

CD RECEIVER

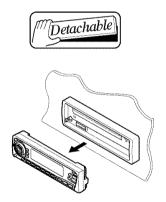
KD-SX950

RECEPTOR CON CD

KD-SX950

RECEPTEUR CD

KD-SX950











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.

INFORMATION (For USA)

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:

- Recrient 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.

IMPORTANT FOR LASER PRODUCTS

Precautions:

- 1. CLASS 1 LASER PRODUCT
- 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.

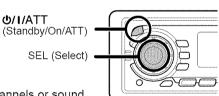
How to reset your unit

Press and hold both the SEL (Select) and Φ/I/ATT (Standby/On/ATT) buttons at the same time for several seconds.

This will reset the built-in microcomputer.

NOTES:

- Your preset adjustments such as preset channels or sound adjustments — will also be erased.
- If a CD is in the unit, "PLEASE" and "EJECT" appear on the display alternately. In this case, press ≜ to eject the CD.
 Pay attention not to drop the CD.



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.

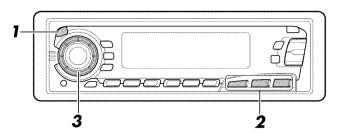
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BASIC OPERATIONS 🔬





Note:

When you use this unit for the first time, set the built-in clock correctly, see page 21.



Turn on the power.

"HELLO" appears on the display.

Note on One-Touch Operation:

When you select a source in step 2 below, the power automatically comes on. You do not have to press this button to turn on the power.

CD-cH FM/AM CD

Select the source.

To operate the tuner, see pages 6 - 10.

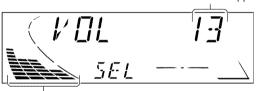
To operate the CD player, see pages 11 – 15.

To operate the CD changer, see pages 33 – 35.

To operate the external component, see page 36.

Adjust the volume.

Volume level appears



Volume level indicator

Δ Adjust the sound as you want (see pages 16 – 20).

To drop the volume in a moment

Press **b/I/ATT** briefly 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 briefly again.

To turn off the power

Press **6/1/ATT** for more than 1 second. "SEE YOU" appears, then the unit turns off.

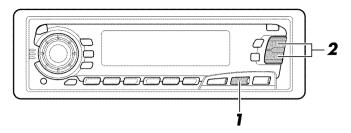
CAUTION on Volume Setting

CDs produces very little noise compared with other sources. If the volume level is adjusted for the tuner, for example, the speakers may be damaged by the sudden increase in the output level. Therefore, lower the volume before playing a CD and adjust it as required during playback.



RADIO OPERATIONS

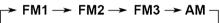
Listening to the radio





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

You can select any one of FM1, FM2, and FM3 to listen to an FM station.

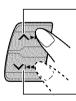




Audio (see page 25) or volume level indicator.

Selected band (or clock time: see page 24) appears.

2



To search stations of higher frequencies.

To search stations of lower frequencies.

Start searching a station.

While searching stations, "SEEK" appears on the display.

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 a particular frequency without searching

- 1 Press FM/AM repeatedly to select the band (FM or AM).
- 2 Press and hold ▲ ►►I or ✓I◄ until "MANU (manual)" starts flashing on the display. Now you can manually change the frequency while "MANU" is flashing.
- 3 Press ∧ ▶►I or ✓I◄◄ repeatedly until the frequency you want is reached.
 - If you hold down the button, the frequency keeps changing until you release the button.



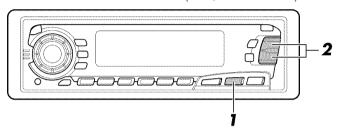
Storing stations in memory

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).





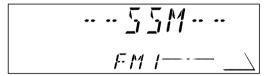
Select the FM band number (FM1, FM2 or FM3) you want to store FM stations into.

$$\rightarrow$$
 FM1 \rightarrow FM2 \rightarrow FM3 \rightarrow AM \neg

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).

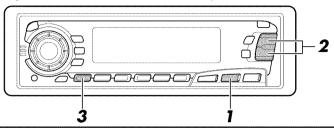
When automatic preset is over, the station stored in number button 1 will be automatically tuned in.



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



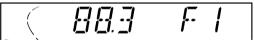


Select the FM1 band.

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.



Selected band and "MEMO" flash alternately for a while.



4

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

Notes:

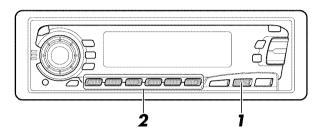
- A previously preset station is erased when a new station is stored in the same preset number.
- Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.



Tuning into a preset station

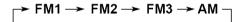
You can easily tune into a preset station.

Remember that you must store stations first. If you have not stored them yet, see pages 7 and 8.





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



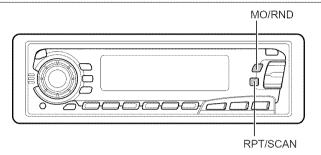
2



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



Other convenient tuner functions



Scanning broadcast stations

When you press RPT/SCAN (Repeat/Scan) while listening to the radio, station scanning starts. Each time a broadcast is tuned in, scanning stops for about 5 seconds ("SCAN" flashes on the display), and you can check what program is now being broadcast.

If you want to listen to that program, press the same button again to stop scanning.

Selecting FM reception sound

When an FM stereo broadcast is hard to receive:

Press MO/RND (Mono/Random) while listening to an FM stereo broadcast. The MONO indicator lights up on the display.

The sound you hear becomes monaural but reception will be improved.



To restore the stereo effect, press the same button again.

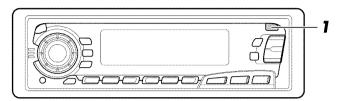
When using this unit in an area other than North or South America:

You need to change the AM/FM channel intervals. See "Changing the AM/FM channel intervals" on page 29.

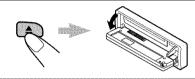
CD OPERATIONS



Playing a CD



1



Open the control panel.

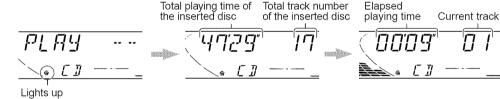
7



1. Insert a disc into the loading slot.

The unit turns on, draws a CD and starts playback automatically.

Close the control panel by hand.



Notes:

- When a CD is inserted up side down, "PLEASE" and "EJECT" appear on the display alternately.
 When you open the control panel by pressing ≜, 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 15) and "Selecting the scroll mode" (page 28).

If a CD Text includes much text information, some may not appear on the display.

Note on One-Touch Operation:

When a CD is already in the loading slot, pressing CD turns on the unit and starts playback automatically.

To stop play and eject the CD

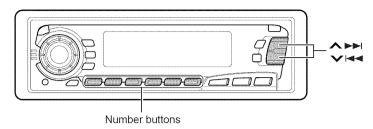
Press

CD play stops, the control panel opens, then the CD automatically ejects from the loading slot. If you change the source to FM, AM, CD changer or external component, the CD play also stops (without ejecting the CD this time).

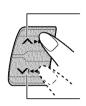
- If the ejected disc is not removed for about 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (CD play will not start this time.)
- You can eject the CD even when the unit is turned off.



Locating a track or a particular portion on a CD

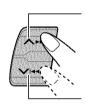


To fast-forward or reverse the track



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

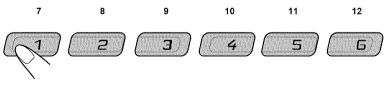
To go to the next tracks or the previous tracks



Press A >> I 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 ➤ I◄ 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

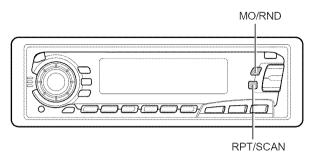


Press the number button corresponding to the track number to start its playback.

- 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.



Each time you press MO/RND (Mono/Random) while playing a CD, 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)

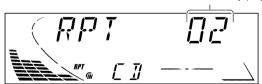
You can play back the current track repeatedly.



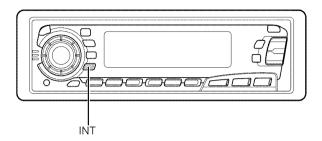
Each time you press RPT/SCAN (Repeat/Scan) while playing a CD, CD repeat play mode turns on and off alternately.

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)



Each time you press INT (Intro) briefly while playing a CD, 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. The first 15 seconds of each track are played sequentially.

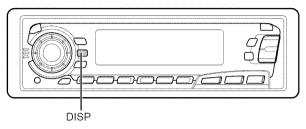
Track number of the currently playing track





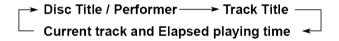
Playing a CD Text

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 8 characters at one time and scrolls if there are more than 8 characters. See also "Selecting the scroll mode" on page 28.

 Some characters or symbols will not be shown (and be blanked) on the display.

 (Ex. "ABCå!d#" ⇒ "ABCA D")
- When you press DISP while playing a conventional CD, "NO NAME" appears for the disc tittle/ performer and the track title.

Prohibiting CD ejection

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

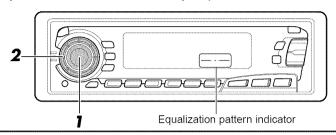
While pressing CD, press and hold **b/I/ATT** for more than 2 seconds. "NO EJECT" flashes on the display for about 5 seconds, and the CD is locked and cannot be ejected.

To cancel the prohibition and unlock the CD, press **\Omega /1/ATT** again for more than 2 seconds, while pressing CD. "EJECT OK" flashes on the display for about 5 seconds, and the CD is unlocked.

SOUND ADJUSTMENTS

Adjusting the sound

You can adjust the sound characteristics to your preference.



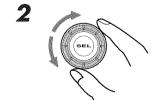


Select the item you want to adjust.

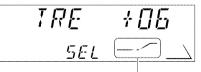
Indication	To do:	Range
BAS (Bass)	Adjust the bass	-06 (min.) — +06 (max.)
TRE (Treble)	Adjust the treble	-06 (min.) — +06 (max.)
FAD (Fader)*	Adjust the front and rear speaker balance	R06 (rear only) — F06 (front only)
BAL (Balance)	Adjust the left and right speaker balance	L06 (left only) — R06 (right only)
WOOFER (Subwoofer)	Adjust the subwoofer output level	0 — 8
VOL (Volume)	Adjust the volume	00 (min.) — 50 (max.)

Note:

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



Adjust the level.



Equalization pattern changes as you adjust the bass or treble.

Note: Normally the control dial works as the volume control. So you do not have to select "VOL" to adjust the volume level.

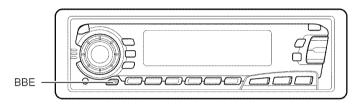


Turning on/off the BBEII function

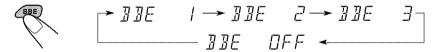
The BBE II* function restores the brilliance and clarity of the original live sound in recording, broadcasts, etc.

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^{II} 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^{II} 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.



Each time you press BBE, the BBE^{II} function changes as follows.



As the number gets higher, the BBE^{II} function becomes stronger. The initial setting is BBE 2.

^{*} Under license from BBE Sound, Inc.

BBE is a trademark of BBE Sound, Inc.



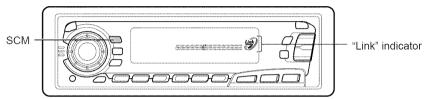
Using the Sound Control Memory

You can select and store a preset sound adjustment suitable to each playback source. (Advanced SCM)

Selecting and storing the sound modes

Once you select a sound mode, it is stored in memory, and will be recalled every time you select the same source. A sound mode can be stored for each of the following sources — FM1, FM2, FM3, AM, CD and external components.

If you do not want to store the sound mode separately for each playback source, but want to
use the same sound mode for all the sources, see "Canceling Advanced SCM" on page 24.





Select the sound mode you want.

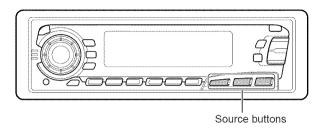
Each time you press the button, the sound mode changes as follows:

- If the "Link" indicator is lit on the display (with "SCM LINK" set to "LINK ON" — see page 24), the selected sound mode can be stored in memory for the current source, and the effect applies to the current source.
- If the "Link" indicator is NOT lit on the display (with "SCM LINK" set to "LINK OFF"), the selected sound mode effect applies to any source.

Indication	For:	Preset values		
		Bass	Treble	BBE ^{II}
SCM OFF	(Flat sound)	00	00	BBE 2
BEAT	Rock or disco music	+02	00	BBE 2
SOFT	Quiet background music	+01	-03	Off
POP	Light music	+04	+01	Off



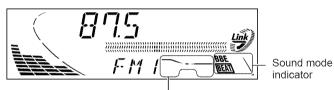
Recalling the sound modes





Select the source while the "Link" indicator is lit on the display.

The "Link" indicator starts flashing, and the sound mode stored in memory for the selected source is recalled.



Equalization pattern of the selected sound mode appears.

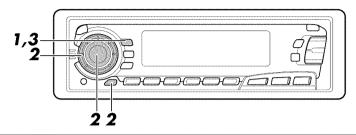
Notes:

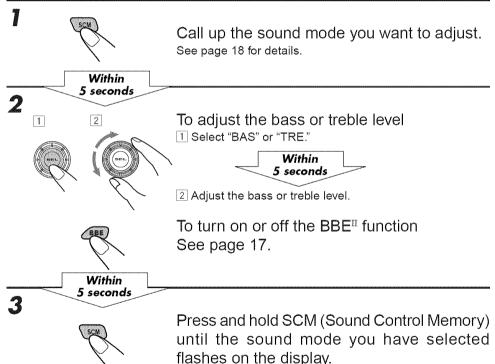
- You can adjust each sound mode to your preference, and store it in memory.
 If you want to adjust and store your original sound mode, see "Storing your own sound adjustments" on page 20.
- To adjust the bass and treble reinforcement levels or to turn on/off the BBE^{II} function temporarily, see pages 16 and 17. (Your adjustments will be canceled if another source is selected.)



Storing your own sound adjustments

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





4 Repeat the same procedure to store other settings.

To reset to the factory settings

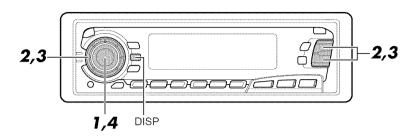
Repeat the same procedure and reassign the preset values listed in the table on page 18.

Your setting is stored in memory.

OTHER MAIN FUNCTIONS 2000



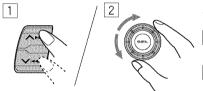
Setting the clock





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

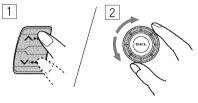
2



Set the hour.

- 1 Select "CLOCK H (Hour)" if not shown on the display.
- 2 Adjust the hour.

3



Set the minute.

- Select "CLOCK M (Minute)."
- 2 Adjust the minute.

4



Finish the setting.

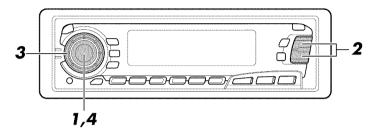
To check the current clock time while the unit is turned off, press DISP.

The power turns on, the clock time is shown for 5 seconds, then the power turns off.

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





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 23.)

3



Select or adjust the PSM item selected above.

4



Finish the setting.



		v			
	2 Select.	3	Set.	Factory-preset settings	See page
CLOCK H	Hour adjustment	Back	Advance	1:00	21
CLOCK M	Minute adjustment	Back	Advance	1:00	21
SCM LINK	Sound control memory linkage	LINK OFF	LINK ON	LINK ON	24
CLOCK	Clock display	OFF	ON	ON	24
LEVEL	Level display	AUDIO 1 ←	→ AUDIO 2 FF ←	AUDIO 2	25
DIMMER	Dimmer	/ to 10 1	→ OFF	AUTO	25
CRUISE	Audio cruise	CRUISE 1 +	→ CRUISE 2	OFF	26
RPM SET*	Idling speed			800 rpm	27
BOOST*	Boost	01–	- 15	05	27
BEEP	Key-touch tone	OFF	ON	ON	28
SCROLL	Name display		→ AUTO	ONCE	28
CUTOFF F	Subwoofer cutoff frequency		→ HIGH OW ←	MID	28
AREA	Channel interval	AREA US	AREA EU	AREA US	29
LINE IN**	External component	CHANGER	LINE IN	CHANGER	29

When you select "CRUISE 1" or "CRUISE 2" for Audio Cruise mode, you can adjust these items. Displayed only when one of the following source is selected — FM, AM and CD.

[•] Press SEL (Select) when the setting is complete.



Canceling Advanced SCM

You can cancel the Advanced SCM (Sound Control Memory), and unlink the sound modes and the playback sources.

When shipped from the factory, a different sound mode can be stored in memory for each source so that you can change the sound modes simply by changing the sources.

- LINK ON: Advanced SCM (different sound modes for different sources)
- LINK OFF: Conventional SCM (one sound mode for all sources)
- 1. Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2. Select "SCM LINK" with ∧ ▶►I or ✓ I◄<.
- 3. Select the desired mode with the control dial. The SCM LINK mode changes as follows:

LINK ON ← → LINK OFF

Selecting 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.

- ON: Clock
- OFF: Source name (or station band)
- 1. Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2. Select "CLOCK" with A >> or V
- Select the desired mode with the control dial.
 The clock display mode alternates between on and off.

ON ←→ OFF

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.



Selecting the level display

You can select the level display according to your preference. When shipped from the factory, "AUDIO 2" is selected.

- · AUDIO 1: Shows the audio level indicator and the equalization pattern indicator
- AUDIO 2: Alternates "AUDIO 1" setting and illumination display
- OFF: Erases the audio level indicator and the equalization pattern indicator
- 1. Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2. Select "LEVEL" with ∧ ▶►I or ▼I◄<.
- Select the desired mode with the control dial. The level display setting changes as follows:

Selecting 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
- 1. Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Select "DIMMER" with A >> or VI
- 3. Select the desired mode with the control dial.

The dimmer mode changes as follows:

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".



Controlling the volume automatically (Audio Cruise Mode)

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 "OFE"

- CRUISE 1: Select this if your car is relatively quiet.
- CRUISE 2: Select this if your car is relatively loud.

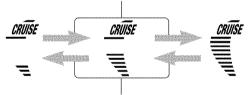
The volume increase rate is twice as much as that of the CRUISE 1 setting.

- 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" with ∧ ▶►I or VI◄◄ until it appears.
- 3. Select the desired mode with the control dial.

The cruise mode changes as follows:

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.

When the driving speed increases.



When the driving speed decreases.



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. Select "CRUISE" with ∧ ▶▶ or ∨ I◄◄.
- 4. Select either "CRUISE 1" or "CRUISE 2" with the control dial.
- 5. Select "RPM SET" with ∧ ▶▶I or ✓ I◄◄.
- 6. Select the desired idling speed as you want with the control dial.

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.

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. Select "CRUISE" with ∧ ▶▶I or ✓ I◄◄.
- 3. Select either "CRUISE 1" or "CRUISE 2" with the control dial.
- Select "BOOST" with ▲ ▶►I or ▼I◄◄.
 The current boost level appears on the display.
- 5. Select the desired boost level (among 01 to 15) as you want while the current boost level is shown on the display with the control dial.
 - To increase the volume increase rate, rotate it clockwise.
 - To decrease the volume increase rate, rotate it counterclockwise.



Turning 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.

- · ON: Activates the key-touch tone.
- · OFF: Deactivates the key-touch tone.
- Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears
 on the display.
- 2. Select "BEEP" with ∧ ▶►I or ✓ I◄◄.
- 3. Select the desired mode with the control dial.

The key-touch tone alternates between on and off.

Selecting the scroll mode

You can select the scroll mode for the name display and disc information if it consists of more than 8 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
- Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2. Select "SCROLL" with ∧ ▶►I or ✓ I◄<
- Select the desired mode with the control dial.

The scroll mode changes as follows:

Note:

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

Selecting the subwoofer cutoff frequency

When a subwoofer is connected to this unit, select an appropriate cutoff frequency level for your subwoofer. When shipped from the factory, the subwoofer cutoff frequency is set to "MID."

- MID: Frequencies higher than 80 Hz are cut off to the subwoofer.
- HIGH: Frequencies higher than 120 Hz are cut off to the subwoofer.
- LOW: Frequencies higher than 50 Hz are cut off to the subwoofer.
- 1. Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2. Select "CUTOFF F" with ∧ ▶►I or ∨ I◄<.
- 3. Select the desired mode with the control dial.

The subwoofer cutoff frequency changes as follows:

$$ightharpoonup$$
 MID $ightharpoonup$ HIGH $ightharpoonup$ LOW $ightharpoonup$



Changing 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)
- Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2. Select "AREA" with ∧ ▶▶I or VI◄<.
- Select the desired mode with the control dial.
 The AM/FM channel interval changes as follows:

AREA EU ← → AREA US

Selecting the external component to use

You can connect the external component to the CD changer jack on the rear using the Line Input Adaptor KS-U57 (not supplied).

To use the external component as the playback source through this unit, you need to select which component — CD changer or external component — to use. When shipped from the factory, CD changer is selected as the external component.

- LINE IN: To use the external component other than CD changer
- · CHANGER: To use the CD changer
- 1. Change the source to FM, AM or CD with FM/AM or CD.
- 2. Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
- 3. Select "LINE IN" with ∧ ▶►I or ✓ I◄◄.
- 4. Select the desired mode with the control dial.

The external component selecting mode changes as follows:

LINE IN ← → CHANGER

Note:

For connecting the Line Input Adaptor KS-U57 and the external component, refer to the Installation/Connection Manual (separate volume).

Detaching the control panel

You can detach the control panel when leaving the car.

When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

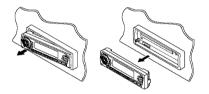
How to detach the control panel

Before detaching the control panel, be sure to turn off the power.

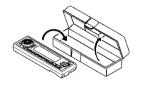
Unlock the control panel.



Pull the control panel out of the unit.

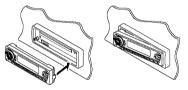


Put the detached control panel into the provided case.



How to attach the control panel

Insert the right side of the control panel into the groove on the panel holder.



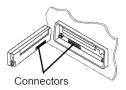
Press the left side of the control panel to fix it to the panel holder.



Note on cleaning the connectors:

If you frequently detach the control panel, the connectors will deteriorate.

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

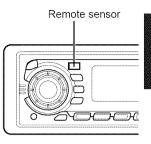


REMOTE OPERATIONS



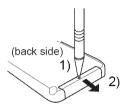
Before using the remote controller:

- Aim the remote controller directly at the remote sensor on the main unit. Make sure there is no obstacle in between.
- Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).



Installing the battery

When the controllable range or effectiveness of the remote controller decreases, replace the battery.





1. Remove the battery holder.

- 1) Push out in the direction indicated by the arrow using a ball point pen or a similar tool.
- 2) Remove the battery holder.

2. Place the battery.

Slide the battery into the holder with the + side facing upwards so that the battery is fixed in the holder.

3. Return the battery holder.

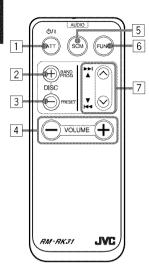
Insert again the battery holder pushing it until you hear a clicking sound.

WARNING:

- Store the batteries in a place which children cannot reach.
 If a child accidentally swallows the battery, immediately consult a doctor.
- Do not recharge, short, disassemble or heat the batteries or dispose of in a fire.
 Doing any of these things may cause the batteries to give off heat, crack or start a fire.
- Do not leave the batteries with other metallic materials.
 Doing this may cause the batteries to give off heat, crack or start a fire.
- When throwing away or saving the batteries, wrap in tape and insulate; otherwise, , it may cause the batteries to give off heat, crack or start a fire.
- Do not poke the batteries with tweezers or similar tools.
 Doing this may cause the batteries to give off heat, crack or start a fire.



Using the remote controller



- The Functions the same as the Φ/I/ATT button on the main unit.
- Functions as the BAND button while listening to the radio.

 Each time you press the button, the band changes.
 - Functions as the DISC + button while listening to the CD changer.

Each time you press the button, the disc number increases, and the selected disc starts playing.

- Does not function as the PROG button.
- Functions as the PRESET button while listening to the radio.

Each time you press the button, the preset station number increases, and the selected station is tuned in.

Functions as the DISC – button while listening to the CD changer.

Each time you press the button, the disc number decreases, and the selected disc starts playing.

- 4 Functions the same as the control dial on the main unit.

 Note: This button does not function for the preferred setting mode
- Note: This button does not function for the preferred setting mode adjustment.

 | Select the sound mode.
- Each time you press SCM (Sound Control Memory), the mode changes.
- 6 Select the source.

Each time you press FUNC (function), the source changes.

- 7 Searches stations while listening to the radio.
 - Fast forwards or reverses the track if pressed and held while listening to a CD.
 - Skips to the beginning of the next tracks or goes back to the beginning of the current (or previous tracks) if pressed briefly while listening to a CD.

CD CHANGER OPERATIONS (1)

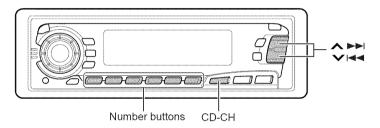
We recommend that you use one of the CH-X series (ex: CH-X1200) with your unit. If you have another CD automatic changer, consult your JVC car audio dealer for connections.

• 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.

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



Disc number (or clock time: see page 24) appears.

Note on One-Touch Operation:

When you press CD-CH, the power automatically comes on. You do not have to press **\Omega**/I/ATT to turn on the power.



To fast-forward or reverse the track



Press and hold ^ >> I, while playing a CD, to fast-forward the track.

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

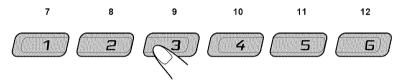
To go to the next tracks or the previous tracks



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 | v 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

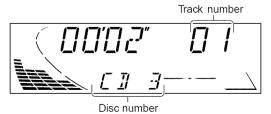


Press the number button corresponding to the disc number to start its playback (while the CD changer is playing).

- 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

See "Playing a CD Text" on page 15.



Selecting CD playback modes

To play back tracks at random (Random Play)



Each time you press MO/RND (Mono/Random) while playing a CD, CD random play mode changes as follows:



Mode	RND Indicator	Plays at random
RND1	Lights	All tracks of the current disc, then the tracks of the next disc, and so on.
RND2	Flashes	All tracks of all discs inserted in the magazine.

To play back tracks repeatedly (Repeat Play)



Each time you press RPT/SCAN (Repeat/Scan) while playing a CD, CD repeat play mode changes as follows:



Mode	RPT Indicator	Plays repeatedly	
RPT1	Lights	The current track (or specified track).	
RPT2	Flashes	All tracks of the current disc (or specified disc).	

To play back only intros (Intro Scan)



Each time you press INT (Intro) briefly while playing a CD, CD intro scan mode changes as follows:



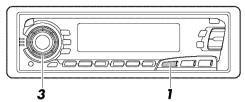
Mode	Indication	Plays the beginnings (15 seconds)
INT1	Track number flashes	Of all tracks on all inserted discs.
INT2	Disc number flashes	Of the first track on each inserted disc.



EXTERNAL COMPONENT OPERATIONS

Playing an external component

You can connect the external component to the CD changer jack on the rear using the Line Input Adaptor KS-U57 (not supplied).

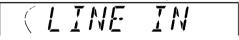


Preparations:

- For connecting the Line Input Adaptor KS-U57 and the external component, refer to the Installation/Connection Manual (separate volume).
- Before operating the external component using the following procedure, select the external input correctly. (See "Selecting the external component to use" on page 29.)



Select the external component.



- If "LINE IN"* does not appear on the display, see page 29 and select the external input ("LINE IN").
- * Displayed only when one of the following sources is selected FM, AM and CD.

Note on One-Touch Operation:

When you press CD-CH, the power automatically comes on. You do not have to press **\Omega**/1/ATT to turn on the power.

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

3



Adjust the volume.

Using a subwoofer

By connecting a subwoofer to the SUB WOOFER plugs on the rear, you can enjoy enhanced bass sounds and a more realistic theater atmosphere in your car.

· Refer also to the instructions supplied with your subwoofer.

To set the subwoofer cutoff frequency, refer to "Selecting the subwoofer cutoff frequency" on page 28.

To adjust the subwoofer output volume, refer to "Adjusting the sound" on page 16.

MAINTENANCE?

Handling CDs

This unit has been designed only to reproduce the CDs bearing the 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.

When playing a CD-R (Recordable)

You can play back your original CD-Rs on this receiver.

- · Before playing back CD-Rs, read their instructions or cautions carefully.
- Some CD-Rs recorded on CD recorders may not be played back on this receiver because of their disc characteristics, and of the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation occurs on the lens inside the unit.
 - The pickup lens inside the CD player is dirty.
- · Use only "finalized" CD-Rs.
- CD-RWs (Rewritable) cannot be played back on this receiver.
- · Do not use the CD-Rs with stickers or sticking labels on the surface. They may cause malfunctions.

About mistracking:

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

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
CD cannot be played back.	CD is inserted upside down.	Insert the CD correctly.
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.
Sound cannot be heard from the speakers.	The volume is set to the minimum level.	Adjust it to the optimum level.
	Connections are incorrect.	Check the cords and connections.
SSM (Strong-station Sequential Memory) automatic preset does not work.	Signals are too weak.	Store stations manually.
Static noise while listening to the radio.	The antenna is not connected firmly.	Connect the antenna firmly.
"NO DISC" appears on the display.	No CD is in the loading slot (or in the magazine).	Insert CD.
	CD is inserted incorrectly.	Insert it correctly.
"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.
"RESET 1-RESET 7" appears on the display.		Press the reset button of the CD changer.
CD can be neither played back nor ejected.	The CD player may function incorrectly.	Press CD and SEL at the same time for several seconds. ("PLEASE" and "EJECT" appear on the display alternately.) When you open the control panel by pressing ♠, be careful not to drop CD when it is ejected.
This unit does not work at all. The CD changer 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 \(\Omega\)/I/ATT and SEL at the same time for several seconds to reset the unit. (The clock setting and preset stations stored in memory are erased.) (See page 2.)

SPECIFICATIONS

AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 45 W per channel Rear: 45 W per channel

Continuous Power Output (RMS):

Front: 17 W per channel into 4 Ω , 40 Hz

to 20,000 Hz at no more than 0.8 % total harmonic distortion.

Rear: 17 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:

4.0 V/20 k Ω load (full scale)

Output Impedance: 1 k Ω

TUNER SECTION

Frequency Range:

FM: 87.5 MHz to 107.9 MHz

(with channel interval set to 200 kHz)

KHZ)

87.5 MHz to 108.0 MHz

(with channel interval set to 50 kHz)

AM: 530 kHz to 1,710 kHz

(with channel interval set to 10 kHz) 531 kHz 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 Hz to 15,000 Hz

Stereo Separation: 35 dB Capture Ratio: 1.5 dB

[AM Tuner]

Sensitivity: 20 µV 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 Hz 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 V (11 V to 16 V

allowance)

Allowable Working Temperature:

0°C to +40°C (32°F to 104°F)

Grounding System: Negative ground

Dimensions (W x H x D): Installation Size:

> 182 mm x 52 mm x 150 mm (7-3/16" x 2-1/16" x 5-15/16")

Panel Size: 188 mm x 58 mm x 11 mm

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

Mass: 1.4 $\rm kg$ (3.1 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!





