

JVC



ENGLISH

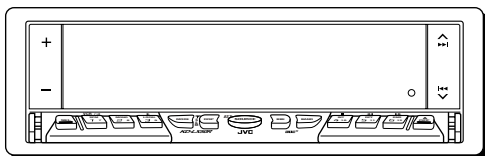
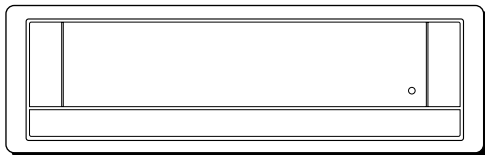
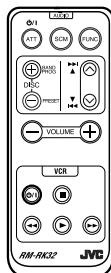
DEUTSCH

FRANÇAIS

NEDERLANDS

CD RECEIVER CD-RECEIVER RECEPTEUR CD CD-RECEIVER

KD-LX50R



For installation and connections, refer to the separate manual.

Angaben zu Einbau und Verkabelung entnehmen Sie bitte der gesonderten Anleitung.

Pour l'installation et les raccordements, se référer au manuel séparé.

Zie de afzonderlijke handleiding voor details aangaande het installeren en verbinden van het toestel.

INSTRUCTIONS

BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING

For Customer Use:

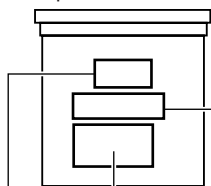
Enter below the password you have entered for your security lock.

Retain this password for future reference.

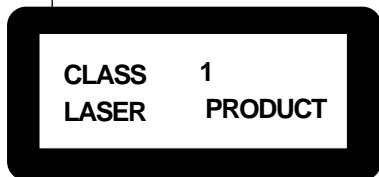
PASSWORD:

Position And Reproduction Of Labels

Bottom panel of the main unit



Name/Rating plate



Caution:
This product contains a laser component of higher laser class than Class 1.

DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgåudsættelse for stråling. (d)	WARNING: Osynlig laserstråling når denna del är öppen och spårren är urkopplad. Betrakta ej strålen. (s)	VARO: Avattaessa ja suojalukitus ohitettaessa olet alltiina näkymättömälle lasersäteilylle. Älä katso säteseen. (f)
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IMPORTANT FOR LASER PRODUCTS

Precautions:

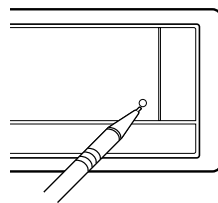
1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user-serviceable parts inside. Leave all servicing to qualified service personnel.
4. **CAUTION:** This CD player uses invisible laser radiation and 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 the reset button on the front panel using a ball-point pen or a similar tool. This will reset the built-in microcomputer.

Note:

Your preset adjustments — such as preset channels or sound adjustments — will also be erased.



Note:

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

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....

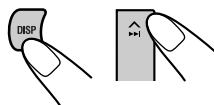
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

WARNINGS

- **DO NOT** install any unit in locations where;
 - it may obstruct the steering wheel and gearshift lever operations, as this may result in a traffic accident.
 - it may obstruct the operation of safety devices such as air bags, as this may result in a fatal accident.
 - it may obstruct visibility.
- **DO NOT** operate any unit while manipulating the steering wheel, as this may result in a traffic accident.
- **DO NOT** register or record the voice commands while driving, as this may result in a traffic accident.
- If you need to operate the receiver while driving, be sure to look ahead carefully or you may be involved in a traffic accident.

CAUTION on Volume Setting
CDs produce 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 disc and adjust it as required during playback.

To activate the display 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. During the display demonstration, “DEMO” flashes on the lower part of the display.


To turn off the display demonstration, press ^ >>> again for a few seconds again while holding DISP.

- The display demonstration will turn off automatically after 1 hour.

How to use the number buttons:

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

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

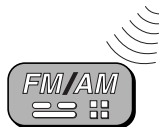


- Pressing MODE BAND again also erases “MODE” from the display.

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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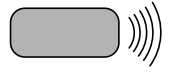
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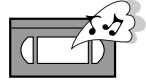
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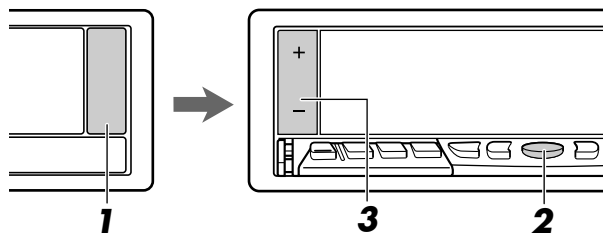
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BASIC OPERATIONS

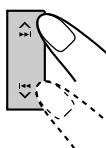
ENGLISH



Notes:

- When you use this unit for the first time, set the built-in clock correctly, see page 48.
- To operate the voice recognition system, see pages 30 – 47.

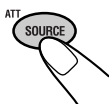
1



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 follows:

- FM → DAB tuner** → CD* → CD changer**
- External component → AM → (back to the beginning)

To operate the tuner (FM or AM), see pages 7 – 19.

To operate the CD player, see pages 20 – 24.

To operate the CD changer, see pages 64 – 67.

To operate the external component, see pages 68 – 69.

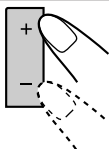
To operate the DAB tuner, see pages 70 – 75.

Notes:

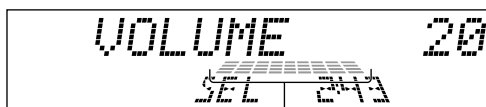
* If a CD is not in the loading slot, you cannot select CD as the source to play.

** Without connecting the CD changer and/or the DAB tuner, 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 25 – 29).

To drop the volume in a moment

Press SOURCE (ATT) 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.

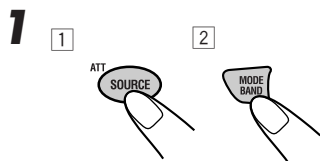
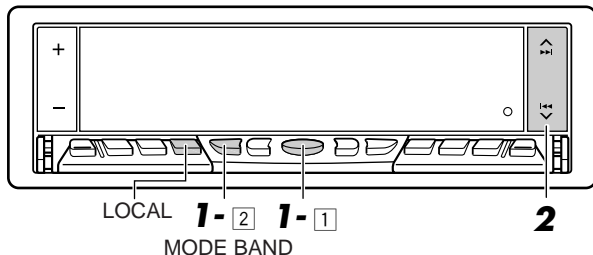
To turn off the power

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

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



Select the band.

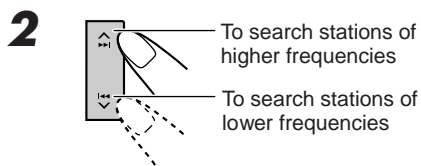
- 1 Press SOURCE (ATT) to select AM or FM as the source.
- 2 If necessary, press and hold MODE BAND to select the FM band number (FM1, FM2 or FM3.)

Each time you press the button, the FM band changes as follows:



Note:

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



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 9).

1 Press MODE BAND.

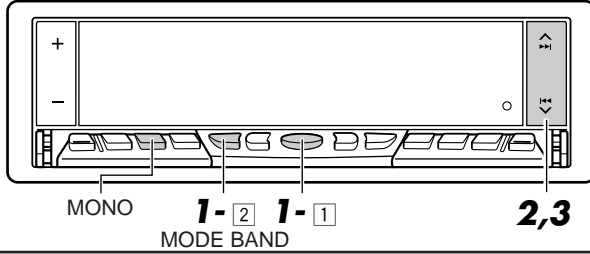
“MODE” appears on the lower part of the display, and the number buttons can work as different function buttons.

2 Press 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.

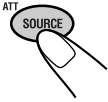


Searching a station manually: Manual search



1

1



2



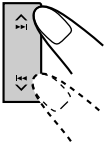
Select the band.

- 1 Press SOURCE (ATT) to select AM or FM as the source.
- 2 If necessary, press and hold MODE BAND to select the FM band number (FM1, FM2 or FM3).

Note:

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

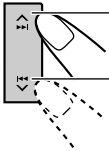
2



Press and hold \wedge $\blacktriangleright\blacktriangleright$ or $\blacktriangleleft\blacktriangleleft$ \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.
- If you hold down the button, the frequency keeps changing (in 50 kHz intervals for FM and 9 kHz intervals for AM — MW/LW) until you release the button.

When an FM stereo broadcast is hard to receive:

1 Press MODE BAND while listening to an FM stereo broadcast (the ST 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 MO indicator lights up on the display.

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

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

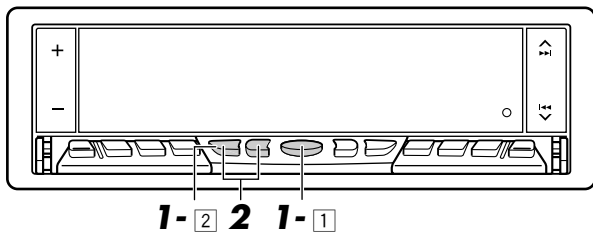
Storing stations in memory

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

1

2

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

- 1 Press SOURCE (ATT) to select FM as the source.
- 2 If necessary, press and hold MODE BAND to select the FM band (FM1, FM2 or FM3).

➤ **FM1** → **FM2** → **FM3**

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).

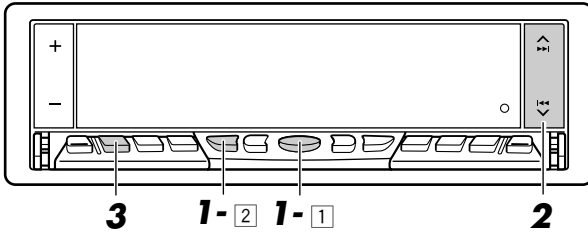
When automatic preset is over, the station stored in number button 1 will be automatically tuned in.



Manual preset

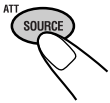
You can preset up to 6 stations in each band (FM1, FM2, FM3 and AM) manually.

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



1

1



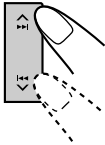
2



Select the band.

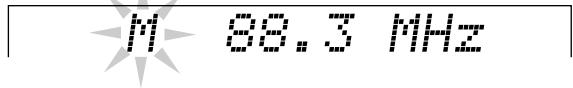
- 1 Press SOURCE (ATT) to select FM as the source.
- 2 Press and hold MODE BAND to select the FM1 band.

2

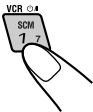


Tune into a station of 88.3 MHz.

See page 7 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" appear alternately for a while.



4

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

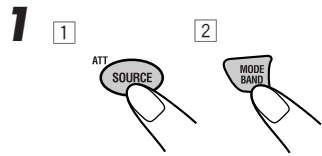
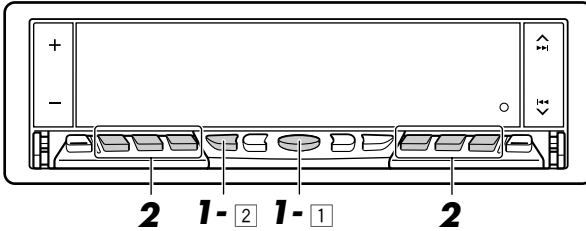
Notes:

- 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

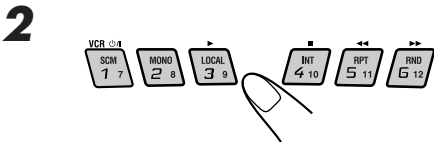
You can easily tune into a preset station.

Remember that you must store stations first. If you have not stored them yet, see pages 9 and 10.



Select the band.

- 1 Press SOURCE (ATT) to select AM or FM as the source.
- 2 If necessary, press and hold MODE BAND to select the FM band number (FM1, FM2 or FM3.)



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

If the sound quality decreases and the stereo effect is lost while listening to an FM station

In some areas, adjacent stations may interfere with each other. If this interference occurs, this unit can automatically reduce this interference noise (the initial setting when shipped from the factory). However, in this case, the sound quality will be degraded and the stereo effect will be also lost.

If you do not want to degrade the sound quality and to lose the stereo effect, rather than to eliminate the interference noise, see "To change the FM tuner selectivity" on page 55.



What you can do with RDS EON

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals. For example, the stations send their station names, as well as information about what type of programme they broadcast, such as sports or music, etc. Another advantage of RDS function is called "EON (Enhanced Other Networks)." The EON indicator lights up while receiving an FM station with the EON data. By using the EON data sent from a station, you can tune into a different station of a different network broadcasting your favorite programme or traffic announcement while listening to another programme or to another source such as CD.

- By receiving the RDS data, this unit can do the following:
- Tracing the same programme automatically (Network-Tracking Reception)
 - Standby Reception of TA (Traffic Announcement) or your favorite programme
 - PTY (Programme Type) search
 - TP (Traffic Programme) search
 - And some other functions

Tracing the same programme automatically (Network-Tracking Reception)

When driving in an area where FM reception is not good, the tuner built in this unit automatically tune in another RDS station, broadcasting the same programme with stronger signals. So, you can continue to listen to the same programme in its finest reception, no matter where you drive. (See the illustration on the next page.)

Two types of the RDS data are used to make Network-Tracking Reception work correctly — PI (Programme Identification) and AF (Alternative Frequency). Without receiving these data correctly from the RDS station you are listening to, Network-Tracking Reception will not operate.



To use Network-Tracking Reception, press and hold TP RDS (Traffic Programme/Radio Data System) for more than 1 second. Each time you press and hold the button, Network-Tracking Reception modes change as follows:



AF indicator — NE REG indicator



Mode 1

The AF indicator lights up but the REG indicator does not. Network-Tracking is activated with Regionalization set to “off.” Switches to another station within the same network when the receiving signals from the current station become weak.

Note:

In this mode, the programme may differ from the one currently received.

Mode 2

Both the AF indicator and the REG indicator light up. Network-Tracking is activated with Regionalization set to “on.” Switches to another station, within the same network, broadcasting the same programme when the receiving signals from the current station become weak.

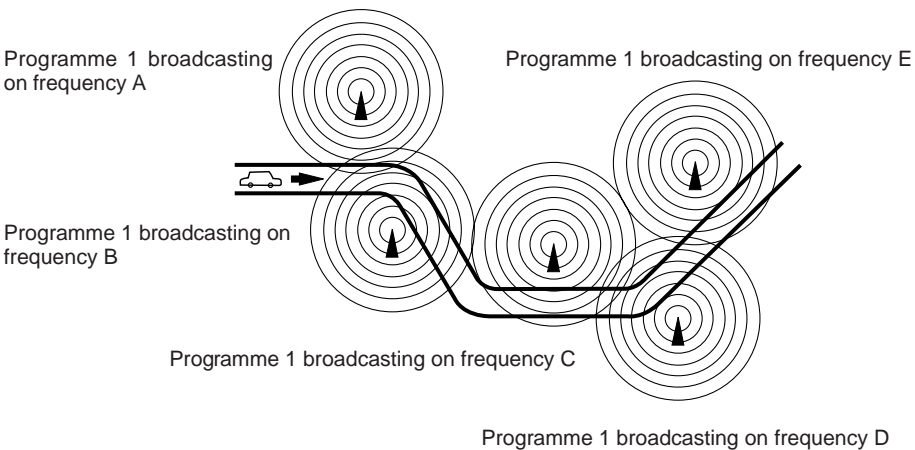
Mode 3

Neither the AF indicator nor the REG indicator lights up. Network-Tracking is deactivated.

Note:

If a DAB tuner is connected and Alternative Reception (for DAB services) is activated, Network-Tracking Reception is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception. (See page 75.)

The same programme can be received on different frequencies.





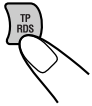
Using Standby Reception

Standby Reception allows the unit to switch temporarily to your favorite programme (PTY: Programme Type) and Traffic Announcement (TA) from the current source (another FM station, CD and other connected components).

Note:

Standby Reception will not work if you are listening to an AM station.

TA Standby Reception



- When you press TP RDS while listening to an FM station, the TP indicator is lit during reception of a TP (Traffic Programme) station and the TA standby mode is engaged.

Note:

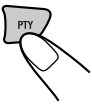
When the station being received is not a TP station, the TP indicator flashes. Press $\blacktriangle\blacktriangleright\blacktriangleright\blacktriangleright$ or $\blacktriangleleft\blacktriangleleft\blacktriangleleft$ to engage the TA standby mode. "SEARCH" appears on the display, and TP station search starts. When a TP station is tuned in, the TP indicator is lit.

- If you are listening to a CD and wish to listen to a TP station, press TP RDS to enter the TA standby mode. (The TP indicator lights up.)

If a traffic programme starts broadcasting while the TA standby mode is active, "TRAFFIC" appears and the playback source changes to the FM band. The volume increases to the preset TA volume level and the traffic programme can be heard (see page 19).

To deactivate the TA standby mode, press TP RDS again.

PTY Standby Reception



- When you press PTY while listening to an FM station, the PTY indicator is lit during reception of a PTY station and the PTY standby mode is engaged. The selected PTY name stored on page 15 flashes for 5 seconds.

Note:

When the station being received is not a PTY station, the PTY indicator flashes. Press $\blacktriangle\blacktriangleright\blacktriangleright\blacktriangleright$ or $\blacktriangleleft\blacktriangleleft\blacktriangleleft$ to engage the PTY standby mode. "SEARCH" appears on the display, and PTY station search starts. When a PTY station is tuned in, the PTY indicator is lit.

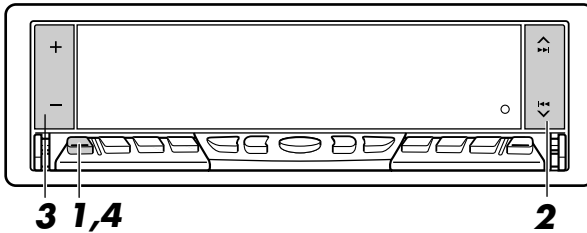
- If you are listening to a CD and wish to listen to a selected PTY broadcast, press PTY to enter the PTY standby mode. (The PTY indicator lights up.)

If the selected PTY programme starts broadcasting while the PTY standby mode is active, the selected PTY name appears and the playback source changes to the FM band. The selected PTY programme can then be heard.

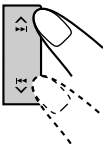
To deactivate the PTY standby mode, press PTY again.

Selecting Your Favorite Programme for PTY Standby Reception

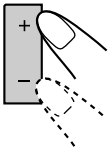
You can select your favorite programme for PTY Standby Reception to store in memory. When shipped from the factory, "NEWS" is stored as the programme type for PTY Standby Reception.


1


Press and hold SEL (select) for more than 2 seconds to call up the Preferred Setting Mode (PSM: see page 51).

2


Select "PTY STANDBY" if not shown on the display.

3


Select one of twenty-nine PTY codes. (See page 18.)
Selected code name appears on the display and is stored into memory.

4


Finish the setting.

Searching Your Favorite Programme

You can search one of your 6 favorite programme types stored in memory. When shipped from the factory, the following 6 programme types have been stored in the number buttons (1 to 6).

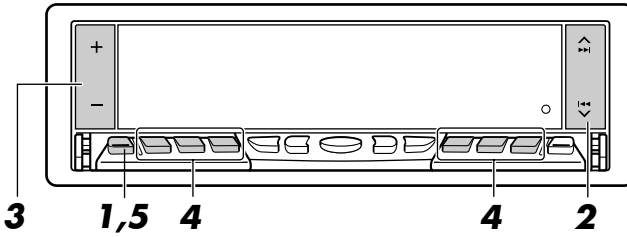
To store your favorite programme types, see page 16.

To search your favorite programme type, see page 17.

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



To store your favorite programme types

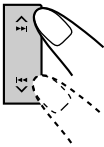


1



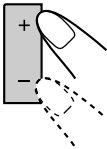
Press and hold SEL (select) for more than 2 seconds to call up the Preferred Setting Mode (PSM: see page 51).

2



Select "PTY SEARCH" if not shown on the display.

3

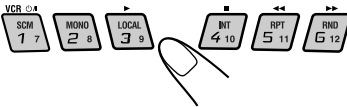


Select one of twenty-nine PTY codes. (See page 18.)

Selected code name appears on the display.

- If the code already stored in memory is selected, it will flash on the display.

4



Press and hold the number button for more than 2 seconds to store the PTY code selected into the preset number you want.

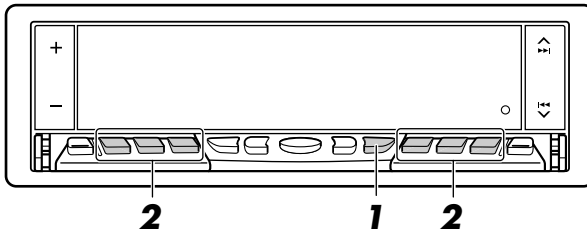
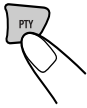
PTY preset number appears, and selected code name and "MEMORY" alternates on the display.

5



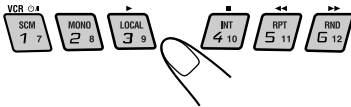
Finish the setting.

To search your favorite programme type

**1**

Press and hold PTY (programme type) for more than 1 second while listening to an FM station.

The last selected PTY code and preset number appear.

**2**

Select one of PTY codes stored in preset number buttons (1 to 6).



Ex. When "ROCK M" is stored in preset number button 2.

PTY search for your favorite programme starts after 5 seconds.

- If there is a station broadcasting a programme of the same PTY code you selected, that station is tuned in.
- If there is no station broadcasting a programme of the same PTY code you selected, the station will not change.

Note:

In some areas, the PTY search will not work correctly.



Other convenient RDS functions and adjustments

Automatic selection of the station when using the number buttons

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

However, when the preset station is an RDS station, something different will happen. If the signals from that preset station are not sufficient for good reception, this unit, using the AF data, tunes in another frequency broadcasting the same programme as the original preset station is broadcasting. In case no other station is tuned in, you can also search all receivable frequencies for the same programme. (Programme search) To activate programme search, follow the procedure below.

- Programme search takes a while.
- See also “Changing the general settings (PSM)” on page 51.

1. Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Press \blacktriangle \blacktriangleright or \blacktriangleleft \blacktriangledown to select “P(Programme)-SEARCH.”
3. Press + to select “SEARCH ON.”
Now programme search is activated.

To cancel programme search, repeat the same procedure and select “SEARCH OFF” in step 3 by pressing –.

PTY codes

NEWS:	News	SOCIAL:	Programmes on social activities
AFFAIRS:	Topical programmes expanding on current news or affairs	RELIGION:	Programmes dealing with any aspect of belief or faith, or the nature of existence or ethics
INFO:	Programmes which impart advice on a wide variety of topics	PHONE IN:	Programmes where people can express their views either by phone or in a public forum
SPORT:	Sport events	TRAVEL:	Programmes about travel destinations, package tours, and travel ideas and opportunities
EDUCATE:	Educational programmes	LEISURE:	Programmes concerned with recreational activities such as gardening, cooking, fishing, etc.
DRAMA:	Radio plays	JAZZ:	Jazz music
CULTURE:	Programmes on national or regional culture	COUNTRY:	Country music
SCIENCE:	Programmes on natural science and technology	NATION M:	Current popular music from another nation or region, in that country's language
VARIED:	Other programmes like comedies or ceremonies	OLDIES:	Classic pop music
POP M:	Pop music	FOLK M:	Folk music
ROCK M:	Rock music	DOCUMENT:	Programmes dealing with factual matters, presented in an investigative style
EASY M:	Easy-listening music		
LIGHT M:	Light music		
CLASSICS:	Classical music		
OTHER M:	Other music		
WEATHER:	Weather information		
FINANCE:	Reports on commerce, trading, the Stock Market, etc.		
CHILDREN:	Entertainment programmes for children		



Changing the display mode while listening to an FM station

You can change the initial indication on the display to either station name (PS NAME) or to station frequency (FREQUENCY), while listening to an FM RDS station.

• See also “Changing the general settings (PSM)” on page 51.

1. Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Press **▲▶▶|** or **|◀◀▼** to select “TUNER DISP (display).”
3. Press + or – to set to the desired indication (“PS NAME” or “FREQUENCY”).

Note:

By pressing DISP, you can also change the display while listening to an FM RDS station.

Each time you press the button, the following information appears on the upper part of the display:

→ **PS (Station name)** → **Station Frequency** → **PTY (Programme type)** →

** Then, the display goes back to the original indication in several seconds.*

Setting the TA volume level

You can preset the volume level for TA Standby Reception. When a traffic programme is received, the volume level automatically changes to the preset level.

• See also “Changing the general settings (PSM)” on page 51.

1. Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Press **▲▶▶|** or **|◀◀▼** to select “TA VOLUME.”
3. Press + or – to set to the desired volume.

Automatic clock adjustment

When shipped from the factory, the clock built in this unit is set to be readjusted automatically using the CT (Clock Time) data in the RDS signal.

If you do not want to use automatic clock adjustment, follow the procedure below.

• See also “Changing the general settings (PSM)” on page 51.

1. Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Press **▲▶▶|** or **|◀◀▼** to select “AUTO ADJUST.”
3. Press – to select “ADJUST OFF.”

Now automatic clock adjustment is canceled.

To reactivate clock adjustment, repeat the same procedure and select “ADJUST ON” in step 3 by pressing +.

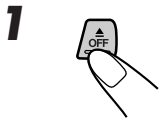
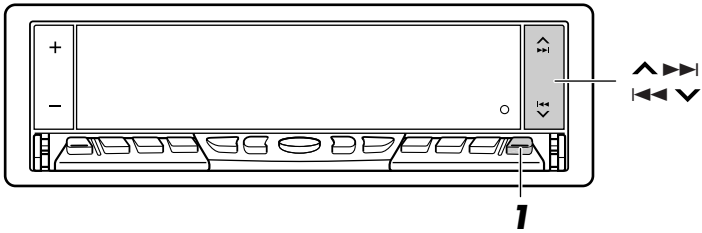
Note:

It takes about 2 minutes to adjust the time using the CT data. So, you must tune to the station for more than 2 minutes continuously; otherwise, the clock time will not be adjusted.

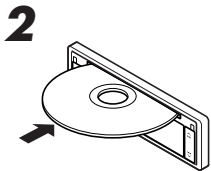


CD OPERATIONS

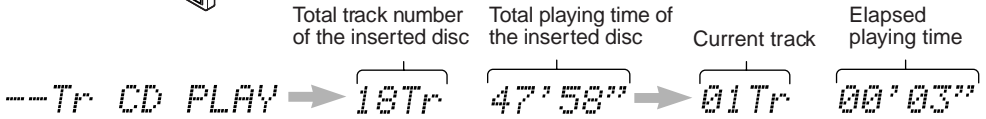
Playing a CD



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 SOURCE (ATT) starts CD play.
- When a CD is inserted upside down, "DISC 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 appear on the display. See also "Playing a CD Text" (page 21) and "To select the scroll mode" (page 54).
- If a CD Text includes much text information, some may not appear on the display.
- If you change the source, the CD play stops (without ejecting the CD).

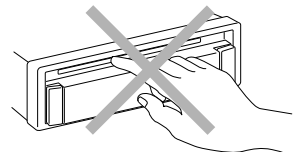
To stop play and eject the CD

Press OFF/▲ briefly.

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

To move up 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.



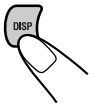
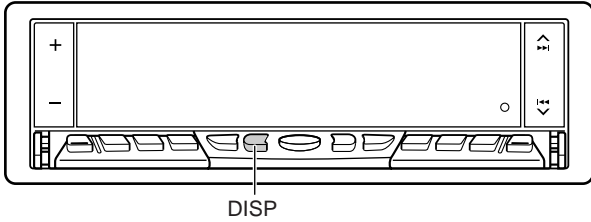
Note:

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.)

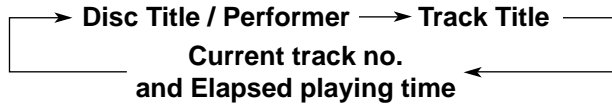


Playing a CD Text

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:

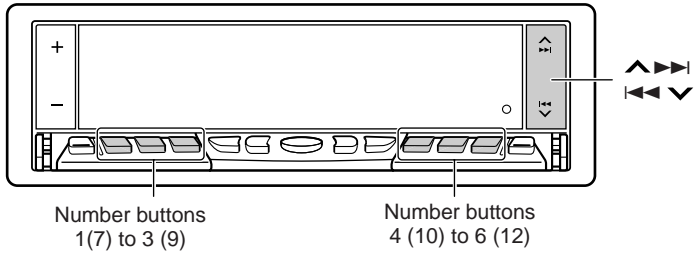


Notes:

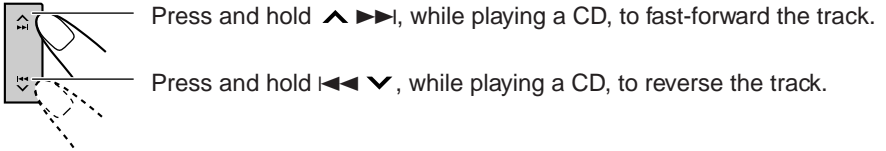
- The display shows up to 12 characters at one time and scrolls if there are more than 12 characters. See also "To select the scroll mode" on page 54.
- When you press DISP while playing a conventional CD, "NO NAME" appears for the disc title/performer and the track title.



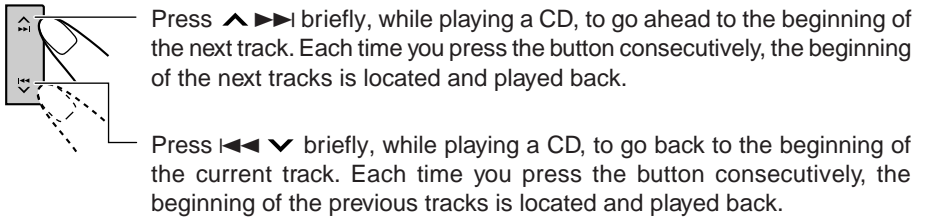
Locating a track or a particular portion on a CD



To fast-forward or reverse the track



To go to the next tracks or the previous tracks



To go to a particular track directly

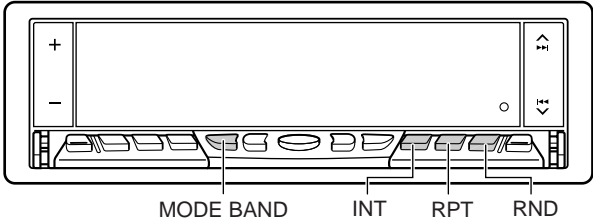


Press the number button corresponding to the track number to start its playback.

- 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.

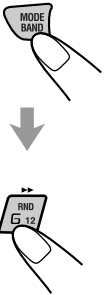


Selecting CD playback modes



To play back tracks at random (Random Play)

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

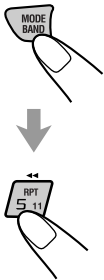


- 1 Press MODE BAND while playing a CD.
"MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
- 2 Press RND (Random), while "MODE" is still on the display, so that the RND indicator lights up on the display.
Each time you press the button, CD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





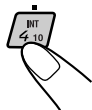
To play back only intros (Intro Scan)

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



1 Press MODE BAND while playing a CD.

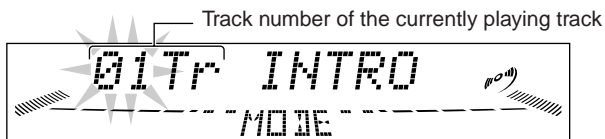
“MODE” appears on the lower part of the display, and the number buttons can work as different function buttons.



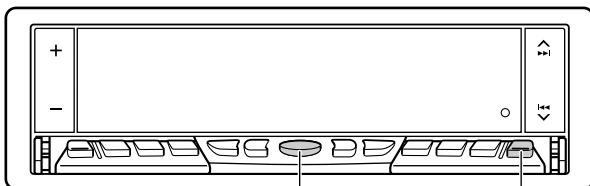
2 Press INT (Intro), while “MODE” is still on the display.

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

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



Prohibiting CD ejection

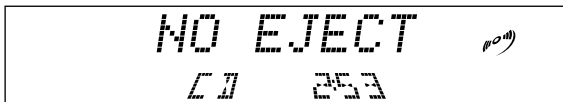


SOURCE (ATT)

OFF/▲

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

While pressing SOURCE (ATT), 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.



Note:

If you press OFF/▲ while CD ejection is prohibited, the control panel moves down, but the CD cannot be ejected. (“NO EJECT” appears on the display.)

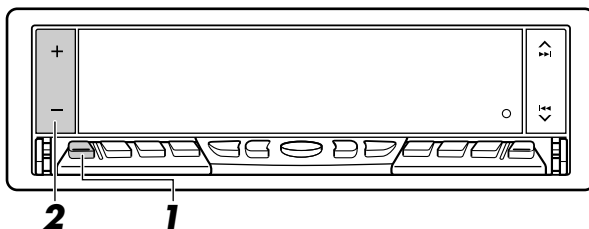
To move up the display panel, press ▲▶▶| or |◀◀▼.

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



Adjusting the sound

You can adjust the sound characteristics to your preference.

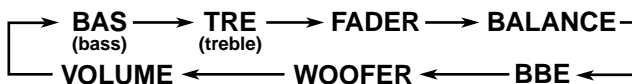


1



Select the item you want to adjust.

Each time you press the button, the adjustable items change as follows:

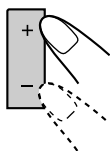


Indication	To do:	Range
BAS	Adjust the bass.	-06 (min.) — +06 (max.)
TRE	Adjust the treble.	-06 (min.) — +06 (max.)
FADER*	Adjust the front and rear speaker balance.	R06 (Rear only) — F06 (Front only)
BALANCE	Adjust the left and right speaker balance.	L06 (Left only) — R06 (Right only)
BBE	See “What is BBE?” on the next page.	BBE OFF, BBE 1, BBE 2, BBE 3
WOOFER	Adjust the subwoofer output level.	00 (min.) — 08 (max.)
VOLUME	Adjust the volume.	00 (min.) — 50 (max.)

Note:

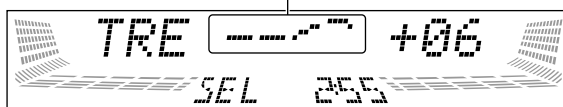
* If you are using a two-speaker system, set the fader level to “00.”

2



Adjust the level.

Equalization pattern changes as you adjust the bass or treble.



Note:

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



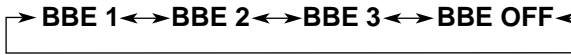
What is BBE^{II}?

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 + or – in step 2 on the previous page, the BBE^{II} function changes as follows.



As the number gets higher, the BBE^{II} function becomes stronger.
When shipped from the factory, the BBE^{II} function is set to "BBE 2."

To cancel the BBE^{II} function, select "BBE OFF."

* Under license from BBE Sound, Inc.

BBE^{II} is a trademark of BBE Sound, Inc.

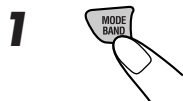
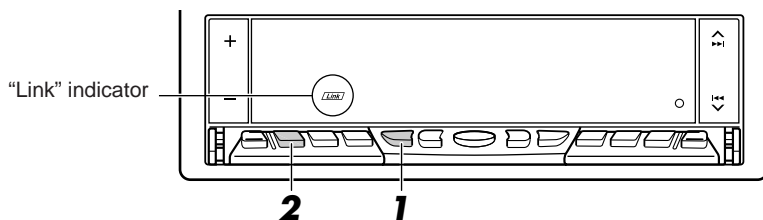
Using the Sound Control Memory

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

Selecting and storing the sound modes

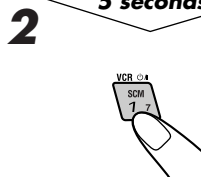
Once you select a sound mode, it is stored in memory, and will be recalled every time you select the same source. A sound mode can be stored for each of the following sources — FM1, FM2, FM3, AM, CD and external components.

- 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 “To cancel Advanced SCM” on page 53.



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

**Within
5 seconds**



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

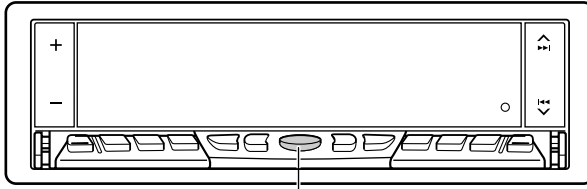


- If the “Link” indicator is lit on the display (with “SCM LINK” set to “SCM LINK ON” — see page 53), the selected sound mode can be stored in memory for the current source, and the effect applies to the current source.
- If the “Link” indicator is NOT lit on the display (with “SCM LINK” set to “SCM LINK OFF”), the selected sound mode effect applies to any source.

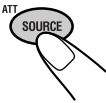
Indication	For:	Preset values		
		Bass	Treble	BBE ^{II}
OFF	(Flat sound)	00	00	BBE 2
BEAT	Rock or disco music	+02	00	BBE 2
SOFT	Quiet background music	+01	-03	Off
POP	Light music	+04	+01	Off



Recalling the sound modes

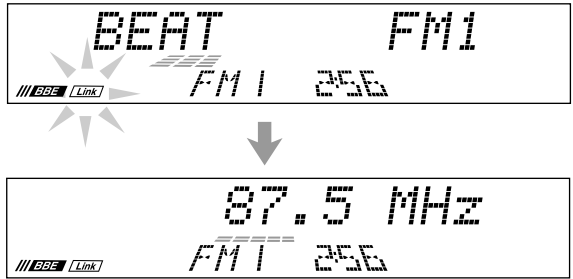


SOURCE (ATT)



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 (and appears on the display for a while).

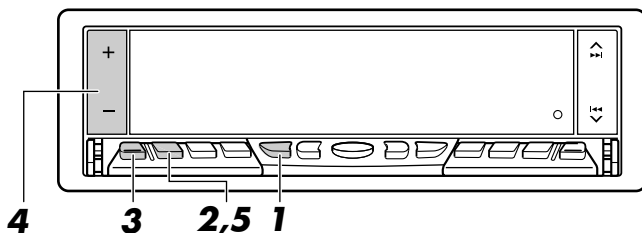



Notes:

- 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 29.
- To adjust the bass and treble reinforcement levels or to turn on/off the BBE^{II} function temporarily, see pages 25 and 26. (Your adjustments will be canceled if another source is selected.)
- By setting “CLOCK DISP” to “CLK DISP OFF” (see page 53), you can always show the current sound mode setting when the unit is turned on.


Storing your own sound adjustments


You can adjust the sound modes (BEAT, SOFT, POP: see page 27) to your preference and store your own adjustments in memory.

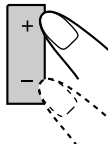


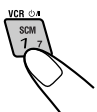
- 1**  Light “MODE” on the lower part of the display.
The number buttons can work as different function buttons.

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

- 2**  Select the sound mode you want.
For details, see page 27.

- 3**  Select the item you want to adjust (BAS, TRE, or BBE^{II}).

- 4**  Adjust the selected item.

- 5**  Press and hold SCM until the sound mode you have selected flashes on the display.
Your adjustment made for the selected sound mode is stored in memory.

- 6** Repeat the same procedure to adjust other sound modes.

To reset to the factory settings

Repeat the same procedure and reassign the preset values listed in the table on page 27.



What is Voice Recognition System?

The Voice Recognition System enables the voice command operations — “Speak a word. It will be done.”

This System allows you to operate the receiver by your spoken words with ease and safety. It has ended the risk of searching for push-buttons while you are on the road.

The Voice Recognition System provides you two operation modes — **User Word mode** and **Standard Word mode** (for demonstrations). In the User Word mode, you can use two types of commands — **Operation Commands** and **Access Commands**.

The Operation Commands (13 in total) are preset by the factory and cover basic operations such as “turning off the power” and “ejecting the CD” (see the Preset Operation Command list on page 32).

On the other hand, the Access Commands must be preset by yourself, and be registered by your own voice. For example, you can preset an Access Command to choose a disc in the CD changer when you say “Pop music.” The Voice Recognition System responds to your command, giving you direct access to the disc. You need to preset what to do and what to speak for the Access Commands.

In the User Word mode, both the Operation Commands and the Access Commands are speaker-dependent. So, they may be any phrase in any language (English, Spanish, even Japanese) as long as they are registered using your voice.

This fact ensures that only you can operate this receiver by your voice.

Just for demonstrations (voice demo — see page 45), there are also preregistered Standard Words (**English**). In the Standard Word mode, this System allows you to use only 13 Operation Commands.

The Operation Commands are speaker-independent in the Standard Word mode, so the System recognizes and responds to an Operation Command spoken by anyone **in English**.

JVC Voice Recognition System	
User Word mode	Standard Word mode (for demonstrations)
<p>Features:</p> <ul style="list-style-type: none"> • Registration of your voice required before use. • More commands available (13 Operation Commands and 12 Access Commands). • Only your voice can be recognized. • Any language can be recognized. 	<p>Features:</p> <ul style="list-style-type: none"> • No registration of commands required before use. • Only 13 Operation Commands available. • Anyone’s voice can be recognized. • Only English can be recognized.

Before using the voice commands

Read carefully the following precautions.

Before you start...

- Make sure that the voice control unit, voice remote, and microphone are correctly connected. (Refer to the Installation/Connection Manual separately supplied.)
- Set “VOICE/BEEP” to “VOICE,” and “VOICE LANG” to the language you understand (see page 47). This may make the voice command operations easy for you to follow.

Precautions for registering your voice:

- **Words you should not use:**
 - Similarly-pronounced words: If you register words similarly pronounced for different commands, the Voice Recognition System cannot distinguish the differences and cannot recognize your voice.
 - Too short or too long words: Too short or too long words may be difficult to register. Use the words of adequate length (within 3 seconds).
- **Where to register:** Command registration should be performed in as quite a condition as possible with car windows all closed.
- **Timing to speak your voice:** Your voice will not be accepted unless the voice navigation “Please speak now,” “Please repeat” or “Please speak again” is finished completely.
 - Speak word(s) only while “SPEAK” or “REPEAT” is shown on the display.
 - Pronounce your words in a large, clear voice.
- **Keep the ignition turned on during registration:** **Do not** turn on or off the ignition.

Precautions when speaking your commands:

- Your voice commands may not be recognized or executed correctly in the following cases:
 - When road conditions are not good. (For example, you are driving on rough roads.)
 - When car windows are open and surrounding noise is high.
- **In the User Word mode:** If an operation different from one you have commanded is executed, or if your command is ignored so frequently, try to change and register different words again.
- **In the Standard Word mode (for demonstrations):** Due to the characteristics of your voice, the Voice Recognition System may fail to recognize your Operation Commands you speak and they cannot be executed correctly. If this happens, use the User Word mode.



Preset Operation Command list

Command No.	Voice Commands (Words you speak for voice demo)	What to do
1	POWER OFF (Power off)	Turn off the receiver.
2	▶▶ SEEK ▲ (Up)	<ul style="list-style-type: none">• While playing a CD, change the track number in the increasing order.• While listening to the radio, change the frequencies in the increasing order.
3	◀◀ SEEK ▼ (Down)	<ul style="list-style-type: none">• While playing a CD, change the track number in the decreasing order.• While listening to the radio, change the frequencies in the decreasing order.
4	EJECT (Eject)	Eject the CD from the receiver if any.
5	NEXT (Next)	<ul style="list-style-type: none">• While playing the CD changer (not supplied), change the CD number in the increasing order.• While listening to the radio, change the preset channel numbers in the increasing order.
6	BACK (Back)	<ul style="list-style-type: none">• While playing the CD changer (not supplied), change the CD number in the decreasing order.• While listening to the radio, change the preset channel numbers in the decreasing order.
7	CD (CD)	Change the source to CD.
8	CHANGER (Changer)	Change the source to the CD changer if connected.
9	LINE-IN (Line in)	Change the source to the external component.
10	FM (FM)	Change the source to FM.
11	AM (AM)	Change the source to AM.
12	VCR PLAY (Play)*	Start playback on the VCR (KV-V10) if connected.
13	VCR STOP (Stop)*	Stop playback on the VCR (KV-V10) if connected.

* Used only when the external component is selected as the source.

Registering your voices for the voice commands

In the User Word mode (“DEMO OFF” — initial setting: when shipped from the factory), you can use 13 preset Operation Commands and 12 Access Commands.

To use these voice commands in the User Word mode, you have to do the following:

To use the Operation Commands;

- ① Select the User Word mode (“DEMO OFF”) (Follow steps 1 to 4 on page 34.)
- ② Register your voice into each Operation Command (Follow steps 5 to 11 on pages 34 to 36.)

To use the Access Commands;

- ① Select the User Word mode (“DEMO OFF”) (Follow step 1 on page 37.)
- ② Select an operation to preset into an Access Command (For operations you can store into the Access Commands, see page 37.)
- ③ Register your voice into the Access Command (See pages 38 to 41.)

Registering your own voice for the Operation Commands

In order to use the Operation Commands (see the list on page 32) speaking the commands in the language you speak, record your own voices for the Operation Commands. The unit recognizes and accepts the words you have recorded for the Operation Commands.

Before you start...

- **Set “VOICE DEMO” to “DEMO OFF.”**

Without setting it to “DEMO OFF,” you cannot record your own voices.

- **Notice the following;**

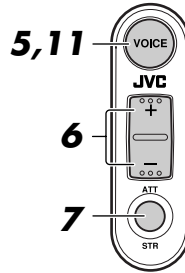
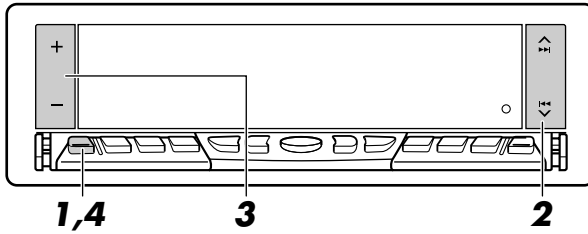
- You can only use the Operation Command for which you have registered your voice.
- You can register any word you want; however, if it is too short (ex. “Pops”), the System may not recognize it correctly.

TO BE CONTINUED ON THE NEXT PAGE

Registering procedure

EXAMPLE:

Storing your own voice "Turn off" into Operation Command number 01



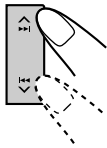
Voice remote

1



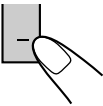
Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display. (See page 52.)

2



Select "VOICE DEMO."

3



Set it to "DEMO OFF."
• For more details, see page 47.

4



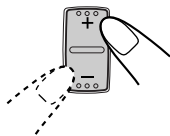
Finish the setting.

5

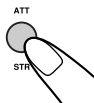


Press and hold VOICE until Access Command (VOICE 14) appears on the display.



6


Select the preset voice command number (VOICE 01).


7


Press STR (ATT) to make the System ready to record your voice.

"SPEAK" starts flashing on the display after the voice navigation "Please speak now."

8

Speak the word(s) you want to record while "SPEAK" is flashing on the display. (In this example, speak "Turn off.")



- If the System recognizes your word(s), "REPEAT" starts flashing on the display after the voice navigation "Please repeat."



- If the System does not recognize your word(s), it will ask you to speak again. In this case, speak the word(s) again.

TO BE CONTINUED ON THE NEXT PAGE

9

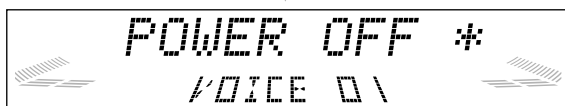
Speak the same word(s) again while “REPEAT” is flashing on the display. (In this example, speak “Turn off.”)



“CHECK” appears on the display while recording your voice.



“OK” appears when recording is complete.



“*” on the display means that your own voice is recorded for this voice command.

If the recording fails

A beep sound comes out and the display goes back to the one shown in step 6.

10

Repeat steps 6 to 9 to record your own voice for other preset Operation Commands (VOICE 02 to VOICE 13).

11



Press and hold VOICE again to finish the recording.

To erase your own voice from the Operation Commands

See “To erase the voice commands” on page 45.

Presetting the Access Commands

You can store the frequently-used operations into the Access Commands and register your voice to make the System execute the Access Commands.

- You can store the following operations into the Access Commands;
 - Selecting CD or External component as the source.
 - Selecting the frequencies. (FM and AM)
 - Selecting the band and preset number. (DAB)
 - Selecting the CDs in the CD changer.

Before you start...

• Set “VOICE DEMO” to “DEMO OFF.”

Without setting it to “DEMO OFF;” you cannot preset the Access Commands.

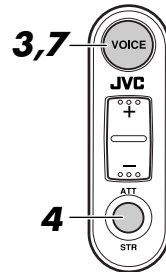
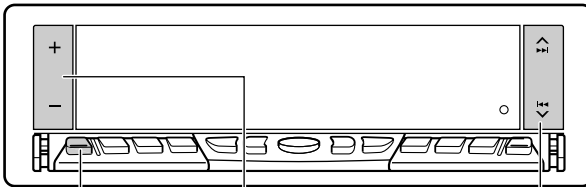
• Notice the following;

- You can store up to 12 Access Commands (12 operations and voice commands into memory).
- Each voice command must be within 3 second long.
- You can register any word you want; however, if it is too short (ex: “Pops”), the System may not recognize it correctly.

Registering procedure (for the first Access Command)

EXAMPLE:

Storing an operation of “selecting the FM station of 89.5 MHz,” and registering words “Jazz 89” as your Access Command to that operation into Access Command number 14.



Voice remote

1

Select the User Word mode by following steps 1 to 4 on page 34.

- 1 Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press $\blacktriangle \blacktriangleright \blacktriangleright$ or $\blacktriangleleft \blacktriangleleft \blacktriangledown$ repeatedly until “VOICE DEMO” appears on the display.
- 3 Press – to select “DEMO OFF.”
- 4 Press SEL again to finish the setting.

TO BE CONTINUED ON THE NEXT PAGE

2

Select the operation you want to store into the Access Command.
(In this case, select “FM 89.5 MHz.”)



If you want to memorize the sound mode at the same time

Select the sound mode you want. (See page 27.)

Notes:

- Preset number (FM and AM) cannot be stored but only its station frequency is stored into the Access Command.
- To store a DAB service into the Access Command, select a preset DAB service. (See pages 72 to 74.)

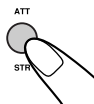
3



Press and hold VOICE until Access Command (VOICE 14) appears on the display.



4



Press STR (ATT) to make the System ready to record your voice.

“SPEAK” starts flashing on the display after the voice navigation “Please speak now.”

5

Speak the word(s) you want to record while “SPEAK” is flashing on the display. (In this example, speak “Jazz 89.”)



- If the System recognizes your word(s), “REPEAT” starts flashing on the display after the voice navigation “Please repeat.”



- If the System does not recognize your word(s), it will ask you to speak again. In this case, speak the word(s) again.

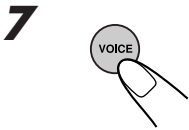
6 Speak the same word(s) again while “REPEAT” is flashing on the display. (In this example, speak “Jazz 89.”)



“CHECK” appears on the display while recording your voice,



“OK” appears when recording is complete.



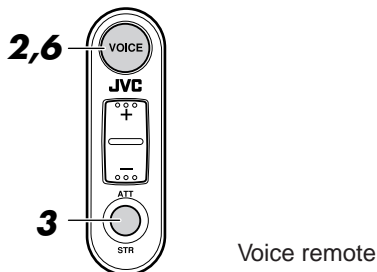
Press and hold VOICE again to finish the recording.

TO BE CONTINUED ON THE NEXT PAGE

Registering procedure (Continued for the second Access Command by following the previous one)

EXAMPLE:

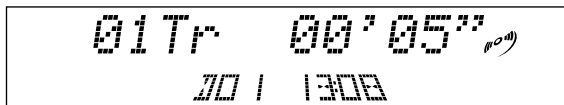
Storing an operation of “selecting disc number 01 in the CD changer,” and registering word “Classics” as your Access Command to that operation into Access Command number 15.



Voice remote

1

Select the operation you want to store into the Access Command. (In this case, select “disc number 01 in the CD changer.”)



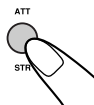
2



Press and hold VOICE until Access Command (VOICE 15) appears on the display.



3



Press STR (ATT) to make the System ready to record your voice.

“SPEAK” starts flashing on the display after the voice navigation “Please speak now.”

4

Speak the word(s) you want to record while “SPEAK” is flashing on the display. (In this example, speak “Classics.”)



- If the System recognizes your word(s), “REPEAT” starts flashing on the display after the voice navigation “Please repeat.”



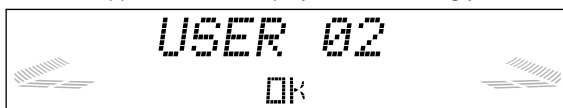
- If the System does not recognize your word(s), it will ask you to speak again. In this case, speak the word(s) again.

5

Speak the same word(s) again while “REPEAT” is flashing on the display. (In this example, speak “Classics.”)



“CHECK” appears on the display while recording your voice,



“OK” appears when recording is complete.



6



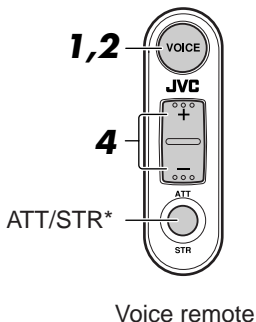
Press and hold VOICE again to finish the recording.

7

Repeat the above procedure to store other Access Commands.

Operating the receiver using the voice commands

Basic Procedure

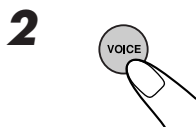


* ATT stands for “attenuator,” and STR stands for “store.”

Voice remote



Turn on the power.
The display illuminates and the control panel comes out.



Activate the Voice Recognition System.
“SPEAK” starts flashing on the display after the voice navigation “Please speak now” (or a beep).



3 Speak one of the voice commands to the microphone while “SPEAK” is flashing on the display.



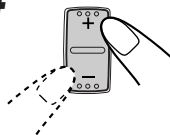
The receiver performs what you command it to do. (Ex. when you speak “Jazz 89.”)

If your voice cannot be recognized

The unit will ask you to speak again (and more) until “V.COMMAND” disappears from the display.

If your voice command cannot be carried out and “V.COMMAND” disappears, repeat from step 2.

4



Adjust the volume.

To drop the volume in a moment

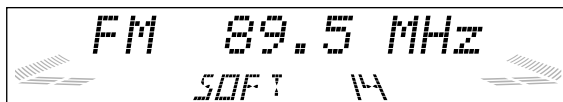
Press ATT (STR) while listening to any source. “ATT” starts flashing on the display, and the volume level will drop in a moment.

To resume the previous volume level, press the button again.

To check the registered voice and stored operations

Follow the procedure below.

- 1 Press and hold VOICE until one of the Access Commands appears on the display.
- 2 Press + or – to confirm the command contents.
 - Each time you press + or –, the commands appear on the display in sequence. You can check the command contents on the display.



EXAMPLE: A station of 89.5 MHz is stored in the Access Command 14 (with sound mode — “SOFT”)



EXAMPLE: Disc no. 01 of the CD changer is stored in the Access Command 15 (without any sound mode)

The recorded voice is also reproduced.

If you want to check the recorded voice again

Press VOICE while the voice command number you want to confirm is selected.

- 3 Press and hold VOICE again to finish the checking.



To change the Access Command contents

You can change the following command contents:

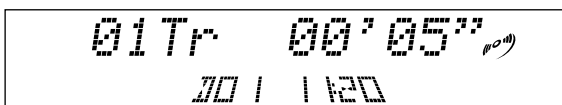
- Registered word(s) (ex: disc name, frequency name)
- Registered word(s) and operation (ex: disc number 01 of the CD changer → disc number 03 of the CD changer, CD changer → FM 89.5 MHz)

If you want to change an Access Command contents, follow the procedure below. Be sure to select the source you want to store newly before you start.

EXAMPLE: When you replace the CD named “Classical music” (disc number 01 in the CD changer) to another CD named “Popular music.”

In this case, you may want to change the voice Access Command “Classics” to “Pop music” for Access Command 15.

- 1 Select the source you want to store newly. (In this example, select disc number 01 in the CD changer.)



- 2 Press and hold VOICE until one of the Access Commands appears on the display.
- 3 Press + or – to select the Access Command number whose voice command you want to change. (In this example, select Access Command number 15.)



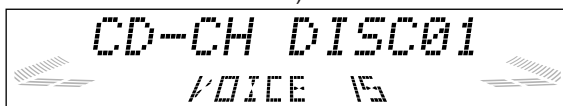
- 4 Press STR (ATT) to make the System ready to record your voice.
“SPEAK” starts flashing on the display after the voice navigation “Please speak now.”
- 5 Speak the word(s) you want to register while “SPEAK” is flashing on the display. (In this example, speak “Pop music.”)
“REPEAT” starts flashing on the display after the voice navigation “Please repeat.”
- 6 Speak the same word(s) again while “REPEAT” is flashing on the display. (In this example, speak “Pop music”).
“CHECK,” then “OK” appears when recording is complete.
- 7 Press and hold VOICE again to finish the recording.

To erase the voice commands

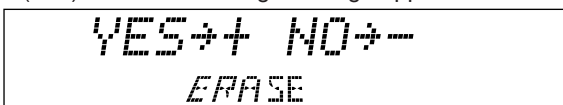
If you want to erase the Access Commands (VOICE 14 to VOICE 25) already stored, or if you want to erase the registered voice for the Operation Commands (VOICE 01 to VOICE 13), follow the procedure below.

- An Operation Command cannot be erased but only the registered voice for it is erased.

- 1 Press and hold VOICE until one of the Access Commands appears on the display.
- 2 Press + or – until the voice command you want to delete appears on the display. (In this example, select Access Command number 15.)



- 3 Press and hold STR (ATT) until the following message appears on the display.



- 4 Press + to erase the voice command.
If you want to cancel the erasing, press –.
- 5 Press and hold VOICE again to finish the erasing.

Experiencing the Voice Recognition System

You can experience the Voice Recognition System using the **Standard Word** mode (voice demo).

To activate the voice demo, set “VOICE DEMO” to “DEMO ON” by following the steps described on pages 46 and 47.

By speaking commands for the Operation Commands **in English**, you can see how the Voice Recognition System works. For the words you speak, see the list on page 32.

For Operations

See “Basic Procedure” on page 42.

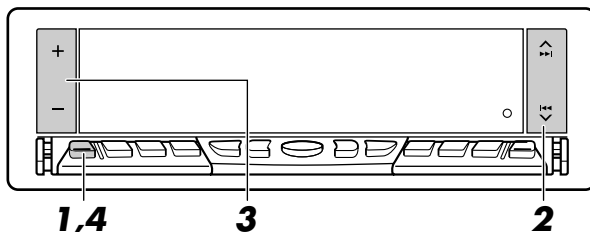
Pronunciation guide for the Standard Word mode (voice demo)

Power off [páʊə ð:f]	Back [bák]	AM [éièm]
Up [áp]	CD [sí:di:]	Play [pléi]
Down [dáʊn]	Changer [tʃéintʃɔʒə]	Stop [stáp]
Eject [iɔʒékt]	Line in [láin in]	
Next [nékst]	FM [éfèm]	

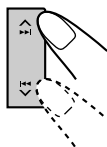
Other convenient functions for the Voice Recognition System

You can use the functions described on the next page for the Voice Recognition System.

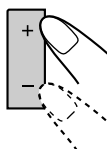
Basic Procedure

**1**

Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display. (See page 52.)

2

Select the function you want to set or adjust — VOICE LANG, VOICE/BEEP, VOICE DEMO, or VOICE VOL.

3

Set or adjust the selected function.

4

Finish the setting.

To select the voice navigation language — VOICE LANG

When the voice control unit is connected to the receiver, you can select the language used for the voice navigation in the voice command registration process. When this unit is shipped from the factory, “English” is selected.

- English: English navigation will be heard while registering your voice commands into the system.
- German: German navigation will be heard while registering your voice commands into the system.
- French: French navigation will be heard while registering your voice commands into the system.
- Spanish: Spanish navigation will be heard while registering your voice commands into the system.

Note:

If “VOICE/BEEP” is set to “BEEP,” you cannot hear the voice navigation. (See below.)

To select the voice navigation or beep sound — VOICE/BEEP

When the voice control unit is connected to the receiver, you can select either the voice navigation (see above) or the confirmation beep, which is heard in response to the given commands. When this unit is shipped from the factory, “VOICE” is selected.

- VOICE: English, German, French, or Spanish navigation (selected in “To select the voice navigation language — VOICE LANG” above) will be heard in response to the given commands.
- BEEP: Confirmation beep sound will be heard in response to the given commands.

To activate the voice demo — VOICE DEMO

When the voice control unit is connected to the receiver, you can see how the Voice Recognition System works. You can only use the Operation Commands (in the Standard Word mode). For the words you speak (in English), see the lists on pages 32 and 45. When this unit is shipped from the factory, “DEMO OFF” is selected.

- DEMO ON: The voice demo is activated. By speaking the words in English, you can try the Voice Recognition System.
- DEMO OFF: The voice demo is deactivated.

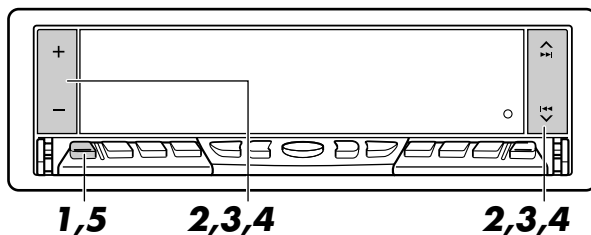
To adjust the voice navigation volume — VOICE VOL

When the voice control unit is connected to the receiver, you can adjust the voice navigation volume level (00 – 50).

When shipped from the factory, the voice navigation volume level is set at level 15.

Setting the clock

You can also set the clock system either 24 hours or 12 hours.

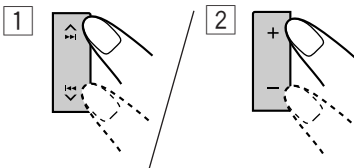


1



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

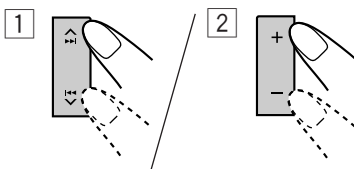
2



Set the hour.

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

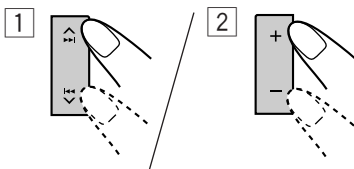
3



Set the minute.

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

4



Set the clock system.

- 1 Select "CLOCK24H/12H."
- 2 Select "CLOCK 24HOUR" or "CLOCK 12HOUR."

5



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.

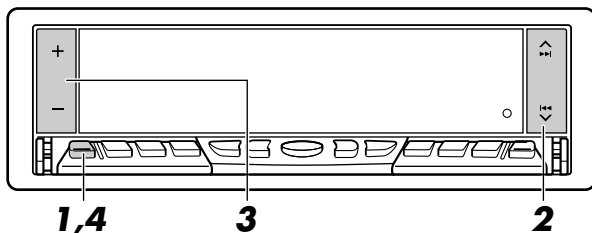
Controlling the volume automatically (Audio Cruise)

You can select the proper cruise mode for your car.

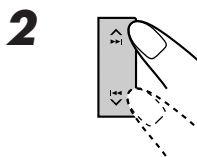
This unit changes the volume level automatically (at 3 possible levels) based on the driving speed of your car by detecting the alternator's generating frequency (Audio Cruise).

If you want to use this mode, follow the procedure below. When shipped from the factory, this mode is set to "CRUISE OFF."

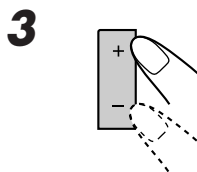
- CRUISE 1: Select this if your car is relatively quiet.
- CRUISE 2: Select this if your car is relatively loud.
The volume increase rate is twice as much as that of the CRUISE 1 setting.
- CRUISE OFF: Cancels Audio Cruise.



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



Select "CRUISE MODE."



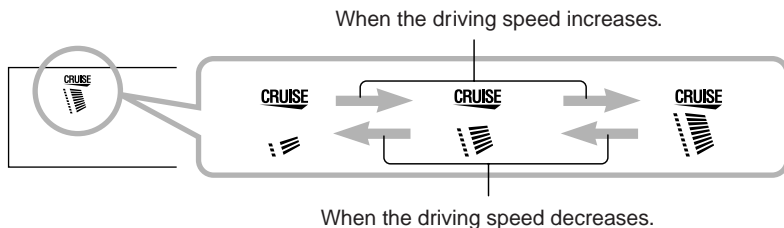
Select the desired setting.

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



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 $\blacktriangle \blacktriangleright \blacktriangleright$ or $\blacktriangleleft \blacktriangleleft \blacktriangledown$ repeatedly until "CRUISE MODE" appears on the display.
- 3 Press + or - to select either "CRUISE 1" or "CRUISE 2."
- 4 Press $\blacktriangle \blacktriangleright \blacktriangleright$ (or $\blacktriangleleft \blacktriangleleft \blacktriangledown$) 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 $\blacktriangle \blacktriangleright \blacktriangleright$ or $\blacktriangleleft \blacktriangleleft \blacktriangledown$ repeatedly until "CRUISE MODE" appears on the display.
- 4 Press + or - to select either "CRUISE 1" or "CRUISE 2."
- 5 Press $\blacktriangle \blacktriangleright \blacktriangleright$ (or $\blacktriangleleft \blacktriangleleft \blacktriangledown$) to select "+OR- RPM SET."
- 6 Press + or - to select the desired idling speed.
- 7 Press SEL again to finish the setting.

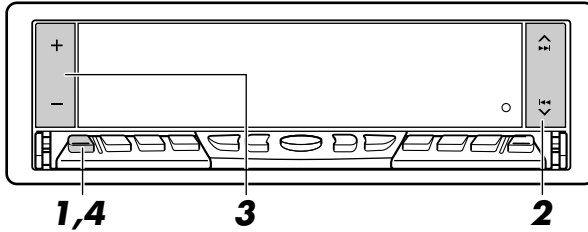
When the setting is complete, the unit automatically checks to see if Audio Cruise functions correctly with this new idling setting. If it does not function correctly, Audio Cruise is canceled automatically and the idling setting becomes invalid.


• *If this happens, see the NOTICE above.*

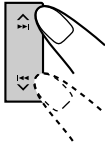
Changing the general settings (PSM)

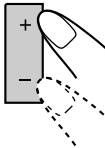
You can change the items listed on the next page by using the PSM (Preferred Setting Mode) control.


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 52.)

3  Adjust the PSM item selected above.

4  Finish the setting.

PSM items

PSM items	Descriptions of PSM items	See page
CLOCK HOUR	Hour adjustment	48
CLOCK MINUTE	Minute adjustment	48
SCM LINK	Sound control memory linkage	53
CLOCK24H/12H	24/12-hour time display	48
AUTO ADJUST	Automatic clock setting	19
CLOCK DISP	Clock display	53
TUNER DISP	Tuner display	19
PTY STANDBY	PTY standby	15
PTY SEARCH	PTY search	16
TA VOLUME	Traffic announcement volume	19
P-SEARCH	Programme search	18
DAB AF*	Alternative frequency search	75
LEVEL METER	Level display	53
DIMMER MODE	Dimmer mode	53
CRUISE MODE	Audio cruise	49
+OR- RPM SET**	Idling speed	50
BOOST**	Boost	50
TELEPHONE	Telephone muting	53
BEEP SWITCH	Key-touch tone	54
P. AMP SWITCH	Power amplifier switch	54
CONTRAST	Display contrast	54
SCROLL MODE	Scroll mode	54
WOOFER FREQ	Subwoofer cutoff frequency	69
LINE ADJ	Line input level adjustment	54
VOICE LANG***	Voice language	47
VOICE/BEEP***	Voice/beep	47
VOICE DEMO***	Voice demo	47
VOICE VOL***	Voice volume	47
FLAT PANEL	Flat panel	55
IF FILTER	Intermediate frequency filter	55

* *Displayed only when the DAB tuner is connected.*

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

*** *These items are shown only when the voice control unit is connected to the receiver.*

To cancel Advanced SCM — SCM LINK

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.

- SCM LINK ON: Advanced SCM (different sound modes for different sources)
- SCM LINK OFF: Conventional SCM (one sound mode for all sources)

To set the clock display — CLOCK DISP

You can set the clock to be shown on the lower part of the display when the unit is turned on. When shipped from the factory, the clock is set to be shown on the display.

- CLK DISP ON: Clock display is turned on.
- CLK DISP OFF: Clock display is turned off. When “CLK DISP OFF” is selected, the current sound mode setting (see page 28) is shown on the upper part of the display.

To select the level meter — 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 (illuminates from bottom to top)
- REVERSE: Level meter illuminates from top to bottom.
- WIDE: Level meter illuminates from center to outside.
- 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 — 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.

- DIMMER AUTO: Activates Auto Dimmer.
- DIMMER OFF: Cancels Auto Dimmer.
- 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 “DIMMER ON” or “DIMMER OFF.”

To select the telephone muting — TELEPHONE

This mode is used when a cellular phone system is connected. Depending on the phone system used, select either “MUTING 1” or “MUTING 2,” whichever mutes the sounds from this unit. When shipped from the factory, this mode is deactivated.

- MUTING 1: Select this if this setting can mute the sounds.
- MUTING 2: Select this if this setting can mute the sounds.
- MUTING OFF: Cancels the telephone muting.

To turn on/off the key-touch tone — BEEP SWITCH

You can deactivate the key-touch tone if you do not want it to beep each time 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 — P.AMP 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 adjust the display contrast level — CONTRAST

You can adjust the display contrast level among 01 (dark) to 10 (bright). When shipped from the factory, the display contrast level is set at level 05.

To select the scroll mode — SCROLL MODE

You can select the scroll mode for the disc information if it consists of more than 12 characters. When shipped from the factory, Auto Scroll mode is set to “SCROLL ONCE.”

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

Note:

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

To adjust the line input level — LINE ADJ

Adjust the line input level properly when an external component is connected to the LINE IN plugs. When shipped from the factory, the line input level is set at level 00.

If the input level of the connected component is not high enough, increase the input level properly. Without adjusting the line input level, you may be surprised at a loud sound when you change from the external component to another source.

To make the front panel look flat (hiding the control panel) — FLAT PANEL

When operating the receiver using the remote control, you can hide the control panel to make the front panel look flat. When shipped from the factory, "FLAT OFF" is selected.

- **FLAT ON:** The control panel will not come out when you turn on the unit.
To use the control panel, press ◀◀ ▼ so that the control panel comes out. If no operation is done for about 10 seconds, it automatically goes back into the receiver.
- **FLAT OFF:** You can use the control panel normally.

Note:

When "FLAT ON" is selected, you can eject a CD by holding ◀◀ ▼.

To change the FM tuner selectivity — IF FILTER

In some areas, adjacent stations may interfere with each other. If this interference occurs, noise may be heard. This unit has been preset to automatically reduce this interference noise ("AUTO") when shipped from the factory.

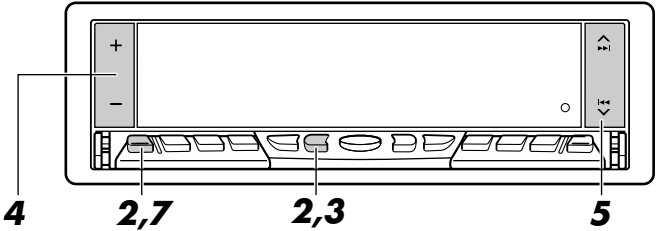
- **AUTO:** When this type of interference occurs, this unit automatically increases the tuner selectivity so that interference noise will be reduced. (But the stereo effect will also be lost).
- **WIDE:** Subject to the interference from adjacent stations, but sound quality will not be degraded and the stereo effect will not be lost.

Assigning names to the sources

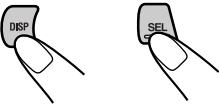
You can assign names to CDs and the external component connected to the LINE IN plugs. After assigning a name, it will appear on the display when you select the source.

Sources	Maximum number of the characters
CD* and CD changer*	up to 32 characters (up to 40 discs)
External component	up to 12 characters

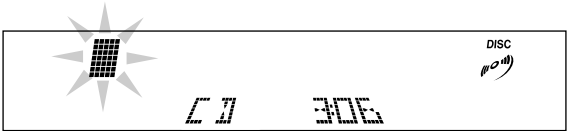
* You cannot assign a name to a CD Text.



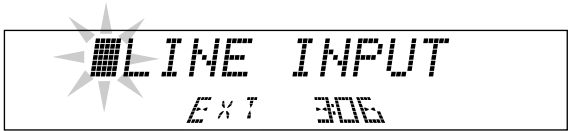
1 Select a source you want to assign a name to.

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

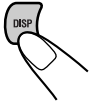
When you select the CD as the source:




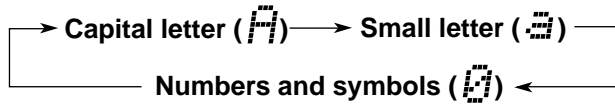
When you select the external component connected to LINE IN as the source:



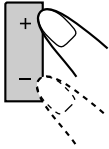
3



Select the character set you want while “” is flashing.
Each time you press the button, the character set changes as follows:

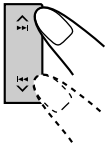


4



Select a character.
About the available characters, see page 58.

5



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

6

Repeat steps 3 to 5 until you finish inputting the name.

7



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

Capital letters

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	space			

Small letters

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	space			

Numbers and symbols

0	1	2	3	4	5	6	7	8	9
!	”	#	\$	%	&	'	()	*
+	,	-	.	/	:	;	<	=	>
?	@	_	`	space					

Notes:

- When you try to 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 is connected, you can assign names to CDs in the CD changer. These names can also be shown on the display if you insert the CDs in this unit.

Using the security lock

You can prohibit the unauthorized use of this unit by the others.

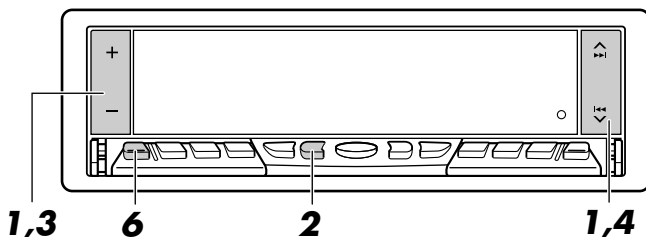
To use the security lock, you need to set the password first. Once you set the password, the unit will ask you to enter the password when you turn on the unit for the first time after re-installation (or after recovering the car battery exhaustion).

CAUTION: Be careful not to forget the password you have entered; otherwise, you cannot use this unit. Keep the password in your mind and more importantly on paper or some other materials. You can write down your password in the spaces provided on the cover page.

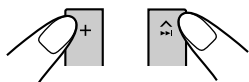
Registering the password

You have to use 4 characters for your password.

You can use the following characters: Capital letters (A – Z), small letters (a – z), and numerals (0 – 9).



1



Press and hold both buttons for more than 2 seconds.

The unit enters password entry mode.

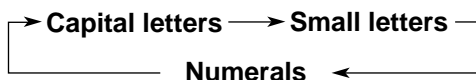


2

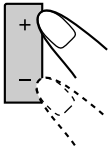


Select the character set you want to use.

Each time you press the button, the character set changes as follows:



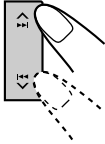
3



Select a letter.



4



Move the character entry position to the next.



5

Repeat steps 2 to 4 until you enter all 4 characters.

6



Finish the setting.

The password flashes on the display for a while, then the unit returns to the normal operation mode.

How to Use the Provided CODE Sticker





Attach the provided CODE sticker in a conspicuous position on your car to notify would-be unauthorized users that the security lock function is provided for this unit and, therefore, will foil their efforts.

When Security Lock works?



Once you register the password, “*:*:*:*:” appears on the display, and the unit will ask you to enter the password in the following cases:

- When you turn on the unit for the first time after re-installing the unit.
- When you turn on the unit for the first time after replacing the car battery – because it is completely used up.

To use this unit, you must enter the correct password by following the procedure below.



- 1 Press DISP to select the character set you want.
- 2 Press + or – to enter a character.
- 3 Press   or   to move the character entry position.
- 4 Repeat steps 1 to 3 to enter the entire password (4 letters) correctly, then press SEL.
 - If you enter the correct password, the security lock is canceled and you can use the unit normally.
 - In the following cases, the security lock is not canceled (“NOT ACCEPT” appears on the display) then the unit turns off. (The unit will never turn on unless you press the reset button on the front panel. See page 2.)
 - If you enter an incorrect password then press SEL.
 - If you cannot finish entering the correct password within 30 seconds.

If you enter an incorrect character while entering the password

Press   to move back the character entry position over the incorrect character, then press + or – to select the correct character.

To change the password

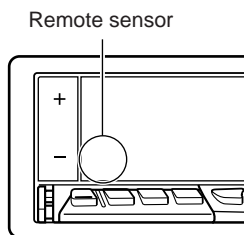
If you want to change the password after you have registered it, follow the procedure below.

- 1 Press + and   at the same time for more than 2 seconds.
“*:*:*:*:” appears on the display.
- 2 Enter the current password correctly, then press SEL.
The unit enters password entry mode.
- 3 Enter a new password as you want, then press SEL.
The password flashes on the display for a while, then the unit returns to the normal operation mode.
 - See page 59 for details on how to enter the password.

REMOTE OPERATIONS

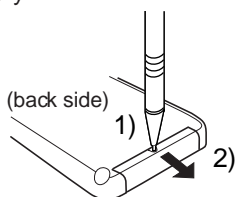
Before using the remote controller:

- 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

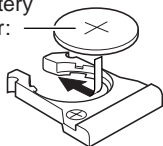
When the controllable range or effectiveness of the remote controller decreases, replace the battery.



1. Remove the battery holder.

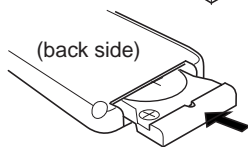
- 1) Push out in the direction indicated by the arrow using a ball point pen or a similar tool.
- 2) Remove the battery holder.

Lithium coin battery
(product number:
CR2025)



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.

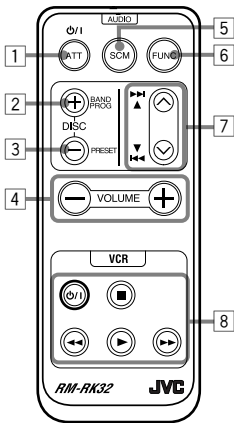
Insert again the battery holder pushing it until you hear a clicking sound.

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



- 1 • Turns on the unit if pressed briefly.
- Turns off the unit if pressed and held until "SEE YOU" appears on the display.
- Drops the volume level for a moment if pressed briefly.
Press again to resume the volume.
- 2 • Functions as the BAND button while listening to the radio (or the DAB tuner). 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.
- 3 • Functions as the PRESET button while listening to the radio (or the DAB tuner). 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 + / – button on the main unit.

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

- 5 Selects the sound mode.
Each time you press SCM (Sound Control Memory), the mode changes.
- 6 Selects the source.
Each time you press FUNC (function), the source changes.
- 7
 - Searches stations while listening to the radio.
 - Selects services while listening to the DAB tuner if pressed briefly.
 - Selects ensembles while listening to the DAB tuner if pressed for more than 1 second.
 - 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.
- 8 VCR (KV-V10) operating buttons
 - : Turns on or off the VCR.
 - : Stops playback.
 - : Rewinds the tape if pressed and held while watching a video tape.
 - : Starts playback.
 - : Fast-forwards the tape if pressed and held while watching a video tape.



CD CHANGER OPERATIONS

ENGLISH

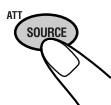
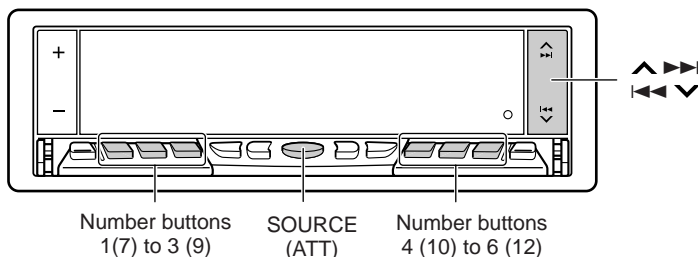
We recommend that you use one of the CH-X series (ex: CH-X1200) with your unit. If you have another CD automatic changer, consult your JVC IN-CAR ENTERTAINMENT for connections.

- 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

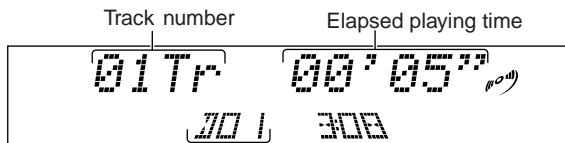


Select the CD automatic changer.

Each time you press the button, the source changes as described on page 6.

Playback starts from the first track of the first disc.

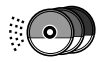
All tracks of all discs are played back.



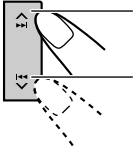
Disc number appears.

Note:

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



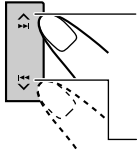
To fast-forward or reverse the track



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

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

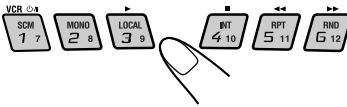
To go to the next tracks or the previous tracks



Press **NEXT** 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 **PREV** 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.

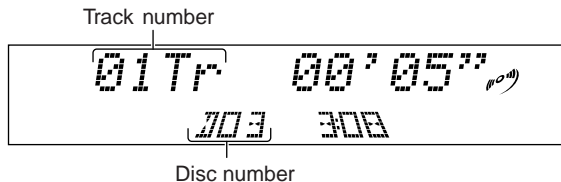
To go to a particular disc directly



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



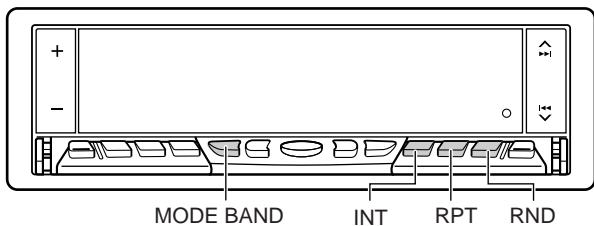
To show the CD Text information

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

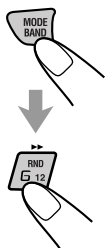
See "Playing a CD Text" on page 21.



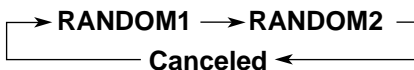
Selecting CD playback modes



To play back tracks at random (Random Play)

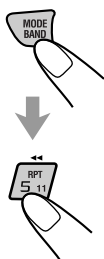


- 1 Press MODE BAND while playing a CD.
"MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
- 2 Press RND (Random), while "MODE" is still on the display, so that the RND indicator lights up on the display.
Each time you press the button, CD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



Mode	RND Indicator	Plays at random
RANDOM1	Lights	All tracks of the current disc, then the tracks of the next disc, and so on.
RANDOM2	Flashes	All tracks of all discs inserted in the magazine.

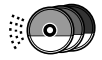
To play back tracks repeatedly (Repeat Play)



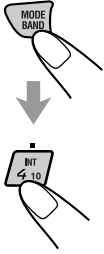
- 1 Press MODE BAND while playing a CD.
"MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
- 2 Press RPT (Repeat), while "MODE" is still on the display, so that the RPT indicator lights up on the display.
Each time you press the button, CD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



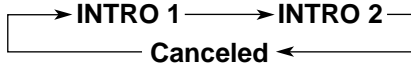
Mode	RPT Indicator	Plays repeatedly
REPEAT1	Lights	The current track (or specified track).
REPEAT2	Flashes	All tracks of the current disc (or specified disc).



To play back only intros (Intro Scan)



- 1 Press MODE BAND 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)
INTRO 1	Track number flashes	Of all tracks on all inserted discs.
INTRO 2	Disc number flashes (when it is shown on the display)	Of the first track on each inserted disc.

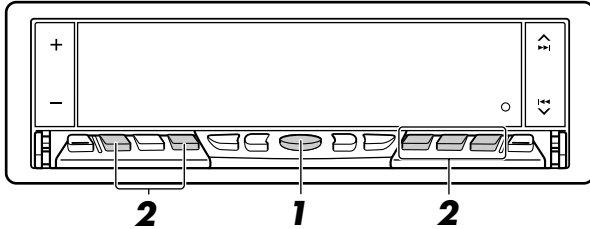


EXTERNAL COMPONENT OPERATIONS

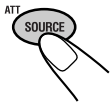
ENGLISH

Playing an external component

When connecting an external component such as a VCR (KV-V10) to the LINE IN plugs on the rear, you can select the component as the sound source. You can also connect the TV to this unit.



1



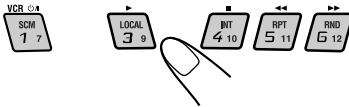
Select the external component.

Each time you press the button, the source changes as described on page 6.

2

Operate the external component.

If the VCR KV-V10 is the external source to play, you can perform the following operations using the buttons on the unit or on the remote control.



- ⏻/⏹ : Turns on or off the VCR.
- : Stops playback.
- ◀◀ : Rewinds the tape if pressed and held while watching a video tape.
- ▶▶ : Starts playback.
- ▶▶▶ : Fast-forwards the tape if pressed and held while watching a video tape.

Notes:

- For the external component connection, see the Installation/Connection Manual (separate volume).
- See also “Assigning names to the sources” on page 56 if you want to match the name shown on the display with the name of the connected component.



Using a subwoofer

By connecting a subwoofer to the SUBWOOFER OUT 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, follow the procedure below.

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."

- **FREQ LOW:** Frequencies higher than 50 Hz are cut off to the subwoofer.
- **FREQ MID:** Frequencies higher than 80 Hz are cut off to the subwoofer.
- **FREQ HIGH:** Frequencies higher than 120 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 Press **▲▶▶** or **◀◀▼** repeatedly until "WOOFER FREQ" appears on the display.
- 3 Press + or – to select the desired cutoff frequency.
- 4 Press SEL again to finish the setting.

To adjust the subwoofer output volume, see "Adjusting the sound" on page 25.



DAB TUNER OPERATIONS

ENGLISH

We recommend that you use DAB (Digital Audio Broadcasting) tuner KT-DB1500 with your unit.

If you have another DAB tuner, consult your JVC IN-CAR ENTERTAINMENT dealer.

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

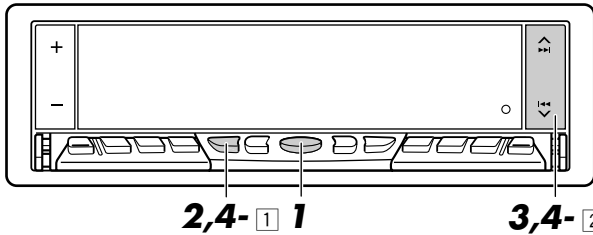
What is DAB system?

DAB is one of the digital radio broadcasting systems available today. It can deliver CD quality sound without any annoying interference and signal distortion. Furthermore, it can carry text, pictures and data.

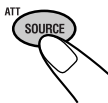
In contrast to FM broadcast, where each programme is transmitted on its own frequency, DAB combines several programmes (called “services”) to form one “ensemble.” With the DAB tuner connected with this unit, you can enjoy these DAB services.

Tuning into an ensemble and one of the services

A typical ensemble has 6 or more programmes (services) broadcast at the same time. After tuning into an ensemble, you can select a service you want to listen to.



1



Select the DAB tuner.

Each time you press the button, the source changes as described on page 6.

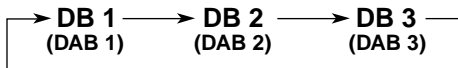
2



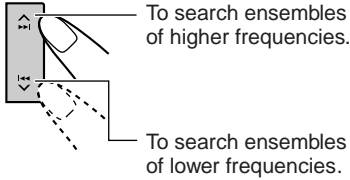
Select the DAB band (DAB1, DAB2, or DAB3).

You can select any one of DAB1, DAB2, and DAB3 to tune into an ensemble.

Each time you press and hold the button, the DAB band changes as follows:

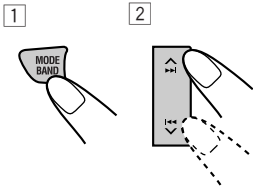


3



Start searching an ensemble.
When an ensemble is received, searching stops.

4



Select an service you want to listen to.

- 1 Press MODE BAND.
"MODE" appears on the lower part of the display.
- 2 Press \blacktriangle \blacktriangleright \blacktriangleleft or \blacktriangleleft \blacktriangleleft \blacktriangledown to select a service you want, while "MODE" is still on the display.

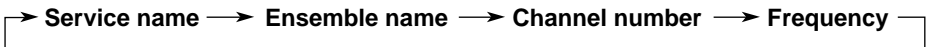
To stop searching before an ensemble is received, press the same button you have pressed for searching.

To change the display information while tuning into an ensemble

Normally service name is shown on the upper part of the display.

If you want to check the ensemble name or its frequency, press DISP.

Each time you press the button, the following information appears for a while on the upper part of the display.

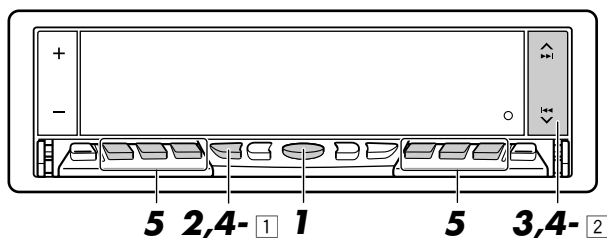
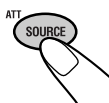


To tune in a particular ensemble without searching:

- 1 Press SOURCE (ATT) to select DAB tuner as the source.
- 2 Press MODE BAND repeatedly to select the DAB band (DAB1, DAB2, or DAB3).
- 3 Press and hold \blacktriangle \blacktriangleright \blacktriangleleft or \blacktriangleleft \blacktriangleleft \blacktriangledown for more than 1 second.
- 4 Press \blacktriangle \blacktriangleright \blacktriangleleft or \blacktriangleleft \blacktriangleleft \blacktriangledown repeatedly until the ensemble you want is reached.
 - If you hold down the button, the frequency keeps changing until you release the button.

Storing DAB services in memory

You can preset up to 6 DAB services in each DAB band (DAB1, DAB2 and DAB3) manually.


1


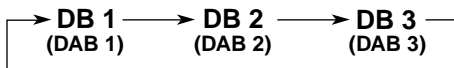
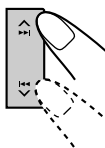
Select the DAB tuner.

Each time you press the button, the source changes as described on page 6.

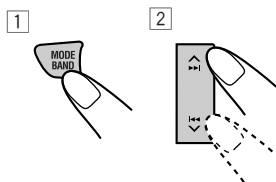
2


Select the DAB band (DAB1, DAB2, or DAB3) you want.

Each time you press and hold the button, the DAB band changes as follows:


3


Tune into an ensemble you want.

4


Select a service of the ensemble you want.

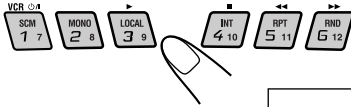
1 Press MODE BAND.

“MODE” appears on the lower part of the display.

2 Press \blacktriangle \blacktriangleright or \blacktriangleleft \blacktriangledown to select a service you want, while “MODE” is still on the display.

5

Press and hold the number button you want to store the selected service into for more than 2 seconds.



Band number and "MEMO" flash alternately for a while.



6

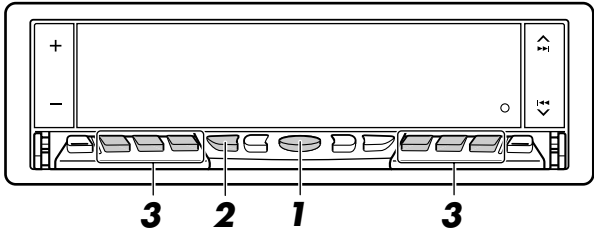
Repeat the above procedure to store other DAB services into other preset numbers.

Notes:

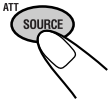
- A previously preset DAB service is erased when a new DAB service is stored in the same preset number.
- Preset DAB services are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the DAB services again.

Tuning into a preset DAB service

You can easily tune into a preset DAB service. Remember that you must store services first. If you have not stored them yet, see pages 72 and 73.



1

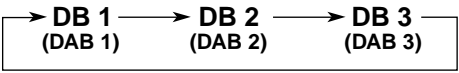


Select the DAB tuner.
Each time you press the button, the source changes as described on page 6.

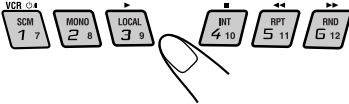
2



Select the DAB band (DAB1, DAB2, or DAB3) you want.
Each time you press and hold the button, the DAB band changes as follows:



3



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

What you can do more with DAB

Tracing the same program automatically (Alternative Reception)

You can keep listening to the same program

- **While receiving a DAB service:**

When driving in an area where a service cannot be received, this unit automatically tunes in another ensemble or FM RDS station, broadcasting the same program.

- **While receiving an FM RDS station:**

When driving in an area where a DAB service is broadcasting the same program as the FM RDS station is broadcasting, this unit automatically tunes into the DAB service.

Note:

When reception switches between DAB and FM, the listening volume level may increase or decrease inconveniently. This change in the volume level results from unequal audio injection levels at broadcaster site, but not from the malfunction of this unit.

To use Alternative Reception

When shipped from the factory, Alternative Reception is activated.

- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press **▲▶▶** or **◀◀▼** to select "DAB AF" if not shown on the display.
- 3 Press **+** or **-** to select the desired mode.
 - AF ON: Traces the program among DAB services and FM RDS stations — Alternative Reception. The AF indicator lights up on the display (see page 12).
 - AF OFF: Deactivates Alternative Reception

Note:

When Alternative Reception (for DAB services) is activated, Network-Tracking Reception (for RDS stations: see page 12) is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception.



- 4 Press SEL (select) again to finish the setting.



MAINTENANCE

ENGLISH

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.

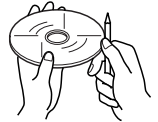
Moisture condensation

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.

Center holder



CAUTIONS:

- Do not insert 8cm 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 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 ERROR" appears on the display and CD cannot be ejected. No message appears on the display but CD cannot be ejected. 	The CD player may function incorrectly.	Press and hold – of the + / – button for more than 5 seconds.
		When holding     , press the reset button. Release the reset button, then     . (Be careful not to drop the CD when ejecting.)



Symptoms	Causes	Remedies
<ul style="list-style-type: none">Your voice commands (either Operation or Access commands) do not operate the receiver.	Microphone is not connected.	Connect it correctly.
	Voice control unit is not connected.	Connect it correctly.
	Your voice does not reach the microphone.	Attach the microphone to the place indicated in the Installation/Connection manual (separate volume).
<ul style="list-style-type: none">You cannot use all Operation Commands.	“DEMO OFF” is selected for “VOICE DEMO.” In this case, you can use only the Operation Commands for which you have registered your own voices.	Register your own voices for all Operation Commands.
<ul style="list-style-type: none">You cannot register your own commands.	“DEMO ON” is selected for “VOICE DEMO.”	Select “DEMO OFF” for “VOICE DEMO.” (See page 47)
	Noises inside or outside the car will interfere.	Change the microphone position or take any other methods to eliminate the noises.
<ul style="list-style-type: none">“” appears on the display.	Security lock is in use.	Enter the password. (See page 59)
<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 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-In Level/Impedance:

1.5 V/20 k Ω load

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 108.0 MHz

AM: (MW) 522 kHz to 1,620 kHz

(LW) 144 kHz to 279 kHz

[FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0 μ V/75 Ω)

50 dB Quieting Sensitivity:

16.3 dBf (1.8 μ V/75 Ω)

Alternate Channel Selectivity (400 kHz):

65 dB

Frequency Response: 40 Hz to 15,000 Hz

Stereo Separation: 30 dB

Capture Ratio: 1.5 dB

[MW Tuner]

Sensitivity: 20 μ V

Selectivity: 35 dB

[LW Tuner]

Sensitivity: 50 μ V

CD PLAYER SECTION

Type: Compact disc player

Signal Detection System: Non-contact optical pickup (semiconductor laser)

Number of channels: 2 channels (stereo)

Frequency Response: 5 Hz to 20,000 Hz

Dynamic Range: 96 dB

Signal-to-Noise Ratio: 98 dB

Wow and Flutter: Less than measurable limit

GENERAL

Power Requirement:

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

Grounding System: Negative ground

Allowable Operating Temperature:

0°C to +40°C

Main unit

Dimensions (W x H x D):

Installation Size:

182 mm x 52 mm x 160 mm

Panel Size: 188 mm x 58 mm x 8 mm

Mass: 1.7 kg (excluding accessories)

Voice control unit

Dimensions (W x H x D):

122 mm x 34 mm x 73 mm

Mass: 310 g

Design and specifications subject to change without notice.

Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

Haben Sie PROBLEME mit dem Betrieb?

Bitte setzen Sie Ihr Gerät zurück

Siehe Seite Zurücksetzen des Geräts

Vous avez des PROBLÈMES de fonctionnement?

Réinitialisez votre appareil

Référez-vous à la page intitulée Comment réinitialiser votre appareil

Hebt u PROBLEMEN met de bediening?

Stel het apparaat terug

Zie de pagina met de paragraaf Het apparaat terugstellen

JVC

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