

JVC



ENGLISH

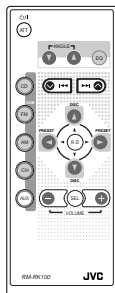
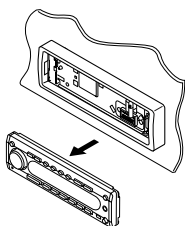
DEUTSCH

FRANÇAIS

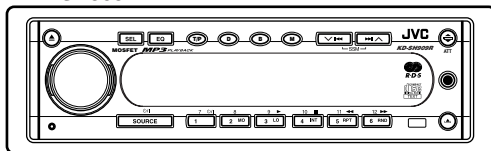
NEDERLANDS

CD RECEIVER
CD-RECEIVER
RECEPTEUR CD
CD-RECEIVER

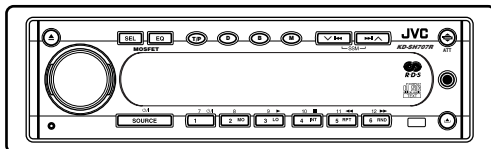
KD-SH909R/KD-SH707R



KD-SH909R



KD-SH707R



For installation and connections, refer to the separate manual.

Für den Einbau und die Anschlüsse siehe das eigenständige Handbuch.

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

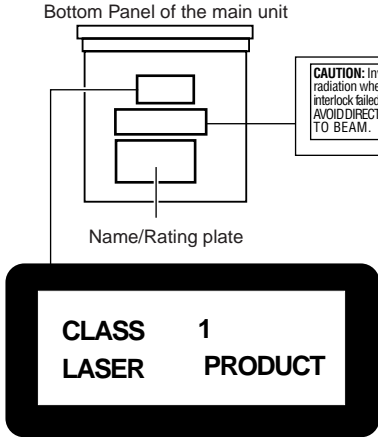
Bijzonderheden over de installatie en aansluiting van het apparaat vindt u in de desbetreffende handleiding.

INSTRUCTIONS

BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING

LVT0831-001A
[E/EX]

Position And Reproduction Of Labels



CAUTION: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.	ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgåudsæt- telse for stråling. (e)	VARNING: Osynlig laserstråling når denna del är öppnad och spärren är urkopplad. Beträkta ej strålen. (d)	VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)
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IMPORTANT FOR LASER PRODUCTS

Precautions:

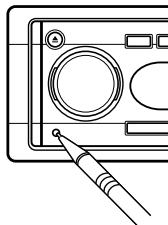
1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user-serviceable parts inside. Leave all servicing to qualified service personnel.
4. **CAUTION:** This 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 similar tool.

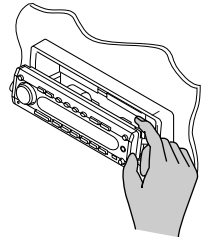
Note:

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



CAUTION:

NEVER insert your finger in between the control panel and the unit, as it may get caught or hurt. (See page 42.)



BEFORE USE

***For safety....**

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

***Temperature inside the car....**

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

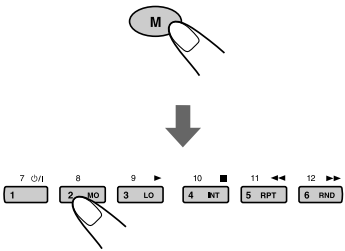
Thank you for purchasing a JVC product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

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How to use the M (mode) button:

If you press M (mode), the unit goes into functions mode and the number, ∇ \lll / \ggg \blacktriangle and D (display) buttons work as different function buttons.



During functions mode:



Time countdown indicator lights up

To use these buttons for their original functions (ex. as the number buttons) again after pressing M (mode), wait for 5 seconds without pressing any of these buttons until the functions mode is cleared.

- Pressing M (mode) again also clears the functions mode.

How to change the display patterns:

This unit is equipped with two display indication patterns – with or without the source symbol animation.

To change the display patterns, press M (mode), then press D (display) within 5 seconds.

Each time you press D (display), the display patterns change as follows:

Ex.: While receiving an FM station...



(Initial setting)



Note:

The display illustrations used in this manual are with the source symbol animations and with "CLOCK" set to "ON." (See page 38.)

CAUTION on Volume Setting

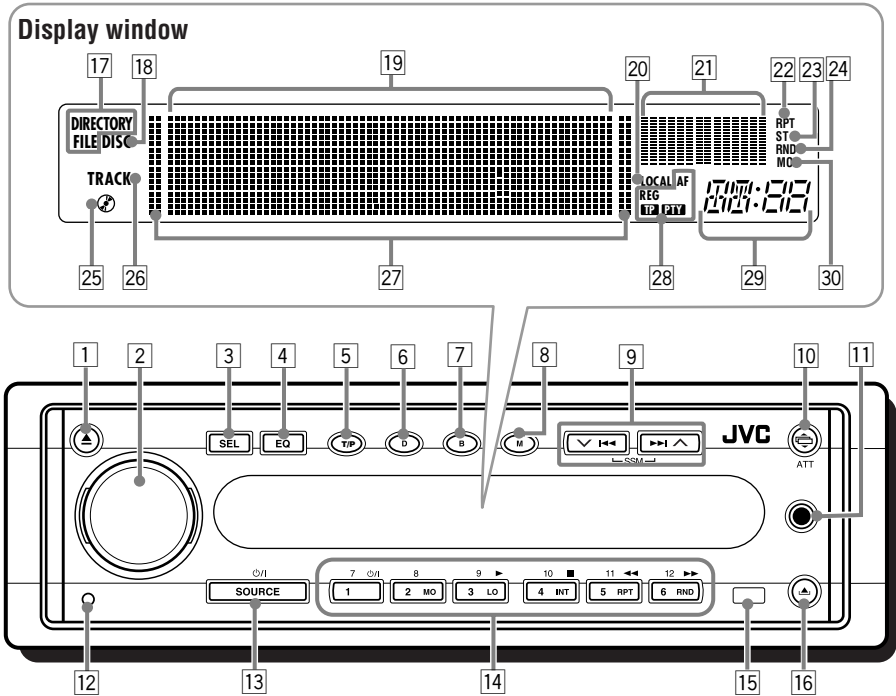
CDs produce very little noise compared with other sources. If the volume level is adjusted for the tuner, for example, the speakers may be damaged by the sudden increase in the output level. Therefore, lower the volume before playing a disc and adjust it as required during playback.

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.



Control panel



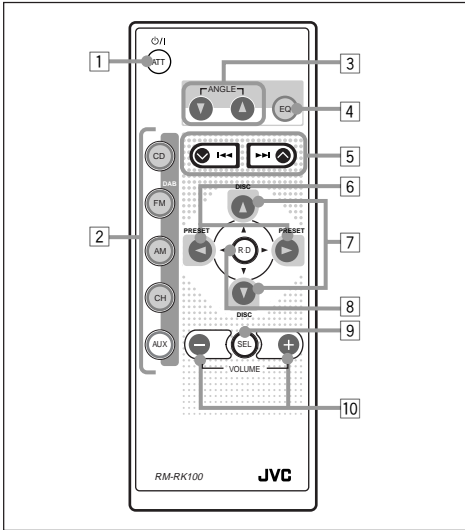
- 1 ▲ (eject) button
- 2 Control dial
- 3 SEL (select) button
- 4 EQ (equalization) button
- 5 T/P (traffic/programme type) button
- 6 D (display) button
- 7 B (band) button
- 8 M (mode) button
- 9 ▼ ◀▶▶▶ ▲ buttons
 - Also function as SSM buttons when pressed together.
- 10 📶 ATT (angle/attenuator) button
- 11 Auxiliary input jack
- 12 Reset button
- 13 SOURCE ⏻/I (standby/on) button
- 14 Number buttons
 - MO (monaural) button
 - LO (local) button
 - INT (intro scan) button
 - RPT (repeat) button
 - RND (random) button
 - DVD/Video component operation buttons
- 15 Remote sensor
- 16 📵 (control panel release) button

Display window

- 17 MP3 indicators (only for KD-SH909R)
DIRECTORY, FILE
- 18 DISC indicator
- 19 Main display
- 20 LOCAL indicator
- 21 Level display indicator
- 22 RPT (repeat) indicator
- 23 ST (stereo) indicator
- 24 RND (random) indicator
- 25 CD-in indicator
- 26 TRACK indicator
- 27 Time countdown indicator
- 28 RDS indicators
AF, REG, TP, PTY
- 29 Source/clock indicator
- 30 MO (monaural) indicator



Remote controller



- 1 • Turns on the unit if pressed when the unit is turned off.
• Turns off the unit if pressed and held until “SEE YOU” appears on the display.
• Drops the volume level if pressed briefly, and “ATT” flashes on the display. Press again to resume the volume.
- 2 • CD : Selects CD player.
• FM : Selects FM tuner.
Each time you press the button, FM band (FM1, FM2 and FM3) changes.
• Selects DAB tuner if pressed and held.*
Each time you press and hold the button, DAB band (DAB 1, DAB 2 and DAB 3) changes.
• AM : Selects AM tuner.
• CH : Selects CD changer.*
• AUX : Selects the external components.
Each time you press the button, “AUX INPUT”*** and “LINE INPUT”*** are alternately selected.

- 3 Changes the angle of the control panel to four positions.
- 4 Selects the sound modes.
Each time you press the button, sound modes change.

- 5 • Searches for stations while listening to the radio.
• Selects ensembles while listening to the DAB tuner if pressed briefly.
• Fast-forwards or reverses the track/file if pressed and held while listening to any disc. (See pages 22 and 29.)
• Skips to the beginning of the next track/file or goes back to the beginning of the current (or previous) track/file if pressed briefly while listening to any disc. (See pages 22 and 29.)
- 6 • Changes the preset channel number while listening to the radio (or the DAB tuner).
Each time you press the button, the preset channel number changes, and the selected station (or service) is tuned in.
• Only for KD-SH909R:
Skips to the first file of the next directory or the first file of the previous directory if pressed and held while listening to an MP3 disc. (See page 30.)
• Only for KD-SH909R:
Skips to the first file of the next directory or the first file of the previous directory of the same hierarchy level if pressed briefly while listening to an MP3 disc. (See page 31.)
- 7 • Selects services while listening to the DAB tuner if pressed briefly.
• Changes the disc number while listening to the CD changer.
Each time you press the button, the disc number changes, and the selected disc starts playing.
• Only for KD-SH909R:
Skips to the first file of a directory of an upper hierarchy level or a lower hierarchy level if pressed briefly while listening to an MP3 disc. (See page 31.)
- 8 Only for KD-SH909R:
Skips to the root directory while listening to an MP3 disc. (See page 31.)
- 9*** Selects the sound adjustment items.
Each time you press the button, the items change.
- 10*** • Changes the volume.
• Adjusts the sound mode (after SEL (select) is pressed).

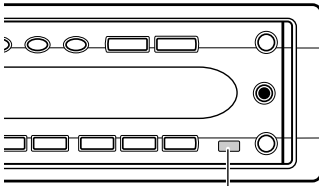
* Without connecting the DAB tuner or CD changer, you cannot select it as the source to play.
** If “AUX IN” or “LINE IN” is set to “OFF,” you cannot select it as the source to play. (See page 39.)
*** These buttons do not function in the preferred setting mode adjustment.



Preparing the remote controller

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.



Remote sensor

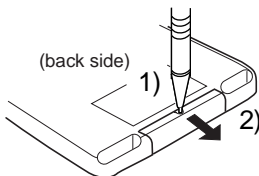
- Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).

Installing the battery

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

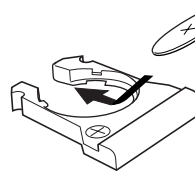
1. Remove the battery holder.

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



2. Place the battery.

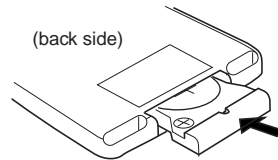
Slide the battery into the holder with the + side facing upwards so that the battery is fixed in the holder.



Lithium coin battery
(product number:
CR2025)

3. Return the battery holder.

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



WARNING:

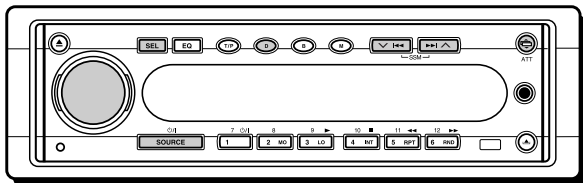
- Store the battery in a place where children cannot reach.
If a child accidentally swallows the battery, consult a doctor immediately.
- Do not recharge, short, disassemble or heat the battery or dispose it in a fire.
Doing any of these things may cause the battery to give off heat, crack or start a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

CAUTION:

DO NOT leave the remote controller in a place (such as dashboards) exposed to direct sunlight for a long time. Otherwise, it may be damaged.



BASIC OPERATIONS

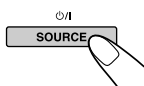


Note:

When you use this unit for the first time, set the built-in clock correctly, see page 9.

Turning on the power

1 Turn on the power and select the source.



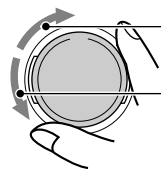
When you press the button for the first time, the power comes on. Then each time you press the button, the source changes as follows:

- AM TUNER (AM) → FM TUNER (FM) →
- DAB TUNER (DAB)* → CD** →
- CD CHANGER (CDCH)* →
- LINE INPUT (LINE)** →
- AUX INPUT (AUX)** → Back to the beginning

* Without connecting the DAB tuner or CD changer, you cannot select it as the source to play.
 ** If a disc is not in the loading slot, you cannot select CD as the source to play.
 *** When "LINE IN" or "AUX IN" is set to "OFF," you cannot select it as the source to play. (See page 39).

- To operate the tuner (FM or AM—MW/LW), see pages 10 – 20.
- To play a CD, see pages 21 – 24.
- To play an MP3 disc (only for KD-SH909R), see pages 27 – 32.
- To operate external components – AUX INPUT (AUX) and LINE INPUT (LINE), see pages 44 and 45.
- To operate the CD changer, see pages 46 – 48.
- To operate the DAB tuner, see pages 49 – 52.

2 Adjust the volume.



To increase the volume.
To decrease the volume.

Volume level appears.



Volume level indicator

Note:

After adjusting the volume, you can push in the control dial to avoid unintended operations. To use it again, push the control dial again to make it come out.

3 Adjust the sound as you want. (See pages 33 – 35.)

- You can adjust and store the input level of each source except for FM (see page 33).

To drop the volume in a moment

Press and hold ATT 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 and hold the button again.

- If you turn the control dial clockwise, you can also restore the sound.



To turn off the power

Press and hold SOURCE until "SEE YOU" appears on the display.

- If you turn off the power while listening to a disc, CD play will start from where playback has been stopped previously, next time you turn on the power.

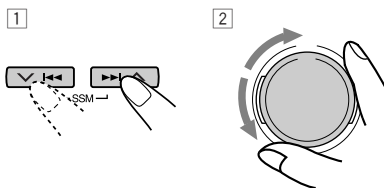
Setting the clock

- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.**
(See page 37.)



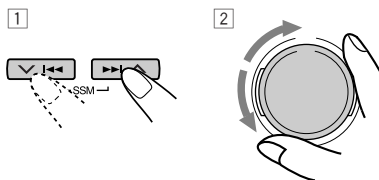
- 2 Select the clock system.**

- 1 Select "24H/12H" if not shown on the display.
- 2 Select either "12HOUR" or "24HOUR."



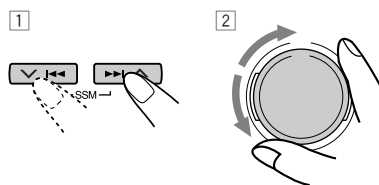
- 3 Set the hour.**

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



- 4 Set the minute.**

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

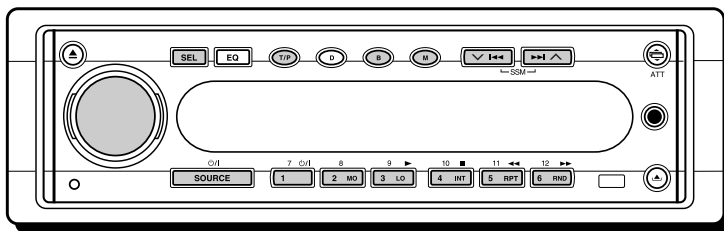


- 5 Finish the setting.**



To check the current clock time while the unit is turned off, press D (display).

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

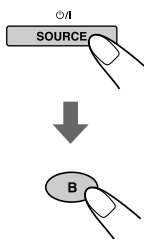


Listening to the radio

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

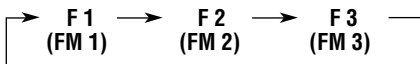
Searching a station automatically: Auto search

1 Select FM or AM (MW/LW).



1 Press SOURCE repeatedly to select FM or AM (MW/LW) as the source.

2 If necessary, press B (band) repeatedly to select the FM band number. Each time you press the button, the FM band changes as follows:

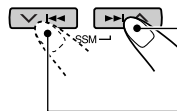


Selected band appears.

Notes:

- This receiver has three FM bands (FM1, FM2, FM3). You can use any one of them to listen to an FM broadcast.
- While receiving an FM RDS station, PS name (station name) appears on the upper line of the main display.

2 Start searching a station.



Press to search stations of higher frequencies.

Press to search stations of lower frequencies.

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 to FM stations only with strong signals

- 1 Press M (mode) to enter the functions mode while listening to an FM broadcast.
- 2 Press LO (local) while still in the functions mode, so that the LOCAL indicator lights up on the display.

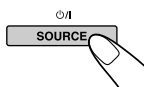
This function works only while searching FM stations, including SSM preset.

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

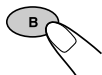
Searching a station manually:

Manual search

1 Select FM or AM (MW/LW).



- 1 Press SOURCE repeatedly to select FM or AM (MW/LW) as the source.



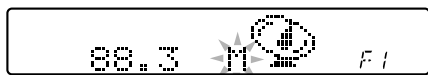
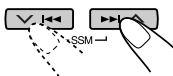
- 2 If necessary, press B (band) repeatedly to select the FM band number. Each time you press the button, the FM band changes as follows:



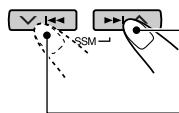
Note:

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

2 Press and hold or until "M" (manual) starts flashing on the display.



3 Tune in to a station you want while "M" is flashing.

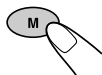


Press to tune in to stations of higher frequencies.

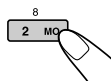
Press to tune in to stations of lower frequencies.

- 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 until you release the button.

When an FM stereo broadcast is hard to receive:

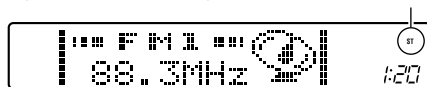


- 1 Press M (mode) to enter the functions mode while listening to an FM stereo broadcast.



- 2 Press MO (monaural) while still in the functions mode, so that the MO indicator lights up on the display.
 - Each time you press the button, the MO (monaural) and ST (stereo) indicators light up alternately.

Lights up when receiving an FM broadcast in stereo.



The MO indicator lights up.

When the MO indicator is lit on the display, the sound you hear becomes monaural but the reception will be improved (the ST indicator goes off).



Storing stations in memory

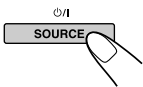
You can use one of the following two methods to store broadcasting stations in memory.

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

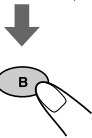
FM station automatic preset: SSM

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

1 Select the FM band (FM1 – 3) you want to store FM stations into.



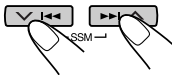
1 Press SOURCE $\phi/1$ repeatedly to select FM.



2 If necessary, press B (band) repeatedly to select the FM band. Each time you press the button, the FM band changes as follows:



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).

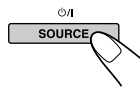
When automatic preset is over, the station stored in number button 1 will be automatically tuned in.

Manual preset

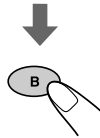
You can preset up to 6 stations in each band (FM1, FM2, FM3 and AM (MW/LW)) manually.

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

1 Select the band (FM1 – 3, AM) you want to store stations into (in this example, FM1).



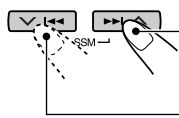
1 Press SOURCE $\phi/1$ repeatedly to select FM as the source.



2 If necessary, press B (band) repeatedly to select FM1. Each time you press the button, the FM band changes as follows:



2 Tune in to a station (in this example, of 88.3 MHz).



Press ►► I ^ to tune in to stations of higher frequencies.

Press ▼ ◀◀ to tune in to stations of lower frequencies.



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



"1" flashes for a while.

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

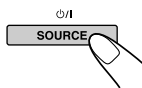
Notes:

- 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.

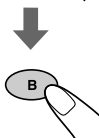
Tuning in to a preset station

You can easily tune in to a preset station. Remember that you must store stations first. If you have not stored them yet, see "Storing stations in memory" on page 12.

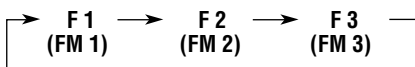
1 Select the band (FM1 – 3, AM).



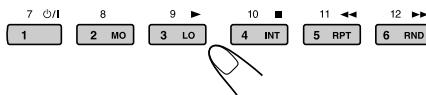
- 1 Press SOURCE repeatedly to select FM or AM (MW/LW) as the source.



- 2 If necessary, press B (band) repeatedly to select the FM band. Each time you press the button, the FM band changes as follows:



2 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 such interference occurs, this unit can automatically reduce the 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 also be 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 – IF FILTER" on page 40.



What you can do with RDS

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 "Enhanced Other Networks." By using the Enhanced Other Networks data sent from a station, you can tune in to a different station of a different network broadcasting your favourite 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 favourite programme
- PTY (Programme Type) search
- 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 tunes in to 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).

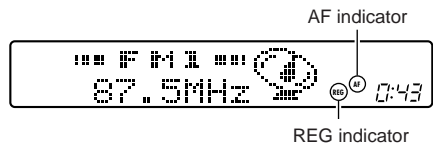
Without receiving these data correctly from the RDS station you are listening to, Network-Tracking Reception will not operate.

To use Network-Tracking Reception

You can select the different modes of network-tracking reception to continue listening to the same programme in its finest reception.

When shipped from the factory, "AF" is selected.

- **AF:** Network-Tracking Reception is activated with Regionalization set to "off".
With this setting, the unit switches to another station within the same network when the receiving signals from the current station become weak. (In this mode, the programme may differ from the one currently received.)
The AF indicator lights up but the REG indicator does not.
- **AF REG:** Network-Tracking Reception is activated with Regionalization set to "on".
With this setting, the unit switches to another station, within the same network, broadcasting the same programme when the receiving signals from the current station become weak.
Both the AF indicator and the REG indicator light up.
- **OFF:** Network-Tracking Reception is deactivated.
Neither the AF indicator nor the REG indicator lights up.



Note:

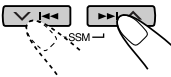
If a DAB tuner is connected and Alternative Reception (for DAB services) is activated, Network-Tracking Reception is also activated automatically. On the other hand, Networking-Tracking Reception cannot be deactivated without deactivating Alternative Reception. (See page 52.)



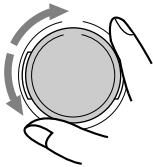
1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 37.)



2 Select “AF-REG (alternative frequency/regionalization reception)” if not shown on the display.



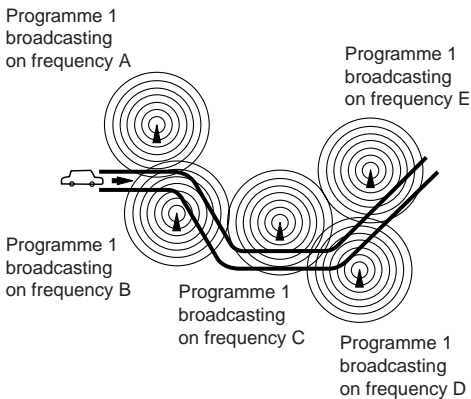
3 Select the desired mode – “AF,” “AF REG” or “OFF.”



4 Finish the setting.



The same programme can be received on different frequencies.



Using TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from the current source (another FM station, CD or other connected components).

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



Press T/P to activate TA Standby Reception.

■ When the current source is FM, the TP indicator either lights up or flashes.

- If the TP indicator lights up, TA Standby Reception is activated.

If a station starts broadcasting a traffic announcement, “TRAFFIC” appears on the display, and this unit automatically tunes in to the station. The volume changes to the preset TA volume level (see page 19) and the traffic announcement can be heard.

- If the TP indicator flashes, TA Standby Reception is not yet activated since the station being received does not provide the signals used for TA Standby Reception. To activate TA Standby Reception, you need to tune in to another station providing these signals.

Press ►►| ▲ or ▼ |◄◄ to search for such a station.

When a station providing these signals is tuned in, the TP indicator stops flashing and remains lit. Now TA Standby Reception is activated.

■ When the current source is other than FM, the TP indicator lights up.

If a station starts broadcasting a traffic announcement, “TRAFFIC” appears on the display, and this unit automatically changes the source and tunes in to the station.

To deactivate the TA Standby Reception, press T/P again.



Using PTY Standby Reception

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

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

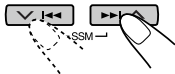
You can select your favourite programme type for PTY Standby Reception.

When shipped from the factory, PTY Standby Reception is turned off. ("OFF" is selected for PTY Standby Reception.)

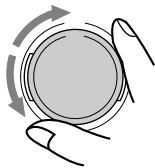
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 37.)**



- 2 Select "PTY STBY (standby)" if not shown on the display.**



- 3 Select one of the twenty-nine PTY codes. (See page 20.)**



Selected code name appears on the display and is stored into memory.

- To cancel the PTY Standby Reception, select "OFF."

- 4 Finish the setting.**



- **When the current source is FM, the PTY indicator either lights up or flashes.**
 - If the PTY indicator lights up, PTY Standby Reception is activated. If a station starts broadcasting the selected PTY programme, this unit automatically tunes in to the station.
 - If the PTY indicator flashes, PTY Standby Reception is not yet activated since the station being received does not provide the signals used for PTY Standby Reception. To activate PTY Standby Reception, you need to tune in to another station providing these signals. Press **▶▶ ▲** or **▼ ◀◀** to search for such a station. When a station providing these signals is tuned in, the PTY indicator stops flashing and remains lit. Now PTY Standby Reception is activated.
- **When the current source is other than FM, the PTY indicator lights up.** If a station starts broadcasting the selected PTY programme, this unit automatically changes the source and tunes in to the station.

To deactivate the PTY Standby Reception, select "OFF" in step 3 on the left column. The PTY indicator disappears.



Searching your favourite programme

You can search any one of the PTY codes. In addition, you can store your 6 favourite programme types in the number buttons. When shipped from the factory, the following 6 programme types have been stored in the number buttons (1 to 6).

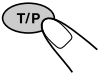
To store your favourite programme types, see below.

To search your favourite programme type, see page 18.

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

To store your favourite programme types

- 1 Press and hold T/P for more than 2 seconds.



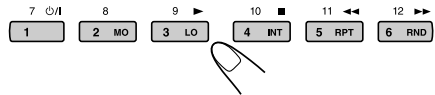
The last selected PTY code appears.

- 2 Select one of the twenty-nine PTY codes. (See page 20.)



Selected code name appears on the display.

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



Preset number flashes for a while.

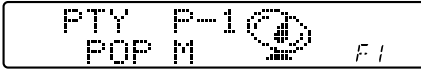
- 4 Press and hold T/P again.





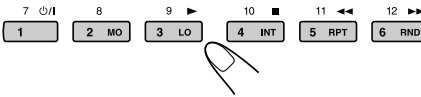
To search your favourite programme type

- 1 Press and hold T/P for more than 2 seconds while listening to an FM station.



The last selected PTY code appears.

- 2 Select one of the PTY codes.



OR



Ex.: When "ROCK M" is selected

- 3 Press **▶▶**, **▲** or **▼**, **◀◀** to start PTY search for your favourite programme.

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

Note:

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

Other convenient RDS functions and adjustments

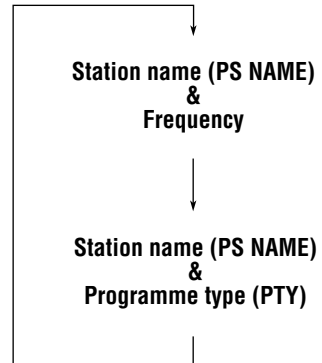
Changing the display mode while listening to an FM station

You can change the indication on the display to station name (PS NAME), station frequency or programme type (PTY) while listening to an FM RDS station.

Press D (display) while listening to an FM RDS station.



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





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 to another frequency broadcasting the same programme as the original preset station is broadcasting. (Programme search)

- The unit takes some time to tune in to another station using Programme search.

To activate programme search, follow the procedure below.

- See also “Changing the general settings (PSM)” on page 36.

- 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 “P(Programme)-SEARCH.”
- 3 Turn the control dial clockwise to select “ON.”
Now programme search is activated.
- 4 Press SEL (select) to finish the setting.

To cancel programme search, repeat the same procedure and select “OFF” in step 3 by turning the control dial counterclockwise.

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 36.

- 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 Turn the control dial to set to the desired volume.
You can set it from “00” to “50.”
- 4 Press SEL (select) to finish the setting.

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 36.

- 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 ADJ (adjustment).”
- 3 Turn the control dial counterclockwise to select “OFF.”
Now automatic clock adjustment is canceled.
- 4 Press SEL (select) to finish the setting.

To reactivate clock adjustment, repeat the same procedure and select “ON” in step 3 by turning the control dial clockwise.

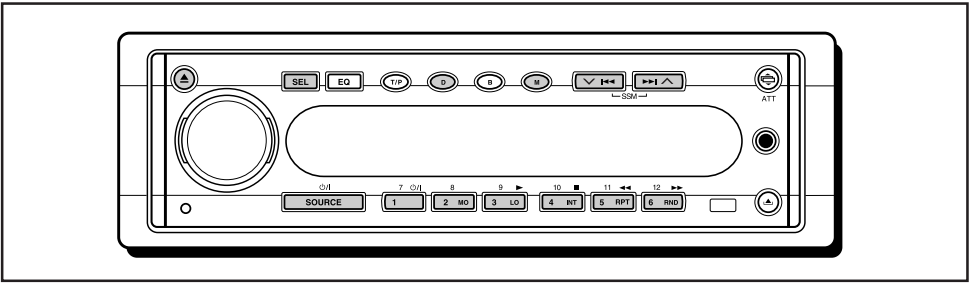
Note:

You must stay tuned to the same station for more than 2 minutes after setting “AUTO ADJ” to “ON.” Otherwise, the clock time will not be adjusted. (This is because the unit takes up to 2 minutes to capture the CT data in the RDS signal.)



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		



When playing an MP3 disc (only for KD-SH909R), refer also to “MP3 OPERATIONS” on pages 27 to 32.

Playing a CD

1 Open the control panel.

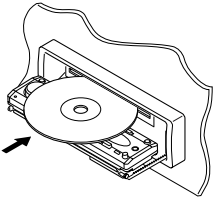


The control panel moves down, and the loading slot appears.

Note:

When an external component is connected to the auxiliary input jack, be careful of handling a disc.

2 Insert a disc into the loading slot.



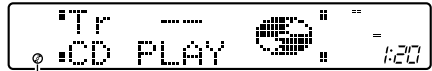
The unit draws the disc, the control panel goes back to the previous position (see page 42), and CD play starts automatically.

- All the tracks on the disc will be played repeatedly until you stop playback— All Track Repeat Play.

Note:

Do not insert any 8 cm disc into the loading slot as it will get stuck inside.

The display changes to show the following:



CD-in indicator lights up

Total track number of the inserted disc



Total playing time of the inserted disc

Current track



Elapsed playing time



Notes:

- When a disc is in the loading slot, selecting “CD” as the source by pressing SOURCE starts CD play.
 - When a disc is inserted upside down, the disc automatically ejects.
 - If a name has been assigned to the CD (see page 41), it will be shown on the upper line of the main display.
 - When you play a CD Text, the disc title/performer and track title will appear; followed by the elapsed playing time (and track No.) See also “Playing a CD Text” (page 23) and “To select the scroll mode – SCROLL” (page 39).
- If a CD Text includes too much text information, some may not appear on the display.
- If you turn off the power or change the source, CD play stops (without ejecting the disc). Next time you turn on the power or select CD as the source, CD play starts from where playback has been stopped previously.

To stop play and eject the disc

Press . CD play stops, the control panel moves down, and the disc automatically ejects from the loading slot.

To return the control panel to its previous position, press again.

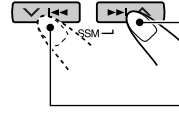
- If you keep the loading slot open for one minute (or 30 seconds when you have ejected a disc with the ignition key turned to “OFF”), a beep sounds and the control panel returns to its previous position. Be careful not to get the disc or your finger caught in between the control panel and the unit.

Note:

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

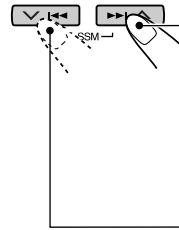
Locating a track or particular portion on a CD

To fast-forward or reverse the track



Press and hold while playing a disc, to fast-forward the track.
Press and hold while playing a disc, to reverse the track.

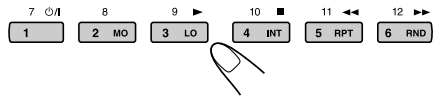
To go to the next or previous tracks



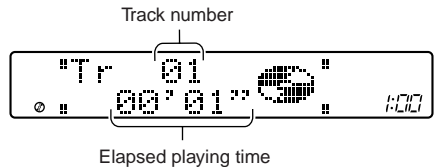
Press briefly while playing a disc, to go ahead to the beginning of the next track. Each time you press the button consecutively, the beginning of the next tracks is located and played back.
Press briefly while playing a disc, to go back to the beginning of the current track. Each time you press the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

To go to a particular track directly

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



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





Playing a CD Text

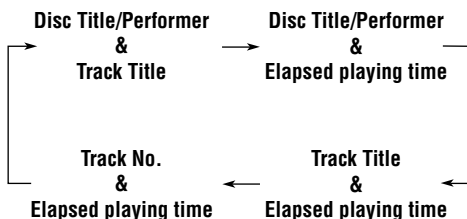
In a CD Text, some information about the disc (its disc title, performer and track title) is recorded. You can show these disc information on the display.

Select text display mode while playing a CD Text.

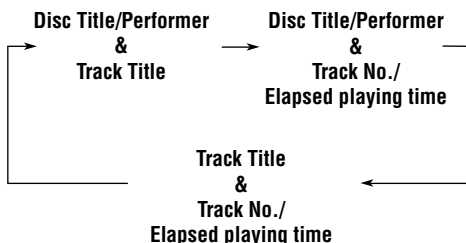


Each time you press the button, the display changes as follows:

- When the source symbol animation display is selected...



- When the source symbol animation display is not selected...



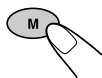
Notes:

- If the display cannot show the entire text all at once, it scrolls to show the remaining text. See also "To select the scroll mode – SCROLL" on page 39.
- When the disc title/performer is shown, the DISC indicator lights up. When the track title is shown, the TRACK indicator lights up.
- When you press D (display) while playing a conventional CD, "NO NAME" appears for the disc title/performer and the track title.

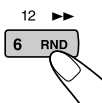
Selecting CD playback modes

To play back tracks at random (Random Play)

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



- 1 Press M (mode) while playing a disc. This unit enters the functions mode.



- 2 Press RND (random) while still in the functions mode, so that "RANDOM" flashes on the display. Then, each time you press RND, random play mode turns on and off alternately.

RND (random) indicator

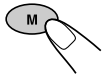


When the random mode is turned on, the RND indicator lights up on the display and a track randomly selected starts playing.

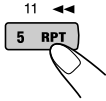


To play back the current track repeatedly (One Track Repeat Play)

You can play back the current track repeatedly.



1 Press M (mode) while playing a disc. The unit enters the functions mode.



2 Press RPT (repeat) while still in the functions mode, so that "REPEAT" flashes on the display. Then, each time you press RPT, One Track Repeat Play turns on and off alternately. When One Track Repeat Play is turned off, All Track Repeat Play is activated.

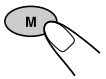
RPT (repeat) indicator



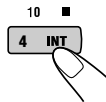
When the repeat mode is turned on, the RPT indicator lights up on the display.

To play back only intros (Intro scan)

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



1 Press M (mode) while playing a disc. This unit enters the functions mode.



2 Press INT (intro scan) while still in the functions mode, so that "INTRO" flashes on the display. Then, each time you press INT, intro scan play mode turns on and off alternately.



- During intro scan play, track numbers flash.
- When the intro scan play ends, normal playback resumes.

Prohibiting disc ejection

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



While pressing SEL (select), press and hold ▲ for more than 2 seconds.



"NO EJECT" flashes on the display for about 5 seconds, and the disc is locked and cannot be ejected.



Note:

If you press ▲ while disc ejection is prohibited, the control panel moves down, but the disc cannot be ejected.

To return the display panel to its previous position, press ▲.

To cancel the prohibition and unlock the disc, press and hold ▲ for more than 2 seconds again, while pressing SEL (select).



"EJECT OK" flashes on the display for about 5 seconds, and the disc is unlocked.

This chapter is only for KD-SH909R.

What is MP3?

MP3 is an abbreviation of Motion Picture Experts Group (or MPEG) Audio Layer 3*. MP3 is simply a file format with a data compression ratio of 1:10 (128 Kbps**). That means, by using MP3 format, one CD-R or CD-RW can contain 10 times as much data volume as a regular CD can.

- * This player is not compatible with the data encoded with Layer 1 and 2 formats.
- ** Bit rate is the average number of bits that one second of audio data will consume. The unit used is Kbps (1000 bits/second). To get a better audio quality, choose a higher bit rate. The most popular bit rate for encoding is 128 Kbps.

This unit is incorporated with an MP3 decoder. You can play back MP3 files (tracks) recorded on CD-Rs, CD-RWs, and CD-ROMs.

Compatible with ID3v1

Extra information data such as album title, performer name, song title, recording year, music genre and a brief comment can be stored within an MP3 file.

This unit can show ID3v1 tags (album name, performer name and song title) on the display. (See page 53.)

- Some characters cannot be shown correctly.
- This unit is not compatible with ID3v2.

Other Main Features in this unit:

- Maximum number of directories/files: 289 (Total)
- Available characters for directory/file names: A–Z, 0–9, _ (underscore)
- Maximum number of characters for file name (ISO 9660 Level 1): 12 (inclusive of separation mark—“.” and extension code—“mp3”)
- (ISO 9660 Level 2): 31 (inclusive of separation mark—“.” and extension code—“mp3”)
- (Joliet): 64 (inclusive of separation mark—“.” and extension code—“mp3”)
- Maximum number of characters for directory name: 64

Precautions when recording MP3 files on a CD-R or CD-RW

This unit can only read MP3 files that are recorded in the format that is compliant with ISO 9660 Level 1, Level 2 or Joliet.

How are MP3 files recorded and played back?

MP3 “files (tracks)” can be recorded in “directories (folders)”—in PC terminology. During recording, the files and directories can be arranged in a way similar to arranging files and directories/folders of computer data.

“Root” is similar to the root of a tree. Every file and directory can be linked to and be accessed from the root.

Playback order, file search order, and directory search order of the MP3 files recorded on a disc are determined by the writing (or encoding) application; therefore, playback order may be different from the one you have intended while recording the directories and the files.

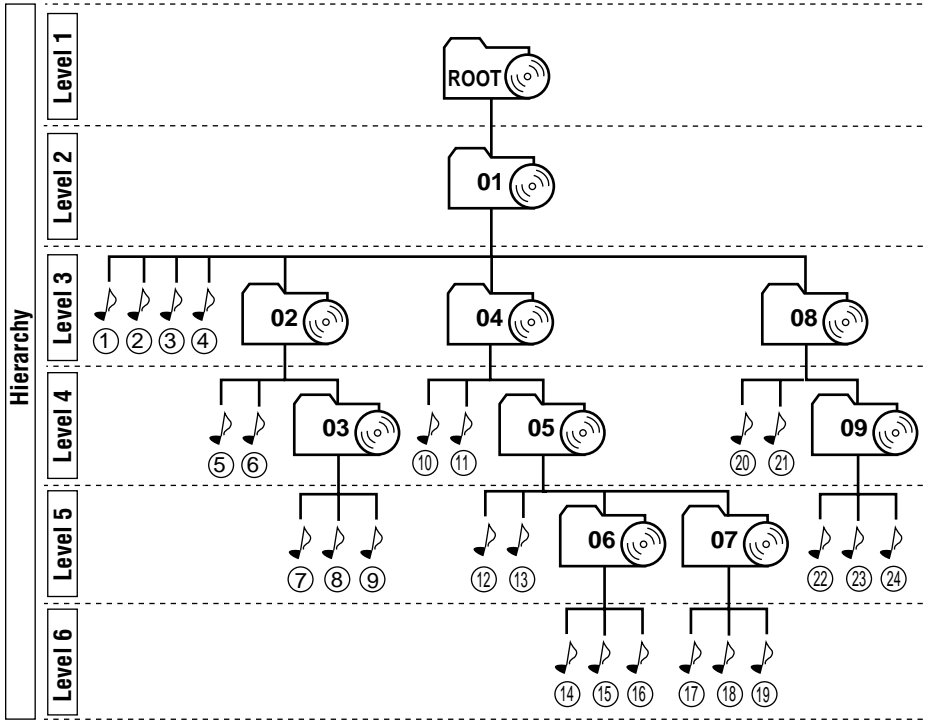
The illustration on the next page shows an example of how MP3 files are recorded on a CD-R or CD-RW, how they are played back, and how they are searched on this unit.

Notes:

- The unit can read a CD-ROM containing MP3 files. However, if non-MP3 files are recorded together with MP3 files, this unit will take a longer time to scan the disc. It may also cause the unit to malfunction.
- The unit cannot read or play an MP3 file without the extension code—mp3.
- The unit is not compatible with Playlist*.

* A playlist is a simple text file, used on a PC, which enables users to make their own playback order without physically rearranging the files.

MP3 directory/file configuration



	: Root
	: Directories
	: MP3 files

Note:

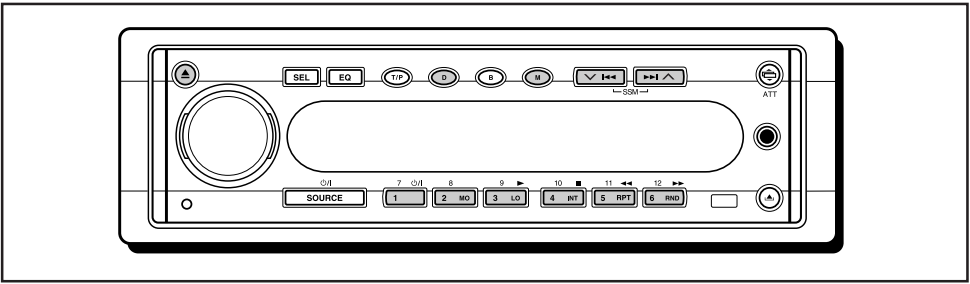
There is no limit on the number of the hierarchy levels (nested directories). However, up to 8 hierarchy levels is recommended for stable operations.

MP3 playback/search order (page 29)

- The numbers in circles below the MP3 files () indicate the playback order and search order of the MP3 files. Normally this unit plays back MP3 files in the recorded order.
- The numbers inside the directories indicate the playback order and search order of the directories on an MP3 disc. Normally this unit plays back MP3 files in the directories in the recorded order.

Movement between the directories (pages 30 and 31)

You can move to another directory on the same hierarchy level (only within the same parent directory) (e.g. from Directory 02, you can go to Directory 04 or 08) or on a different hierarchy level (e.g. from Directory 05, you can go to Directory 04 or 06).



This chapter is only for KD-SH909R.
Refer to “CD OPERATIONS” on pages 21 to 24.

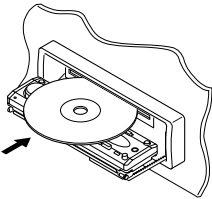
Playing an MP3 disc

1 Open the control panel.



The control panel moves down, and the loading slot appears.

2 Insert an MP3 disc into the loading slot.



The unit draws the disc, the control panel goes back to its previous position (see page 42) and playback starts automatically.

The display changes to show the following:



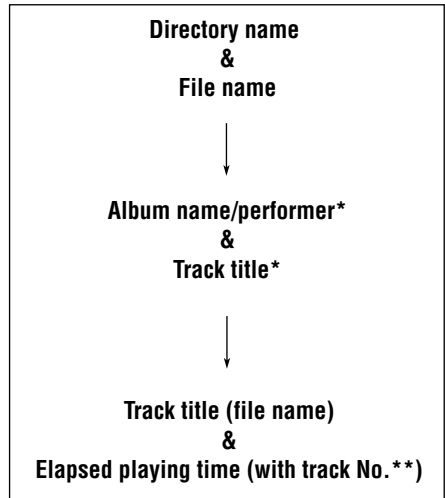
CD-in indicator lights up.



Ex.: When the disc contains 13 directories and 125 MP3 files.

Playback starts automatically from the first file of the first directory once file check is completed.
Then, the display changes to show the following:

- When “TAG DISP” is set to “ON” (initial setting: see page 40)



* If an MP3 file does not have ID3 tags, album name/performer and track title will be skipped.

** When the source symbol animation display is not selected.

- When “TAG DISP” is set to “OFF”



* When the source symbol animation display is not selected.

Notes:

- All the files on the disc will be played repeatedly until you stop playback—All File Repeat Play.
- MP3 discs require a longer readout time**. (It differs due to the complexity of the directory/file configuration.)

** Readout time is the time taken by the unit to scan or check the disc for files and file information.

To change the display information



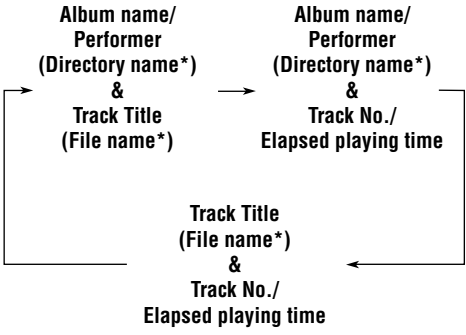
While playing back an MP3 file, you can change the file information shown on the display. Each time you press D (display), the display changes to show the following:

- When the source symbol animation display is selected...



* When “TAG DISP” is set to “OFF,” or if an MP3 file does not have ID3 tags, directory name and file name appear.

- When the source symbol animation display is not selected...




* When "TAG DISP" is set to "OFF," or if an MP3 file does not have ID3 tags, directory name and file name appear.

Note:

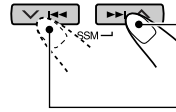
If the display cannot show the entire text all at once, it scrolls to show the remaining text. See also "To select the scroll mode – SCROLL" on page 39.





To stop play and eject the disc

Press . Playback stops, the control panel moves down, and the disc automatically ejects from the loading slot.

Locating a file or particular portion on an MP3 disc

To fast-forward or reverse the file

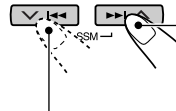




Press and hold   while playing an MP3 disc, to fast-forward the file.
Press and hold   while playing an MP3 disc, to reverse the file.



Note:

During this operation, you can only hear intermittent sounds. (The elapsed playing time also changes intermittently on the display.)

To skip to the next or previous files



Press   briefly while playing, to skip ahead to the beginning of the next file. Each time you press the button consecutively, the beginning of the next files is located and played back. (See "MP3 playback/search order" on page 26.)

Press   briefly, while playing, to skip back to the beginning of the current file. Each time you press the button consecutively, the beginning of the previous files is located and played back. (See "MP3 playback/search order" on page 26.)

To go to a particular directory directly

IMPORTANT:

To directly select the directories using the number button(s), it is required that directories are assigned 2 digit numbers at the beginning of their directory names. (This can only be done during the recording of CD-Rs or CD-RWs.)

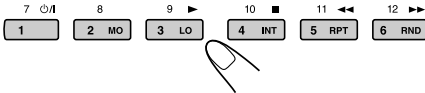
Ex.: If directory name is "01 ABC"

- press 1 to go to Directory "01 ABC."
- If directory name is "1 ABC," pressing 1 does not work.

If directory name is "12 ABC"

- press and hold 6 (12) to go to Directory "12 ABC."

Press the number button corresponding to the directory number to start playing the first file in the selected directory.



- To select a directory number from 01 – 06: Press 1 (7) – 6 (12) briefly.
- To select a directory number from 07 – 12: Press and hold 1 (7) – 6 (12) for more than 1 second.

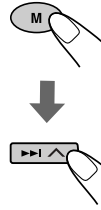
Notes:

- If "MP3" flashes on the display after you have selected a directory, it means that the directory does not contain any MP3 files.
- You cannot directly select a directory with a number greater than 12.

To select a particular file in a directory, press ►►| ▲ or ▼ |◄◄ after selecting the directory.

To skip to the next directory—either on the same hierarchy level or on a different hierarchy level

On the control panel:



- 1 Press M (mode) while playing an MP3 disc. The unit enters the functions mode.
- 2 Press ►►| ▲ briefly while still in the functions mode. Each time you press the button consecutively, the next directory is located (and the first file in the directory starts playing, if recorded). (See "Movement between the directories" on page 26.)

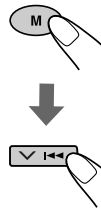
On the remote controller:



- Each time you press and hold the button consecutively, the next directory is located (and the first file in the directory starts playing, if recorded). (See "Movement between the directories" on page 26.)

To skip to the previous directory—either on the same hierarchy level or on a different hierarchy level

On the control panel:



- 1 Press M (mode) while playing an MP3 disc. The unit enters the functions mode.
- 2 Press ▼ |◄◄ briefly while still in the functions mode. Each time you press the button consecutively, the previous directory is located (and the first file in the directory starts playing, if recorded). (See "Movement between the directories" on page 26.)

On the remote controller:



- Each time you press and hold the button consecutively, the previous directory is located (and the first file in the directory starts playing, if recorded). (See "Movement between the directories" on page 26.)

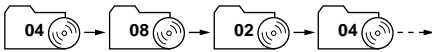
To skip to the next directory on the same hierarchy level (only within the same parent directory)

On the remote controller:



Each time you press the button consecutively, the next directory on the same hierarchy level is located (and the first file in the directory starts playing, if recorded).

Ex.1: While playing an MP3 file in Directory 04 (see the illustration on page 26)



Ex.2: While playing an MP3 file in Directory 06 (see the illustration on page 26)



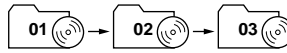
To skip to the directories on the lower hierarchy levels

On the remote controller:

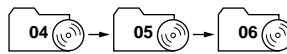


Each time you press the button consecutively, a directory on the lower hierarchy level is located (and the first file in the directory starts playing, if recorded).

Ex.1: While playing an MP3 file in Directory 01 (see the illustration on page 26)



Ex.2: While playing an MP3 file in Directory 04 (see the illustration on page 26)



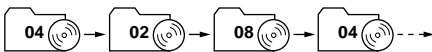
To skip to the previous directory on the same hierarchy level (only within the same parent directory)

On the remote controller:



Each time you press the button consecutively, the previous directory on the same hierarchy level is located (and the first file in the directory starts playing, if recorded).

Ex.1: While playing an MP3 file in Directory 04 (see the illustration on page 26)



Ex.2: While playing an MP3 file in Directory 06 (see the illustration on page 26)



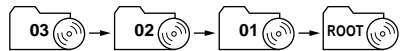
To skip to the directories on the upper hierarchy levels

On the remote controller:



Each time you press the button consecutively, a directory on the upper hierarchy level is located (and the first file in the directory starts playing, if recorded).

Ex.1: While playing an MP3 file in Directory 03 (see the illustration on page 26)



Ex.2: While playing an MP3 file in Directory 05 (see the illustration on page 26)



• If you reach the root, playback will not begin.

Note:

If there is no MP3 file in a directory that you have skipped to, "MP3" flashes on the display. If this happens, the unit pauses automatically.

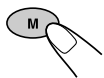
To go back to the root directly, press R-D on the remote controller. You can go back to the root from any directory.

- If files are recorded on the first hierarchy level without putting them into a directory, this unit starts playing the files.

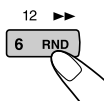
Selecting MP3 playback modes

To play back files at random (Random Play)

You can play back all files on the MP3 disc at random.



- 1 Press M (mode) while playing an MP3 disc. The unit enters the functions mode.



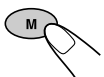
- 2 Press RND (random) while still in the functions mode, so that "RANDOM1" or "RANDOM2" flashes on the display. Then, each time you press RND, the random play mode changes as follows:



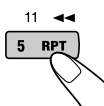
Mode	RND Indicator	Plays at random
RANDOM1	Lights	All files of the current directory, then the files of the next directory and so on.
RANDOM2	Flashes	All files on the disc.

To play back files repeatedly (Repeat Play)

You can play back the current file or all the files in the current directory repeatedly.



- 1 Press M (mode) while playing an MP3 disc. The unit enters the functions mode.



- 2 Press RPT (repeat) while still in the functions mode, so that "REPEAT1" or "REPEAT2" flashes on the display. Then, each time you press RPT, the repeat play mode changes as follows:



RPT indicator

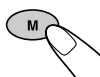


Ex.: When "REPEAT 1" is selected.

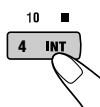
Mode	RPT Indicator	Plays repeatedly
REPEAT1	Lights	The current file (or specified file).
REPEAT2	Flashes	All files of the current directory (or specified directory).

To play back only intros (Intro scan)

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



- 1 Press M (mode) while playing an MP3 disc. The unit enters the functions mode.



- 2 Press INT (intro scan) while still in the functions mode, so that "INTRO1" or "INTRO2" flashes on the display. Then, each time you press INT, the intro scan play mode changes as follows:



Mode	Indicator	Plays the beginnings (15 seconds)
INTRO1	The FILE indicator flashes	Of all files on the disc.
INTRO2	The DIRECTORY indicator flashes	Of the first file of all directories.



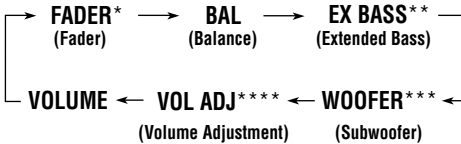
Adjusting the sound

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
FADER*	Adjust the front and rear speaker balance.	R06 (Rear only) F06 (Front only)
BAL	Adjust the left and right speaker balance.	L06 (Left only) R06 (Right only)
EX BASS**	Turn on or off the Extended Bass.	ON OFF
WOOFER***	Adjust the subwoofer output level.	00 (min.) 12 (max.)
VOL ADJ****	See "To adjust the input level of each source" on the right column.	-12 (min.) +12 (max.)
VOLUME	Adjust the volume.	00 (min.) 50 (max.)

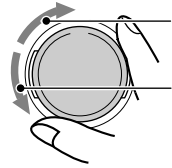
* If you are using a two-speaker system, set the fader level to "00."

** The richness and fullness of the bass sound is clearly maintained regardless of how low you set the volume – Extended Bass.

*** This takes effect only when a subwoofer is connected.

**** Not adjustable when the source is FM.
"FIX" will appear.

2 Adjust the level.



To increase the level.

To decrease the level.

Note:

Normally, the control dial works as the volume control. So you do not have to select "VOLUME" to adjust the volume level.

To adjust the input level of each source

You can adjust the input level of each source except FM, and store it in memory. By adjusting the input level properly to match it to the FM sound level, you will not need to adjust the volume level each time you change the source.



Selecting preset sound modes (EQ)

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

1 Press EQ to activate the sound mode (EQ).



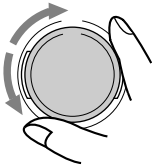
Each time you press the button, the sound mode (EQ) is activated or deactivated.

- When the sound mode (EQ) is activated, the last selected sound mode is recalled and applied to the current source.



Ex.: When you have selected "FLAT" previously.

2 Select the sound mode you want.



As you turn the control dial, the sound modes change as follows:

FLAT ⇄ Hard Rock ⇄ R & B* ⇄ POP ⇄
 JAZZ ⇄ Dance Music ⇄ Country ⇄ Reggae ⇄
 Classic ⇄ USER 1 ⇄ USER 2 ⇄ USER 3 ⇄
 (back to the beginning)

* Rhythm and Blues

EQ level changes as you select the sound mode.



Ex.: When you select "POP"

To cancel the sound mode, select "FLAT" in step 2.

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 35.
- To turn on or off the extended bass, see page 33.

To store a sound mode separately for each playback source (EQ Link)

Once you select a sound mode, it is stored in memory. It 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 (MW/LW), CD and external components.

- See also "Changing the general settings (PSM)" on page 36.

- 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 "EQ LINK" (Equalization Link).
- 3 Turn the control dial clockwise to select "ON."
- 4 Press SEL (select) to finish the setting.

To cancel EQ Link, repeat the same procedure and select "OFF" by turning the control dial counterclockwise in step 3.

- **When "EQ LINK" is set to "ON"**
The selected sound mode can be stored in memory for the current source. Each time you change to the same source, the same sound mode is also recalled, and shown on the display.
- **When "EQ LINK" is set to "OFF"**
The selected sound mode effect applies to all the sources selected.

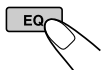


Storing your own sound adjustments

You can adjust the sound modes to your preference and store your own adjustments in memory (USER 1, USER 2 and USER 3).

- There is a time limit in doing the following procedure. If the setting is canceled before you finish, start from step 1 again.

1 Press EQ to activate the sound mode (EQ).



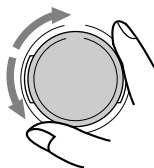
Each time you press the button, the sound mode (EQ) is activated or deactivated.

- When the sound mode (EQ) is activated, the last selected sound mode is recalled and applied to the current source.



Ex.: When you have selected "POP" previously.

2 Select the sound mode you want.

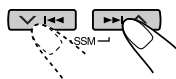


3 Press SEL (select) to enter adjustment mode.



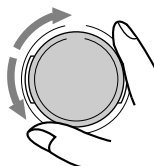
The last adjusted frequency and its level appear on the display.

4 Select the frequency.



- You can select 70 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, and 12.5 kHz.

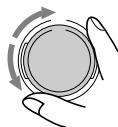
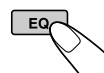
5 Adjust the level of the selected frequency in the step above.



- You can adjust the level within the range of "-05" (minimum) to "+05" (maximum) for each frequency.

6 Repeat steps 4 and 5 to adjust the other frequency levels.

7 Select one of the user sound modes (USER 1, USER 2, USER 3).



8 Press SEL (select) to store the adjustments.



Note:

If you want to make temporary adjustments and not store in memory, skip steps 7 and 8. Your temporary adjustments will remain effective until you select another sound mode.

Changing the general settings (PSM)

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

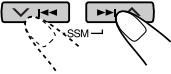
Basic Procedure

- 1** Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (See page 37.)



Ex.: When you have selected "CLOCK H" previously.

- 2** Select a PSM item you want to adjust. (See page 37.)



Ex.: When you select "EQ LINK".

- 3** Adjust the PSM item selected.



Ex.: When you adjust "EQ LINK" to "ON".

- 4** Repeat steps 2 and 3 to adjust the other PSM items if necessary.

- 5** Finish the setting.



Preferred Setting Mode (PSM) items

1 Hold.		2 Select.		3 Set. Counter-clockwise Clockwise		Factory-preset settings	See page
CLOCK H	Hour adjustment	Back	Advance	0:00	9		
CLOCK M	Minute adjustment	Back	Advance				
EQ LINK	Sound control memory linkage	OFF	ON	OFF	34		
24H/12H	24/12-hour time display	12HOUR	24HOUR	24HOUR	9		
AUTO ADJ	Automatic clock setting	OFF	ON	ON	19		
CLOCK	Clock display	OFF	ON	ON	38		
AF-REG	Alternative frequency/ Regionalization reception	AF ↕	↔ AF REG OFF* ↕	AF	14		
PTY STBY	PTY standby	OFF ↔ ²⁹ programme types (see page 20) ↕		OFF	16		
TA VOLUME	Traffic announcement volume	00 — 50		20	19		
P-SEARCH	Programme search	OFF	ON	OFF	19		
DAB AF**	Alternative frequency search	OFF	ON	ON	52		
LEVEL/EQ	Level indicator/Equalizer	↔ EQ ↔ LEVEL 1 ↔ ↕ LEVEL 3 ↔ LEVEL 2 ↕		EQ	38		
DIMMER	Dimmer mode	AUTO ↕	↔ OFF ON ↕	AUTO	38		
TELEPHONE	Telephone muting	MUTING OFF ↔ MUTING 1 ↕ MUTING 2 ↕		MUTING OFF	38		
BEEP SW	Key-touch tone	OFF	ON	ON	38		
P.AMP SW	Power amplifier switch	OFF	ON	ON	38		
CONTRAST	Display contrast	01 — 10		05	39		
SCROLL	Scroll mode	ONCE ↕	↔ AUTO OFF ↕	ONCE	39		
CUT OFF F	Subwoofer cutoff Frequency	MID(80Hz) ↔ HIGH(115Hz) ↕ LOW(50Hz) ↕		MID(80Hz)	39		
LINE IN	Line input switch	OFF	ON	ON	39		
AUX IN	Auxiliary input switch	OFF	ON	ON	39		
KEY SEL	External key-operation mode selection	DVD ↕	↔ VCR OFF ↕	DVD	40		
IF FILTER	Intermediate frequency filter	WIDE	AUTO	AUTO	40		
TAG DISP***	Tag display	OFF	ON	ON	40		

- Press SEL (select) to finish the setting.
- * Not selectable when the DAB tuner is connected.
- ** Only when the DAB tuner is connected.
- *** Only for KD-SH909R.

To set the clock display – CLOCK

You can set the clock to be shown on the display when the unit is turned on.

When shipped from the factory, the clock is set to be shown on the display.

- ON: Clock display is turned on.
- OFF: Clock display is turned off.

To select the level meter – LEVEL/EQ

You can select the level display according to your preference.

When shipped from the factory, this mode is set to “EQ.”

- EQ: Equalizer pattern is displayed.
- LEVEL 1: Audio level meter appears.
- LEVEL 2: Peak level meter appears.
- LEVEL 3: Display illumination starts.

To select the dimmer mode – DIMMER

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

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

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

Note:

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

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

To 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 the key-touch tone on or off – BEEP SW

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.

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

To turn the power amplifier switch on or off – P.AMP SW

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.

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

You can select the scroll mode for the disc information (when the entire text cannot be shown all at once).

When shipped from the factory, Auto Scroll mode is set to "ONCE."

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

Note:

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

To select the subwoofer cutoff frequency – CUT OFF F

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(80Hz)."

- LOW(50Hz): Frequencies higher than 50 Hz are cut off to the subwoofer.
- MID(80Hz): Frequencies higher than 80 Hz are cut off to the subwoofer.
- HIGH(115Hz): Frequencies higher than 115 Hz are cut off to the subwoofer.

To turn the line input switch on or off – LINE IN

You can switch the line input off when no external component is connected to the LINE IN plugs. When shipped from the factory, the line input switch is set to "ON."

- ON: You can select "LINE INPUT (LINE)" as the playback source.
- OFF: You cannot select "LINE INPUT (LINE)" as the playback source.

To turn the auxiliary input switch on or off – AUX IN

You can switch the auxiliary input off when no external component is connected to the auxiliary input jack.

When shipped from the factory, the auxiliary input switch is set to "ON."

- ON: You can select "AUX INPUT (AUX)" as the playback source.
- OFF: You cannot select "AUX INPUT(AUX)" as the playback source.

To select the target component to operate through this receiver – KEY SEL

You can operate either JVC's DVD player or VCR through this receiver, by using the number buttons on the control panel.

When shipped from the factory, these number buttons are set to be used for the DVD operations.

- DVD: To operate a JVC DVD player.
- VCR: To operate a JVC VCR.
- OFF: Not to use the number buttons for operating other components.

To use these number buttons on the control panel for DVD or VCR operations, see pages 44 and 45.

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.

To turn the tag display on or off – TAG DISP (only for KD-SH909R)

An MP3 file can contain file information called "ID3 Tag" where its album name, performer, track title, etc. are recorded.

There are two versions—ID3v1 (ID3 Tag version 1) and ID3v2 (ID3 Tag version 2). This unit is compatible only with ID3v1.

When shipped from the factory, "ON" is selected.

- ON: Turns on the ID3 tag display while playing MP3 files.
 - If an MP3 file does not have ID3 tags, directory name and file name appear.

Note:

If you change the setting from "OFF" to "ON" while playing an MP3 file, the tag display will be activated when the next file starts playing.

- OFF: Turns off the ID3 tag display while playing MP3 files. (Only the directory name and file name can be shown.)

Assigning names to the sources

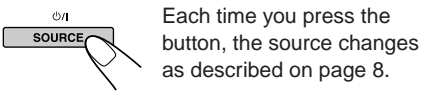
You can assign names to CDs and the external components.

After assigning a name, it will appear on the display when you select the source.

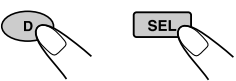
Sources	Maximum number of characters
CDs*	up to 32 characters (up to 40 discs)
External components	up to 11 characters

* You cannot assign a name to a CD Text or an MP3 disc.

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

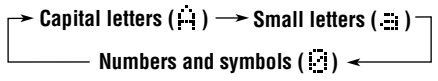
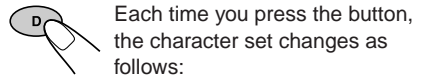


2 Press and hold SEL (select) for more than 2 seconds while pressing D (display).

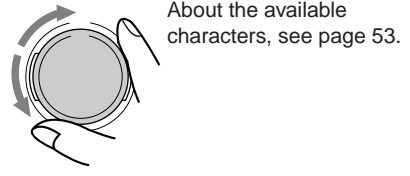


When you select "CD" as the source

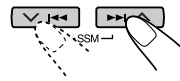
3 Select the character set you want while "■" is flashing.



4 Select a character.

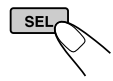


5 Move the cursor to the next (or previous) character position.



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

7 Finish the procedure while the last selected character is flashing.



To erase the input characters

Insert spaces using the same procedure described above.

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 discs in the CD changer. These names can also be shown on the display if you insert the discs in this unit.

Changing the control panel angle

You can change the angle of the control panel to four positions.

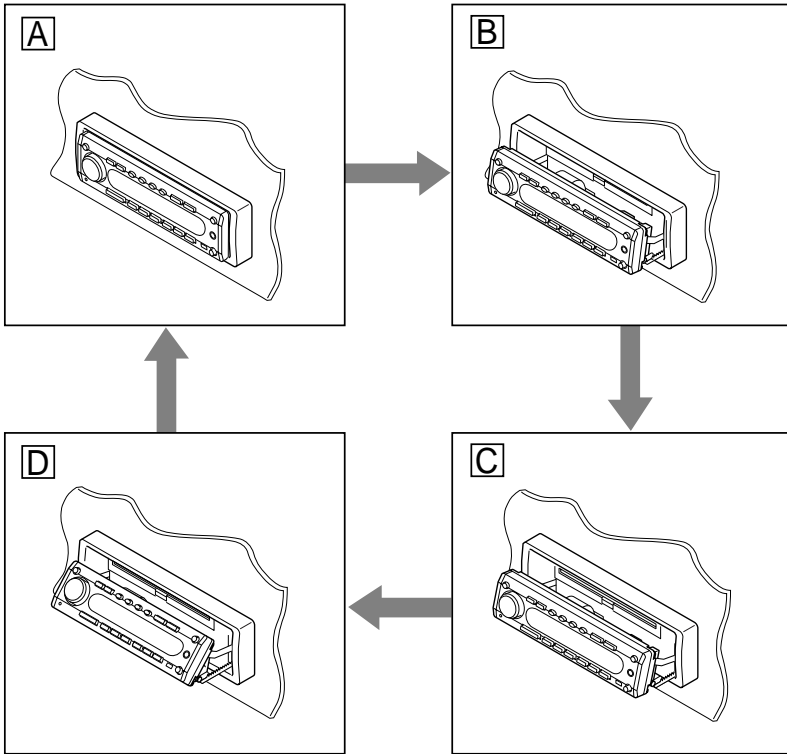
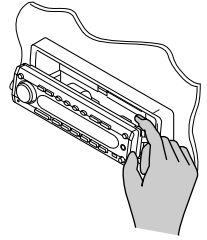
Adjust the angle to the position you want.



Each time you press the button, the panel angle changes as follows:

CAUTION:

NEVER insert your finger in between the control panel and the unit, as it may get caught or hurt.



When using the remote controller

Press ANGLE ▼ repeatedly. Each time you press the button, the control panel changes its angle — **A**, **B**, **C**, then **D** positions in sequence.

To restore the control panel to its original position,

Press ANGLE ▲ repeatedly. Each time you press the button, the control panel changes its angle in reverse — **D**, **C**, **B**, then **A** positions in sequence.

Detaching the control panel

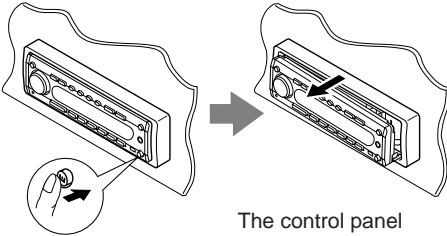
You can detach the control panel when leaving the car.
When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

Detaching the control panel

Before detaching the control panel:

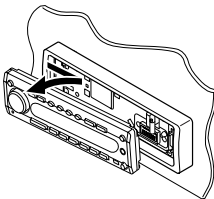
- Be sure to turn off the power
- Be sure to return the control panel to its original position

1 Unlock the control panel.

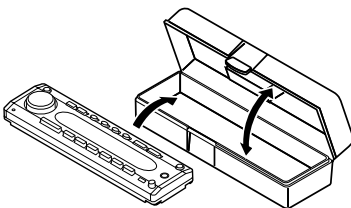


The control panel comes out toward you.

2 Move the control panel to the right, then pull it out of the unit.

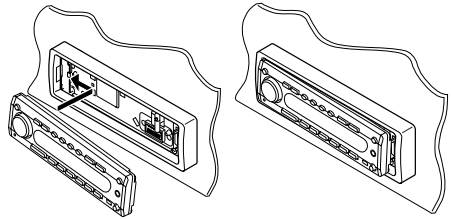


3 Put the detached control panel into the provided case.

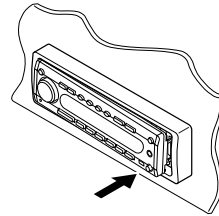


Attaching the control panel

1 Insert the left side of the control panel into the groove on the panel holder.



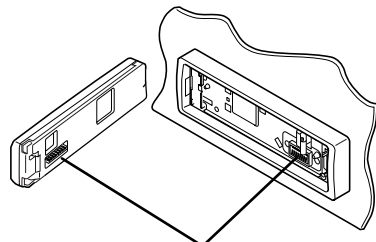
2 Press the right side of the control panel to fix it to the panel holder.



Note on cleaning the connectors:

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

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

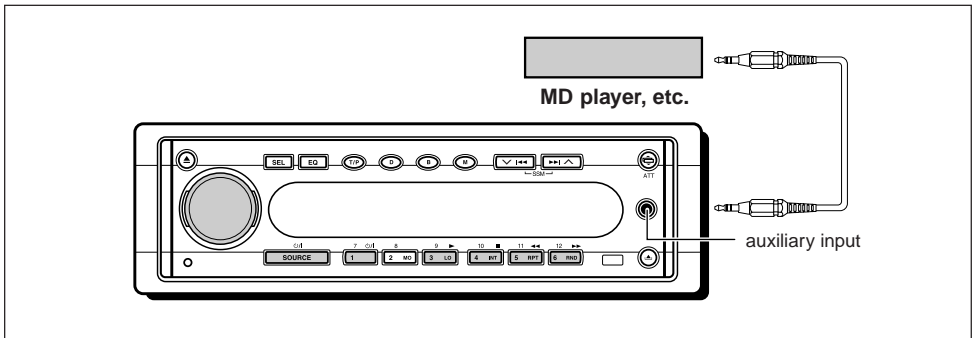


Connectors



EXTERNAL COMPONENT OPERATIONS

ENGLISH



Playing external components

You can connect two external components to this unit.

Connect one to the LINE IN plugs on the rear, and the other to the auxiliary input jack on the control panel.

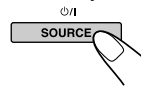
- To use the external component connected to LINE IN plugs on the rear, set "LINE IN" to "ON" (see page 39).
- To use the external component connected to the auxiliary input jack on the control panel, set "AUX IN" to "ON" (see page 39).

You can connect a JVC DVD player or VCR to the LINE IN plugs.

You can operate a JVC DVD player or VCR through this receiver using the number buttons on the control panel.

When you operate the VCR, you have to change the operation mode of the number buttons from the DVD operation mode to the VCR operation mode. (See "To select the target component to operate through this receiver – KEY SEL" on page 40.)

1 Select the external component—LINE INPUT (LINE) or AUX INPUT (AUX).



When you select a source, the power automatically comes on.

Each time you press the button, the source changes as follows:

AM TUNER (AM)	→	FM TUNER (FM)	→
DAB TUNER (DAB)*	→	CD**	→
CD CHANGER (CDCH)*	→		
LINE INPUT (LINE)***	→		
AUX INPUT (AUX)***	→	Back to the beginning	

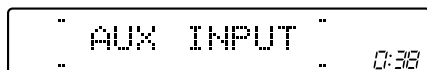
* Without connecting the DAB tuner or CD changer, you cannot select it as the source to play.

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

*** When "LINE IN" or "AUX IN" is set to "OFF," you cannot select it as the source to play. (See page 39).



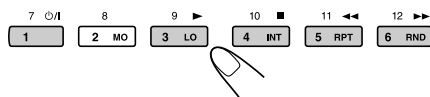
LINE INPUT (LINE): To select the component connected to the LINE IN plugs on the rear.



AUX INPUT (AUX): To select the component connected to the auxiliary input jack on the control panel.

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

- If connecting a JVC DVD player or VCR, you can perform the following operations:



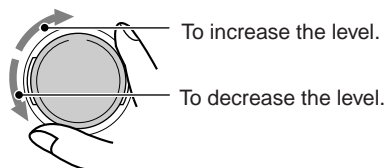
When connecting a VCR:

- ⏻/⏪ : Turns on and off the power.
- ▶ : Starts playback.
- ▶▶ : Fast-winds a tape when pressed.
- ◀◀ : Rewinds a tape when pressed.
- : Stops playback.

Note:

When you press the above buttons, the display shows "VCR" and its operation mode (such as ▶, ■).

3 Adjust the volume.



4 Adjust the sound you want. (See pages 33 – 35.)

When connecting a DVD player:

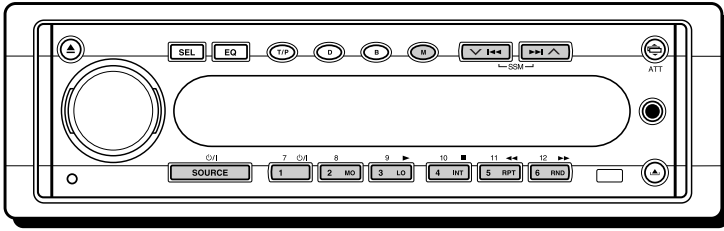
- ⏻/⏪ : Turns on and off the power.
- ▶ : Starts playback.
- ▶▶ :
 - Fast-forwards the chapter when pressed and held.
 - Skips to the beginning of the next chapters when pressed briefly.
- ◀◀ :
 - Reverses the chapter when pressed and held.
 - Goes back to the beginning of the current chapter when pressed briefly.
 - Goes back to the beginning of the previous chapters when pressed consecutively.
- : Stops playback.

Note:

When you press the above buttons, the display shows "DVD" and its operation mode (such as ▶, ■).



CD CHANGER OPERATIONS



We recommend that you use one of the CH-X series with your unit.

If you have another CD automatic changer, consult your JVC IN-CAR ENTERTAINMENT dealer for connections.

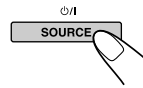
- For example, if your CD automatic changer is one of the KD-MK series, you need a cord (KS-U15K) for connecting it to this unit.

Before operating your CD automatic changer:

- Refer also to the Instructions supplied with your CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "NO DISC" will appear on the display. If this happens, remove the magazine and set the discs correctly.
- If "RESET 1" – "RESET 8" appears on the display, something is wrong with the connection between this unit and the CD changer. If this happens, check the connection and make sure the cords are connected firmly. Then, press the reset button of the CD changer.

Playing CDs

Select the CD automatic changer (CD CHANGER).



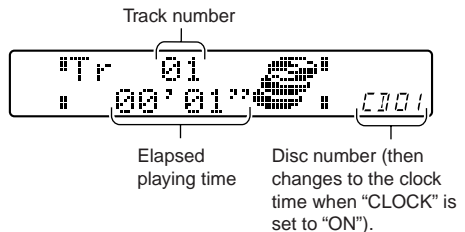
When you select a source, the power automatically comes on. Each time you press the button, the source changes as follows:

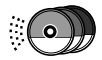
- AM TUNER (AM) → FM TUNER (FM) →
 DAB TUNER (DAB)* → CD** →
 CD CHANGER (CDCH)* →
 LINE INPUT (LINE)*** →
 AUX INPUT (AUX)*** → Back to the beginning

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

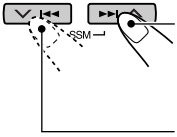
** If a disc is not in the loading slot, you cannot select CD as the source to play.

*** When "LINE IN" or "AUX IN" is set to "OFF," you cannot select it as the source to play. (See page 39).





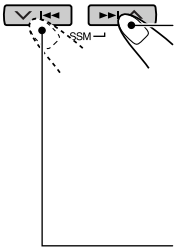
To fast-forward or reverse the track



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

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

To go to the next tracks or the previous tracks



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

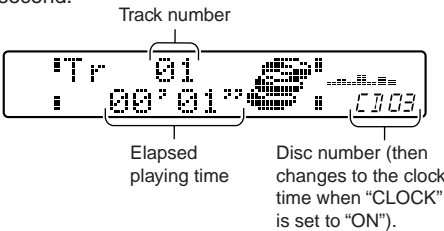
Press **▼ ◀◀◀** briefly, while playing a disc, to go back to the beginning of the current track. Each time you press the button consecutively, the beginning of the previous tracks is located and played back.

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 CD Text information

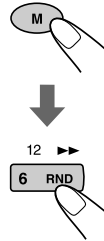
This is possible only when connecting a JVC CD automatic changer equipped with CD Text reading capability.

See "Playing a CD Text" on page 23.

Selecting CD playback modes

To play back tracks at random (Random Play)

You can play back all tracks of the current disc or of all discs in the CD changer.



- 1 Press M (mode) while playing a disc. This unit enters the functions mode.
- 2 Press RND (random) while still in the functions mode, so that "RANDOM1" or "RANDOM2" flashes on the display. Then, each time you press RND, the random play mode changes as follows:



RND indicator lights up.



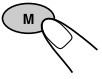
Ex.: When "RANDOM1" is selected.

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.

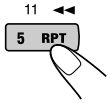


To play back tracks repeatedly (Repeat Play)

You can play back the current track or all tracks on the current disc or specified disc in the CD changer.



1 Press M (mode) while playing a disc. This unit enters the functions mode.



2 Press RPT (repeat) while still in the functions mode, so that "REPEAT1" or "REPEAT2" flashes on the display.

Then, each time you press RPT, the repeat play mode changes as follows:



RPT indicator lights up.

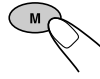


Ex.: When "REPEAT1" is selected.

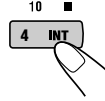
Mode	RPT Indicator	Plays repeatedly
REPEAT1	Lights	The current track (or specified track).
REPEAT2	Flashes	All tracks of the current disc (or specified disc).

To play back only intros (Intro scan)

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



1 Press M (mode) while playing a disc. This unit enters the functions mode.



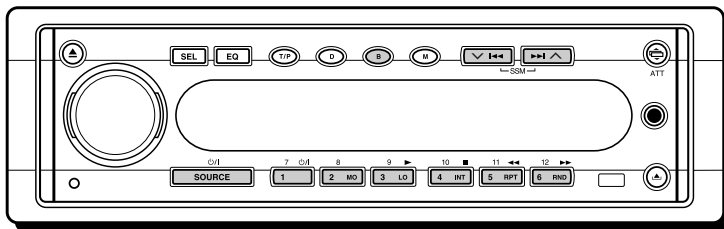
2 Press INT (intro scan) while still in the functions mode, so that "INTRO1" or "INTRO2" flashes on the display.

Then, each time you press INT, the intro scan mode changes as follows:



Ex.: When "INTRO1" is selected.

Mode	Indicator	Plays the beginnings (15 seconds)
INTRO1	Track number flashes	Of all tracks on all inserted discs.
INTRO2	Disc number flashes	Of the first track on each inserted disc.



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.

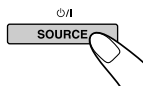
In contrast to FM broadcast, where each programme is transmitted on its own frequency, DAB combines several programmes (called “services”) to form one “ensemble.”

With the DAB tuner connected with this unit, you can enjoy these DAB services.

Tuning in to 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.



When you select a source, the power automatically comes on. Each time you press the button, the source changes as follows:

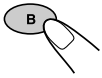
AM TUNER (AM)	→	FM TUNER (FM)	→
DAB TUNER (DAB)*	→	CD**	→
CD CHANGER (CDCH)*	→		
LINE INPUT (LINE)***	→		
AUX INPUT (AUX)***	→	Back to the beginning	

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

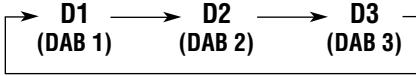
** If a disc is not in the loading slot, you cannot select CD as the source to play.

*** When “LINE IN” or “AUX IN” is set to “OFF,” you cannot select it as the source to play. (See page 39).

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



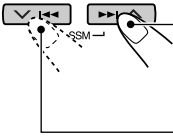
Each time you press the button, the DAB band changes as follows:



Note:

This receiver has three DAB bands (DAB 1, DAB 2, DAB 3). You can use any of them to tune in to an ensemble.

3 Start searching an ensemble.



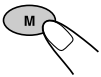
Press ►►| ^ to search ensembles of higher frequencies.

Press ▼|◄◄ to search ensembles of lower frequencies.

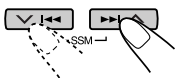
When an ensemble is received, searching stops.

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

4 Select a service you want to listen to.



1 Press M (mode).

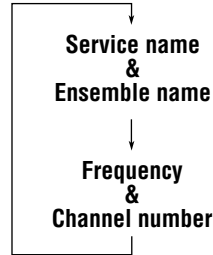


2 Press ►►| ^ or ▼|◄◄ to select a service you want.

To change the display information while tuning in to an ensemble

Normally service name is shown on the display. If you want to change the display information, press D (display).

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



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

To tune in to a particular ensemble without searching

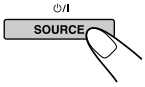
- 1 Press SOURCE $\phi/1$ to select DAB tuner as the source.
- 2 Press B (band) repeatedly to select the DAB band (DAB 1, DAB 2 or DAB 3).
- 3 Press and hold ►►| ^ or ▼|◄◄ for more than 1 second. "MANU" or "MANUAL*" flashes on the display.
- 4 Press ►►| ^ or ▼|◄◄ repeatedly until the ensemble you want is reached.
 - If you hold down the button, the ensembles keep changing until you release the button.

* When the source symbol animation display is not selected.

Storing DAB services in memory

You can preset up to 6 DAB services in each DAB band (DAB 1, DAB 2 and DAB 3) manually.

1 Select the DAB tuner.



When you select a source, the power automatically comes on. Each time you press the button, the source changes as follows:

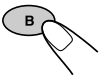
AM TUNER (AM)	→	FM TUNER (FM)	→
DAB TUNER (DAB)*	→	CD**	→
CD CHANGER (CDCH)*	→		
LINE INPUT (LINE)***	→		
AUX INPUT (AUX)***	→	Back to the beginning	

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

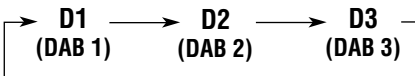
** If a disc is not in the loading slot, you cannot select CD as the source to play.

*** When "LINE IN" or "AUX IN" is set to "OFF," you cannot select it as the source to play. (See page 39).

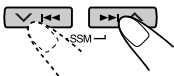
2 Select the DAB band (DAB 1, DAB 2 or DAB 3) you want.



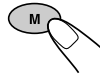
Each time you press the button, the DAB band changes as follows:



3 Tune in to an ensemble you want.



4 Select a service of the ensemble you want.

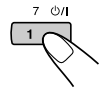


1 Press M (mode).



2 Press and hold or to select a service you want.

5 Press and hold the number button (in this example, 1) you want to store the selected service into for more than 2 seconds.



"1" lights up for a while.

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

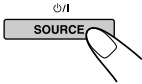
Notes:

- 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.

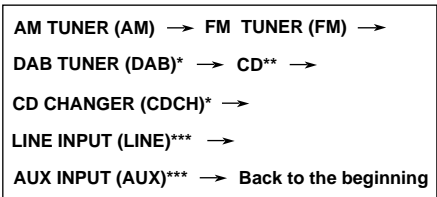
Tuning in to a preset DAB service

You can easily tune in to a preset DAB service. Remember that you must store services first. If you have not stored them yet, see page 51.

1 Select the DAB tuner.

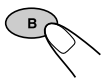


When you select a source, the power automatically comes on. Each time you press the button, the source changes as follows:

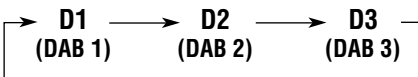


- * Without connecting the DAB tuner or CD changer, you cannot select it as the source to play.
- ** If a disc is not in the loading slot, you cannot select CD as the source to play.
- *** When "LINE IN" or "AUX IN" is set to "OFF," you cannot select it as the source to play. (See page 39).

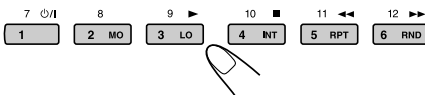
2 Select the DAB band (DAB 1, DAB 2 or DAB 3) you want.



Each time you press 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 to 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 in to 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.

- See also "Changing the general settings (PSM)" on page 36.

- 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" (alternative frequency).
- 3 Turn the control dial to select the desired mode.
 - ON: Traces the program among DAB services and FM RDS stations — Alternative Reception. The AF indicator lights up on the display (see page 14).
 - OFF: Deactivates Alternative Reception.

Note:

When Alternative Reception (for DAB services) is activated, Network-Tracking Reception (for RDS stations: see page 14) is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception.

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



Sound modes (preset frequency level settings)

The list below shows the preset frequency level settings for each sound mode.

- You can adjust the preset sound modes (except USER 1/2/3) temporarily. However, your temporary adjustments will be reset when you select another sound mode.

Sound Mode	Preset equalizing values						
	70 Hz	150 Hz	400 Hz	1 kHz	2.4 kHz	6 kHz	12.5 kHz
FLAT	00	00	00	00	00	00	00
Hard Rock	+03	+03	+01	00	00	+02	+01
R & B	+03	+02	+02	00	+01	+01	+03
POP	00	+02	00	00	+01	+01	+02
JAZZ	+03	+02	+01	+01	+01	+03	+02
Dance Music	+04	+02	00	-02	-01	+01	+01
Country	+02	+01	00	00	00	+01	+02
Reggae	+03	00	00	+01	+02	+02	+03
Classic	+02	+03	+01	00	00	+02	00
USER 1	00	00	00	00	00	00	00
USER 2	00	00	00	00	00	00	00
USER 3	00	00	00	00	00	00	00

Available characters

- You can use the following characters to assign names to CDs and external components. (See page 41.)

- Only for KD-SH909R:

You can display ID3v1 tags using the following letters and symbols (album title, performer name, song title, etc.) when you play back an MP3 file with this unit. (See page 25.)

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



TROUBLESHOOTING

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

ENGLISH

	Symptoms	Causes	Remedies
General Playback	<ul style="list-style-type: none"> • Sound is sometimes interrupted. 	Contents on the disc are not compatible with the unit.	Change the disc.
		You are driving on rough roads.	Stop playback while driving on rough roads.
		Disc is scratched.	Change the disc.
	<ul style="list-style-type: none"> • Sound cannot be heard from the speakers. 	Connections are incorrect.	Check the cords and connections.
		The volume level is set to the minimum level.	Adjust it to the optimum level.
		The "PAMP SW" setting is set to "OFF."	Set it to "ON." (See page 38.)
	<ul style="list-style-type: none"> • CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped. 	CD-R/CD-RW is not finalized.	Insert a finalized CD-R/CD-RW or finalize the CD-R/CD-RW with the component used for recording.
<ul style="list-style-type: none"> • "NO DISC" or "EJECT ERR" appears on the display and disc cannot be ejected. • No message appears on the display but disc cannot be ejected. 	The unit may function incorrectly.	While pressing  , press and hold  for more than 2 seconds. (Be careful not to drop the disc when ejecting.)	
<ul style="list-style-type: none"> • When "ERR 00" to "ERR 44" appears on the display. 	Something is blocking the control panel movement.	Press the reset button on the front panel. (See page 2.) If the reset button does not work, check the Installation/Connection Manual (separate volume). (Ex.: You have used screws which are longer than specified.)	
<ul style="list-style-type: none"> • This unit or CD changer does not work at all. 	The built-in microcomputer may function incorrectly due to noise, etc.	Press the reset button on the control panel. (See page 2.)	
FM/AM	<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.



Symptoms	Causes	Remedies
<ul style="list-style-type: none"> • “NO DISC” appears on the display. 	No disc is in the magazine.	Insert a disc.
<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"> • Disc cannot be played back. 	MP3 files do not have the extension code—mp3 in their file names.	Add the extension code—mp3 to their file names.
	MP3 files are not recorded in the format compliant with ISO 9660 Level 1, 2 or Joliet.	Change the disc. (Record MP3 files using a compliant application.)
<ul style="list-style-type: none"> • Files skip, or 00'00” appears and playback stops. 	Files are encoded in Layer 1 or Layer 2 format.	Insert a disc that contains files encoded in Layer 3 format.
<ul style="list-style-type: none"> • Noise is generated. 	The file played back is not an MP3 file (although it has the extension code—mp3).	Skip to another file or change the disc. (Do not add the extension code—mp3 to non-MP3 files.)
<ul style="list-style-type: none"> • A longer readout time is required (“FILE CHECK” keeps flashing on the display). 	Readout time varies due to the complexity of the directory/file configuration.	Do not use too many hierarchies and directories. Also, do not record any other types of audio tracks together with MP3 files.
<ul style="list-style-type: none"> • Files cannot be played back as you have intended them to play. 	Playback order is determined when the files are recorded.	_____
<ul style="list-style-type: none"> • Elapsed playing time is not correct. 	This sometimes occurs during play. This is caused by how the files are recorded on the disc.	_____
<ul style="list-style-type: none"> • “MP3” flashes on the display. 	There are no MP3 files in the current directory.	Select another directory.
<ul style="list-style-type: none"> • “NO FILES” appears on the display for a while, then the disc ejects automatically. 	There are no MP3 files in this disc.	Insert a disc that contains MP3 files.
<ul style="list-style-type: none"> • Correct characters are not displayed. (Tag Display, e.g. album name) 	This unit can display alphabets (capital: A–Z, small: a–z), numbers and symbols. (See page 53.)	_____

CD Changer**MP3 Playback (only for KD-SH909R)**



MAINTENANCE

Handling discs

This unit has been designed to reproduce the discs bearing the following marks.

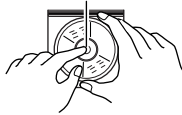


You can also play back your original CD-Rs (Recordable) and CD-RWs (Rewritable) either in audio CD format (or in MP3 format only for KD-SH909R).

How to handle discs

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

Center holder



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

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

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

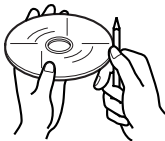
To keep discs clean

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



To play new discs

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



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

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
 - If it becomes very humid inside the car.
- Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

CAUTIONS:

- Do not insert 8 cm discs (single CDs) into the loading slot. (Such discs cannot be ejected.)
- Do not insert any disc of unusual shape — like a heart or flower; otherwise, it will cause a malfunction.
- Do not expose discs 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 discs.

When playing a CD-R or CD-RW

You can play back your original CD-Rs or CD-RWs recorded in audio CD format (or in MP3 format only for KD-SH909R).

(However, they may not be played back depending on their characteristics or recording conditions.)

- User-edited CD-Rs (Recordable) and CD-RWs (Rewritable), where audio CD tracks are recorded, can be played back only if they are already “finalized.”
- Before playing back CD-Rs or CD-RWs, read their instructions or cautions carefully.
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, damage or stain on them, or if the player’s lens is dirty.
- CD-Rs or CD-RWs are susceptible to high temperatures or high humidity; so do not leave them inside your car.
- CD-RWs may require a longer readout time. (This is caused by the fact that the reflectance of CD-RWs is lower than for regular CDs.)

About mistracking:

Mistracking may result from driving on extremely rough roads. This does not damage the unit and the disc, but will be annoying. We recommend that you stop disc playback while driving on such rough roads.

AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 50 W per channel

Rear: 50 W per channel

Continuous Power Output (RMS):

Front: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8 % total harmonic distortion.

Rear: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8 % total harmonic distortion.

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

Equalizer Control Range:

Frequencies: 70 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 12.5 kHz.

Level: ± 10 dB

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

Auxiliary Input jack: 3.5 mm dia. stereo mini jack (analog)

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: 98 dB

Signal-to-Noise Ratio: 102 dB

Wow and Flutter: Less than measurable limit

[For KD-SH909R]

MP3 decoding format: MPEG1/2 Audio Layer 3

Max. Bit Rate: 320 Kbps

GENERAL

Power Requirement:

Operating Voltage: DC 14.4 V

(11 V to 16 V allowance)

Grounding System: Negative ground

Allowable Operating Temperature: 0°C to +40°C

Dimensions (W x H x D):

Installation Size: 182 mm x 52 mm x 161 mm

Panel Size: 188 mm x 58 mm x 17 mm

Mass: 1.8 kg (excluding accessories)

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

VICTOR COMPANY OF JAPAN, LIMITED



EN, GE, FR, NL



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