUR	Hour adjustment		Back	Advance	1:00	20
CLOCK MIN	Minute adjustment		Back	Advance		
CLOCK DISP	Clock display		CLOCK OFF	CLOCK ON	CLOCK ON	25
LEVEL	Level display		6 types (See page 25.)		NORMAL	25
DIMMER	Dimmer mode		AUTO ↔ OFF ↕ ON ↕		AUTO	25
CRUISE	Audio cruise		CRUISE 1 ↔ CRUISE 2 ↕ CRUISE OFF ↕		CRUISE OFF	21
RPM SET (+OR- SET)*	Idling speed		—		800 rpm	22
BOOST*	Boost		BOOST 01 –15		BOOST 05	22
BEEP SW	Key-touch tone		BEEP OFF	BEEP ON	BEEP ON	25
P. AMP SW	Power amplifier switch		P. AMP OFF	P. AMP ON	P. AMP ON	26
SCROLL	Scroll mode		ONCE ↔ AUTO ↕ OFF ↕		ONCE	26
AREA	Channel interval		AREA US	AREA EU	AREA US	26

* When you select “CRUISE 1” or “CRUISE 2” for Audio Cruise Mode, you can adjust these items.

4 Press SEL to finish the setting.

To select the clock display

You can select either the clock or the source name to be shown on the lower part of the display. When shipped from the factory, the clock is selected.

- CLOCK ON: Clock
- CLOCK OFF: Source name (or station band)

To check the other information during play

Press DISP (Display). Each time you press the button, the other information (either the clock or the source name) will be shown on the lower part of the display for a while.

To select the level meter

You can select the level meter display according to your preference. When shipped from the factory, "NORMAL" is selected.

- NORMAL: Normal audio level meter
- HIGHWAY: Level meter illuminates as if you are driving on a highway.
- SIDE: Level meter illuminates horizontally.
- RACE: Level meter illuminates as if cars are racing.
- LEVEL OFF: Level meter stays lit and does not change its illumination.
- ALL OFF: Level meter turns off.

To select the dimmer mode

When you turn on the car head lights, the display automatically dims (Auto Dimmer).

When shipped from the factory, Auto Dimmer mode is activated.

- AUTO: Activates Auto Dimmer.
- OFF: Cancels Auto Dimmer.
- ON: Always dims the display.

Note on Auto Dimmer:

Auto Dimmer equipped with this unit may not work correctly on some vehicles, particularly on those having a control dial for dimming.

In this case, set the dimmer mode to "ON" or "OFF."

To turn on/off the key-touch tone

You can deactivate the key-touch tone if you do not want to make it beep when you press a button. When shipped from the factory, the key-touch tone is activated.

- BEEP ON: Activates the key-touch tone.
- BEEP OFF: Deactivates the key-touch tone.

To turn on/off the power amplifier switch

You can switch off the built-in amplifier and send the audio signals only to the external amplifier(s) to get clear sounds and to prevent internal heat buildup inside this unit. When shipped from the factory, the power amplifier switch is turned on so that the built-in amplifier works.

- P. AMP ON: Select this mode when not using external amplifier(s).
- P. AMP OFF: Select this mode when using external amplifier(s).

To select the scroll mode

You can select the scroll mode for the disc information if it consists of more than 10 characters. When shipped from the factory, Auto Scroll mode is set to "ONCE."

- ONCE: Scrolls only once.
- AUTO: Repeats the scroll (5-second intervals in between).
- OFF: Cancels Auto Scroll.

Note:

Even if the scroll mode is set to "OFF," you can scroll the display by pressing DISP for more than 1 second.

To change the AM/FM channel intervals

When this unit is shipped from the factory, the channel intervals are set to 10 kHz for AM and 200 kHz for FM (AREA US settings).

You will have to change the channel intervals when using this unit in an area other than North America and South America.

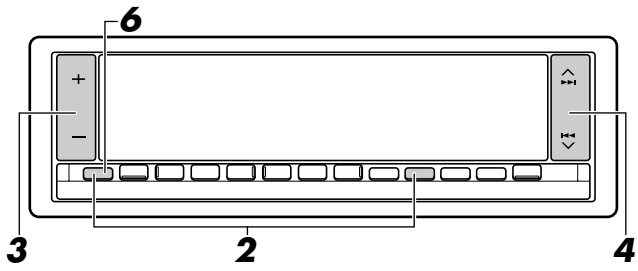
- AREA EU: Select this when using this unit in an area other than North and South America. (9 kHz for AM and 50 kHz (for manual tuning) / 100 kHz (for searching) for FM)
- AREA US: Select this when using this unit in North or South America. (10 kHz for AM and 200 kHz for FM)

Assigning names to the sources

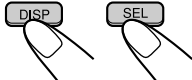
You can assign names to station frequencies and CDs. After assigning a name, it will appear on the display when you select the source.

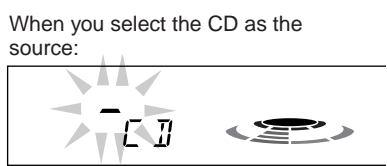
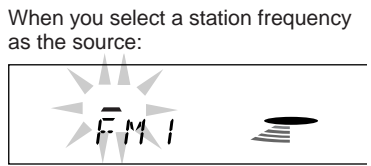
Sources	Maximum number of the characters
Station frequencies	Up to 10 characters (up to 30 station frequencies including both FM and AM)
CDs*	Up to 32 characters (up to 40 discs)

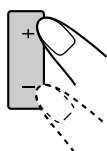
* You cannot assign a name to a CD Text.



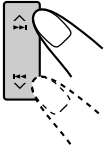
1 Select a source you want to assign a name to.

2  Press and hold SEL (Select) for more than 2 seconds while pressing DISP.



3  Select the character you want while “_” is flashing. Each time you press the button, the character changes. About the available characters, see page 28.

4



Move the cursor to the next (or previous) character position.

5

Repeat steps 3 and 4 until you finish inputting the name.

6



Press the button while the last selected character is flashing.

The input name is stored in memory.

To erase the input characters

Insert spaces using the same procedure described above.

Available characters

A	B	C	D	E	F	G	H	I	J
K	L	M	N	O	P	Q	R	S	T
U	V	W	X	Y	Z	0	1	2	3
4	5	6	7	8	9	-	/	<	>
Space									

Notes:

- When you assign a name to the 41st disc, "NAME FULL" appears on the display. (In this case, delete unwanted names before assignment.)
- When the CD changer CH-X1200 connected, you can assign names to CDs in CH-X1200. These names can also be shown on the display if you insert the CDs in this unit.

CD CHANGER OPERATIONS

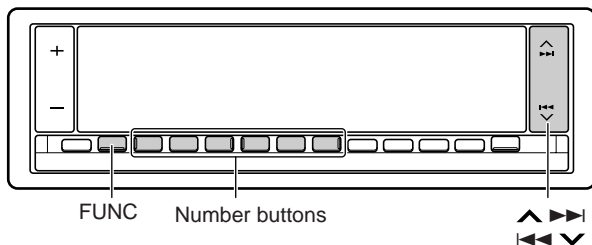
We recommend that you use one of the CH-X series (ex: CH-X1200) with your unit. If you have another CD automatic changer, consult your JVC car audio dealer for connections.

- For example, if your CD automatic changer is one of the KD-MK series, you need a cord (KS-U15K) for connecting it to this unit.

Before operating your CD automatic changer:

- Refer also to the Instructions supplied with your CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "NO DISC" will appear on the display. If this happens, remove the magazine and set the discs correctly.
- If "RESET 1 - RESET 8" appears on the display, something is wrong with the connection between this unit and the CD changer. If this happens, check the connection, connect the connecting cord(s) firmly if necessary, then press the reset button of the CD changer.

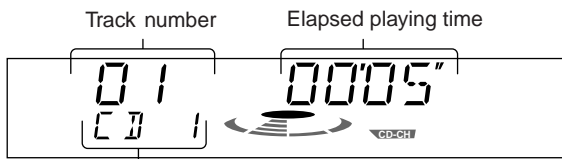
Playing CDs



Select the CD automatic changer.

Each time you press the button, the source changes as described on page 5.

Playback starts from the first track of the first disc. All tracks of all discs are played back.



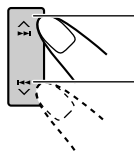
Disc number (then clock time:
see page 25) appears.

Note:

When a CD is in the CD changer, selecting CD changer as the source by pressing FUNC (Function) starts CD play.



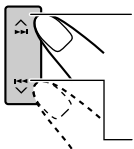
To fast-forward or reverse the track



Press and hold **▶▶▶**, while playing a CD, to fast-forward the track.

Press and hold **◀◀◀**, while playing a CD, to reverse the track.

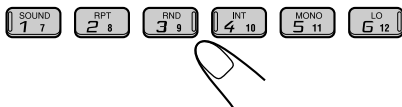
To go to the next tracks or the previous tracks



Press **▶▶▶** briefly, while playing a CD, to go ahead to the beginning of the next track. Each time you press the button consecutively, the beginning of the next tracks is located and played back.

Press **◀◀◀** briefly, while playing a CD, to go back to the beginning of the current track. Each time you press the button consecutively, the beginning of the previous tracks is located and played back.

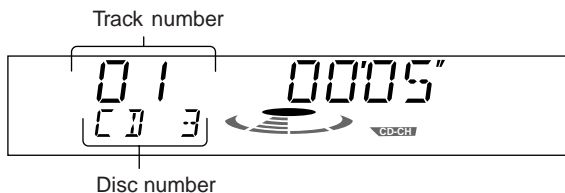
To go to a particular disc directly



Press the number button corresponding to the disc number to start its playback (while the CD changer is playing).

- To select a disc number from 1 – 6:
Press 1 (7) – 6 (12) briefly.
- To select a disc number from 7 – 12:
Press and hold 1 (7) – 6 (12) for more than 1 second.

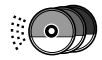
Ex. When disc number 3 is selected



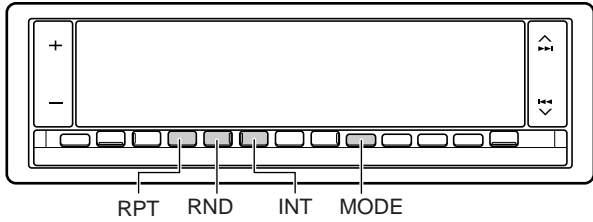
To show the CD Text information

This is possible only when connecting a JVC CD automatic changer equipped with CD Text reading capability.

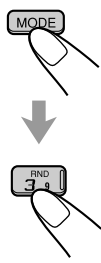
See "Playing a CD Text" on page 12.



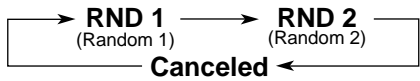
Selecting CD playback modes



To play back tracks at random (Random Play)



- 1 Press MODE while playing a CD. "MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
- 2 Press RND (Random), while "MODE" is still on the display, so that the RND indicator lights up on the display. Each time you press the button, CD random play mode changes as follows:



Mode	RND Indicator	Plays at random
RND 1	Lights	All tracks of the current disc, then the tracks of the next disc, and so on.
RND 2	Flashes	All tracks of all discs inserted in the magazine.

To play back tracks repeatedly (Repeat Play)



- 1 Press MODE while playing a CD. "MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
- 2 Press RPT (Repeat), while "MODE" is still on the display, so that the RPT indicator lights up on the display. Each time you press the button, CD repeat play mode changes as follows:



Mode	RPT Indicator	Plays repeatedly
RPT 1	Lights	The current track (or specified track).
RPT 2	Flashes	All tracks of the current disc (or specified disc).



To play back only intros (Intro Scan)



1 Press MODE while playing a CD.
 "MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.





2 Press INT (Intro), while "MODE" is still on the display.
 Each time you press the button, CD intro scan mode changes as follows:



Mode	Indication	Plays the beginnings (15 seconds)
INT 1	Track number flashes	Of all tracks on all inserted discs.
INT 2	Disc number flashes (when it is shown on the display)	Of the first track on each inserted disc.

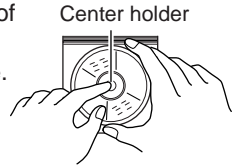
Handling CDs

This unit has been designed only to reproduce the CDs bearing the  and  marks. Other discs cannot be played back.

How to handle CDs

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

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

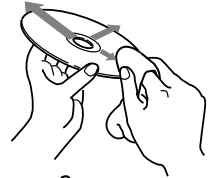


When storing a CD into its case, gently insert the CD around the center holder (with the printed surface facing up).

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

To keep CDs clean

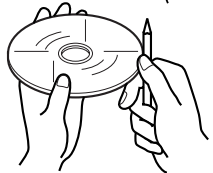
A dirty CD may not play correctly. If a CD does become dirty, wipe it with a soft cloth in a straight line from center to edge.



To play new CDs

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

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



Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:

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

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

CAUTIONS:

- Do not insert 8cm (3 3/16") CDs (single CDs) into the loading slot. (Such CDs cannot be ejected.)
- Do not insert any CD of unusual shape — like a heart or flower; otherwise, it will cause a malfunction.
- Do not expose CDs to direct sunlight or any heat source or place them in a place subject to high temperature and humidity. Do not leave them in a car.
- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean CDs.

About mistracking:

Mistracking may result from driving on extremely rough roads. This does not damage the unit and the CD, but will be annoying.

We recommend that you stop CD play while driving on such rough roads.



TROUBLESHOOTING

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

Symptoms	Causes	Remedies
<ul style="list-style-type: none"> • CD cannot be played back. 	CD is inserted upside down.	Insert the CD correctly.
<ul style="list-style-type: none"> • CD sound is sometimes interrupted. 	You are driving on rough roads.	Stop CD play while driving on rough roads.
	CD is scratched.	Change the CD.
	Connections are incorrect.	Check the cords and connections.
<ul style="list-style-type: none"> • Sound cannot be heard from the speakers. 	The volume level is set to the minimum level.	Adjust it to the optimum level.
	Connections are incorrect.	Check the cords and connections.
<ul style="list-style-type: none"> • SSM (Strong-station Sequential Memory) automatic preset does not work. 	Signals are too weak.	Store stations manually.
<ul style="list-style-type: none"> • Static noise while listening to the radio. 	The antenna is not connected firmly.	Connect the antenna firmly.
<ul style="list-style-type: none"> • "NO DISC" appears on the display. 	No CD is in the magazine.	Insert CD.
<ul style="list-style-type: none"> • "RESET 8" appears on the display. 	This unit is not connected to a CD changer correctly.	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
<ul style="list-style-type: none"> • "RESET 1-RESET 7" appears on the display. 	_____	Press the reset button of the CD changer.
<ul style="list-style-type: none"> • "EJECT ERR" appears on the display and CD cannot be ejected. 	The CD player may function incorrectly.	Press and hold – of the + / – button for more than 5 seconds.
<ul style="list-style-type: none"> • No message appears on the display but CD cannot be ejected. 		While holding ▲▶▶▶ , press the reset button. Release the reset button, then release ▲▶▶▶ . (Be careful not to drop the CD when ejecting.)
<ul style="list-style-type: none"> • This unit does not work at all. • The CD changer does not work at all. 	The built-in microcomputer may function incorrectly due to noise, etc.	Press the reset button on the front panel. (See page 3.)

SPECIFICATIONS

AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 40 watts per channel

Rear: 40 watts per channel

Continuous Power Output (RMS):

Front: 16 watts per channel into 4 Ω , 40 to 20,000 Hz at no more than 0.8 % total harmonic distortion.

Rear: 16 watts per channel into 4 Ω , 40 to 20,000 Hz at no more than 0.8 % total harmonic distortion.

Load Impedance: 4 Ω (4 to 8 Ω allowance)

Tone Control Range:

Bass: ± 10 dB at 100 Hz

Treble: ± 10 dB at 10 kHz

Frequency Response: 40 to 20,000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Out Level/Impedance:

2.0 V/20 k Ω load (full scale)

Output Impedance: 1 k Ω

TUNER SECTION

Frequency Range:

FM: 87.5 to 107.9 MHz

(with channel interval set to 200 kHz)

87.5 to 108.0 MHz

(with channel interval set to 50 kHz)

AM: 530 to 1,710 kHz

(with channel interval set to 10 kHz)

531 to 1,602 kHz

(with channel interval set to 9 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 to 15,000 Hz

Stereo Separation: 35 dB

Capture Ratio: 1.5 dB

[AM Tuner]

Sensitivity: 20 μ V

Selectivity: 35 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 to 20,000 Hz

Dynamic Range: 96 dB

Signal-to-Noise Ratio: 98 dB

Wow and Flutter: Less than measurable limit

GENERAL

Power Requirement:

Operating Voltage: DC 14.4 volts (11 to 16 volts allowance)

Grounding System: Negative ground

Allowable Operating Temperature:

0°C to +40°C (32°F to 104°F)

Dimensions (W x H x D):

Installation Size:

182 x 52 x 160 mm

(7-3/16" x 2-1/16" x 6-5/16")

Panel Size: 188 x 58 x 8 mm

(7-7/16" x 2-5/16" x 3/8")

Mass: 1.7 kg (3.8 lbs) (excluding accessories)

Design and specifications subject to change without notice.

If a kit is necessary for your car, consult your telephone directory for the nearest car audio speciality shop.



**Having TROUBLE with operation?
Please reset your unit**

**Refer to page of How to Reset
Still having trouble??**

USA ONLY

Call 1-800-252-5722

<http://www.jvcservice.com>

We can help you!

JVC
VICTOR COMPANY OF JAPAN, LIMITED