

JVC



CD RECEIVER
CD-RECEIVER
RECEPTEUR CD
CD-RECEIVER

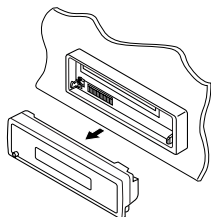
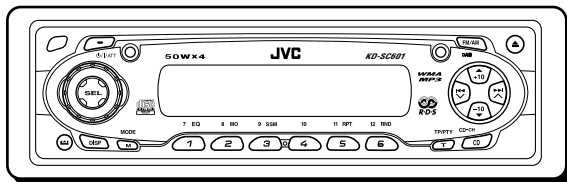
ENGLISH

DEUTSCH

FRANÇAIS

NEDERLANDS

KD-SC601



**WMA
MP3**



**COMPACT
disc
DIGITAL AUDIO
TEXT**

- This unit is equipped with the display demonstration. To cancel it, see page 8.
- Dieses Gerät ist mit einer Demonstrationsfunktion für das Display ausgestattet. Auf Seite 8 wird beschrieben, wie Sie diese Demonstrationsfunktion deaktivieren können.
- Cet appareil est équipé d'une fonction de démonstration des affichages. Pour l'annuler, référez-vous à la page 8.
- Dit toestel heeft een display-demonstratiefunctie. Zie bladzijde 8 voor het annuleren van deze functie.

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

GET0191-001A
[E/EX]

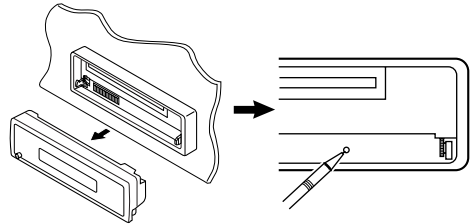
IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.	ADVARSEL : Synlig og usynlig laserstråling når maskinen er åpen eller interlocken fejler. Undgå direkte eksponering til stråling.	WARNING : Synlig och osynlig laserstråling när den öppnas och spårren är urkopplad. Betrakta strålen.	VARO : Avattaessa ja suoja- laitteiden tai virallisten olet- elmien tai valittujen olet- elmien näkövälille ja näkömittä- mälille lasersäteilyä. Vältä säte- en kohdistumista suoraan ihmise- si.
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How to reset your unit

After detaching the control panel, press the reset button on the panel holder using a ball-point pen or a similar tool. This will reset the built-in microcomputer.



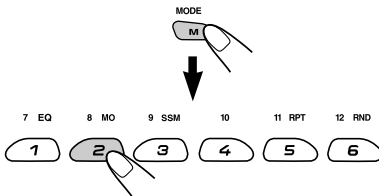
Note:

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

How to use the M MODE button

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

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



Time countdown indicator

To use these buttons for original functions 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.

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.

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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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....**

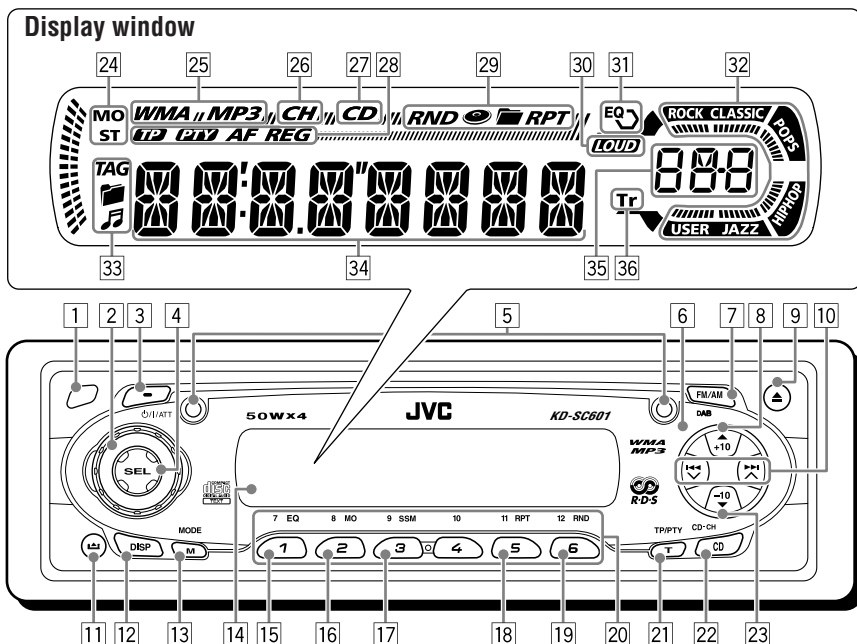
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.



LOCATION OF THE BUTTONS

Control panel

ENGLISH



- 1 Remote sensor
- 2 Control dial
- 3 Φ /I/ATT (standby/on/attenuator) button
- 4 SEL (select) button
- 5 Screws (M2 × 5 mm)
- 6 Plate cover and standard plate
- 7 FM/AM DAB button
- 8 \blacktriangle (up) button
+10 button
- 9 \blacktriangle (eject) button
- 10 \blacktriangleleft \blacktriangleright \blacktriangleright \blacktriangleleft buttons
- 11 \blacktriangle (control panel release) button
- 12 DISP (display) button
- 13 M MODE button
- 14 Display window
- 15 EQ (equalizer) button
- 16 MO (monaural) button
- 17 SSM (Strong-station Sequential Memory) button
- 18 RPT (repeat) button
- 19 RND (random) button
- 20 Number buttons
- 21 T TP/PTY (traffic programme/programme type) button
- 22 CD CD-CH (CD changer) button

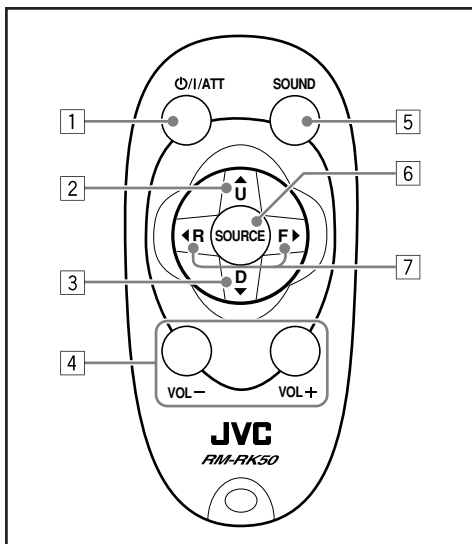
- 23 \blacktriangledown (down) button
-10 button

Display window

- 24 Tuner reception indicators—MO (monaural), ST (stereo)
- 25 Disc type indicators—WMA, MP3
- 26 CH (CD changer) indicator
- 27 CD indicator
- 28 RDS indicators—TP, PTY, AF, REG
- 29 Playback mode/item indicators—RND (random), disc (disc), folder (folder), RPT (repeat)
- 30 LOUD (loudness) indicator
- 31 EQ (equalizer) indicator
- 32 Sound mode (C-EQ: custom equalizer) indicators—ROCK, CLASSIC, POPS, HIP HOP, JAZZ, USER
 - meter also works as level meter during play if the level meter is activated (see page 33).
- 33 Disc information indicators—TAG (ID3 Tag), folder (folder), track/file (track/file)
- 34 Main display
- 35 Source display
Volume level indicator
- 36 Tr (track) 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 in a moment if pressed briefly.
 Press again to resume the volume.

- 2 • Selects the band while listening to the radio (or the DAB tuner).
 Each time you press the button, the band changes.
 • Skips to the first file of the next folder while listening to an MP3 or a WMA disc.
 Each time you press the button, you can move to the next folder and start playing the first file.
 • While playing an MP3 disc on an MP3-compatible CD changer;
 – Skips to the next disc if pressed briefly.
 – Skips to the next folder if pressed and held.

Note: While playing a CD on a CD changer, this always skips to the next disc.

- 3 • Selects the preset stations (or services) while listening to the radio (or the DAB tuner).
 Each time you press the button, the preset station (or service) number increases, and the selected station (or service) is tuned in.
 • Skips to the first file of the previous folder while listening to an MP3 or a WMA disc.
 Each time you press the button, you can move to the previous folder and start playing the first file.
 • While playing an MP3 disc on an MP3-compatible CD changer;
 – Skips to the previous disc if pressed briefly.
 – Skips to the previous folder if pressed and held.

Note: While playing a CD on a CD changer, this always skips to the previous disc.

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

Note: These buttons do not function for the preferred setting mode adjustment.

- 5 Selects the sound mode (C-EQ: custom equalizer).
 Each time you press the button, the sound mode (C-EQ) changes.

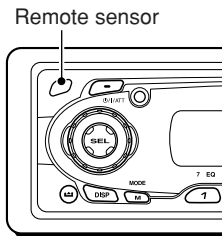
- 6 Selects the source.
 Each time you press the button, the source changes.

- 7 • Searches for stations while listening to the radio.
 • Selects services while listening to the DAB tuner if pressed briefly.
 • Searches for ensembles while listening to the DAB tuner if pressed for more than one second.
 • Fast-forwards or reverses the track/file if pressed and held while listening to a disc.
 • Skips to the beginning of the next track/file or goes back to the beginning of the current (or previous) tracks/files if pressed briefly while listening to a disc.

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.



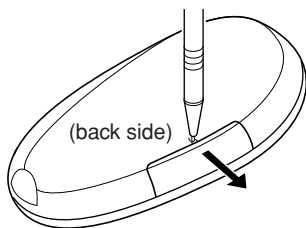
- Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).

Installing the battery

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

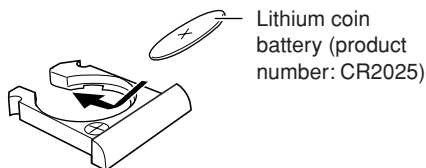
1. Remove the battery holder.

- 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.



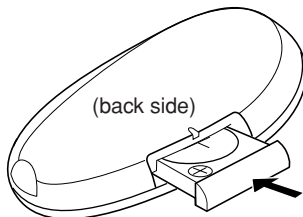
2. Place the battery.

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



3. Return the battery holder.

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



WARNING:

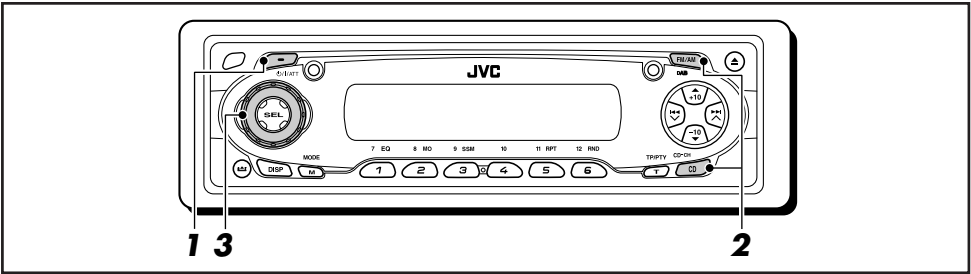
- Store the battery in a place where children cannot reach.
If a child accidentally swallows the battery, consult a doctor immediately.
- Do not recharge, short, disassemble, or heat the battery or dispose of it in a fire.
Doing any of these things may cause the battery to give off heat, crack, or start 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.

KD-SC601 is equipped with the steering wheel remote control function. If your car is equipped with the steering wheel remote controller, you can operate this unit using the controller.

- See the Installation/Connection Manual (separate volume) for connection to utilize this function.



Turning on the power

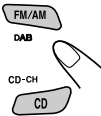
1 Turn on the power.



Note on One-Touch Operation:

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

2 Select the source.



To operate the tuner (FM or AM), see pages 10 – 19.

To play a CD, see pages 20 – 23.

To play an MP3/WMA disc, see pages 25 – 28.

To operate the CD changer, see pages 38 – 41.

To operate the external component (LINE IN), see page 42.

To operate the DAB tuner, see pages 43 – 46.

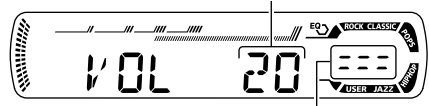
3 Adjust the volume.



To increase the volume

To decrease the volume

Volume level appears.



Volume level indicator

4 Adjust the sound as you want. (See pages 29 and 30.)

To drop the volume in a moment

Press \odot /I/ATT briefly while listening to any source. "ATT" starts flashing on the display, and the volume level will drop in a moment. To resume the previous volume level, press the button briefly again.

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

To turn off the power

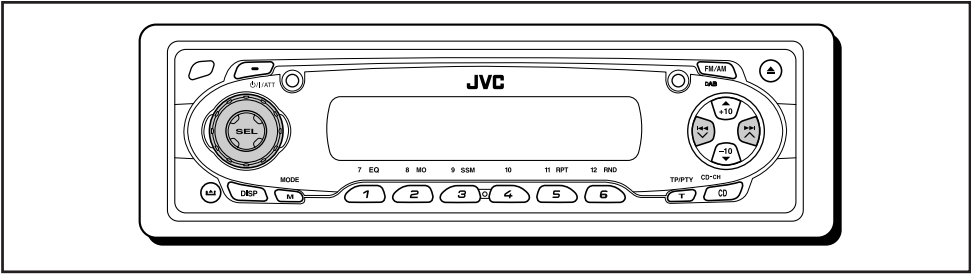
Press and hold \odot /I/ATT for more than one second.

"SEE YOU" appears, then the unit turns off.

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

CAUTION on Volume Setting:

Discs 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.



Canceling the display demonstration

When shipped from the factory, display demonstration has been activated, and starts automatically when no operations are done for about 20 seconds.

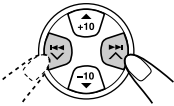
- It is recommended to cancel the display demonstration before you use the unit for the first time.

To cancel the display demonstration, follow the procedure below:

- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see pages 31 and 32.)**



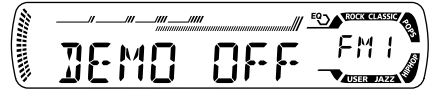
- 2 Select "DEMO" if not shown on the display.**



- 3 Select "DEMO OFF."**



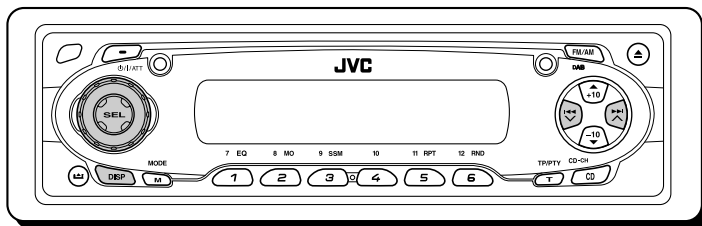
DEMO OFF ↔ DEMO ON



- 4 Finish the setting.**



To activate the display demonstration, repeat the same procedure and select "DEMO ON" in step 3.



Setting the clock

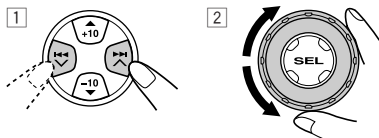
You can also set the clock system to either 24 hours or 12 hours.

- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see pages 31 and 32.)**



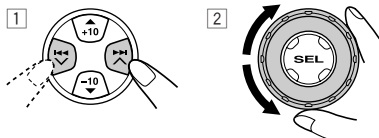
- 2 Set the hour.**

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



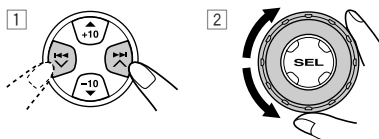
- 3 Set the minute.**

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



- 4 Set the clock system.**

- Select "24H/12H."
- Select "24H" or "12H."



- 5 Finish the setting.**



To check the current clock time or change the display mode

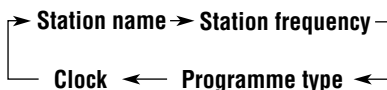


Press DISP (display) repeatedly. Each time you press the button, the display changes as follows:

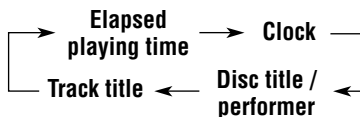
- During AM and FM non-RDS station operation:

Frequency ↔ Clock

- During FM RDS Station operation:



- During disc operation:



Notes:

- While playing a conventional CD, "NO NAME" appears for the disc title/performer and the track title.
- For indication change while playing a CD Text or an MP3/WMA disc, see also pages 23 and 26.

- During external component operation:

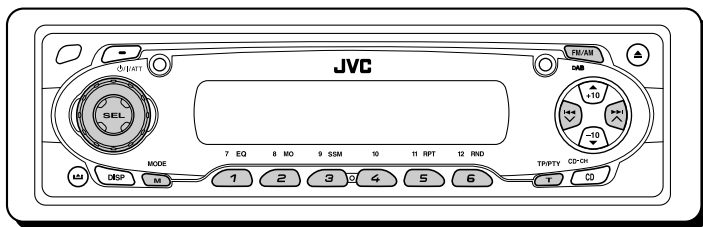
LINE IN ↔ Clock

- During power off:

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



RADIO OPERATIONS



Listening to the radio

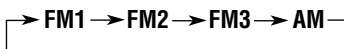
You can use either automatic searching or manual searching to tune in to a particular station.

Searching for a station automatically: Auto search

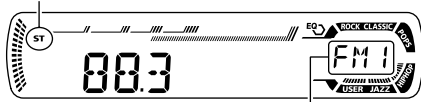
1 Select the band (FM1 – 3, AM).



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



Lights up when receiving an FM stereo broadcast with sufficient signal strength.

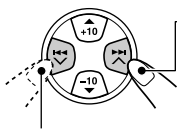


Selected band appears.

Note:

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

2 Start searching for a station.



To search for stations of higher frequencies

To search for stations of lower frequencies

When a station is received, searching stops.

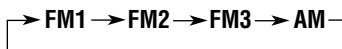
To stop searching before a station is received, press the same button you have pressed for searching.

Searching for a station manually: Manual search

1 Select the band (FM1 – 3, AM).



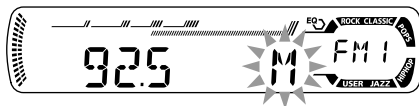
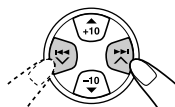
Each time you press the button, the band changes as follows:



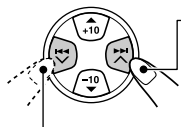
Note:

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” (manual) is still flashing.



To tune in to stations of higher frequencies

To tune in to stations of lower frequencies

- If you release your finger from the button, the manual mode will automatically turns off after 5 seconds.
- If you hold down the button, the frequency keeps changing (in 50 kHz intervals for FM and 9 kHz for AM—MW/LW) until you release the button.

When an FM stereo broadcast is hard to receive:

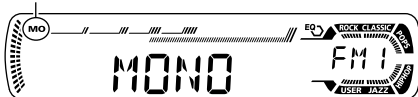


- 1 Press M MODE to enter the functions mode while listening to an FM stereo broadcast.



- 2 Press MO (monaural), while “MODE” is still flashing on the display, so that “MONO” appears on the display. Each time you press the button, monaural mode turns on and off alternately.

MO (monaural) indicator



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

Storing stations in memory

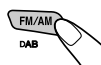
You can use one of the following two methods to store broadcasting stations in memory.

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

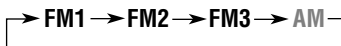
FM station automatic preset: SSM

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

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



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



2 Press M MODE to enter the functions mode.



3 Press and hold SSM for about 2 seconds.



“SSM” flashes, then disappears when automatic preset is over.

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

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



Manual preset

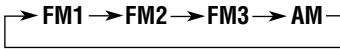
You can preset up to 6 stations in each band (FM1, FM2, FM3, and AM) manually.

Ex.: Storing FM station of 92.5 MHz into the preset number 1 of the FM1 band.

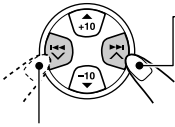
1 Select the band (FM1 – 3, AM) you want to store stations into (in this example, FM1).



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

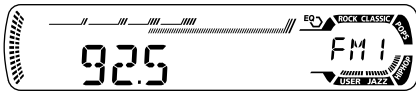


2 Tune in to a station (in this example, of 92.5 MHz).

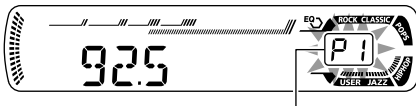


To tune in to stations of higher frequencies

To tune in to stations of lower frequencies



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



Preset number flashes for a while.

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

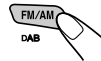
Notes:

- 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.

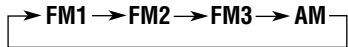
Tuning in to a preset station

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 pages 11 and 12.

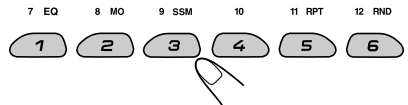
1 Select the band (FM1 – 3, AM).



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



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





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 favorite programme or traffic announcement while listening to another programme or to another source such as CD.

By receiving the RDS data, this unit can do the following:

- Tracing the same programme automatically (Network-Tracking Reception)
- Standby Reception of TA (Traffic Announcement) or your favorite programme
- PTY (Programme Type) search
- 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 page 19.)

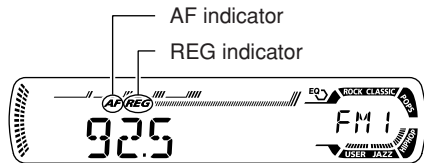
Two types of the RDS data are used to make Network-Tracking Reception work correctly —PI (Programme Identification) and AF (Alternative Frequency).

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 received 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 received 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:

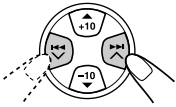
If a DAB tuner is connected and Alternative Reception (for DAB services) is activated, Network-Tracking Reception is also activated ("AF") automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception. (See page 46.)



- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see pages 31 and 32.)



- 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.



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 TP/PTY 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 18) 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 TP/PTY again. The TP indicator disappears.



Using PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite 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.*

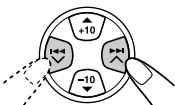
You can select your favorite programme type for PTY Standby Reception.

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 pages 31 and 32.)**



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



- 3 Select one of the twenty-nine PTY codes. (See page 19.)**



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

- 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 favorite programme

You can search any one of the PTY codes. In addition, you can store your 6 favorite 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 favorite programme types, see below.

To search your favorite programme type, see page 17.

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

To store your favorite programme types

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

TP/PTY



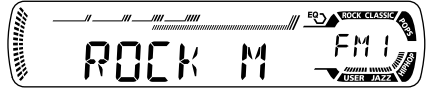
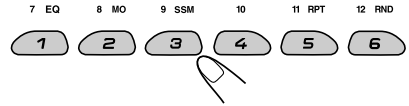
The last selected PTY code appears.

- 2 Select one of the twenty-nine PTY codes. (See page 19.)



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.



Selected PTY code and "MEMORY" appear alternately for a while.



- 4 Press and hold T TP/PTY for more than 2 seconds to exit from this mode.

TP/PTY

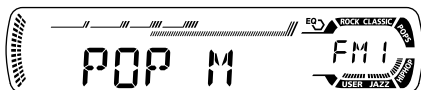




To search your favorite programme type

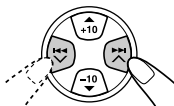
- 1 Press and hold T TP/PTY for more than 2 seconds while listening to an FM station.

TP/PTY



The last selected PTY code appears.

- 3 Press ►►| ^ or |◀◀ v to start PTY search for your favorite programme.

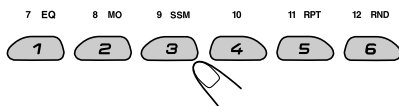


- If there is a station broadcasting a programme of the same PTY code as you selected, that station is tuned in.
- If there is no station broadcasting a programme of the same PTY code as you selected, the station will not change.

Note:

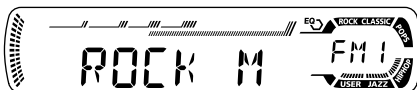
In some areas, the PTY search will not work correctly.

- 2 To select one of your favorite programme type



or

To select any one of the twenty-nine PTY codes.



Ex.: When "ROCK M" is selected



Other convenient RDS functions and adjustments

Automatic selection of the station when using the number buttons

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

However, when the preset station is an RDS station, something different will happen. If the signals from that preset station are not sufficient for good reception, this unit, using the AF data, tunes in 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 31.

- 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 31.

- 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 VOL” (volume).
- 3 Turn the control dial to set to the desired volume.
You can set it from “VOL 00” to “VOL 30” or “VOL 50” (depending on the amplifier gain control setting; see page 34).
- 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 31.

- 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.

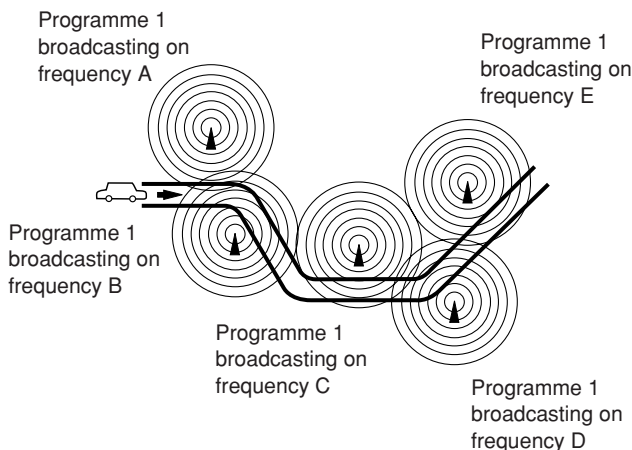
Note:

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

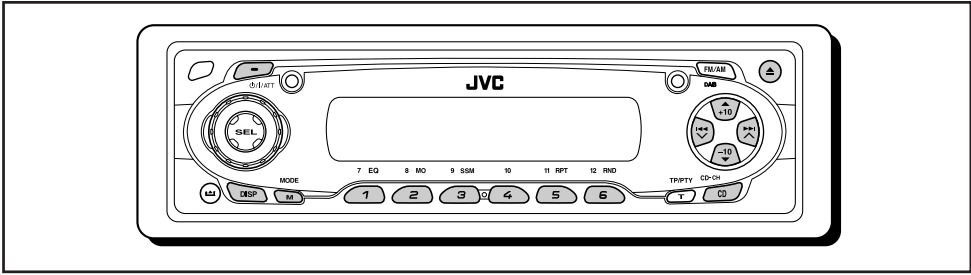
NEWS:	News	SOCIAL:	Programmes on social activities
AFFAIRS:	Topical programmes expanding on current news or affairs	RELIGION:	Programmes dealing with any aspect of belief or faith, or the nature of existence or ethics
INFO:	Programmes which impart advice on a wide variety of topics	PHONE IN:	Programmes 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		

The same programme can be received on different frequencies.





CD OPERATIONS

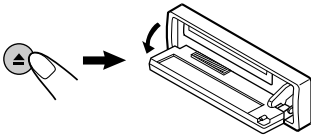


Refer "MP3/WMA OPERATIONS" on pages 25 to 28 for operating MP3/WMA discs.

The display changes to show the following:

Playing a CD

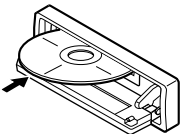
1 Open the control panel.



Note on One-Touch operation:

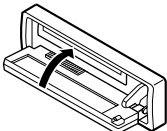
When a CD is already in the loading slot, pressing CD CD-CH turns on the unit and starts playback automatically.

2 Insert a CD into the loading slot.

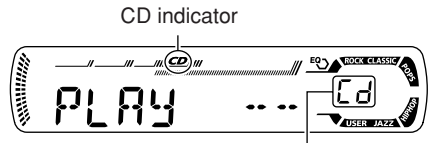


The unit turns on, draws the CD and starts playback automatically.

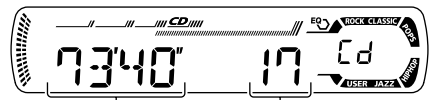
3 Close the control panel by hand.



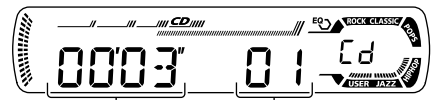
All tracks will be played repeatedly until you stop playback.



Current source indication



Total playing time of the inserted disc Total track number of the inserted disc



Elapsed playing time Current track number

Notes:

- When a CD is inserted upside down, the CD automatically ejects (if the control panel is open). If the control panel is closed, the source changes to the previously selected source, "PLEASE" and "EJECT" appear alternately on the display.
- If there is no CD in the loading slot, you cannot select CD as the source. "NO DISC" appears on the display.
- If the current disc is a CD Text, disc title/performer and then track title will automatically appear.



To stop play and eject the CD

Press ▲.

CD play stops and the control panel flips down. The CD automatically ejects from the loading slot. The source changes to the previously selected source.

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

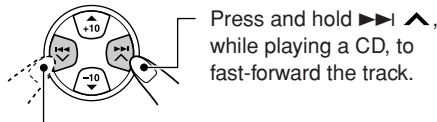
Next time you select "CD" as the source, CD play starts from where playback has been stopped previously.

Notes:

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

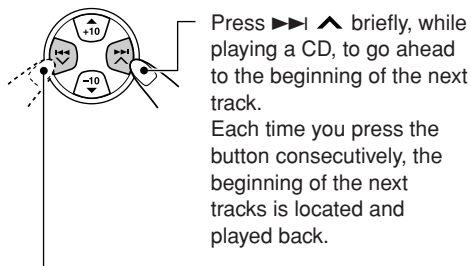
Locating a track or a particular portion on a CD

To fast-forward or reverse the track



Press and hold <<< ▼, while playing a CD, to reverse the track.

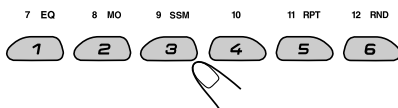
To go to the next or previous tracks



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

To go to a particular track directly

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



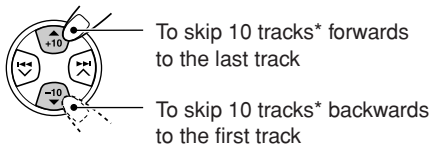
- To select a track number from 1 – 6: Press 1 (7) – 6 (12) briefly.
- To select a track number from 7 – 12: Press and hold 1 (7) – 6 (12) for more than one second.

To go to a track quickly (+10 and -10 buttons)

- 1 Press M MODE to enter the functions mode while playing a CD.



- 2 Press +10 or -10.



* First time you press +10 or -10 button, the track skips to the nearest higher or lower track with a track number of multiple ten (ex. 10th, 20th, 30th).

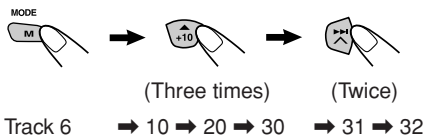
Then each time you press the button, you can skip 10 tracks (see "How to use the +10 and -10 buttons" on page 22).

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

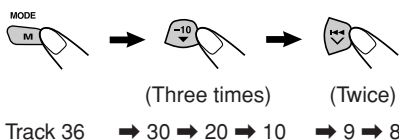


How to use the +10 and -10 buttons

- Ex. 1: To select track number 32 while playing track number 6



- Ex. 2: To select track number 8 while playing track number 36



Selecting CD playback modes

To play back tracks at random (Disc Random Play)

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

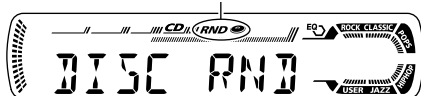


- 1 Press M MODE to enter the functions mode while playing a CD.



- 2 Press RND (random), while "MODE" is still flashing on the display, so that "DISC RND" appears on the display. Each time you press the button, disc random play mode turns on and off alternately.

RND and (disc) indicators



When disc random play is turned on, the RND and indicators light up on the display. A track randomly selected starts playing.

To play back tracks repeatedly (Track Repeat Play)

You can play back the current track repeatedly.

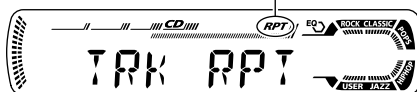


- 1 Press M MODE to enter the functions mode while playing a CD.



- 2 Press RPT (repeat), while "MODE" is still flashing on the display, so that "TRK RPT" appears on the display. Each time you press the button, track repeat play mode turns on and off alternately.

RPT indicator



When track repeat play is turned on, the RPT indicator lights up on the display. The current track starts playing repeatedly.



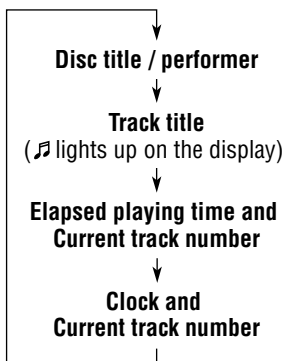
Playing a CD Text

In a CD Text, some information about the disc (its disc title, performer, and track title) is recorded. This CD Text information will be shown automatically when you play a CD Text.

To change the CD Text information manually, select text display mode while playing a CD Text.



Press DISP (display) repeatedly. Each time you press the button, the display changes as follows:



Notes:

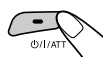
- The display shows up to 8 characters at one time and scrolls if there are more than 8 characters. See also "To select the scroll mode—SCROLL" on page 33. Some characters or symbols will not be shown (and be blanked) on the display.
(Ex. "ABC±d#" ⇔ "ABCA D ")
- When you press DISP (display) while playing a conventional CD, "NO NAME" appears for the disc title/performer and the track title.
- When track title is shown, the Tr indicator and current track number also appear on the right side of the display.

Prohibiting disc ejection

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

While pressing CD CD-CH, press and hold EJECT /ATT for more than 2 seconds.

CD-CH



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



To cancel the prohibition and unlock the disc

While pressing CD CD-CH, press and hold EJECT /ATT again for more than 2 seconds. "EJECT OK" flashes on the display for about 5 seconds, and the disc is unlocked.



What are MP3/WMA?

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*).

* *Bit rate is the average number of bits that one second of audio data will consume. The unit used is Kbps. To get a better audio quality, choose a higher bit rate. The most popular bit rate for encoding is 128 Kbps.*

WMA (Windows Media® Audio) is the digital audio compression format developed by Microsoft Corporation.

- For details information about the MP3/WMA discs, refer to “A Guide to MP3/WMA” (separate volume).

Compatible with ID3 Tag

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/WMA file.

This unit can show both ID3v1 (Version 1) and ID3v2 (Version 2) tags on the display. (See page 26.)

- Some characters cannot be shown correctly.
- If both ID3v1 and ID3v2 are recorded on a disc, ID3v2 information will be shown.

How are MP3/WMA files recorded and played back?

MP3/WMA “files (tracks)” can be recorded in “folders” —in PC terminology.

During recording, the files and folders can be arranged in a way similar to arranging files and folders of computer data.

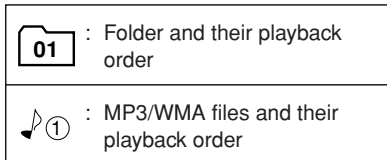
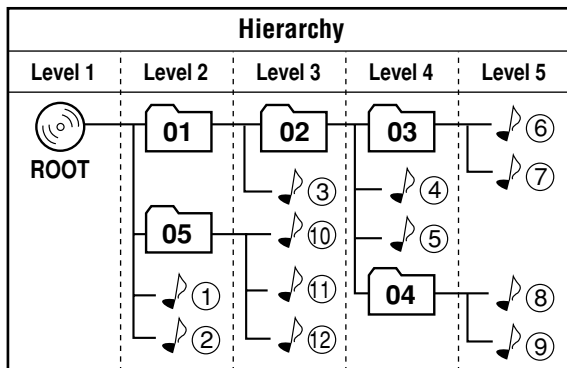
“Root” is similar to the root of a tree. Every file and folder can be linked to and be accessed from the root.

The illustration below shows an example of how MP3/WMA files are recorded on a CD-R or CD-RW, how they are played back, and how they are searched for on this unit.

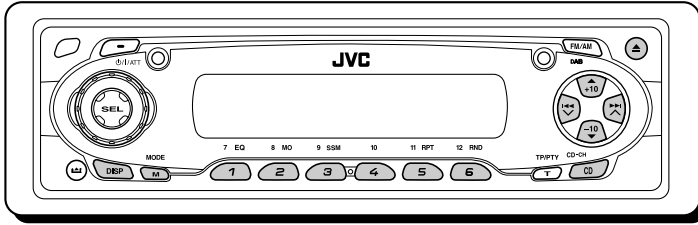
Notes:

- This unit cannot read or play an MP3 file without the extension code <.mp3> and a WMA track without the extension code <.wma>.
- This unit is not compatible with MP3 files encoded with Layer 1 and Layer 2 formats.
- This unit is not compatible with WMA files which are not based upon Windows Media® Audio.
- This 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.



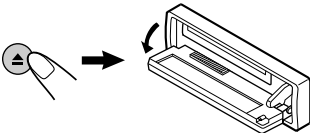
- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.



Refer also to “CD OPERATIONS” on pages 20 to 23.

Playing a disc

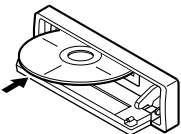
1 Open the control panel.



Note on One-Touch operation:

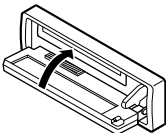
When a disc is already in the loading slot, pressing CD CD-CH turns on the unit and starts playback automatically.

2 Insert a disc into the loading slot.



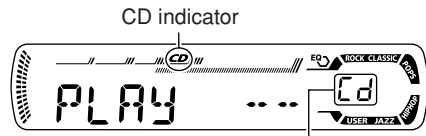
The unit turns on, draws the disc and starts playback automatically.

3 Close the control panel by hand.



All files will be played repeatedly until you stop playback.

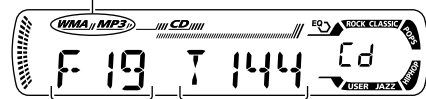
The display changes to show the following:



Current source indication



WMA or MP3 indicator*



Total folder number

Total file number

Ex.: When the disc contains 19 folders and 144 MP3/WMA files

* WMA or MP3 indicator lights up depending on the first detected file.

Notes:

- MP3/WMA discs require a longer readout time. (It differs due to the complexity of the folder/file configuration.)
- When playback starts, folder and file names (or ID3 tags) will automatically appear. (See also page 26.)
- If you change the source or turn the power off, disc playback stops (without ejecting the disc). Next time you select the CD player as the source or turn the power on, disc play starts from where playback has been stopped previously.

To stop play and eject the disc

Press ▲.

Playback stops and the control panel flips down. The disc automatically ejects from the loading slot.

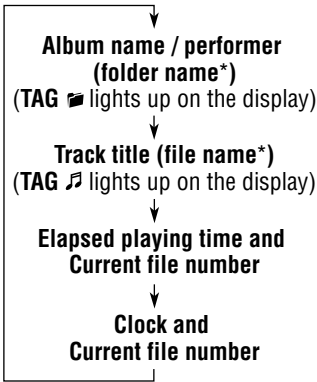
To change the display information

While playing back an MP3/WMA file, you can change the disc information shown on the display.



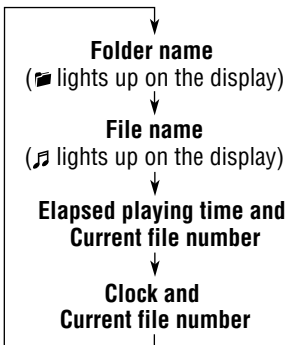
Press DISP (display) repeatedly. Each time you press the button, the display changes to show the following:

- When “TAG DISP” is set to “TAG ON” (initial setting: see page 34)



* If ID3 tags are not recorded, folder name and file name appear. In this case, the TAG indicator will not light up on the display.

- When “TAG DISP” is set to “TAG OFF”

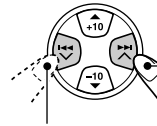


Notes:

- The display shows up to 8 characters at a time and scrolls if there are more than 8 characters. See also “To select the scroll mode—SCROLL” on page 33.
- When folder or file name is shown, current folder number or the Tr indicator and current file number also appear on the right side of the display.

Locating a file or a particular portion on a disc

To fast-forward or reverse the file



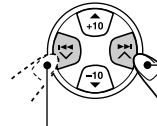
Press and hold ►►▲ while playing a disc, to fast-forward the file.

Press and hold ◀◀▼ while playing a 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.

Press ◀◀▼ briefly, while playing, to skip back to the beginning of the current file.

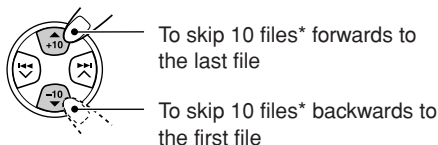
Each time you press the button consecutively, the beginning of the previous files is located and played back.

To go to a particular file quickly within the current folder (+10 and -10 buttons)

- 1 Press M MODE to enter the functions mode while playing a disc.



- 2 Press +10 or -10.



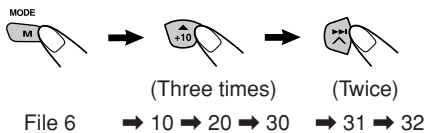
* First time you press +10 or -10 button, the file skips to the nearest higher or lower file with a file number of multiple ten (ex. 10th, 20th, 30th).

Then each time you press the button, you can skip 10 files (see "How to use the +10 and -10 buttons" below).

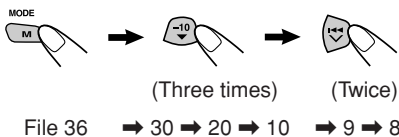
- After the last file, the first file will be selected, and vice versa.

How to use the +10 and -10 buttons

- Ex. 1: To select file number 32 while playing file number 6



- Ex. 2 : To select file number 8 while playing file number 36



To go to a particular folder directly

IMPORTANT:

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

Ex.: If folder name is "01 ABC"

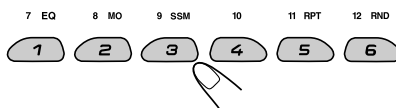
- Press 1 to go to Folder 01 ABC.

If folder name is "1 ABC," pressing 1 does not work.

If folder name is "12 ABC"


- Press and hold 6 (12) to go to Folder 12 ABC.

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



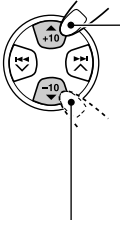
- To select a folder number from 01 – 06: Press 1 (7) – 6 (12) briefly.
- To select a folder number from 07 – 12: Press and hold 1 (7) – 6 (12) for more than one second.

Notes:

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

To select a particular file in a folder, press   or   after selecting the folder.

To skip to the next or previous folder



Press ▲ (up) while playing a disc to skip to the next folder. Each time you press the button consecutively, the next folder is located (and the first file in the folder starts playing, if recorded).

Press ▼ (down) while playing a disc to skip back to the previous folder.

Each time you press the button consecutively, the previous folder is located (and the first file in the folder starts playing, if recorded).

Note:

If the folder does not contain any MP3/WMA files, it is skipped.

Selecting playback modes

To play back files at random (Folder Random/Disc Random Play)

You can play back all files of the current folder or all files on the disc at random.



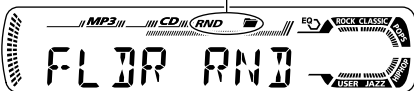
1 Press M MODE to enter the functions mode while playing a disc.



2 Press RND (random), while “MODE” is still flashing on the display, so that “FLDR RND” or “DISC RND” appears on the display. Each time you press the button, the random play mode changes as follows:



RND and (folder) indicators



Ex.: When you select “FLDR RND” while listening to an MP3 file

Mode	Active indicator	Plays at random
FLDR RND	RND and indicators light up.	All files of the current folder, then files of the next folder and so on.
DISC RND	RND and indicators light up.	All files on the disc.

To play back files repeatedly (Track Repeat/Folder Repeat Play)

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



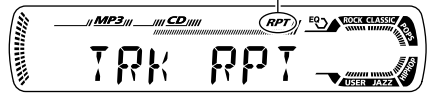
1 Press M MODE to enter the functions mode while playing a disc.



2 Press RPT (repeat), while “MODE” is still flashing on the display, so that “TRK RPT” or “FLDR RPT” appears on the display. Each time you press the button, the repeat play mode changes as follows:



RPT indicator



Ex.: When you select “TRK RPT” while listening to an MP3 file

Mode	Active indicator	Plays repeatedly
TRK RPT	RPT indicator lights up.	The current (or specified) file.
FLDR RPT	and RPT indicators light up.	All files of the current (or specified) folder.



Selecting preset sound modes (C-EQ: custom equalizer)

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

- 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 M MODE to enter the functions mode.



2 Press EQ (equalizer) while "MODE" is still flashing on the display.



You can confirm the current sound mode.

3 Select the sound mode you want.



Each time you press the button, the sound modes change as follows:



Indication pattern changes for each sound mode except for "USER."



Ex.: When you select "ROCK"

Indication	For:	Preset values		
		BAS	TRE	LOUD
USER	(Flat sound)	00	00	OFF
ROCK	Rock or disco music	+03	+01	ON
CLASSIC	Classical music	+01	-02	OFF
POPS	Light music	+04	+01	OFF
HIP HOP	Funk or rap music	+02	00	ON
JAZZ	Jazz music	+02	+03	OFF

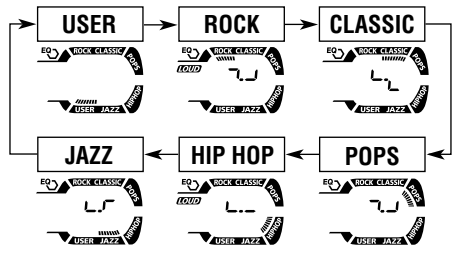
Note:

You can adjust each sound mode to your preference. Once you make an adjustment, it is automatically stored for the currently selected sound mode. See "Adjusting the sound" on page 30.

When using the remote controller:



Press SOUND repeatedly. Each time you press the button, the sound modes change as follows:





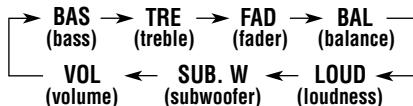
Adjusting the sound

You can adjust the sound characteristics to your preference.

1 Select the item you want to adjust.



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



Indication	To do:	Range
BAS* ¹	Adjust the bass.	-06 (min.) +06 (max.)
TRE* ¹	Adjust the treble.	-06 (min.) +06 (max.)
FAD* ²	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)
LOUD* ¹	Boost low and high frequencies to produce a well-balanced sound at low volume level.	LOUD ON LOUD OFF
SUB. W* ³	Adjust the subwoofer output level.	00 (min.) 08 (max.)
VOL* ⁴	Adjust the volume.	00 (min.) 30 or 50 (max.)* ⁵

- *¹ When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (C-EQ) including "USER."
- *² If you are using a two-speaker system, set the fader level to "00."
- *³ This takes effect only when a subwoofer is connected.
- *⁴ Normally the control dial works as the volume control. So you do not have to select "VOL" to adjust the volume level.
- *⁵ Depending on the amplifier gain control setting. (See page 34 for details.)

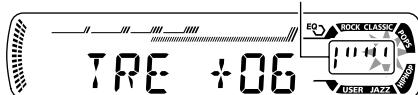
2 Adjust the setting.



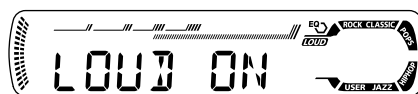
To increase the level or turn on the loudness

To decrease the level or turn off the loudness

Indication pattern changes as you adjust the bass or treble.



Ex. 1: When you adjust "TRE" (treble)



Ex. 2: When you turn on the loudness

3 Repeat steps 1 and 2 to adjust the other items.

To reset each sound mode to the factory settings, repeat the same procedure and reassign the preset values listed in the table on page 29.



Changing the general settings (PSM)

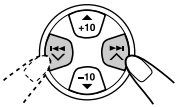
You can change the items listed in the table below and on page 32 by using the PSM (Preferred Setting Mode) control.

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 below and page 32.)



2 Select the PSM item you want to adjust.



3 Adjust the PSM item selected.



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

5 Finish the setting.



Preferred Setting Mode (PSM) items

• For detailed operations of each PSM items, refer to the pages listed in the table.

Indications		Selectable values/items		Factory-preset settings	See page
DEMO	Display demonstration	DEMO OFF	DEMO ON	DEMO ON	8
CLOCK H	Hour adjustment	0 — 23 (1 — 12)		0 (0:00)	9
CLOCK M	Minute adjustment	00 — 59		00 (0:00)	
COLOR	Display color	(See page 33.)		ALL DEMO	33
24H/12H	24/12-hour time display	12H	24H	24H	9
AUTO ADJ	Automatic clock setting	OFF	ON	ON	18
AF-REG	Alternative frequency/ Regionalization reception	AF ↙ ↘	↔ AF REG OFF*1 ↕	AF	13, 14

*1 Displayed only when the "DAB AF" is set to "OFF".



Indications		Selectable values/items		Factory-preset settings	See page
PTY STBY	PTY standby	OFF → 29 programme types (see page 19) ↑		OFF	15
TA VOL	Traffic announcement volume	VOL 00 — VOL 30 or 50*2		VOL 20	18
P-SEARCH	Programme search	OFF	ON	OFF	18
DAB AF*3	Alternative frequency search	AF OFF	AF ON	AF ON	46
DAB VOL*3	DAB volume adjustment	VOL -12 — VOL 12		VOL 00	46
LEVEL	Level display	OFF	ON	ON	33
DIMMER	Dimmer mode	AUTO ↙	↔ ON ↘	OFF ↙ ↘	AUTO 33
TEL	Telephone muting	OFF ↙	↔ MUTING 1 ↘ MUTING 2	↙ ↘	OFF 33
BEEP	Key-touch tone	OFF	ON	ON	33
SCROLL	Scroll mode	ONCE ↙	↔ OFF ↘	AUTO ↙ ↘	ONCE 33
EXT IN*4	External component	CHANGER	LINE IN	CHANGER	34
TAG DISP	Tag display	TAG OFF	TAG ON	TAG ON	34
AMP GAIN	Amplifier gain control	LOW PWR	HIGH PWR	HIGH PWR	34

*2 Depending on the amplifier gain control setting. (See page 34 for details.)

*3 Displayed only when the DAB tuner is connected.

*4 Displayed only when one of the following sources is selected—FM, AM, and CD.



To select the display color—COLOR

You can select the color of the display according to your preference.

When shipped from the factory, “ALL DEMO” is selected.

The selectable colors are as follows:

ALL DEMO ⇄ SOURCE ⇄ BLUE ⇄
 OCEAN ⇄ PURPLE ⇄ PINK ⇄ ROSE ⇄
 RED ⇄ (back to the beginning)

- ALL DEMO: The display color changes every 6 seconds (rose → pink → ocean → red → purple → blue → back to the beginning).
- SOURCE: The display color is fixed to red while listening to FM or AM, blue while listening to CD, and purple while listening to external component.

To select the level meter—LEVEL

You can activate or deactivate the level meter according to your preference.

When shipped from the factory, level meter is activated.

- ON: Shows the audio level indicator.
- OFF: Cancels the audio level indicator; sound mode indicator is shown.

To select the dimmer mode—DIMMER

When you turn on the car headlights, 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—TEL

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

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

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 select the scroll mode—SCROLL

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

When shipped from the factory, scroll mode is set to “ONCE.”

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

Note:

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



To select the external component to use —EXT IN

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

To use the external component as the playback source through this unit, you need to select which component—CD changer or external component—to use.

When shipped from the factory, CD changer is selected as the external component.

- CHANGER: To use the CD changer.
- LINE IN: To use the external component other than CD changer.

Note:

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

To turn the tag display on or off —TAG DISP

An MP3/WMA 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). If both ID3v1 and ID3v2 are recorded on a disc, ID3v2 information will be shown.

When shipped from the factory, “TAG ON” is selected.

- TAG ON: Turns on the ID3 tag display while playing MP3/WMA files.
 - If an MP3/WMA file does not have ID3 tags, folder name and file name appear.
- TAG OFF: Turns off the ID3 tag display while playing MP3/WMA files. (Only the folder name and file name can be shown.)

To select the amplifier gain control —AMP GAIN

You can change the maximum volume level of this unit. When the maximum power of the speakers is less than 50 W, select “LOW PWR” to prevent them from being damaged.

When shipped from the factory, “HIGH PWR” is selected.

- LOW PWR: You can adjust the volume level from “VOL 00” to “VOL 30.”

Note:

If you change the setting from “HIGH PWR” to “LOW PWR” while listening at a volume level more than 30, the unit automatically changes the volume level to “VOL 30.”

- HIGH PWR: You can adjust the volume level from “VOL 00” to “VOL 50.”

Assigning names to the source

You can assign names to CDs (both in this unit and in the CD changer).

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

Source	Maximum number of characters
CDs*	Up to 32 characters (up to 40 discs)

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

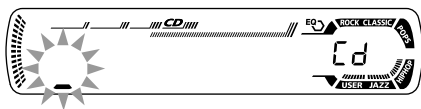
1 Select a source you want to assign a name to.



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



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



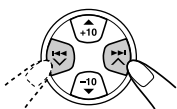
Ex.: When you select CD as the source

3 Select a character.



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

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



5 Repeat steps 3 and 4 until you finish entering the name.

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



Notes:

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

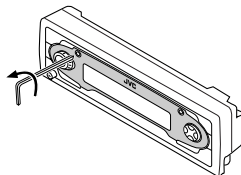
Changing the standard plate

You can change the standard plate with another plate supplied with your unit.

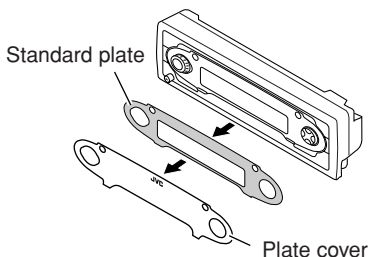
You can also download them by visiting <http://www.jvc.co.jp/jvccar>.

- When changing the plate, be careful not to leave your fingerprints on the plate or cover.

1 Loosen the screws with the supplied hex screwdriver.



2 Remove the plate cover and the standard plate.



To erase the input characters

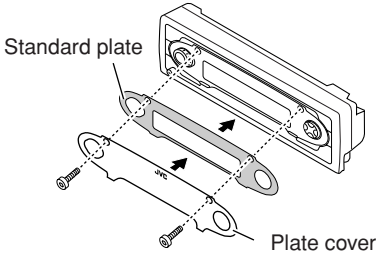
To erase all the characters at a time, press and hold DISP (display) for more than 1 second as described in the procedure above.

CONTINUED ON THE NEXT PAGE



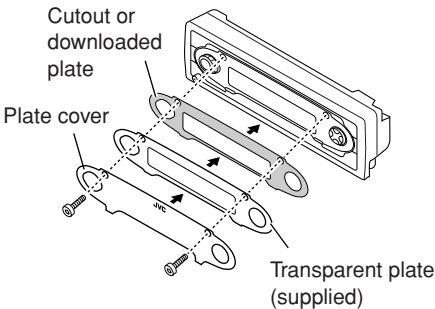
3 Replace with another plate (a standard, cutout, or downloaded plate) of your preference.

- When attaching a standard plate

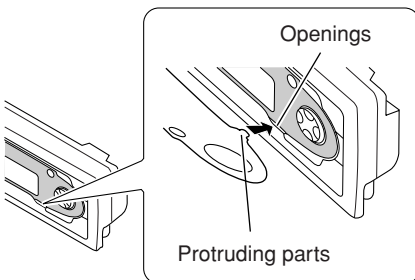


- When attaching a cutout or downloaded plate

Add the transparent plate (supplied) between the cutout or downloaded plate and the plate cover in order to attach the plate cover in place.



When attaching the plate cover



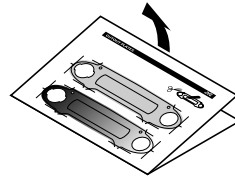
Ensure the two protruding parts at the bottom of the plate cover are inserted into the two openings on the control panel, as illustrated.

Notes:

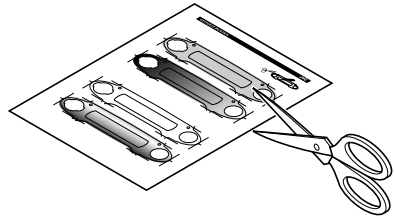
- Be sure to keep the hex screwdriver for future use.
- Two spare screws for the plate cover attachment are provided with the unit. See the Installation/Connection Manual (separate volume).
- When you attach the plate cover, do not tighten the screws too hard; otherwise, the plate cover might be cracked.

How to use the cutout plates

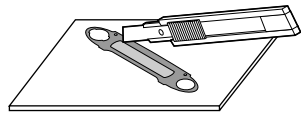
- 1 Unfold the supplied cutout plates.



- 2 Cut the plates out using a scissors.



- 3 Trim out the window and two knobs using a knife on a rubber mat.





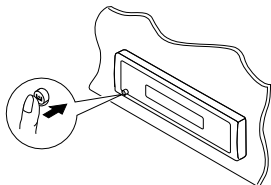
Detaching the control panel

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.

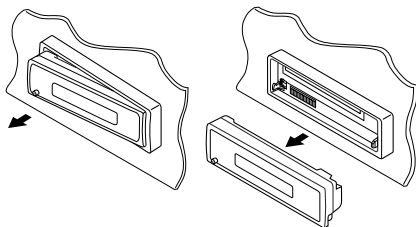
Detaching the control panel

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

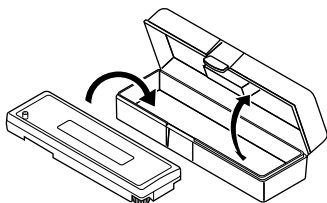
- 1 **Unlock the control panel.**



- 2 **Pull the control panel out of the unit.**

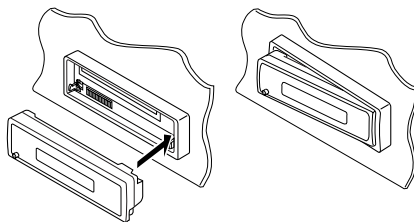


- 3 **Put the detached control panel into the provided case.**

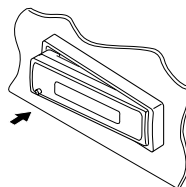


Attaching the control panel

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

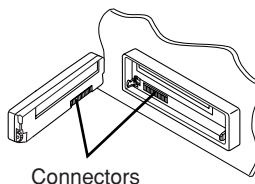


- 2 **Press the left side of the control panel to fix it to the panel holder.**



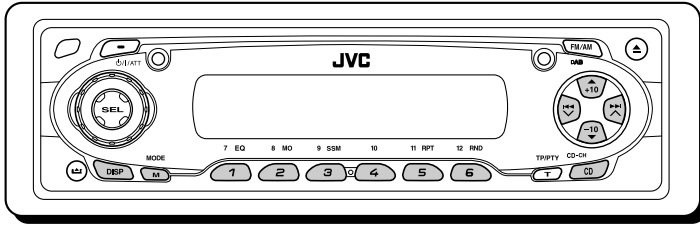
Note on cleaning the connectors:

*If you frequently detach the control panel, the connectors will deteriorate.
To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.*





CD CHANGER OPERATIONS



We recommend that you use the JVC MP3-compatible CD changer with your unit.

By using this CD changer, you can play back your original CD-Rs (Recordable) and CD-RWs (Rewritable) recorded either in audio CD format or in MP3 format.

- You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). However, they are not compatible with MP3 discs, so you cannot play back MP3 discs.
- You cannot use the KD-MK series CD changers with this unit.

Before operating your CD changer:

- Refer also to the Instructions supplied for 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 no magazine is loaded in the CD changer, "NO MAG" appears on the display. If this happens, insert the magazine in the CD changer.
- 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.

Note:

You cannot control and play any WMA disc on the CD changer.

Playing discs

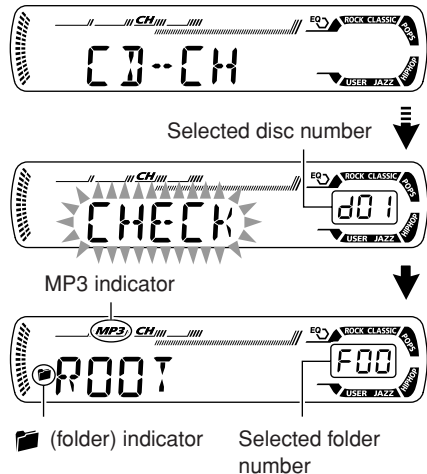
Select the CD changer (CD-CH).



* If you have changed "EXT IN" setting to "LINE IN" (see page 34), you cannot select the CD changer.

When the current disc is an MP3 disc:

Playback starts from the first folder of the current disc once file check is completed.

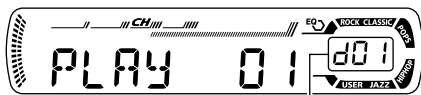
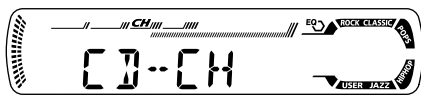


Note:

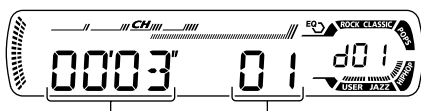
Folder name appears on the display instead of "ROOT," if an MP3 disc contains a folder.

• **When the current disc is a CD:**

Playback starts from the first track of the current disc.



Selected disc number



Elapsed playing time

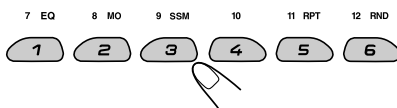
Current track number

Notes:

- When you press CD CD-CH, the power automatically comes on. You do not have to press **⏻/ATT** to turn on the power.
- If you change the source, CD changer play also stops. Next time you select the CD changer as the source, CD changer play starts from where playback has been stopped previously.
- When you start playing back a CD Text or MP3 disc, disc information will automatically appear on the display. (See pages 23 and 26.)

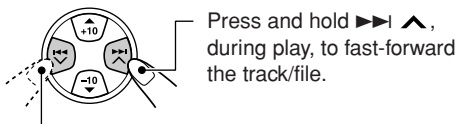
To go to a particular disc directly

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 one second.

To fast-forward or reverse the track/file



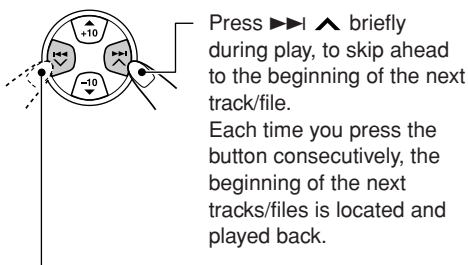
Press and hold **▶▶|▲**, during play, to fast-forward the track/file.

Press and hold **◀◀|▼**, during play, to reverse the track/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 tracks/files



Press **▶▶|▲** briefly during play, to skip ahead to the beginning of the next track/file. Each time you press the button consecutively, the beginning of the next tracks/files is located and played back.

Press **◀◀|▼** briefly during play, to skip back to the beginning of the current track/file. Each time you press the button consecutively, the beginning of the previous tracks/files is located and played back.



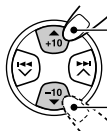
This operation is only possible when using JVC MP3-compatible CD changer (CH-X1500).

To go to a track/file quickly (+10 and -10 buttons)

- 1 Press M MODE to enter the functions mode while playing a disc.



- 2 Press +10 or -10.



To skip 10 tracks/files* forwards to the last track/file

To skip 10 tracks/files* backwards to the first track/file

* First time you press +10 or -10 button, the track/file skips to the nearest higher or lower track/file with a track/file number of multiple ten (ex. 10th, 20th, 30th).

Then each time you press the button, you can skip 10 tracks/files (see "How to use the +10 and -10 buttons" below).

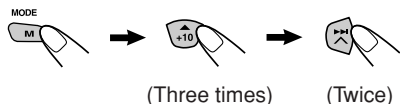
- After the last track/file, the first track/file will be selected, and vice versa.

Note:

If the current playing disc is an MP3 disc, files are skipped within the same folder.

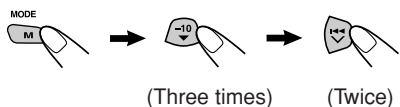
How to use the +10 and -10 buttons

- Ex. 1: To select track/file number 32 while playing track/file number 6



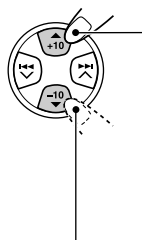
Track/File 6 → 10 → 20 → 30 → 31 → 32

- Ex. 2: To select track/file number 8 while playing track/file number 36



Track/File 36 → 30 → 20 → 10 → 9 → 8

To skip to the next or previous folder (only for MP3 discs)



Press ▲ (up) while playing an MP3 disc, to go to the next folder.

Each time you press the button consecutively, the next folder is located, and the first file in the folder starts playback.

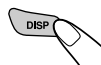
Press ▼ (down) while playing an MP3 disc, to go to the previous folder.

Each time you press the button consecutively, the previous folder is located, and the first file in the folder starts playback.

To show the disc information for CD Text and MP3 discs

This is possible only when connecting a JVC CD changer equipped with CD Text and/or MP3 disc information reading capability.

Select text display mode while playing a CD Text or an MP3 disc.



- For details, see page 23 about CD Text disc information and page 26 about MP3 disc information.

Selecting the playback modes

To play back tracks/files at random (Folder Random/Disc Random/Magazine Random Play)

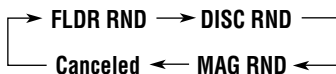


1 Press M MODE to enter the functions mode during play.

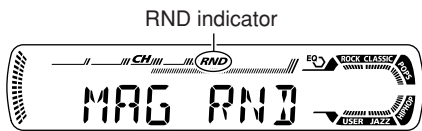
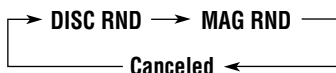


2 Press RND (random), while "MODE" is still flashing on the display. Each time you press the button, the random play mode changes as follows:

For MP3 discs:



For CDs:



Ex.: When you select "MAG RND"

Note:

MP3 indicator also lights up if the current playing disc is an MP3 disc.

Mode	Active indicator	Plays at random
FLDR RND*	RND and indicators light up.	All files of the current folder, then files of the next folder and so on.
DISC RND	RND and indicators light up.	All tracks/files of the current (or specified) disc.
MAG RND	RND indicator lights up.	All tracks/files of the inserted discs.

* "FLDR RND" is only applicable for MP3 discs.

To play back tracks/files repeatedly (Track Repeat/Folder Repeat/Disc Repeat Play)

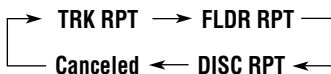


1 Press M MODE to enter the functions mode during play.



2 Press RPT (repeat), while "MODE" is still flashing on the display. Each time you press the button, the repeat play mode changes as follows:

For MP3 discs:



For CDs:



(disc) and RPT indicators



Ex.: When you select "DISC RPT"

Note:

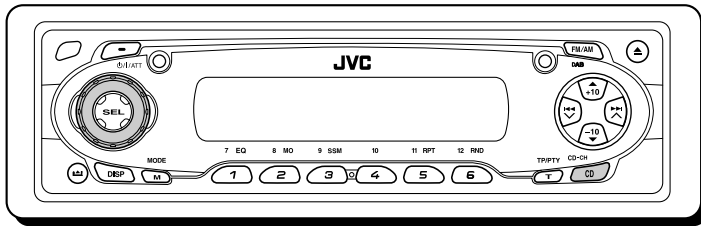
MP3 indicator also lights up if the current playing disc is an MP3 disc.

Mode	Active indicator	Plays repeatedly
TRK RPT	RPT indicator lights up.	The current (or specified) track/file.
FLDR RPT*	and RPT indicators light up.	All files of the current (or specified) folder of the current disc.
DISC RPT	and RPT indicators light up.	All tracks/files of the current (or specified) disc.

* "FLDR RPT" is only applicable for MP3 discs.



EXTERNAL COMPONENT OPERATIONS



Playing an external component

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

Preparations:

- For connecting the Line Input Adapter KS-U57 and the external component, refer to the Installation/ Connection Manual (separate volume).
- Before operating the external component using the following procedure, select the external input correctly. See “To select the external component to use—EXT IN” on page 34.

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

3 Adjust the volume.



4 Adjust the sound as you want. (See pages 29 and 30.)

1 Select the external component (LINE IN).

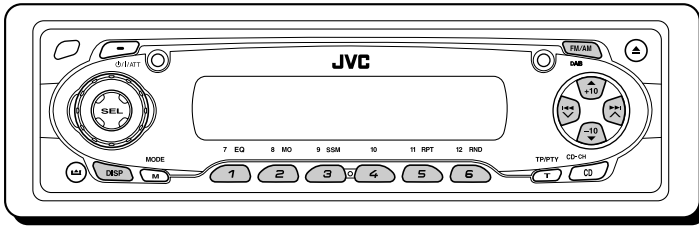


- If “LINE IN”^{*} does not appear on the display, see page 34 and select the external input (“LINE IN”).

^{*} Displayed only when one of the following sources is selected—FM, AM, and CD.

Note on One-Touch Operation:

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



We recommend that you use DAB (Digital Audio Broadcasting) tuner KT-DB1500 or KT-DB1000 with your unit.

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

- Refer also to the Instructions supplied for 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.”

In addition, each “service”—called “primary service”—can also be divided into its components (called “secondary service”).

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

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 prevent this inconvenience, you can adjust the DAB volume level. (See “To adjust the DAB volume level” on page 46.)

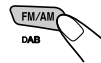
Tuning in to an ensemble and one of the services

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

Before you start...

Press FM/AM DAB briefly if CD, CD changer, or external component is the current source.

1 Select the DAB tuner.



Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

DAB ↔ FM/AM

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



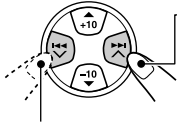
Each time you press the button, the DAB band changes as follows:

DAB1 → DAB2 → DAB3

Note:

This receiver has three DAB bands (DAB1, DAB2, DAB3). You can use any of them to tune in to an ensemble.

3 Start searching for an ensemble.



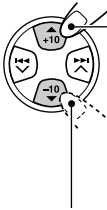
To search for ensembles of higher frequency

To search for ensembles of lower frequency

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 (either primary or secondary) you want to listen to.

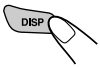


To select the next service (If a primary service has some secondary services, they are selected before the next primary service is selected.)

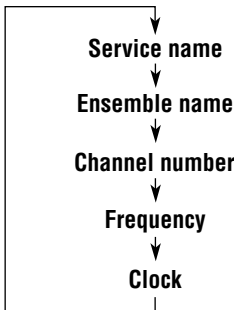
To select the previous service (either primary or secondary)

To change the display information while tuning in to an ensemble

Normally service name is shown on the display. If you want to check the ensemble name or its frequency, press DISP (display) repeatedly.



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



To tune in to a particular ensemble without searching

Before you start....

Press FM/AM DAB briefly if CD, CD changer, or external component is the current source.

- 1 Press and hold FM/AM DAB to select DAB tuner as the source.
- 2 Press FM/AM DAB repeatedly to select the DAB band (DAB1, DAB2, or DAB3).
- 3 Press and hold \blacktriangleright \blacktriangle or \blacktriangleleft \blacktriangledown for more than one second.
- 4 Press \blacktriangleright \blacktriangle or \blacktriangleleft \blacktriangledown repeatedly until the ensemble you want is reached.
 - If you hold down the button, the frequency keeps changing until you release the button.
- 5 Press \blacktriangle (up) or \blacktriangledown (down) to select a service (either primary or secondary) you want to listen to.

To restore the FM/AM tuner

Press and hold FM/AM DAB again.

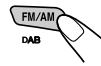
Storing DAB services in memory

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

Before you start....

Press FM/AM DAB briefly if CD, CD changer, or external component is the current source.

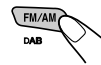
1 Select the DAB tuner.



Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

DAB \leftrightarrow FM/AM

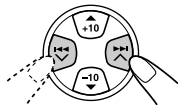
2 Select the DAB band (DAB1, DAB2, or DAB3) you want.



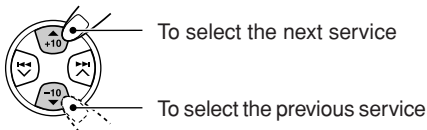
Each time you press the button, the DAB band changes as follows:



3 Tune in to an ensemble you want.



4 Select a service of the ensemble you want to listen to.



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



Selected preset number



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

Notes:

- You can only preset primary DAB services. If you store a secondary service, its primary service will be stored instead.
- 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.

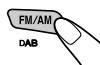
Tuning in to a preset DAB service

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 “Storing DAB services in memory” on pages 44 and 45.

Before you start...

Press FM/AM DAB briefly if CD, CD changer, or external component is the current source.

1 Select the DAB tuner.



Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

DAB ↔ FM/AM

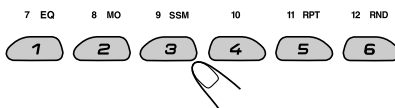
2 Select the DAB band (DAB1, DAB2, or DAB3) you want.



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



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



Note:

If the selected primary service has some secondary services, pressing the same number button repeatedly will tune in to the secondary services.

What you can do more with DAB

Tracing the same programme automatically (Alternative Reception)

You can keep listening to the same programme.

- **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 programme.

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

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

To use Alternative Reception

When shipped from the factory, Alternative Reception is activated.

- See also “Changing the general settings (PSM)” on page 31.

- 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 |◄◄ v to select “DAB AF” (alternative frequency).
- 3 Turn the control dial to select the desired mode.
 - AF ON: Traces the programme among DAB services and FM RDS stations—Alternative Reception. The AF indicator lights up on the display (see page 13).
 - AF OFF: Alternative Reception is deactivated.
- 4 Press SEL (select) to finish the setting.

Note:

When Alternative Reception (for DAB services) is activated, Network-Tracking Reception (for RDS stations: see page 13) is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception.

To adjust the DAB volume level

You can adjust the volume level of DAB tuner and store it in memory. By adjusting the volume 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.

When shipped from the factory, DAB volume level is set at “00.”


- See also “Changing the general settings (PSM)” on page 31.
- 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 |◄◄ v to select “DAB VOL” (volume).
 - 3 Turn the control dial to set to the desired volume.
You can set it from “VOL –12” to “VOL 12.”
 - 4 Press SEL (select) to finish the setting.

TROUBLESHOOTING

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

	Symptoms	Causes	Remedies
General	<ul style="list-style-type: none"> • Sound cannot be heard from the speakers. 	The volume level is set to the minimum level.	Adjust it to the optimum level.
		Connections are incorrect.	Check the cords and connections.
	<ul style="list-style-type: none"> • This unit does not work at all. 	The built-in microcomputer may have functioned incorrectly due to noise, etc.	Press the reset button on the panel holder after detaching the control panel. (The clock setting and preset stations stored in memory are erased.) (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 aerial is not connected firmly.	Connect the aerial firmly.
Disc Playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	Disc is inserted upside down.	Insert the disc correctly.
	<ul style="list-style-type: none"> • CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped. 	CD-R/CD-RW is not finalized.	<ul style="list-style-type: none"> • Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
		Disc is locked.	Unlock the disc. (See page 23.)
	<ul style="list-style-type: none"> • Disc sound is sometimes interrupted. 	You are driving on rough roads.	Stop playback while driving on rough roads.
		Disc is scratched.	Change the disc.
		Connections are incorrect.	Check the cords and connections.
	<ul style="list-style-type: none"> • "NO DISC" appears on the display. 	No disc in the loading slot.	Insert a disc into the loading slot.
Disc is inserted incorrectly.		Insert the disc correctly.	



	Symptoms	Causes	Remedies
MP3/WMA Playback	<ul style="list-style-type: none"> Disc cannot be played back. 	No MP3/WMA files are recorded on the disc.	Change the disc.
		MP3/WMA files do not have the extension code <.mp3> or <.wma> in their file names.	Add the extension code <.mp3> or <.wma> to their file names.
		MP3/WMA files are not recorded in the format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet.	Change the disc. (Record MP3/WMA files using a compliant application.)
	<ul style="list-style-type: none"> Noise is generated. 	The file played back is not an MP3/WMA file (although it has the extension code <.mp3> or <.wma>).	Skip to another file or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or non-WMA files.)
	<ul style="list-style-type: none"> A longer readout time is required ("CHECK" keeps flashing on the display). 	Readout time varies due to the complexity of the folder/file configuration.	Do not use too many hierarchies and folders.
	<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">  indicator flashes on the display. 	The current folder does not contain any MP3/WMA file.	Select another folder.
<ul style="list-style-type: none"> "NO FILES" appears on the display. 	The current disc does not contain any MP3/WMA file.	Insert a disc that contains MP3/WMA files.	
<ul style="list-style-type: none"> Correct characters are not displayed (e.g. album name). 	This unit can only display alphabets (capital: A–Z), numbers, and a limited number of symbols.	_____	



Symptoms	Causes	Remedies
<ul style="list-style-type: none"> • “NO DISC” appears on the display. 	No disc is in the magazine.	Insert discs into the magazine.
	Discs are inserted upside down.	Insert discs correctly.
<ul style="list-style-type: none"> • “NO MAG” appears on the display. 	No magazine is loaded in the CD changer.	Insert the magazine.
<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	This unit is not connected to the 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"> • The CD changer does not work at all. 	The built-in microcomputer may function incorrectly due to noise, etc.	Press the reset button on the panel holder after detaching the control panel. (The clock setting and preset stations stored in memory are erased.) (See page 2.)

CD Changer

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 play while driving on such rough roads.



Handling discs

This unit has been designed to reproduce CDs, CD-Rs (Recordable), CD-RWs (Rewritable), and CD Texts.

- This unit is also compatible with MP3 and WMA discs.

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 be played 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 CD player in the following cases:

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

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

When playing a CD-R or CD-RW

Before playing back CD-Rs or CD-RWs, read their instructions or cautions carefully.

- Use only “finalized” CD-Rs or CD-RWs.
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, and for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation on the lens inside the unit.
 - The pickup lens inside the unit is dirty.
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- CD-Rs or CD-RWs are susceptible to high temperatures or high humidity, so do not leave them inside your car.
- Do not use following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.

Using these discs under high temperatures or high humidity may cause malfunctions or damage to discs. For example,

- Stickers or labels may shrink and warp a disc.
- Stickers or labels may be peeled off so discs cannot be ejected.
- Print on discs may get sticky.

Read instructions or cautions about labels and printable discs carefully.

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, benzene, etc.) to clean discs.

Warped disc



Sticker



Sticker residue

Disc



Stick-on label

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)

Tone Control Range:

Bass: ± 10 dB at 100 Hz

Treble: ± 10 dB at 10 kHz

Frequency Response: 40 Hz to 20 000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Out Level/Impedance:

2.0 V/20 k Ω load (full scale)

Output Impedance: 1 k Ω

Subwoofer-Out Level/Impedance:

2.0 V/20 k Ω load (full scale)

Cut off frequency: 120 Hz (fixed)

TUNER SECTION

Frequency Range:

FM: 87.5 MHz to 108.0 MHz

AM: (MW) 522 kHz to 1 620 kHz

(LW) 144 kHz to 279 kHz

[FM Tuner]

Usable Sensitivity:

11.3 dBf (1.0 μ V/75 Ω)

50 dB Quieting Sensitivity:

16.3 dBf (1.8 μ V/75 Ω)

Alternate Channel Selectivity (400 kHz):

65 dB

Frequency Response: 40 Hz to 15 000 Hz

Stereo Separation: 30 dB

Capture Ratio: 1.5 dB

[MW Tuner]

Sensitivity: 20 μ V

Selectivity: 35 dB

[LW Tuner]

Sensitivity: 50 μ V

CD PLAYER SECTION

Type: Compact disc player

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

Number of channels: 2 channels (stereo)

Frequency Response: 5 Hz to 20 000 Hz

Dynamic Range: 96 dB

Signal-to-Noise Ratio: 98 dB

Wow and Flutter: Less than measurable limit

MP3 decoding format:

MPEG 1/2 Audio Layer 3

Max. Bit Rate: 320 Kbps

WMA (Windows Media[®] Audio) decoding format:

Max. Bit Rate: 192 Kbps

GENERAL

Power Requirement:

Operating Voltage:

DC 14.4 V (11 V to 16 V allowance)

Grounding System: Negative ground

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

Dimensions (W \times H \times D):

Installation Size (approx.):

182 mm \times 52 mm \times 150 mm

Panel Size (approx.):

188 mm \times 58 mm \times 12 mm

Mass (approx.):

1.4 kg (excluding accessories)

Design and specifications are subject to change without notice.

If you want some additional downloaded plates, you can download them by visiting <http://www.jvc.co.jp/jvccar>.

**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



ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC IN-CAR ENTERTAINMENT dealers.

DEUTSCH

Dieses Gerät ist für einen Betrieb in **elektrischen Anlagen mit 12 V Gleichstrom und (-) Erdung ausgelegt**. Verfügt Ihr Fahrzeug nicht über diese Anlage, ist ein Spannungsinverter erforderlich, der bei JVC Autoradiohändler erworben werden kann.

FRANÇAIS

Cet appareil est conçu pour fonctionner sur des sources de courant continu de **12 V à masse NEGATIVE**. Si votre véhicule n'offre pas ce type d'alimentation, il vous faut un convertisseur de tension, que vous pouvez acheter chez un revendeur d'autoradios JVC.

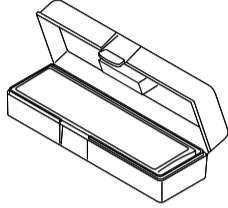
NEDERLANDS

Dit apparaat mag worden gebruikt bij elektrische systemen die werken op **12 V gelijkstroom met negatieve aarding**. Als uw auto niet is uitgerust met een dergelijk systeem, is een spanningsomzetter vereist. Dit instrument kan worden aangeschaft bij JVC car audio dealers.

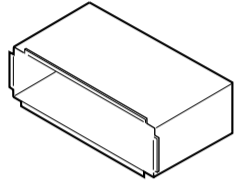
Parts list for installation and connection

The following parts are provided for this unit. The number in parentheses indicates the quantity of the pieces supplied. After checking them, please set them correctly.

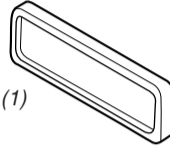
A / B
Hard case/Control panel (1)
Etui/Schalttafel (1)
Etui de transport/Panneau de commande (1)
Behuizing/Bedieningspaneel (1)



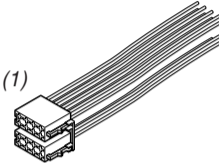
C
Sleeve (1)
Halterung (1)
Manchon (1)
Huis (1)



D
Trim plate (1)
Frontrahmen (1)
Plaque d'assemblage (1)
Sierplaat (1)



E
Power cord (1)
Stromkabel (1)
Cordon d'alimentation (1)
Stroomkabel (1)



F
Remote controller (1)
Fernbedienung (1)
Télécommande (1)
Afstandsbediening (1)



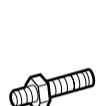
G
Washer—ø5 (1)
Unterlegscheibe—ø5 (1)
Rondelle—ø5 (1)
Sluistring—ø5 (1)



H
Lock nut—M5 (1)
Sicherungsmutter—M5 (1)
Ecrou d'arrêt—M5 (1)
Contra-moer—M5 (1)



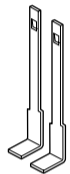
I
Mounting bolt—M5 x 20 mm (1)
Befestigungsschraube—M5 x 20 mm (1)
Boulon de montage—M5 x 20 mm (1)
Bevestigingsbout—M5 x 20 mm (1)



J
Rubber cushion (1)
Gummipuffer (1)
Amortisseur en caoutchouc (1)
Rubberdop (1)



K
Handles (2)
Griffe (2)
Poignées (2)
Hendels (2)

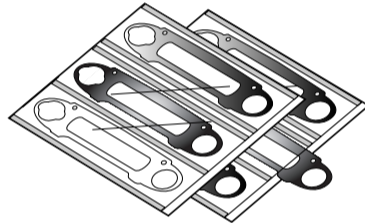


L
Battery (1)
Batterie (1)
Pile (1)
Batterij (1)

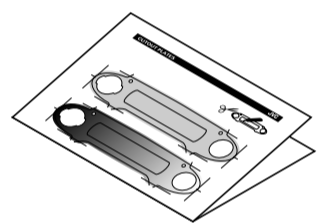


See pages 35 and 36 of the INSTRUCTIONS for the usage of the following parts.
Witere Informationen finden Sie auf den Seiten 35 und 36 der BEDIENUNGSANLEITUNG der folgenden Teile.
Référez-vous aux pages 35 et 36 du MANUEL D'INSTRUCTIONS pour savoir comment utiliser les pièces suivantes.
Zie bladzijden 35 en 36 van de GEBRUIKSAANWIJZING voor gebruik van deze onderdelen.

Additional standard plates (5) and transparent plate (1)
Zusätzliche Standardplatten (5) und transparente Platte (1)
Plaques standards additionnelles (5) et plaque transparente (1)
Extra standaardplaten (5) en transparant-plaat (1)



Cutout plates (printed on the sheet) (4)
Schablonen (auf das Blatt aufgedruckt) (4)
Plaques découpées (imprimées sur une feuille) (4)
Platen voor uitsnijding (gedrukt op het blad) (4)



Hex screwdriver (1)
Sechskantschraubendreher (1)
Clef hexagonale (1)
Zeshoekige sleutel (1)



Spare screws for the plate cover attachment—M2 x 5 mm (2)
Ersatzschrauben für die Plattenabdeckung—M2 x 5 mm (2)
Vis de rechange pour la fixation du couvercle de la plaque—M2 x 5 mm (2)
Extra schroeven voor bevestiging van plaatafdekking—M2 x 5 mm (2)



INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

EINBAU (IM ARMATURENBRETT)

Die folgende Abbildung zeigt einen typischen Einbau. Bei irgendwelchen Fragen oder wenn Sie Informationen hinsichtlich des Einbausatzes brauchen, wenden Sie sich an ihren JVC Autoradiohändler oder ein Unternehmen das diese Einbausätze vertreibt.

- Sind Sie sich über den richtigen Einbau des Geräts nicht sicher, lassen Sie es von einem qualifizierten Techniker einbauen.

INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

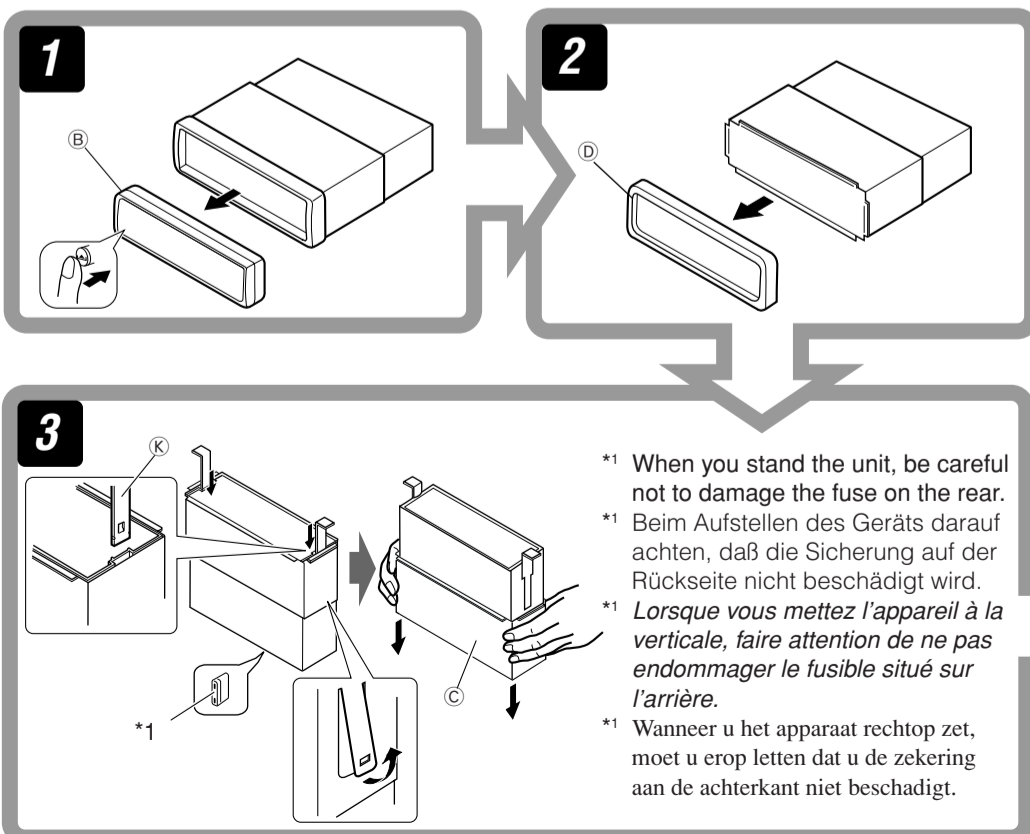
L'illustration suivante est un exemple d'installation typique. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.

- Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.

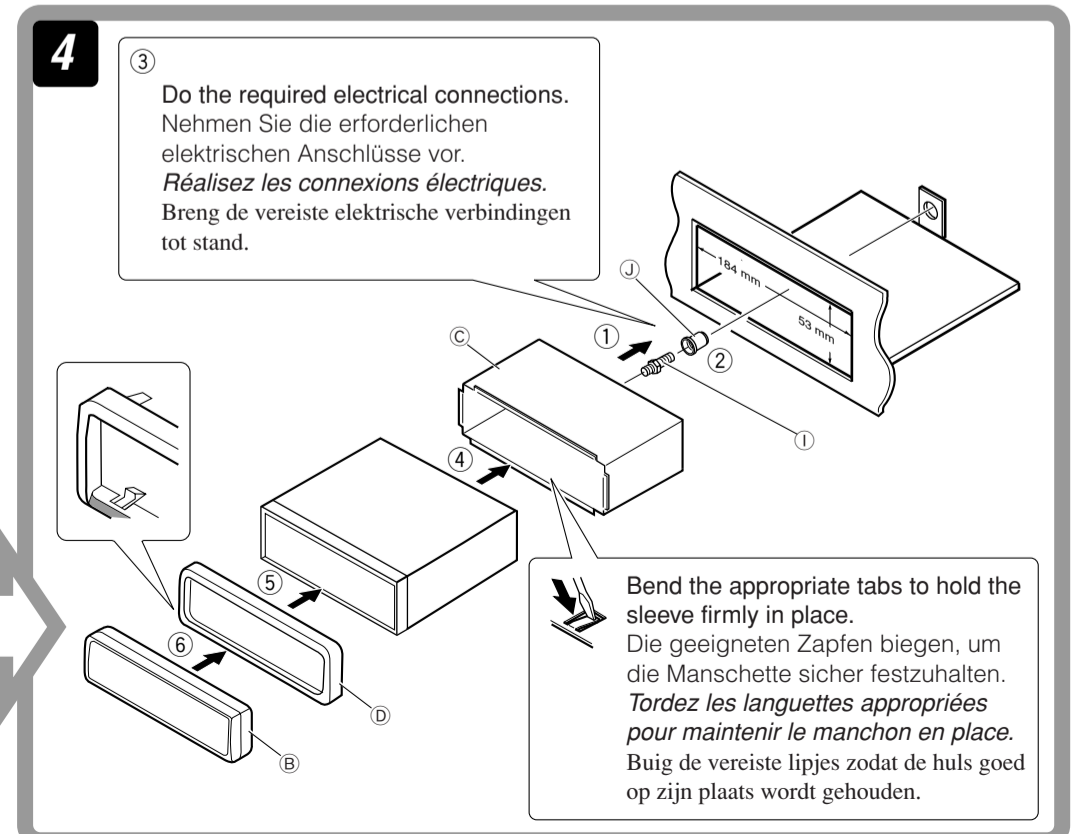
INSTALLATIE (INBOUW IN HET DASHBOARD)

Op de volgende afbeelding kunt u zien hoe de installatie, normaal gesproken, in zijn werk gaat. Neem bij vragen of voor meer bijzonderheden over inbouwpakketten contact op met uw JVC car audio dealer of een dealer of een bedrijf dat inbouwpakketten levert.

- Als u niet zeker weet hoe u dit apparaat moet installeren, kunt u dit beter door een daartoe gekwalificeerde technicus laten doen.



- *1 When you stand the unit, be careful not to damage the fuse on the rear.
- *1 Beim Aufstellen des Geräts darauf achten, daß die Sicherung auf der Rückseite nicht beschädigt wird.
- *1 Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur l'arrière.
- *1 Wanneer u het apparaat rechtop zet, moet u erop letten dat u de zekering aan de achterkant niet beschadigt.



Do the required electrical connections. Nehmen Sie die erforderlichen elektrischen Anschlüsse vor. Réalisez les connexions électriques. Breng de vereiste elektrische verbindingen tot stand.

Bend the appropriate tabs to hold the sleeve firmly in place. Die geeigneten Zapfen biegen, um die Manschette sicher festzuhalten. Tordez les languettes appropriées pour maintenir le manchon en place. Buig de vereiste lipjes zodat de huls goed op zijn plaats wordt gehouden.

Removing the unit

Before removing the unit, release the rear section.

Ausbau des Geräts

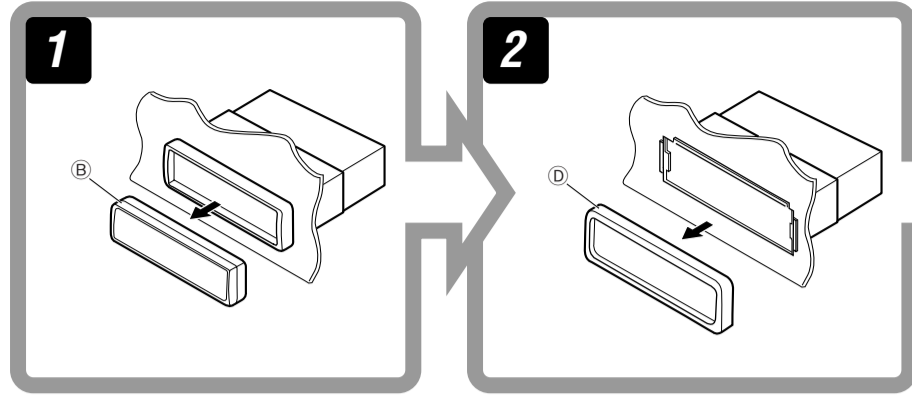
Vor dem Ausbau des Geräts den hinteren Teil freigegeben.

Retrait de l'appareil

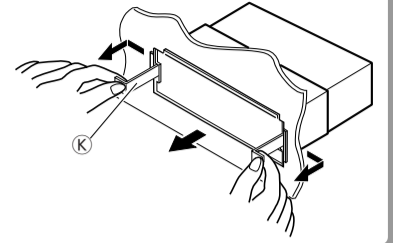
Avant de retirer l'appareil, libérer la section arrière.

Verwijderen van het apparaat

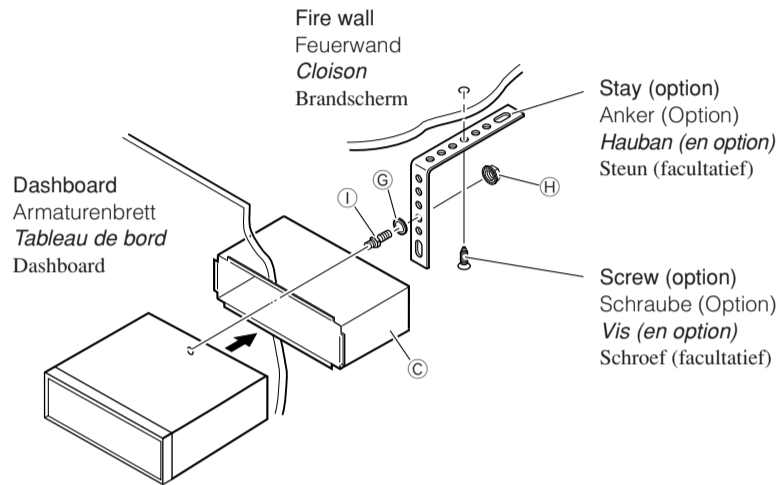
Voordat u het apparaat verwijdert, moet u het achtergedeelte losmaken.



3 Insert the two handles, then pull them as illustrated so that the unit can be removed.
Die beiden Handgriffe einsetzen und dann ziehen wie in der Abbildung gezeigt, so daß das Gerät entfernt werden kann.
Insérez les deux poignées, puis tirez de la façon illustrée de façon à retirer l'appareil.
Plaats de twee hendels en trek ze vervolgens zoals afgebeeld naar voren zodat het toestel kan worden verwijderd.



When using the optional stay / Beim Verwenden der Anker-Option / Lors de l'utilisation du hauban en option / Wanneer u de steun gebruikt (facultatief)

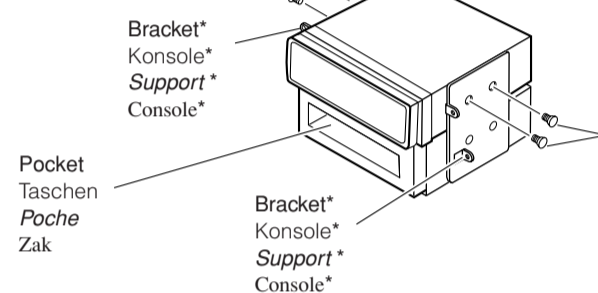


Install the unit at an angle of less than 30°.
Stellen Sie das Gerät mit einem Winkel von weniger als 30° auf.
Installez l'appareil avec un angle de moins de 30°.
Installeer het toestel met een hoek kleiner dan 30°.

When installing the unit without using the sleeve / Beim Einbau des Geräts ohne Halterung / Lors de l'installation de l'appareil sans utiliser de manchon / Wanneer u het apparaat zonder huis installeert

In a Toyota for example, first remove the car radio and install the unit in its place.
Zum Beispiel in einem Toyota zuerst das Autoradio ausbauen und dann das Gerät an seinem Platz einbauen.
Par exemple dans une Toyota, retirer d'abord l'autoradio et installer l'appareil à la place.
Voorbeeld: Bij een Toyota moet u eerst de autoradio verwijderen en daarna het apparaat installeren.

Flat type screws (M5 x 8 mm)*
Senkkopfschrauben (M5 x 8 mm)*
Vis à tête plate (M5 x 8 mm)*
Platkopsschroeven (M5 x 8 mm)*



* Not included with this unit.
* Nicht Teil dieses Geräts.
* Non fourni avec cet appareil.
* Niet meegeleverd.

Flat type screws (M5 x 8 mm)*
Senkkopfschrauben (M5 x 8 mm)*
Vis à tête plate (M5 x 8 mm)*
Platkopsschroeven (M5 x 8 mm)*

Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.
Hinweis : Beim Anbringen des Gerät an der Konsole sicherstellen, daß 8 mm lange Schrauben verwendet werden. Werden längere Schrauben verwendet, können sie das Gerät beschädigen.
Remarque : Lors de l'installation de l'appareil sur le support de montage, s'assurer d'utiliser des vis d'une longueur de 8 mm. Si des vis plus longues sont utilisées, elles peuvent endommager l'appareil.
Opmerking : Wanneer u het apparaat aan de bevestigingsklem vastmaakt, moet u de 8 mm lange schroeven gebruiken. Als u langere schroeven gebruikt, kan het apparaat worden beschadigd.

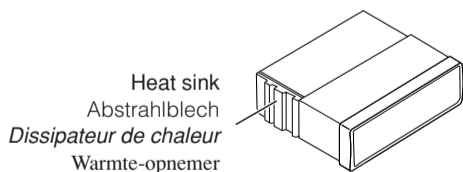
ELECTRICAL CONNECTIONS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

• Be sure to ground this unit to the car's chassis again after installation.

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
- It is recommended to connect to the speakers with maximum power of more than 50 W (both at the rear and at the front, with an impedance of 4 Ω to 8 Ω). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 34 of the INSTRUCTIONS).
- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



ELEKTRISCHE ANSCHLÜSSE

Zur Vermeidung von Kurzschlüssen empfehlen wir, daß Sie den negativen Batterieanschluß abtrennen und alle elektrischen Anschlüsse herstellen, bevor das Gerät eingebaut wird.

• Sicherstellen, daß das Gerät nach dem Einbau a Chassis des Fahrzeugs geerdet wird.

Hinweise:

- Die Sicherung mit einer der entsprechenden Nennleistung ersetzen. Brennt die Sicherung häufig durch, wenden Sie sich an ihren JVC Autoradiohändler.
- Es wird empfohlen, Lautsprecher mit einer Maximalleistung von mehr als 50 W anzuschließen (sowohl hinten als auch vorne, mit einer Impedanz von 4 Ω bis 8 Ω). Wenn die Maximalleistung weniger als 50 W beträgt, stellen Sie „AMP GAIN“ anders ein, um Schäden an den Lautsprechern zu vermeiden (siehe Seite 34 der BEDIENUNGSANLEITUNG).
- Zur Vermeidung eines Kurzschlusses die Anschlußklemmen der NICHT VERWENDETEN Leitungen mit Isolierklebeband umwickeln.
- Das Abstrahlblech wird nach dem Gebrauch sehr heiß. Beim Ausbau des Geräts darauf achten, das Abstrahlblech nicht zu berühren.

RACCORDEMENTS ELECTRIQUES

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil.

• Assurez-vous de raccorder de nouveau la mise à la masse de cet appareil au châssis de la voiture après l'installation.

Remarques:

- Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.
- Il est recommandé de connecter des enceintes avec une puissance de plus de 50 W (les enceintes arrière et les enceintes avant, avec une impédance comprise entre 4 Ω et 8 Ω). Si la puissance maximum est inférieure à 50 W, changez "AMP GAIN" pour éviter d'endommager vos enceintes (voir page 34 du MANUEL D'INSTRUCTIONS).
- Pour éviter les court-circuits, couvrir les bornes des fils qui ne sont PAS UTILISÉS avec de la bande isolante.
- Le dissipateur de chaleur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.

ELEKTRISCHE VERBINDINGEN

Om kortsluiting te voorkomen adviseren wij u om de minpool van de accu los te maken en alle elektrische verbindingen tot stand te brengen voordat u het apparaat in de auto installeert.

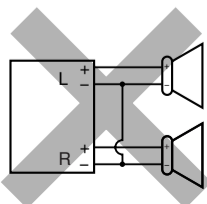
• Aard dit toestel beslist weer op het chassis van de auto na het installeren.

Opmerkingen:

- Vervang de zekering door een exemplaar met het aangegeven vermogen. Als de zekering vaak doorslaat, moet u uw JVC car audio dealer raadplegen.
- Sluit bij voorkeur luidsprekers met een hoger maximaal vermogen dan 50 W (zowel achter als voor, met een impedantie van 4 Ω t/m 8 Ω) aan. Indien het maximale vermogen lager dan 50 W is, moet u "AMP GAIN" in de andere stand stellen zodat de luidsprekers niet kunnen worden beschadigd (zie bladzijde 34 van de GEBRUIKSAANWIJZING).
- Om kortsluiting te voorkomen, moet u de aansluitklemmen van ONGEBRUIKTE gekleurde draden met isolatieband bedekken.
- De warmte-opnemer kan na gebruik erg heet worden. Raak de warmte-opnemer niet aan wanneer u dit apparaat van zijn plaats haalt.

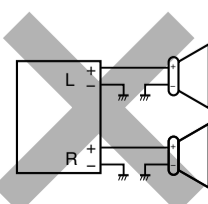
PRECAUTIONS on power supply and speaker connections:

- DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



VORSICHTSMASREGELN beim Anschließen der Stromversorgung und Lautsprecher:

- Die Lautsprecherleitungen des Netzkabels NICHT an der Autobatterie anschließen, da sonst das Gerät schwer beschädigt wird.
- VOR dem Anschließen der Lautsprecherleitungen des Spannungsversorgungskabels an die Lautsprecher, die Lautsprecherverdrahtung in Ihrem Auto überprüfen.

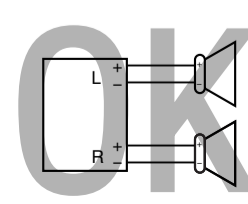


PRECAUTIONS sur l'alimentation et la connexion des enceintes:

- NE CONNECTEZ PAS les fils d'enceintes du cordon d'alimentation à la batterie; sinon, l'appareil serait sérieusement endommagé.
- AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.

VOORZORGSMAATREGELEN bij het verbinden van de stroomkabeldraad met de speakers:

- Verbind de speakerdraden van de stroomkabel NIET met de accu van de auto; als u dit wel doet, zal het apparaat ernstige schade oplopen.
- VOORDAT u de speakerdraden van de stroomkabel met de speakers verbindt, moet u de bedrading van de speakers in uw auto controleren.



A Typical Connections / Typische Anschlüsse / Raccordements typiques / Normale verbindingen

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit. The leads of the power cord and those of the connector from the car body may be different in color.

- 1 Connect the colored leads of the power cord in the order specified in the illustration below.
 - 2 Connect the aerial cord.
 - 3 Finally connect the wiring harness to the unit.
- Note:** If your vehicle does not have any accessory terminal, move the fuse from the fuse position 1 (initial position) to fuse position 2, and connect the red lead (A7) to the positive (+) battery terminal.
- The yellow lead (A4) is not used in this case.

Vor dem Anschließen: Die Verdrahtung im Fahrzeug sorgfältig überprüfen. Falsche Anschlüsse können ernsthafte Schäden am Gerät hervorrufen. Die Leiter des Stromkabels und die Leiter des Anschlusses im Fahrzeug können sich farblich unterscheiden.

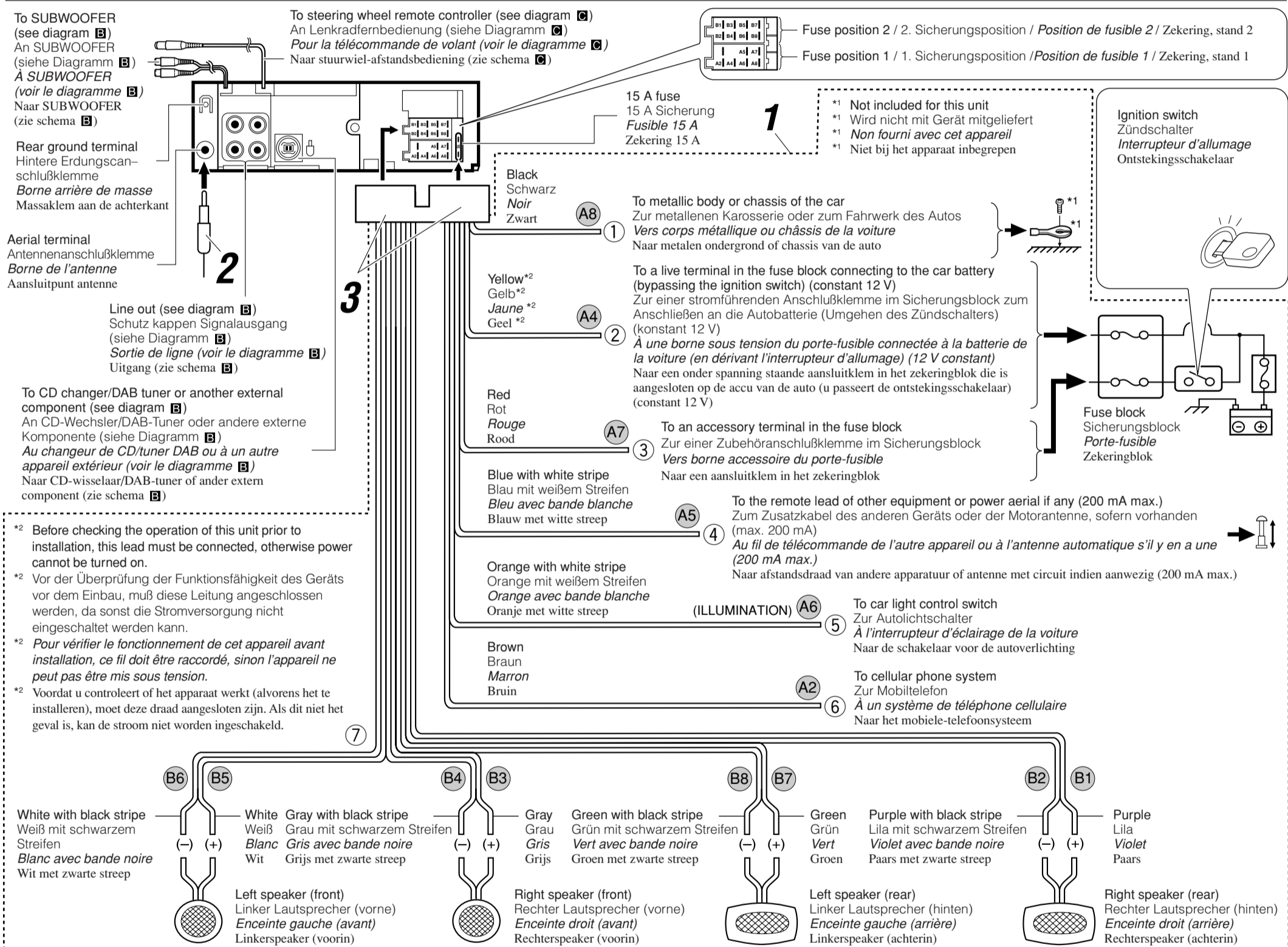
- 1 Die farbigen Adern des Stromkabels in der Reihenfolge anschließen, wie in der Abbildung unten gezeigt.
 - 2 Das Antennenkabel anschließen.
 - 3 Die Kabelbäume am Gerät anschließen.
- Hinweis:** Verfügt Ihr Fahrzeug nicht über eine Zubehöransteckklemme, die Sicherung von der 1. Sicherungsposition (Erstposition) in die 2. Sicherungsposition versetzen, die rote Leitung (A7) an der (+) Batterieanschlusssklemme anschließen.
- Die gelbe Leitung (A4) wird in diesem Fall nicht verwendet.

Avant de commencer la connexion: Vérifiez attentivement le câblage du véhicule. Une connexion incorrecte peut endommager sérieusement l'appareil. Le fil du cordon d'alimentation et ceux des connecteurs du châssis de la voiture peuvent être différents en couleur.

- 1 Connectez les fils colorés du cordon d'alimentation dans l'ordre spécifié sur l'illustration ci-dessous.
 - 2 Connectez le cordon d'antenne.
 - 3 Finalement, connectez le faisceau de fils à l'appareil.
- Remarque:** Si votre véhicule ne possède pas de borne accessoire, déplacez le fusible de la position de fusible 1 (position originale) à la position de fusible 2 et connectez le fil rouge (A7) à la borne positive (+) de la batterie.
- Le fil jaune (A4) n'est pas utilisé dans ce cas.

Alvorens de verbindingen tot stand te brengen: Moet u de bedrading in de auto zorgvuldig. Het apparaat kan door verkeerde verbindingen ernstige schade oplopen. De draden van het stroom snoer verschillen mogelijk van kleur met de aansluitingen op het chassis van de auto.

- 1 Verbind de gekleurde draden van het stroom snoer in de afbeelding hieronder aangegeven volgorde.
 - 2 Sluit de antenne aan.
 - 3 Verbind de draadbundel daarna met het apparaat.
- Opmerking:** Als uw voertuig niet beschikt over een aansluitklem, moet u de zekering verplaatsen van stand 1 (beginstand) naar stand 2 en moet u de rode draad (A7) met de pluspool (+) van de accu verbinden.
- In dit geval wordt de gele draad (A4) niet gebruikt.



TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?
- **Power cannot be turned on.**
* Is the yellow lead connected?
- **No sound from the speakers.**
* Is the speaker output lead short-circuited?
- **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the “-” terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
- **Unit becomes hot.**
* Is the speaker output lead grounded?
* Are the “-” terminals of L and R speakers grounded in common?

FEHLERSUCHE

- **Die Sicherung brennt durch.**
* Sind die roten und schwarzen Leitungen richtig angeschlossen?
- **Stromversorgung kann nicht eingeschaltet werden.**
* Ist die gelbe Leitung angeschlossen?
- **Kein Ton aus den Lautsprechern.**
* Ist die LautsprecherAusgangsleitung kurzgeschlossen?
- **Ton verzerrt.**
* Ist die LautsprecherAusgangsleitung geerdet?
* Sind die (-) Anschlußklemmen der linken und rechten Lautsprecher zusammen geerdet?
- **Störgeräusche im Klang.**
* Ist die hintere Erdungsklemme mit kürzeren und dickeren Kabeln an das Fahrzeugchassis angeschlossen?
- **Gerät wird heiß.**
* Ist die LautsprecherAusgangsleitung geerdet?
* Sind die (-) Anschlußklemmen der linken und rechten Lautsprecher zusammen geerdet?

EN CAS DE DIFFICULTES

- **Le fusible saute.**
* Les fils rouge et noir sont-ils raccordés correctement?
- **L'appareil ne peut pas être mise sous tension.**
* Le fil jaune est-elle raccordée?
- **Pas de son des enceintes.**
* Le fil de sortie d'enceinte est-il court-circuité?
- **Le son est déformé.**
* Le fil de sortie d'enceinte est-il à la masse?
* Les bornes “-” des enceintes gauche et droit sont-elles mises ensemble à la masse?
- **Interférence avec les sons.**
* La prise arrière de mise à la terre est-elle connectée au châssis de la voiture avec un cordon court et épais?
- **L'appareil devient chaud.**
* Le fil de sortie d'enceinte est-il à la masse?
* Les bornes “-” des enceintes gauche et droit sont-elles mises ensemble à la masse?

PROBLEMEN OPLOSSEN

- **De zekering slaat door.**
* Zijn de rode en de zwarte draden op de juiste manier aangesloten?
- **De stroom kan niet worden ingeschakeld.**
* Is de gele draad aangesloten?
- **Er komt geen geluid uit de speakers.**
* Is de uitgaande speakerdraad kortgesloten?
- **Het geluid wordt vervormd.**
* Is de uitgaande speakerdraad geaard?
* Zijn de “-” polen van de linker- en de rechterspeakers gemeenschappelijk geaard?
- **Geluid wordt door ruis gestoord.**
* Is de aarde-aansluiting achter met gebruik van kortere en dikkere snoeren met het chassis van de auto verbonden?
- **Het apparaat raakt verhit.**
* Is de uitgaande speakerdraad geaard?
* Zijn de “-” polen van de linker- en de rechterspeakers gemeenschappelijk geaard?

B Connections Adding Other Equipment / Anschlüsse zum Hinzufügen von anderer Ausrüstung / Raccordement pour ajouter d'autres appareils / Aansluitingen voor het toevoegen van andere apparatuur

Amplifier / Verstärker / Amplificateur / Versterker

You can connect an amplifier and other equipment to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **For amplifier only:** Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.

Sie können einen Verstärker oder ein anderes Gerät anschließen, um Ihre Autostereoanlage zu erweitern.

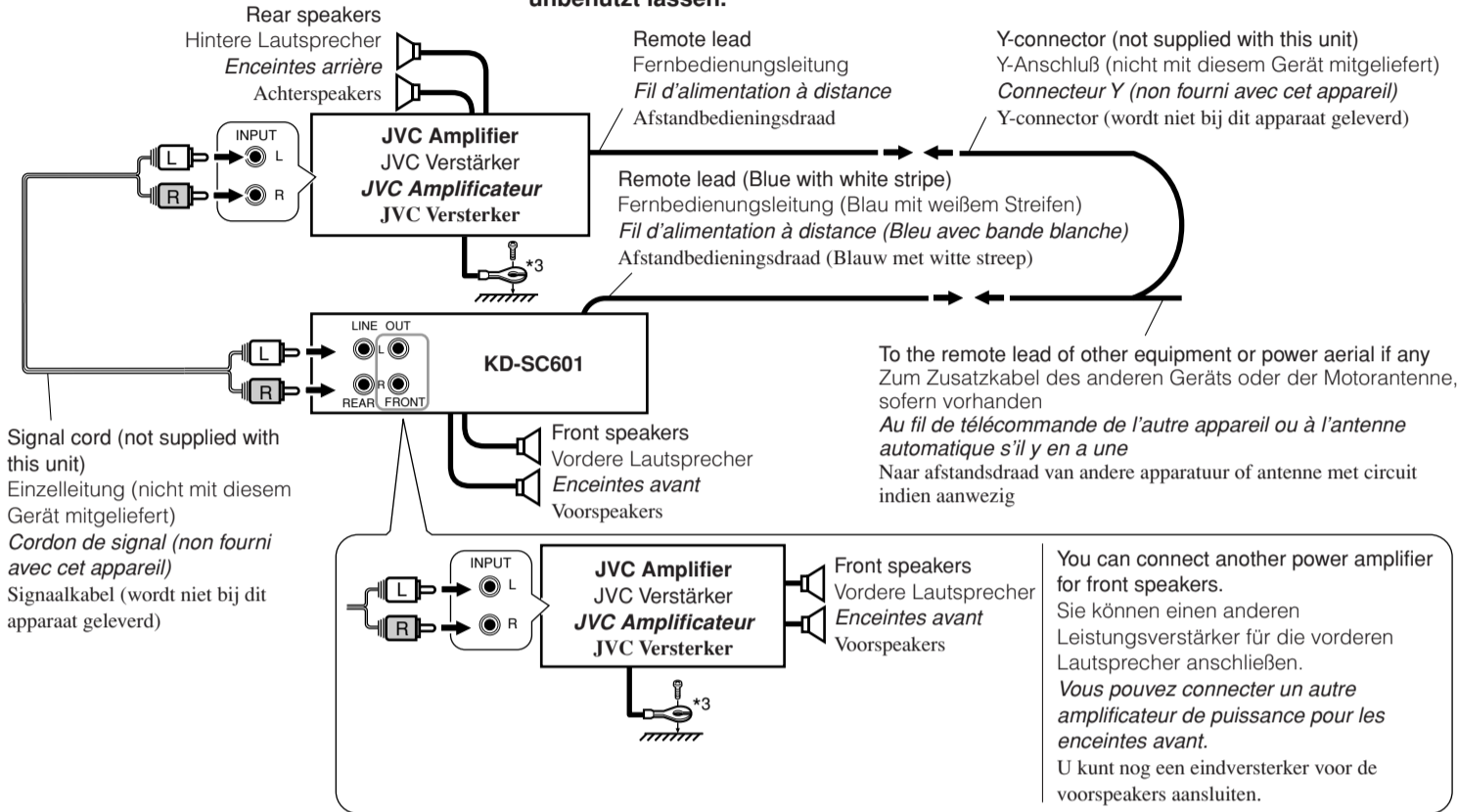
- Schließen Sie das Fernbedienungskabel (blau mit weißem Streifen) an das Fernbedienungskabel des anderen Geräts an, so daß es über dieses Gerät gesteuert werden kann.
- **Nur für den Verstärker:** Die Lautsprecher von diesem Gerät abtrennen und am Verstärker anschließen. Die Lautsprecherleitungen dieses Geräts unbenutzt lassen.

Vous pouvez connecter un amplificateur ou autre appareil pour améliorer votre système autoradio.

- Connectez le fil de commande à distance (bleu avec bande blanche) au fil de commande à distance de l'autre appareil de façon qu'il puisse être commandé via cet appareil.
- **Pour l'amplificateur seulement:** Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés.

Het is mogelijk om uw autostereosysteem uit te breiden met een versterker of andere apparatuur.

- Verbind de externe kabel (blauw met witte streep) met de externe kabel van het andere apparaat zodat deze op afstand vanaf deze apparaat kan worden bediend.
- **Alleen voor een versterker:** Koppel de speakers van dit apparaat los en verbind ze aan de versterker. Gebruik de speakerdraden van dit apparaat niet.



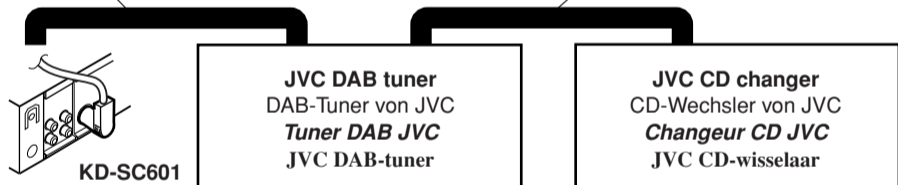
- *3 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place not coated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.
- *3 Verbinden Sie den Erdungsleiter mit der Karosserie oder dem Rahmen des Fahrzeugs. Die Kontaktstelle darf nicht lackiert sein (sollte die Kontaktstelle lackiert sein, entfernen Sie den Lack der Kontaktstelle, bevor Sie den Leiter befestigen). Wenn der Erdungsleiter nicht ordnungsgemäß angeschlossen wird, kann dieses Gerät beschädigt werden.
- *3 Attachez solidement le fil de mise à la masse au châssis métallique de la voiture—à un endroit qui n'est pas recouvert de peinture (s'il est recouvert de peinture, enlevez d'abord la peinture avant d'attacher le fil). L'appareil peut être endommagé si cela n'est pas fait correctement.
- *3 Bevestig de aarddraad goed met een metalen onderdeel of het chassis van de auto—bevestig op een niet-gelakt gedeelte (indien gelakt, schuur dan af alvorens de draad te bevestigen). Het toestel kan worden beschadigd indien de aarddraad niet goed is aangesloten.

CD changer and DAB tuner / CD-Wechsler und DAB-Tuner / Changeur CD et tuner DAB / CD-wisselaar en DAB-tuner

Refer also to page 38 of the INSTRUCTIONS. Siehe auch Seite 38 in der BEDIENUNGSANLEITUNG. Référez-vous aussi à la page 38 du MANUEL D'INSTRUCTIONS. Zie tevens bladzijde 38 van de GEBRUIKSAANWIJZING.

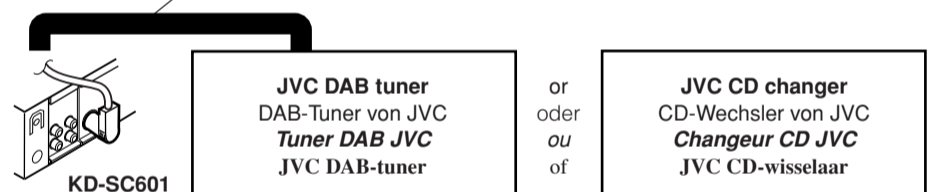
Connecting cord supplied for your DAB tuner
Verbindingskabel, das zum Lieferumfang des DAB-Tuners gehört
Cordon de connexion fourni avec votre tuner DAB
Verbindingskabel die met de DAB-tuner wordt meegeleverd

Connecting cord supplied for your CD changer
Verbindingskabel, das zum Lieferumfang des CD-Wechsler gehört
Cordon de connexion fourni avec votre changeur CD
Verbindingskabel die met de CD-wisselaar wordt meegeleverd



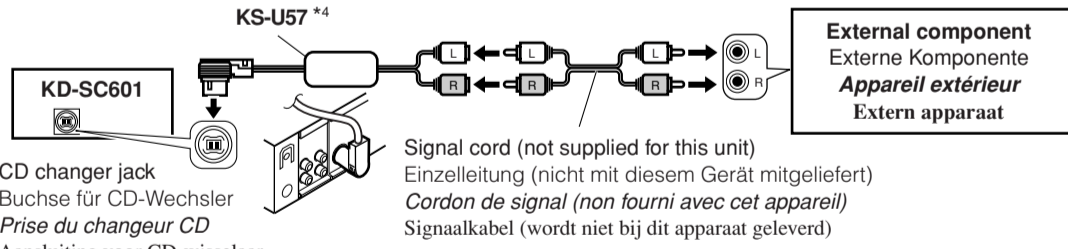
- You can connect both components in series as illustrated above.
- Es ist möglich, beide Komponenten in einer Serienschaltung entsprechend der obigen Darstellung anzuschließen.
- Vous pouvez connecter les deux appareils en série comme montré ci-dessus.
- Beide apparaten zijn volgens bovenstaande illustratie in serie aan te sluiten.

Connecting cord supplied for your DAB tuner or CD changer
Verbindingskabel, das zum Lieferumfang des DAB-Tuners oder CD-Wechslers gehört
Cordon de connexion fourni avec votre tuner DAB ou changeur CD
Verbindingskabel die met de DAB-tuner of CD-wisselaar wordt meegeleverd



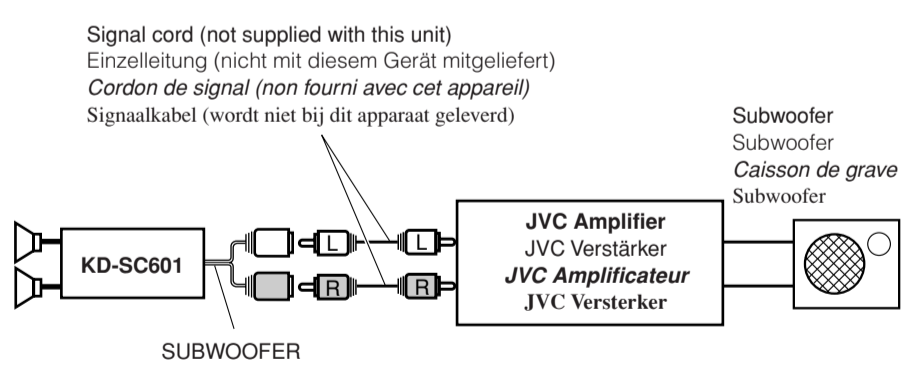
- CAUTION / VORSICHT / PRECAUTION / LET OP!:**
- Before connecting the CD changer and/or the DAB tuner, make sure that the unit is turned off.
 - Bevor Sie den CD-Wechsler und/oder den DAB-Tuner anschließen, vergewissern Sie sich, daß das Gerät ausgeschaltet ist.
 - Avant de connecter le changeur CD et/ou le tuner DAB, s'assurer que l'unité est éteinte.
 - Zorg ervoor dat de apparaat is uitgeschakeld alvorens u de CD-wisselaar en/of DAB-tuner aansluit.

External Component / Externe Komponente / Appareil extérieur / Extern apparaat



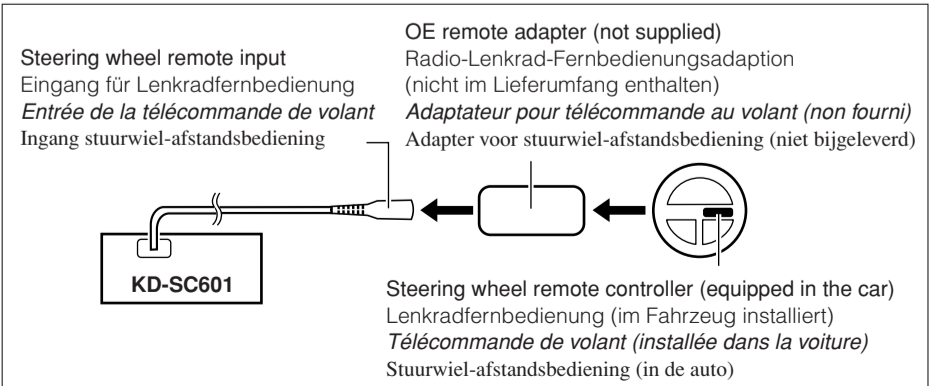
- *4 Line Input Adapter KS-U57 (not supplied with this unit)
- *4 Line-Eingangsadapter KS-U57 (nicht mit diesem Gerät mitgeliefert)
- *4 Adaptateur d'entrée de ligne KS-U57 (non fourni avec cet appareil)
- *4 Line Input Adapter KS-U57 (wordt niet bij dit apparaat geleverd)

Subwoofer / Subwoofer / Caisson de grave / Subwoofer



C Connecting to the steering wheel remote controller / Anschluß an die Lenkradfernbedienung / Connexion de la télécommande de volant / Verbinden met de stuurwiel-afstandsbediening

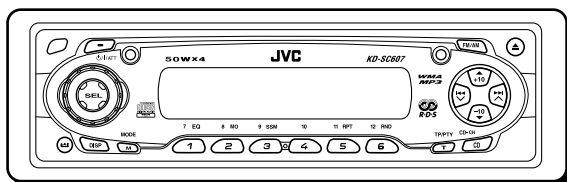
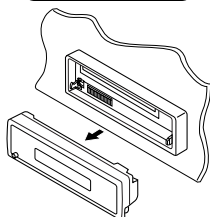
If your car is equipped with the steering wheel remote controller, you can operate this receiver using the controller. To do it, a JVC's OE remote adapter (not supplied) which matches with your car is required. Consult your JVC IN-CAR ENTERTAINMENT dealer for details. Wenn Ihr Fahrzeug mit einer Lenkradfernbedienung ausgestattet ist, können Sie damit diesen Receiver steuern. Hierfür ist ein für Ihr Fahrzeug passender Radio-Lenkrad-Fernbedienungsadaption von JVC (nicht im Lieferumfang enthalten) erforderlich. Für weitere Einzelheiten wenden Sie sich an Ihren JVC Autoradiohändler. Si votre voiture est munie d'une télécommande de volant, vous pouvez commander cet autoradio en utilisant la télécommande. Pour le faire, un adaptateur pour télécommande au volant JVC (non fourni) correspondant à votre voiture est nécessaire. Consultez votre revendeur d'autoradio JVC pour les détails. Indien uw auto een stuurwiel-afstandsbediening heeft, kunt u deze receiver met die afstandsbediening bedienen. Hiervoor heeft u echter een JVC adapter (niet bijgeleverd) nodig die geschikt is voor de stuurwiel-afstandsbediening van uw auto. Raadpleeg uw JVC car audio dealer voor details.





CD RECEIVER РЕСИВЕР С ПРОИГРЫВАТЕЛЕМ КОМПАКТ-ДИСКОВ

KD-SC607



For installation and connections, refer to the separate manual.

Указания по установке и выполнению соединений приводятся в отдельной инструкции.

В соответствии с Законом Российской Федерации “О защите прав потребителей” срок службы (годности) данного товара “по истечении которого он может представлять опасность для жизни, здоровья потребителя, причинять вред его имуществу или окружающей среде” составляет семь (7) лет со дня производства. Этот срок является временем, в течение которого потребитель данного товара может безопасно им пользоваться при условии соблюдения инструкции по эксплуатации данного товара, проводя необходимое обслуживание, включающее замену расходных материалов и/или соответствующее ремонтное обеспечение в специализированном сервисном центре.

Дополнительные косметические материалы к данному товару, поставляемые вместе с ним, могут храниться в течение двух (2) лет со дня его производства.

Срок службы (годности), кроме срока хранения дополнительных косметических материалов, упомянутых в предыдущих двух пунктах, не затрагивает никаких других прав потребителя, в частности, гарантийного свидетельства JVC, которое он может получить в соответствии с законом о правах потребителя или других законов, связанных с ним.

- This unit is equipped with the display demonstration. To cancel it, see page 8.
- Данное устройство имеет функцию демонстрации на экране дисплея. Порядок ее отмены смотрите на странице 8.

INSTRUCTIONS ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ



IMPORTANT FOR LASER PRODUCTS

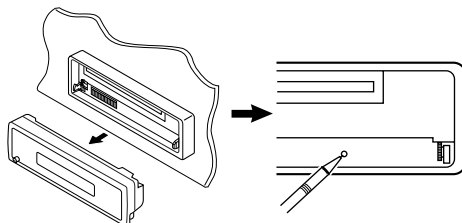
1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL: Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (e)	WARNING: Synlig og osynlig laserstråling når den öppnas och spårren är urkopplad. Beträkta ej strålen. (s)	VARO: Avattaessa ja suojalukitus ohitettuna tai viallisena olet alittuna näkyväille ja näkymättömälle lasersträlylle. Vältä säteen kohdistumista suoraan itseesi. (f)
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How to reset your unit

After detaching the control panel, press the reset button on the panel holder using a ball-point pen or a similar tool.

This will reset the built-in microcomputer.



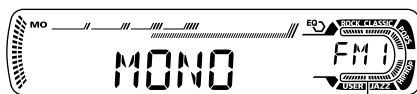
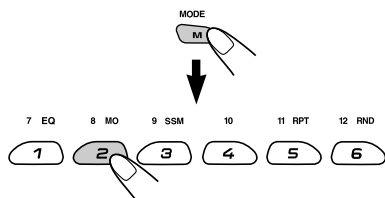
Note:

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

How to use the M MODE button

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

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



Time countdown indicator

To use these buttons for original functions 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.

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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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....**

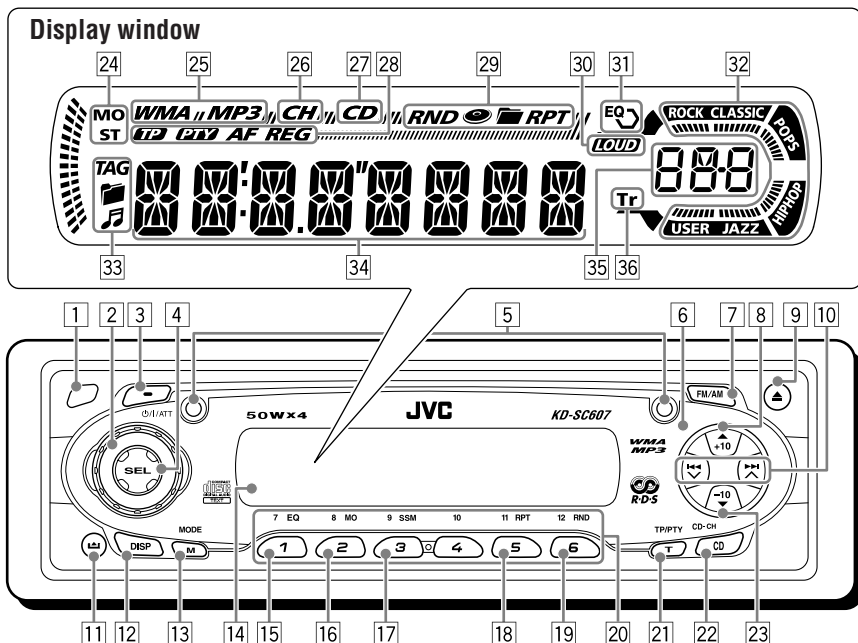
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.



LOCATION OF THE BUTTONS

Control panel

ENGLISH



- 1 Remote sensor
- 2 Control dial
- 3 (standby/on/attenuator) button
- 4 SEL (select) button
- 5 Screws (M2 × 5 mm)
- 6 Plate cover and standard plate
- 7 FM/AM button
- 8 (up) button
+10 button
- 9 (eject) button
- 10 buttons
- 11 (control panel release) button
- 12 DISP (display) button
- 13 M MODE button
- 14 Display window
- 15 EQ (equalizer) button
- 16 MO (monaural) button
- 17 SSM (Strong-station Sequential Memory) button
- 18 RPT (repeat) button
- 19 RND (random) button
- 20 Number buttons
- 21 T TP/PTY (traffic programme/programme type) button
- 22 CD CD-CH (CD changer) button

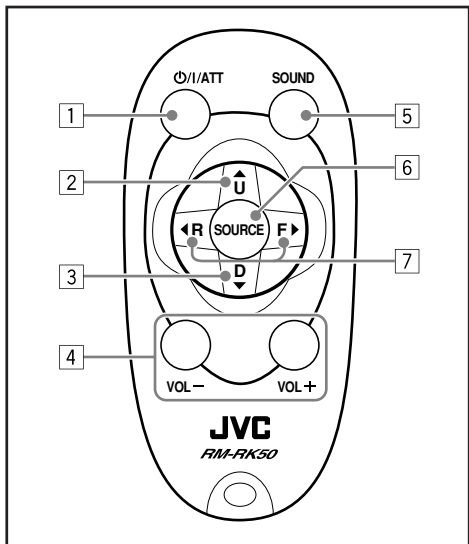
- 23 (down) button
-10 button

Display window

- 24 Tuner reception indicators—MO (monaural), ST (stereo)
- 25 Disc type indicators—WMA, MP3
- 26 CH (CD changer) indicator
- 27 CD indicator
- 28 RDS indicators—TP, PTY, AF, REG
- 29 Playback mode/item indicators—RND (random), (disc), (folder), RPT (repeat)
- 30 LOUD (loudness) indicator
- 31 EQ (equalizer) indicator
- 32 Sound mode (C-EQ: custom equalizer) indicators—ROCK, CLASSIC, POPS, HIP HOP, JAZZ, USER
 - also works as level meter during play if the level meter is activated (see page 33).
- 33 Disc information indicators—TAG (ID3 Tag), (folder), (track/file)
- 34 Main display
- 35 Source display
Volume level indicator
- 36 Tr (track) 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 in a moment if pressed briefly. Press again to resume the volume.
- 2 • Selects the band while listening to the radio. Each time you press the button, the band changes.
 - Skips to the first file of the next folder while listening to an MP3 or a WMA disc. Each time you press the button, you can move to the next folder and start playing the first file.
 - While playing an MP3 disc on an MP3-compatible CD changer;
 - Skips to the next disc if pressed briefly.
 - Skips to the next folder if pressed and held.

Note: While playing a CD on a CD changer, this always skips to the next disc.

- 3 • Selects the preset stations while listening to the radio. Each time you press the button, the preset station number increases, and the selected station is tuned in.
 - Skips to the first file of the previous folder while listening to an MP3 or a WMA disc. Each time you press the button, you can move to the previous folder and start playing the first file.
 - While playing an MP3 disc on an MP3-compatible CD changer;
 - Skips to the previous disc if pressed briefly.
 - Skips to the previous folder if pressed and held.

Note: While playing a CD on a CD changer, this always skips to the previous disc.

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

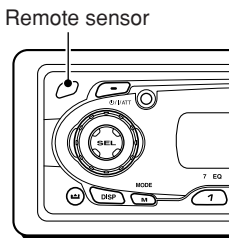
Note: These buttons do not function for the preferred setting mode (PSM) adjustment.

- 5 Selects the sound mode (C-EQ: custom equalizer). Each time you press the button, the sound mode (C-EQ) changes.
- 6 Selects the source. Each time you press the button, the source changes.
- 7 • Searches for stations while listening to the radio.
 - Fast-forwards or reverses the track/file if pressed and held while listening to a disc.
 - Skips to the beginning of the next track/file or goes back to the beginning of the current (or previous) tracks/files if pressed briefly while listening to a disc.

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.



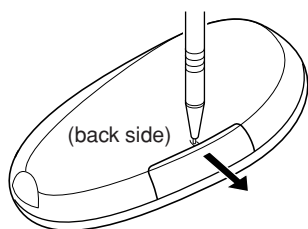
- Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).

Installing the battery

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

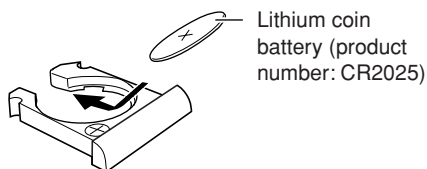
1. Remove the battery holder.

- 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.



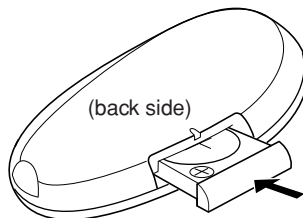
2. Place the battery.

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



3. Return the battery holder.

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

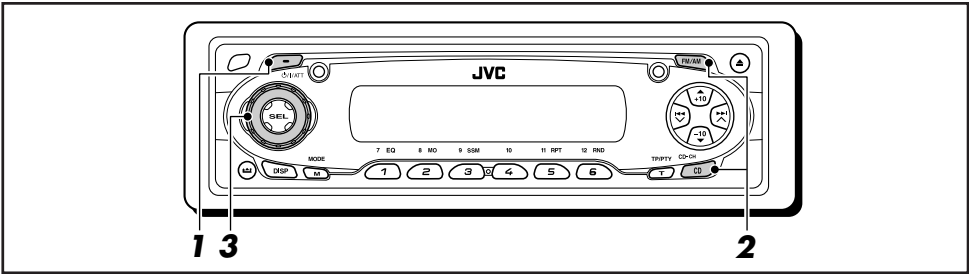


WARNING:

- 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 of 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.



Turning on the power

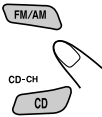
1 Turn on the power.



Note on One-Touch Operation:

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

2 Select the source.



To operate the tuner (FM or AM), see pages 10 – 19.

To play a CD, see pages 20 – 23.

To play an MP3/WMA disc, see pages 25 – 28.

To operate the CD changer, see pages 38 – 41.

To operate the external component (LINE IN), see page 42.

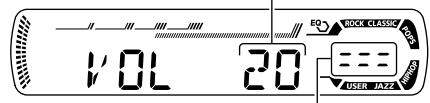
3 Adjust the volume.



To increase the volume

To decrease the volume

Volume level appears.



Volume level indicator

4 Adjust the sound as you want. (See pages 29 and 30.)

To drop the volume in a moment

Press **I/ATT** briefly while listening to any source. “ATT” starts flashing on the display, and the volume level will drop in a moment. To resume the previous volume level, press the button briefly again.

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

To turn off the power

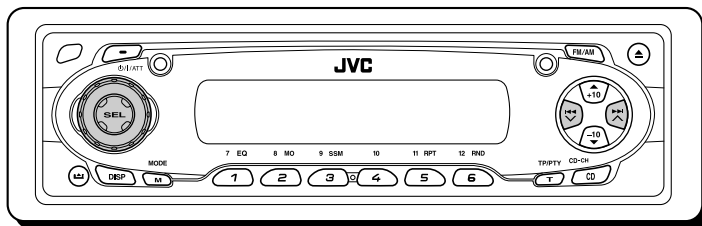
Press and hold **I/ATT** for more than one second.

“SEE YOU” appears, then the unit turns off.

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

CAUTION on Volume Setting:

Discs 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.



Canceling the display demonstration

When shipped from the factory, display demonstration has been activated, and starts automatically when no operations are done for about 20 seconds.

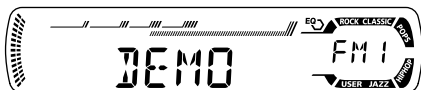
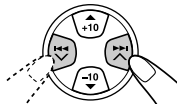
- It is recommended to cancel the display demonstration before you use the unit for the first time.

To cancel the display demonstration, follow the procedure below:

- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see pages 31 and 32.)**



- 2 Select "DEMO" if not shown on the display.**



- 3 Select "DEMO OFF."**



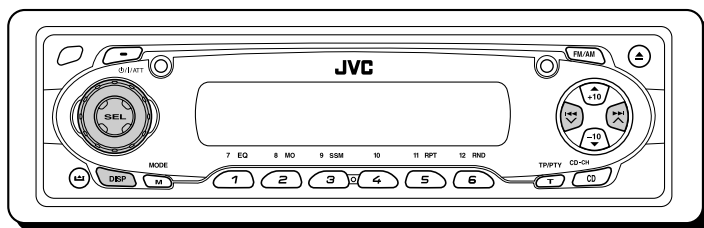
DEMO OFF ↔ DEMO ON



- 4 Finish the setting.**



To activate the display demonstration, repeat the same procedure and select "DEMO ON" in step 3.



Setting the clock

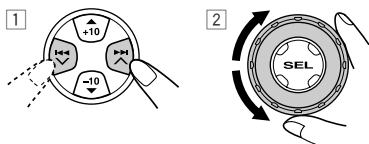
You can also set the clock system to either 24 hours or 12 hours.

- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see pages 31 and 32.)**



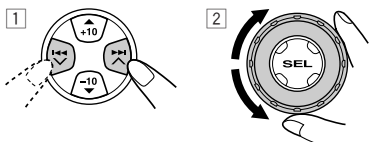
- 2 Set the hour.**

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



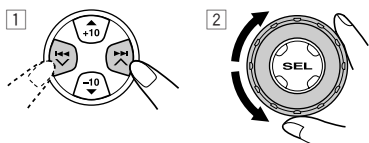
- 3 Set the minute.**

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



- 4 Set the clock system.**

- Select "24H/12H."
- Select "24H" or "12H."



- 5 Finish the setting.**



To check the current clock time or change the display mode

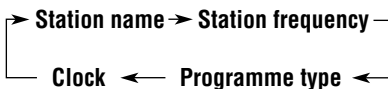


Press DISP (display) repeatedly. Each time you press the button, the display changes as follows:

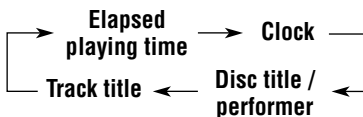
- During AM and FM non-RDS station operation:

Frequency ↔ Clock

- During FM RDS Station operation:



- During disc operation:



Notes:

- While playing a conventional CD, "NO NAME" appears for the disc title/performer and the track title.
- For indication change while playing a CD Text or an MP3/WMA disc, see also pages 23 and 26.

- During external component operation:

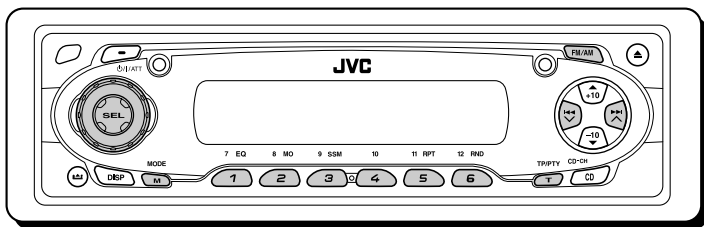
LINE IN ↔ Clock

- During power off:

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



RADIO OPERATIONS



Listening to the radio

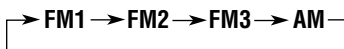
You can use either automatic searching or manual searching to tune in to a particular station.

Searching for a station automatically: Auto search

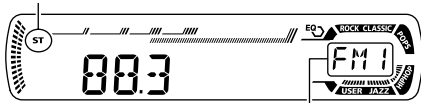
1 Select the band (FM1 – 3, AM).



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



Lights up when receiving an FM stereo broadcast with sufficient signal strength.

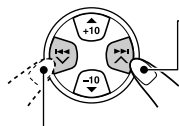


Selected band appears.

Note:

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

2 Start searching for a station.



To search for stations of higher frequencies

To search for 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.

Note:

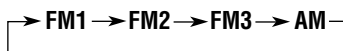
FM1 and FM2: 87.5 MHz – 108.0 MHz
FM3: 65.00 MHz – 74.00 MHz

Searching for a station manually: Manual search

1 Select the band (FM1 – 3, AM).



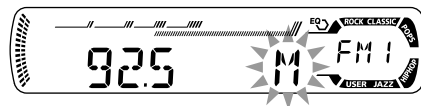
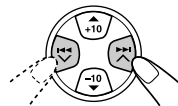
Each time you press the button, the band changes as follows:



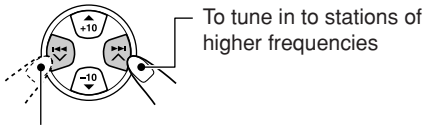
Note:

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” (manual) is still flashing.



To tune in to stations of lower frequencies

- If you release your finger from the button, the manual mode will automatically turns off after 5 seconds.
- If you hold down the button, the frequency keeps changing—in 50 kHz intervals (87.5 MHz – 108.0 MHz for FM 1 and FM 2), in 30 kHz intervals (65.00 MHz – 74.00 MHz for FM 3) and 9 kHz for AM —MW/LW until you release the button.

Storing stations in memory

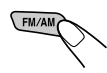
You can use one of the following two methods to store broadcasting stations in memory.

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

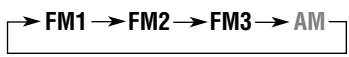
FM station automatic preset: SSM

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

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



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



2 Press M MODE to enter the functions mode.



3 Press and hold SSM for about 2 seconds.



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 “MODE” is still flashing on the display, so that “MONO” appears on the display. Each time you press the button, monaural mode turns on and off alternately.

MO (monaural) indicator



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



“SSM” flashes, then disappears when automatic preset is over.

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

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



Manual preset

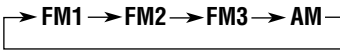
You can preset up to 6 stations in each band (FM1, FM2, FM3, and AM) manually.

Ex.: Storing FM station of 92.5 MHz into the preset number 1 of the FM1 band.

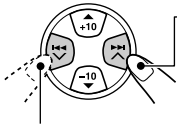
1 Select the band (FM1 – 3, AM) you want to store stations into (in this example, FM1).



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

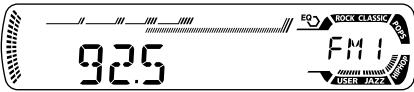


2 Tune in to a station (in this example, of 92.5 MHz).

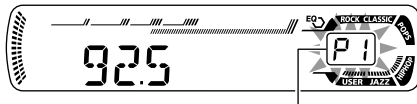
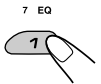


To tune in to stations of higher frequencies

To tune in to stations of lower frequencies



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



Preset number 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.

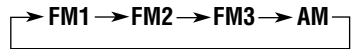
Tuning in to a preset station

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 pages 11 and 12.

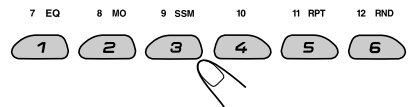
1 Select the band (FM1 – 3, AM).



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



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



Note:

You can also use the ▲ (up) or ▼ (down) button on the unit to select the next or previous preset stations. Each time you press the ▲ (up) or ▼ (down) button, the next or previous preset station is tuned in.



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 favorite programme or traffic announcement while listening to another programme or to another source such as CD.

By receiving the RDS data, this unit can do the following:

- Tracing the same programme automatically (Network-Tracking Reception)
- Standby Reception of TA (Traffic Announcement) or your favorite programme
- PTY (Programme Type) search
- 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 page 19.)

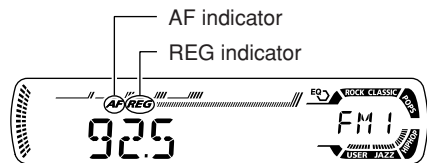
Two types of the RDS data are used to make Network-Tracking Reception work correctly —PI (Programme Identification) and AF (Alternative Frequency).

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 received 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 received 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.

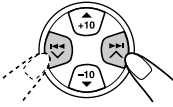




1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see pages 31 and 32.)



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.



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 TP/PTY 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 18) 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 TP/PTY again. The TP indicator disappears.



Using PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite 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.*

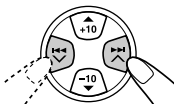
You can select your favorite programme type for PTY Standby Reception.

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 pages 31 and 32.)**



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



- 3 Select one of the twenty-nine PTY codes. (See page 19.)**



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

- 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 favorite programme

You can search any one of the PTY codes. In addition, you can store your 6 favorite 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).

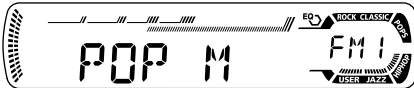
To store your favorite programme types, see below.

To search your favorite programme type, see page 17.

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

To store your favorite programme types

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



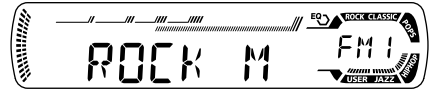
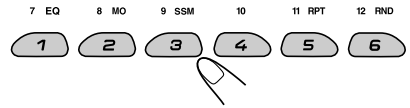
The last selected PTY code appears.

- 2 Select one of the twenty-nine PTY codes. (See page 19.)

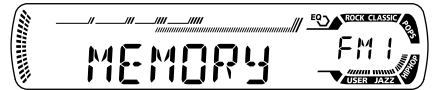


Selected code name appears on the display.

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



Selected PTY code and "MEMORY" appear alternately for a while.



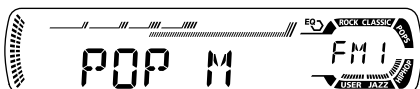
- 4 Press and hold T TP/PTY for more than 2 seconds to exit from this mode.





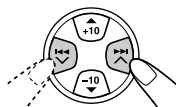
To search your favorite programme type

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



The last selected PTY code appears.

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

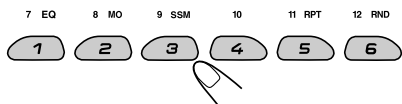


- If there is a station broadcasting a programme of the same PTY code as you selected, that station is tuned in.
- If there is no station broadcasting a programme of the same PTY code as you selected, the station will not change.

Note:

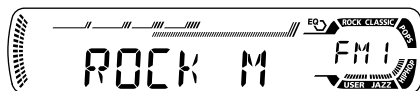
In some areas, the PTY search will not work correctly.

- 2 To select one of your favorite programme type



or

To select any one of the twenty-nine PTY codes.



Ex.: When "ROCK M" is selected



Other convenient RDS functions and adjustments

Automatic selection of the station when using the number buttons

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

However, when the preset station is an RDS station, something different will happen. If the signals from that preset station are not sufficient for good reception, this unit, using the AF data, tunes in 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 31.

- 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 31.

- 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 VOL” (volume).
- 3 Turn the control dial to set to the desired volume.
You can set it from “VOL 00” to “VOL 30” or “VOL 50” (depending on the amplifier gain control setting; see page 34).
- 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 31.

- 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.

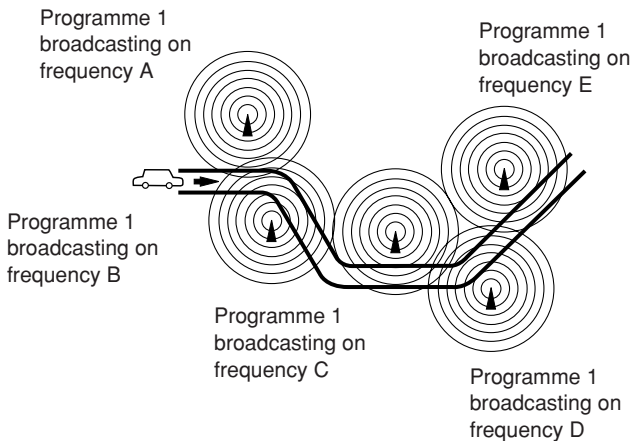
Note:

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

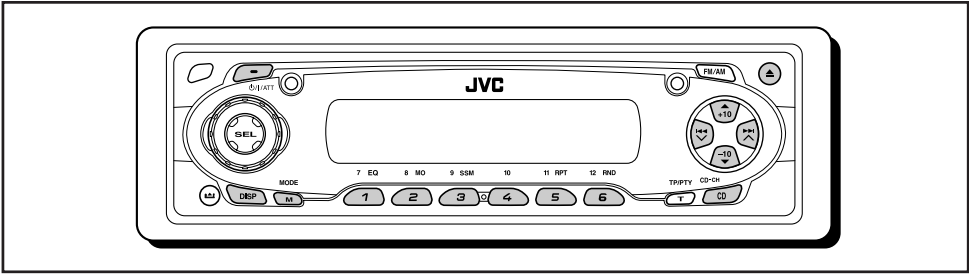
NEWS:	News	SOCIAL:	Programmes on social activities
AFFAIRS:	Topical programmes expanding on current news or affairs	RELIGION:	Programmes dealing with any aspect of belief or faith, or the nature of existence or ethics
INFO:	Programmes which impart advice on a wide variety of topics	PHONE IN:	Programmes 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		

The same programme can be received on different frequencies.





CD OPERATIONS

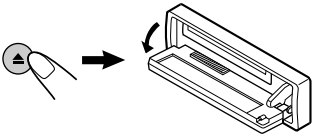


Refer “MP3/WMA OPERATIONS” on pages 25 to 28 for operating MP3/WMA discs.

The display changes to show the following:

Playing a CD

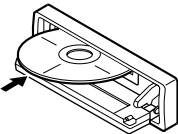
1 Open the control panel.



Note on One-Touch operation:

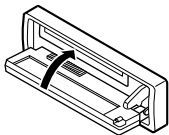
When a CD is already in the loading slot, pressing CD CD-CH turns on the unit and starts playback automatically.

2 Insert a CD into the loading slot.

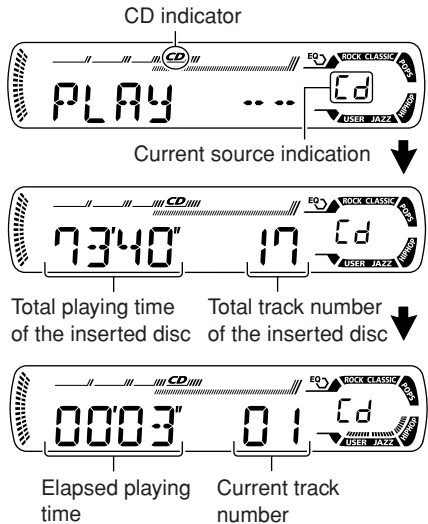


The unit turns on, draws the CD and starts playback automatically.

3 Close the control panel by hand.



All tracks will be played repeatedly until you stop playback.



Notes:

- When a CD is inserted upside down, the CD automatically ejects (if the control panel is open). If the control panel is closed, the source changes to the previously selected source, “PLEASE” and “EJECT” appear alternately on the display.
- If there is no CD in the loading slot, you cannot select CD as the source. “NO DISC” appears on the display.
- If the current disc is a CD Text, disc title/performer and then track title will automatically appear.



To stop play and eject the CD

Press ▲.

CD play stops and the control panel flips down. The CD automatically ejects from the loading slot. The source changes to the previously selected source.

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

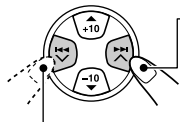
Next time you select "CD" as the source, CD play starts from where playback has been stopped previously.

Notes:

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

Locating a track or a particular portion on a CD

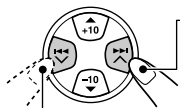
To fast-forward or reverse the track



Press and hold ►►► ▲, while playing a CD, to fast-forward the track.

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

To go to the next or previous tracks



Press ►►► ▲ briefly, while playing a CD, to go ahead to the beginning of the next track.

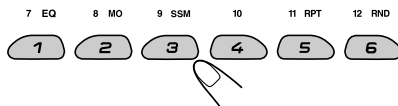
Each time you press the button consecutively, the beginning of the next tracks is located and played back.

Press ◀◀◀ ▼ briefly, while playing a CD, to go back to the beginning of the current track.

Each time you press the button consecutively, the beginning of the previous tracks is located and played back.

To go to a particular track directly

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



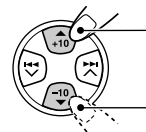
- To select a track number from 1 – 6:
Press 1 (7) – 6 (12) briefly.
- To select a track number from 7 – 12:
Press and hold 1 (7) – 6 (12) for more than one second.

To go to a track quickly (+10 and -10 buttons)

- 1 Press M MODE to enter the functions mode while playing a CD.



- 2 Press +10 or -10.



To skip 10 tracks* forwards to the last track

To skip 10 tracks* backwards to the first track

* First time you press +10 or -10 button, the track skips to the nearest higher or lower track with a track number of multiple ten (ex. 10th, 20th, 30th).

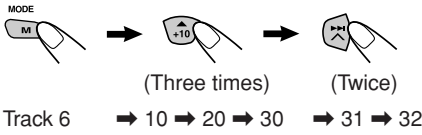
Then each time you press the button, you can skip 10 tracks (see "How to use the +10 and -10 buttons" on page 22).

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

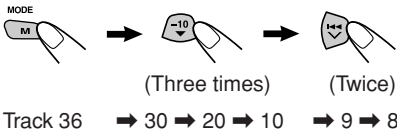


How to use the +10 and -10 buttons

- Ex. 1: To select track number 32 while playing track number 6

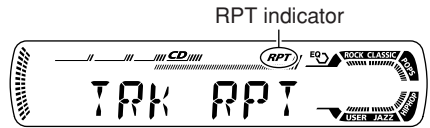
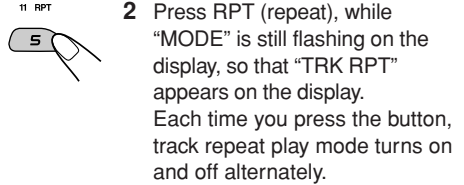
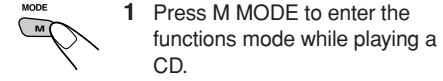


- Ex. 2: To select track number 8 while playing track number 36



To play back tracks repeatedly (Track Repeat Play)

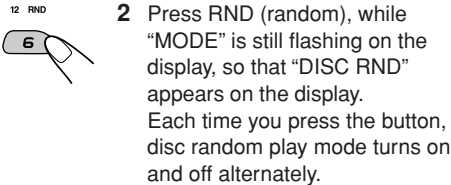
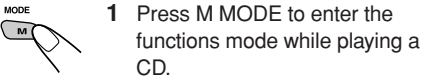
You can play back the current track repeatedly.



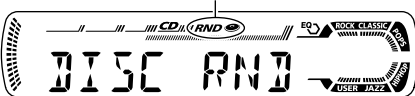
Selecting CD playback modes

To play back tracks at random (Disc Random Play)

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



RND and (disc) indicators



When disc random play is turned on, the RND and indicators light up on the display. A track randomly selected starts playing.

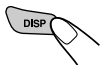
When track repeat play is turned on, the RPT indicator lights up on the display. The current track starts playing repeatedly.



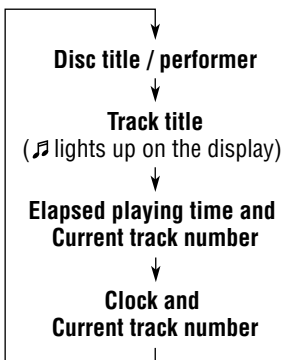
Playing a CD Text

In a CD Text, some information about the disc (its disc title, performer, and track title) is recorded. This CD Text information will be shown automatically when you play a CD Text.

To change the CD Text information manually, select text display mode while playing a CD Text.



Press DISP (display) repeatedly. Each time you press the button, the display changes as follows:



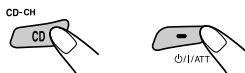
Notes:

- The display shows up to 8 characters at one time and scrolls if there are more than 8 characters. See also "To select the scroll mode—SCROLL" on page 33. Some characters or symbols will not be shown (and be blanked) on the display. (Ex. "ABC&!d#" ⇔ "ABCA D ")
- When you press DISP (display) while playing a conventional CD, "NO NAME" appears for the disc title/performer and the track title.
- When track title is shown, the Tr indicator and current track number also appear on the right side of the display.

Prohibiting disc ejection

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

While pressing CD CD-CH, press and hold ϕ /I/ATT for more than 2 seconds.



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



To cancel the prohibition and unlock the disc

While pressing CD CD-CH, press and hold ϕ /I/ATT again for more than 2 seconds. "EJECT OK" flashes on the display for about 5 seconds, and the disc is unlocked.



What are MP3/WMA?

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*).

WMA (Windows Media® Audio) is the digital audio compression format developed by Microsoft Corporation.

* *Bit rate is the average number of bits that one second of audio data will consume. The unit used is Kbps. To get a better audio quality, choose a higher bit rate. The most popular bit rate for encoding is 128 Kbps.*

- For details information about the MP3/WMA discs, refer to “A Guide to MP3/WMA” (separate volume).

Compatible with ID3 Tag

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/WMA file.

This unit can show both ID3v1 (Version 1) and ID3v2 (Version 2) tags on the display. (See page 26.)

- Some characters cannot be shown correctly.
- If both ID3v1 and ID3v2 are recorded on a disc, ID3v2 information will be shown.

How are MP3/WMA files recorded and played back?

MP3/WMA “files (tracks)” can be recorded in “folders” —in PC terminology.

During recording, the files and folders can be arranged in a way similar to arranging files and folders of computer data.

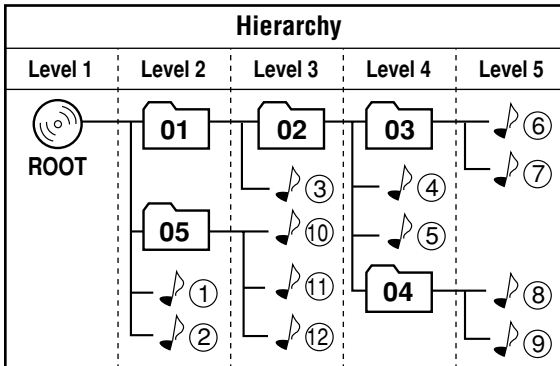
“Root” is similar to the root of a tree. Every file and folder can be linked to and be accessed from the root.



The illustration below shows an example of how MP3/WMA files are recorded on a CD-R or CD-RW, how they are played back, and how they are searched for on this unit.

Notes:

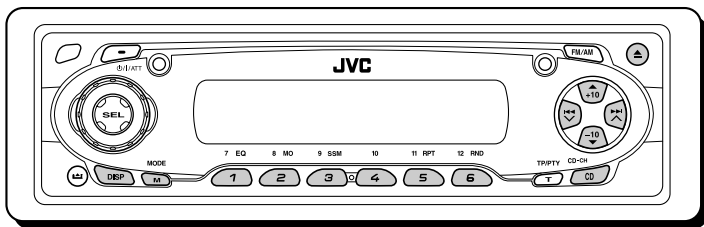
- This unit cannot read or play an MP3 file without the extension code <.mp3> and a WMA track without the extension code <.wma>.
- This unit is not compatible with MP3 files encoded with Layer 1 and Layer 2 formats.
- This unit is not compatible with WMA files which are not based upon Windows Media® Audio.
- This 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.



 01	: Folder and their playback order
 1	: MP3/WMA files and their playback order

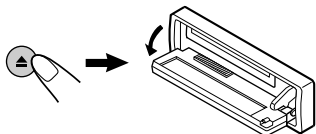
• Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.



Refer also to "CD OPERATIONS" on pages 20 to 23.

Playing a disc

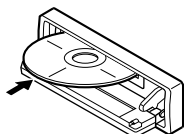
1 Open the control panel.



Note on One-Touch operation:

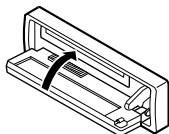
When a disc is already in the loading slot, pressing CD CD-CH turns on the unit and starts playback automatically.

2 Insert a disc into the loading slot.



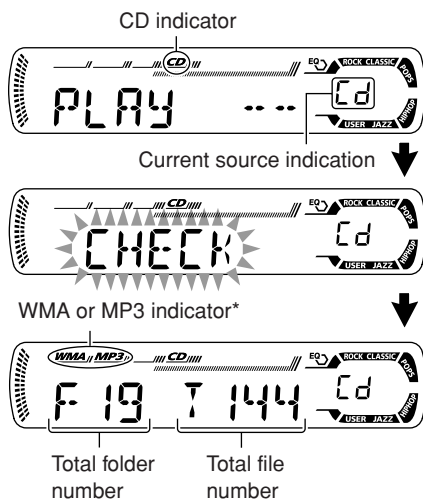
The unit turns on, draws the disc and starts playback automatically.

3 Close the control panel by hand.



All files will be played repeatedly until you stop playback.

The display changes to show the following:



Ex.: When the disc contains 19 folders and 144 MP3/WMA files

* WMA or MP3 indicator lights up depending on the first detected file.

Notes:

- MP3/WMA discs require a longer readout time. (It differs due to the complexity of the folder/file configuration.)
- When playback starts, folder and file names (or ID3 tags) will automatically appear. (See also page 26.)
- If you change the source or turn the power off, disc playback stops (without ejecting the disc). Next time you select the CD player as the source or turn the power on, disc play starts from where playback has been stopped previously.

To stop play and eject the disc

Press **▲**.
Playback stops and the control panel flips down.
The disc automatically ejects from the loading slot.

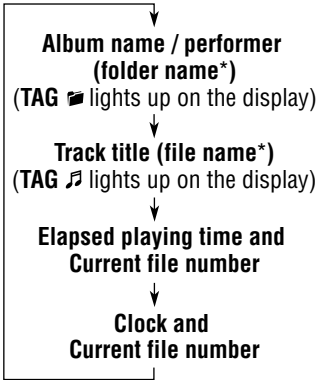
To change the display information

While playing back an MP3/WMA file, you can change the disc information shown on the display.



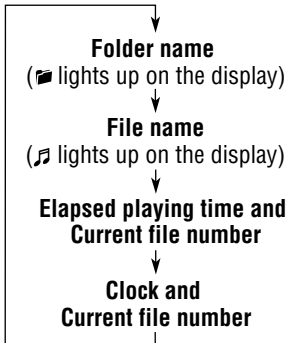
Press **DISP** (display) repeatedly.
Each time you press the button,
the display changes to show the
following:

- When “TAG DISP” is set to “TAG ON”
(initial setting: see page 34)



* If ID3 tags are not recorded, folder name and file name appear. In this case, the TAG indicator will not light up on the display.

- When “TAG DISP” is set to “TAG OFF”

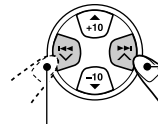


Notes:

- The display shows up to 8 characters at a time and scrolls if there are more than 8 characters.
See also “To select the scroll mode—SCROLL” on page 33.
- When folder or file name is shown, current folder number or the Tr indicator and current file number also appear on the right side of the display.

Locating a file or a particular portion on a disc

To fast-forward or reverse the file



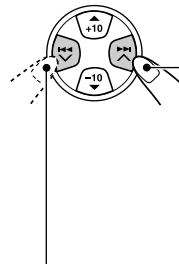
Press and hold **▶▶** **▲** while playing a disc, to fast-forward the file.

Press and hold **◀◀** **▼** while playing a 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.

Press **◀◀** **▼** briefly, while playing, to skip back to the beginning of the current file.

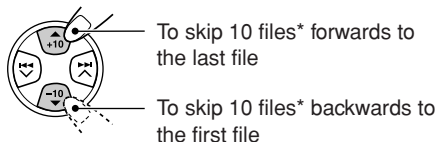
Each time you press the button consecutively, the beginning of the previous files is located and played back.

To go to a particular file quickly within the current folder (+10 and -10 buttons)

- 1 Press M MODE to enter the functions mode while playing a disc.



- 2 Press +10 or -10.



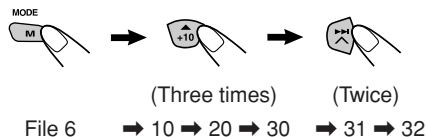
* First time you press +10 or -10 button, the file skips to the nearest higher or lower file with a file number of multiple ten (ex. 10th, 20th, 30th).

Then each time you press the button, you can skip 10 files (see "How to use the +10 and -10 buttons" below).

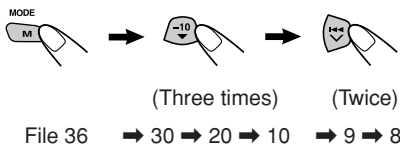
- After the last file, the first file will be selected, and vice versa.

How to use the +10 and -10 buttons

- Ex. 1: To select file number 32 while playing file number 6



- Ex. 2 : To select file number 8 while playing file number 36



To go to a particular folder directly

IMPORTANT:

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

Ex.: If folder name is "01 ABC"

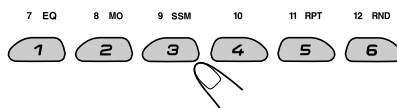
→ Press 1 to go to Folder 01 ABC.

If folder name is "1 ABC," pressing 1 does not work.

If folder name is "12 ABC"


→ Press and hold 6 (12) to go to Folder 12 ABC.

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



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

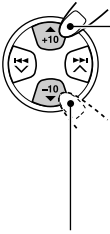
Notes:

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

To select a particular file in a folder, press

▶▶| ▲ or ◀◀| ▼ after selecting the folder.

To skip to the next or previous folder



Press ▲ (up) while playing a disc to skip to the next folder. Each time you press the button consecutively, the next folder is located (and the first file in the folder starts playing, if recorded).

Press ▼ (down) while playing a disc to skip back to the previous folder.

Each time you press the button consecutively, the previous folder is located (and the first file in the folder starts playing, if recorded).

Note:

If the folder does not contain any MP3/WMA files, it is skipped.

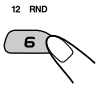
Selecting playback modes

To play back files at random (Folder Random/Disc Random Play)

You can play back all files of the current folder or all files on the disc at random.



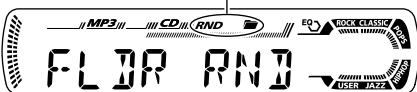
1 Press M MODE to enter the functions mode while playing a disc.



2 Press RND (random), while "MODE" is still flashing on the display, so that "FLDR RND" or "DISC RND" appears on the display. Each time you press the button, the random play mode changes as follows:



RND and (folder) indicators



Ex.: When you select "FLDR RND" while listening to an MP3 file

Mode	Active indicator	Plays at random
FLDR RND	RND and indicators light up.	All files of the current folder, then files of the next folder and so on.
DISC RND	RND and indicators light up.	All files on the disc.

To play back files repeatedly (Track Repeat/Folder Repeat Play)

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



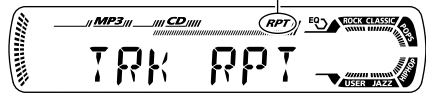
1 Press M MODE to enter the functions mode while playing a disc.



2 Press RPT (repeat), while "MODE" is still flashing on the display, so that "TRK RPT" or "FLDR RPT" appears on the display. Each time you press the button, the repeat play mode changes as follows:



RPT indicator



Ex.: When you select "TRK RPT" while listening to an MP3 file

Mode	Active indicator	Plays repeatedly
TRK RPT	RPT indicator lights up.	The current (or specified) file.
FLDR RPT	and RPT indicators light up.	All files of the current (or specified) folder.



Selecting preset sound modes (C-EQ: custom equalizer)

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

- 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 M MODE to enter the functions mode.



2 Press EQ (equalizer) while "MODE" is still flashing on the display.



You can confirm the current sound mode.

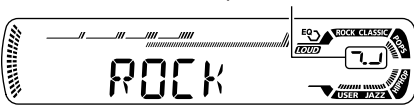
3 Select the sound mode you want.



Each time you press the button, the sound modes change as follows:



Indication pattern changes for each sound mode except for "USER."



Ex.: When you select "ROCK"

Indication	For:	Preset values		
		BAS	TRE	LOUD
USER	(Flat sound)	00	00	OFF
ROCK	Rock or disco music	+03	+01	ON
CLASSIC	Classical music	+01	-02	OFF
POPS	Light music	+04	+01	OFF
HIP HOP	Funk or rap music	+02	00	ON
JAZZ	Jazz music	+02	+03	OFF

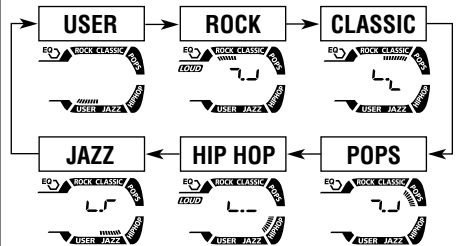
Note:

You can adjust each sound mode to your preference. Once you make an adjustment, it is automatically stored for the currently selected sound mode. See "Adjusting the sound" on page 30.

When using the remote controller:



Press SOUND repeatedly. Each time you press the button, the sound modes change as follows:





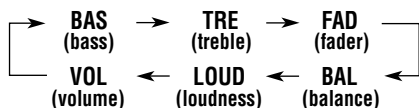
Adjusting the sound

You can adjust the sound characteristics to your preference.

1 Select the item you want to adjust.



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



Indication	To do:	Range
BAS* ¹	Adjust the bass.	-06 (min.) +06 (max.)
TRE* ¹	Adjust the treble.	-06 (min.) +06 (max.)
FAD* ²	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)
LOUD* ¹	Boost low and high frequencies to produce a well-balanced sound at low volume level.	LOUD ON LOUD OFF
VOL* ³	Adjust the volume.	00 (min.) 30 or 50 (max.)* ⁴

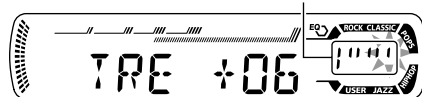
- *1 When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (C-EQ) including "USER."
- *2 If you are using a two-speaker system, set the fader level to "00."
- *3 Normally the control dial work as the volume control. So you do not have to select "VOL" to adjust the volume level.
- *4 Depending on the amplifier gain control setting. (See page 34 for details.)

2 Adjust the setting.

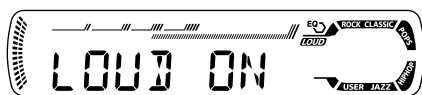


To increase the level or turn on the loudness
To decrease the level or turn off the loudness

Indication pattern changes as you adjust the bass or treble.



Ex. 1: When you adjust "TRE" (treble)



Ex. 2: When you turn on the loudness

3 Repeat steps 1 and 2 to adjust the other items.

To reset each sound mode to the factory settings, repeat the same procedure and reassign the preset values listed in the table on page 29.

OTHER MAIN FUNCTIONS



Changing the general settings (PSM)

You can change the items listed in the table below and on page 32 by using the PSM (Preferred Setting Mode) control.

3 Adjust the PSM item selected.



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

5 Finish the setting.

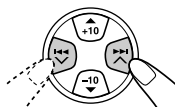


Basic Procedure

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (See below and page 32.)



2 Select the PSM item you want to adjust.



Preferred Setting Mode (PSM) items

• For detailed operations of each PSM items, refer to the pages listed in the table.

Indications		Selectable values/items		Factory-preset settings	See page
DEMO	Display demonstration	DEMO OFF	DEMO ON	DEMO ON	8
CLOCK H	Hour adjustment	0 — 23 (1 — 12)		0 (0:00)	9
CLOCK M	Minute adjustment	00 — 59		00 (0:00)	
COLOR	Display color	(See page 33.)		ALL DEMO	33
24H/12H	24/12-hour time display	12H	24H	24H	9
AUTO ADJ	Automatic clock setting	OFF	ON	ON	18
AF-REG	Alternative frequency/ Regionalization reception	AF ↙	↔ AF REG OFF ↗	AF	13, 14

CONTINUED ON THE NEXT PAGE



Indications		Selectable values/items		Factory-preset settings	See page	
PTY STBY	PTY standby	OFF → 29 programme types (see page 19) ↑		OFF	15	
TA VOL	Traffic announcement volume	VOL 00 — VOL 30 or 50*1		VOL 20	18	
P-SEARCH	Programme search	OFF	ON	OFF	18	
LEVEL	Level display	OFF	ON	ON	33	
DIMMER	Dimmer mode	AUTO ↙	↔ ON	OFF ↗	AUTO	33
TEL	Telephone muting	OFF ↙	↔ MUTING 2	MUTING 1 ↗	OFF	33
SCROLL	Scroll mode	ONCE ↙	↔ OFF	AUTO ↗	ONCE	33
EXT IN*2	External component	CHANGER	LINE IN	CHANGER	34	
TAG DISP	Tag display	TAG OFF	TAG ON	TAG ON	34	
AMP GAIN	Amplifier gain control	LOW PWR	HIGH PWR	HIGH PWR	34	

*1 Depending on the amplifier gain control setting. (See page 34 for details.)

*2 Displayed only when one of the following sources is selected—FM, AM, and CD.



To select the display color—COLOR

You can select the color of the display according to your preference.

When shipped from the factory, “ALL DEMO” is selected.

The selectable colors are as follows:

ALL DEMO ⇄ SOURCE ⇄ BLUE ⇄
OCEAN ⇄ PURPLE ⇄ PINK ⇄ ROSE ⇄
RED ⇄ (back to the beginning)

- ALL DEMO: The display color changes every 6 seconds (rose → pink → ocean → red → purple → blue → back to the beginning).
- SOURCE: The display color is fixed to red while listening to FM or AM, blue while listening to CD, and purple while listening to external component.

To select the level meter—LEVEL

You can activate or deactivate the level meter according to your preference.

When shipped from the factory, level meter is activated.

- ON: Shows the audio level indicator.
- OFF: Cancels the audio level indicator; sound mode indicator is shown.

To select the dimmer mode—DIMMER

When you turn on the car headlights, 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—TEL

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

To select the scroll mode—SCROLL

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

When shipped from the factory, scroll mode is set to “ONCE.”

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

Note:

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



To select the external component to use —EXT IN

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

To use the external component as the playback source through this unit, you need to select which component—CD changer or external component—to use.

When shipped from the factory, CD changer is selected as the external component.

- CHANGER: To use the CD changer.
- LINE IN: To use the external component other than CD changer.

Note:

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

To turn the tag display on or off —TAG DISP

An MP3/WMA 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). If both ID3v1 and ID3v2 are recorded on a disc, ID3v2 information will be shown. When shipped from the factory, “TAG ON” is selected.

- TAG ON: Turns on the ID3 tag display while playing MP3/WMA files.
 - If an MP3/WMA file does not have ID3 tags, folder name and file name appear.
- TAG OFF: Turns off the ID3 tag display while playing MP3/WMA files. (Only the folder name and file name can be shown.)

To select the amplifier gain control —AMP GAIN

You can change the maximum volume level of this unit. When the maximum power of the speakers is less than 50 W, select “LOW PWR” to prevent them from being damaged. When shipped from the factory, “HIGH PWR” is selected.

- LOW PWR: You can adjust the volume level from “VOL 00” to “VOL 30.”

Note:

If you change the setting from “HIGH PWR” to “LOW PWR” while listening at a volume level more than 30, the unit automatically changes the volume level to “VOL 30.”

- HIGH PWR: You can adjust the volume level from “VOL 00” to “VOL 50.”

Assigning names to the source

You can assign names to CDs (both in this unit and in the CD changer). After assigning a name, it will appear on the display when you select the source.

Source	Maximum number of characters
CDs*	Up to 32 characters (up to 40 discs)

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

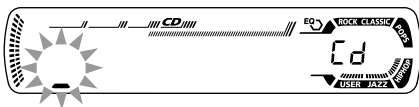
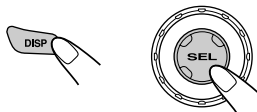
1 Select a source you want to assign a name to.



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



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



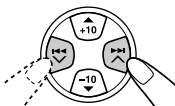
Ex.: When you select CD as the source

3 Select a character.



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

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



5 Repeat steps 3 and 4 until you finish entering the name.

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



Notes:

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

Changing the standard plate

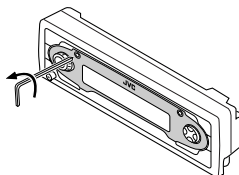
You can change the standard plate with another plate supplied with your unit.

You can also download them by visiting

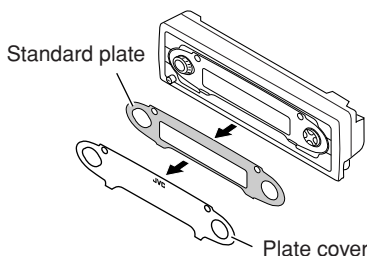
<<http://www.jvc.co.jp/jvccar>>.

- When changing the plate, be careful not to leave your fingerprints on the plate or cover.

1 Loosen the screws with the supplied hex screwdriver.



2 Remove the plate cover and the standard plate.



To erase the input characters

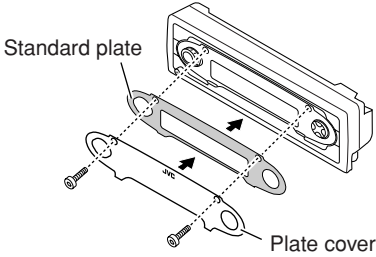
To erase all the characters at a time, press and hold DISP (display) for more than 1 second as described in the procedure above.

CONTINUED ON THE NEXT PAGE



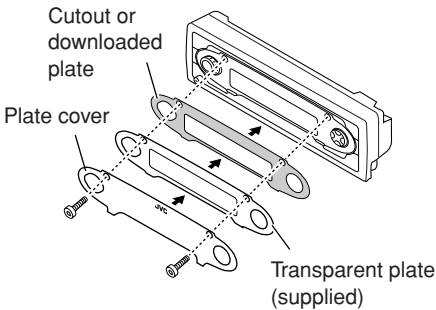
3 Replace with another plate (a standard, cutout, or downloaded plate) of your preference.

- When attaching a standard plate



- When attaching a cutout or downloaded plate

Add the transparent plate (supplied) between the cutout or downloaded plate and the plate cover in order to attach the plate cover in place.

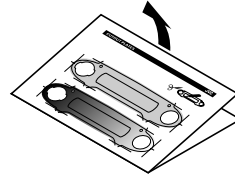


Notes:

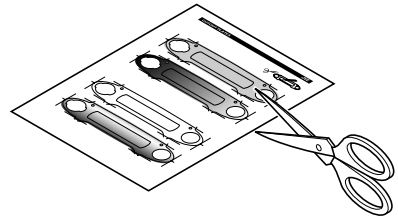
- Be sure to keep the hex screwdriver for future use.
- Two spare screws for the plate cover attachment are provided with the unit. See the Installation/Connection Manual (separate volume).
- When you attach the plate cover, do not tighten the screws too hard; otherwise, the plate cover might be cracked.

How to use the cutout plates

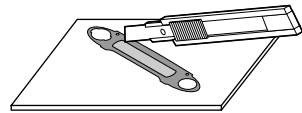
- 1 Unfold the supplied cutout plates.



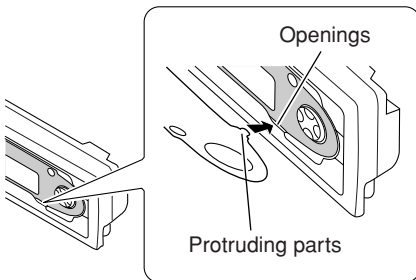
- 2 Cut the plates out using a scissors.



- 3 Trim out the window and two knobs using a knife on a rubber mat.



When attaching the plate cover



Ensure the two protruding parts at the bottom of the plate cover are inserted into the two openings on the control panel, as illustrated.



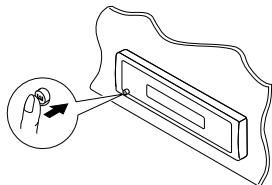
Detaching the control panel

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.

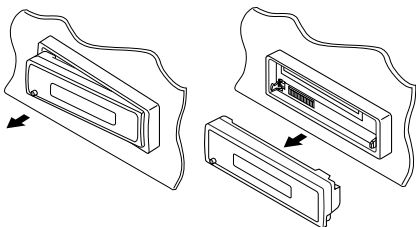
Detaching the control panel

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

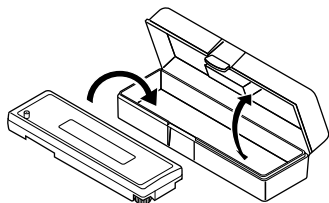
- 1** Unlock the control panel.



- 2** Pull the control panel out of the unit.

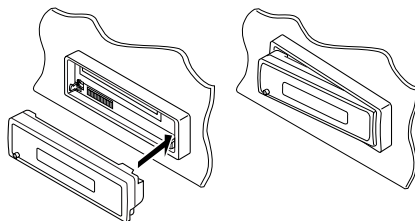


- 3** Put the detached control panel into the provided case.

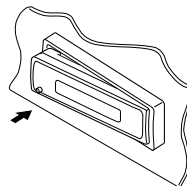


Attaching the control panel

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

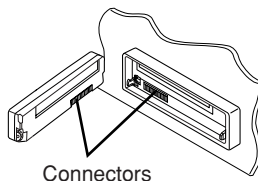


- 2** Press the left side of the control panel to fix it to the panel holder.



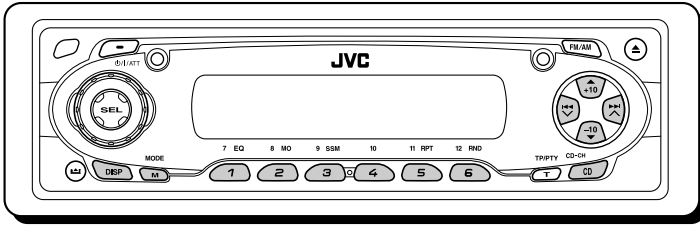
Note on cleaning the connectors:

If you frequently detach the control panel, the connectors will deteriorate.
To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.





CD CHANGER OPERATIONS



We recommend that you use the JVC MP3-compatible CD changer with your unit.

By using this CD changer, you can play back your original CD-Rs (Recordable) and CD-RWs (Rewritable) recorded either in audio CD format or in MP3 format.

- You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). However, they are not compatible with MP3 discs, so you cannot play back MP3 discs.
- You cannot use the KD-MK series CD changers with this unit.

Before operating your CD changer:

- Refer also to the Instructions supplied for 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 no magazine is loaded in the CD changer, "NO MAG" appears on the display. If this happens, insert the magazine in the CD changer.
- 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.

Note:

You cannot control and play any WMA disc on the CD changer.

Playing discs

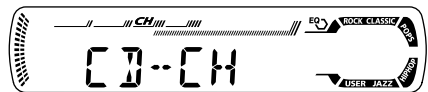
Select the CD changer (CD-CH).



* If you have changed "EXT IN" setting to "LINE IN" (see page 34), you cannot select the CD changer.

When the current disc is an MP3 disc:

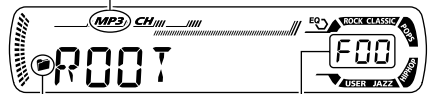
Playback starts from the first folder of the current disc once file check is completed.



Selected disc number



MP3 indicator



(folder) indicator

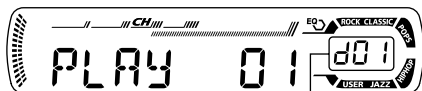
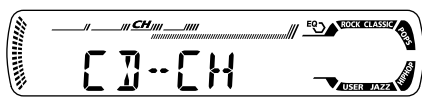
Selected folder number

Note:

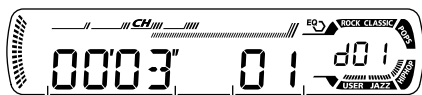
Folder name appears on the display instead of "ROOT," if an MP3 disc contains a folder.

• **When the current disc is a CD:**

Playback starts from the first track of the current disc.



Selected disc number



Elapsed playing time

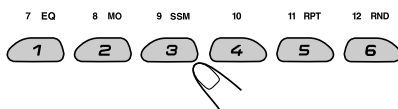
Current track number

Notes:

- When you press CD CD-CH, the power automatically comes on. You do not have to press **⏻/ATT** to turn on the power.
- If you change the source, CD changer play also stops. Next time you select the CD changer as the source, CD changer play starts from where playback has been stopped previously.
- When you start playing back a CD Text or MP3 disc, disc information will automatically appear on the display. (See pages 23 and 26.)

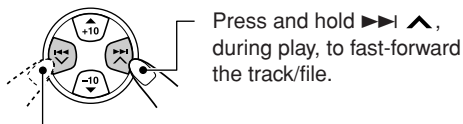
To go to a particular disc directly

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 one second.

To fast-forward or reverse the track/file



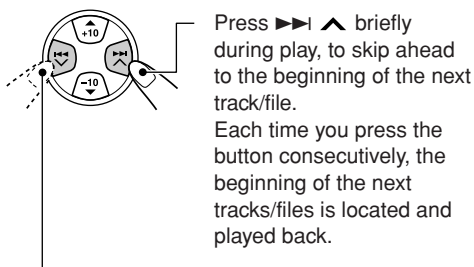
Press and hold **▶▶▶ ▲**, during play, to fast-forward the track/file.

Press and hold **◀◀◀ ▼**, during play, to reverse the track/file.

Note:

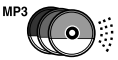
During this operation, you can only hear intermittent sounds. (The elapsed playing time also changes intermittently on the display.)

To skip to the next or previous tracks/files



Press **▶▶▶ ▲** briefly during play, to skip ahead to the beginning of the next track/file. Each time you press the button consecutively, the beginning of the next tracks/files is located and played back.

Press **◀◀◀ ▼** briefly during play, to skip back to the beginning of the current track/file. Each time you press the button consecutively, the beginning of the previous tracks/files is located and played back.



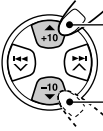
This operation is only possible when using JVC MP3-compatible CD changer (CH-X1500).

To go to a track/file quickly (+10 and -10 buttons)

- 1 Press M MODE to enter the functions mode while playing a disc.



- 2 Press +10 or -10.



To skip 10 tracks/files* forwards to the last track/file

To skip 10 tracks/files* backwards to the first track/file

* First time you press +10 or -10 button, the track/file skips to the nearest higher or lower track/file with a track/file number of multiple ten (ex. 10th, 20th, 30th).

Then each time you press the button, you can skip 10 tracks/files (see "How to use the +10 and -10 buttons" below).

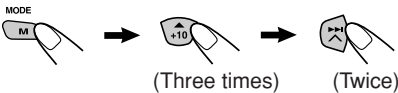
- After the last track/file, the first track/file will be selected, and vice versa.

Note:

If the current playing disc is an MP3 disc, files are skipped within the same folder.

How to use the +10 and -10 buttons

- Ex. 1: To select track/file number 32 while playing track/file number 6



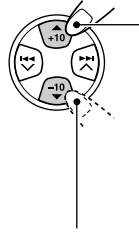
Track/File 6 → 10 → 20 → 30 → 31 → 32

- Ex. 2: To select track/file number 8 while playing track/file number 36



Track/File 36 → 30 → 20 → 10 → 9 → 8

To skip to the next or previous folder (only for MP3 discs)



Press ▲ (up) while playing an MP3 disc, to go to the next folder.

Each time you press the button consecutively, the next folder is located, and the first file in the folder starts playback.

Press ▼ (down) while playing an MP3 disc, to go to the previous folder.

Each time you press the button consecutively, the previous folder is located, and the first file in the folder starts playback.

To show the disc information for CD Text and MP3 discs

This is possible only when connecting a JVC CD changer equipped with CD Text and/or MP3 disc information reading capability.

Select text display mode while playing a CD Text or an MP3 disc.



- For details, see page 23 about CD Text disc information and page 26 about MP3 disc information.

Selecting the playback modes

To play back tracks/files at random (Folder Random/Disc Random/Magazine Random Play)

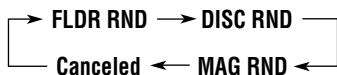


1 Press M MODE to enter the functions mode during play.

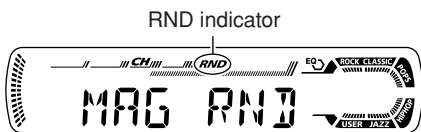


2 Press RND (random), while "MODE" is still flashing on the display. Each time you press the button, the random play mode changes as follows:

For MP3 discs:



For CDs:



Ex.: When you select "MAG RND"

Note:

MP3 indicator also lights up if the current playing disc is an MP3 disc.

Mode	Active indicator	Plays at random
FLDR RND*	RND and indicators light up.	All files of the current folder, then files of the next folder and so on.
DISC RND	RND and indicators light up.	All tracks/files of the current (or specified) disc.
MAG RND	RND indicator lights up.	All tracks/files of the inserted discs.

* "FLDR RND" is only applicable for MP3 discs.

To play back tracks/files repeatedly (Track Repeat/Folder Repeat/Disc Repeat Play)

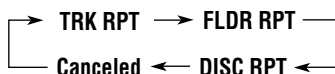


1 Press M MODE to enter the functions mode during play.



2 Press RPT (repeat), while "MODE" is still flashing on the display. Each time you press the button, the repeat play mode changes as follows:

For MP3 discs:



For CDs:



(disc) and RPT indicators



Ex.: When you select "DISC RPT"

Note:

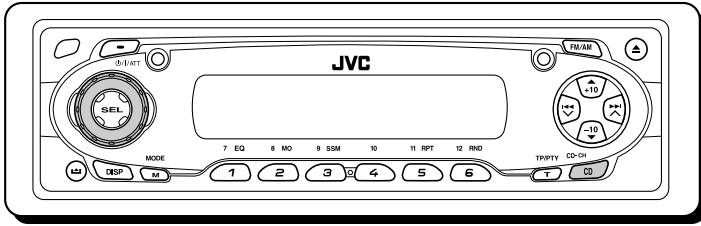
MP3 indicator also lights up if the current playing disc is an MP3 disc.

Mode	Active indicator	Plays repeatedly
TRK RPT	RPT indicator lights up.	The current (or specified) track/file.
FLDR RPT*	and RPT indicators light up.	All files of the current (or specified) folder of the current disc.
DISC RPT	and RPT indicators light up.	All tracks/files of the current (or specified) disc.

* "FLDR RPT" is only applicable for MP3 discs.



EXTERNAL COMPONENT OPERATIONS



Playing an external component

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

Preparations:

- For connecting the Line Input Adapter KS-U57 and the external component, refer to the Installation/ Connection Manual (separate volume).
- Before operating the external component using the following procedure, select the external input correctly. See “To select the external component to use—EXT IN” on page 34.

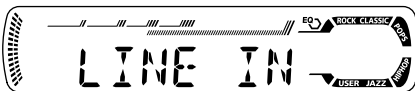
2 Turn on the connected component and start playing the source.

3 Adjust the volume.



4 Adjust the sound as you want. (See pages 29 and 30.)

1 Select the external component (LINE IN).



- If “LINE IN”^{*} does not appear on the display, see page 34 and select the external input (“LINE IN”).

^{*} Displayed only when one of the following sources is selected—FM, AM, and CD.

Note on One-Touch Operation:


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

TROUBLESHOOTING

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

	Symptoms	Causes	Remedies
General	<ul style="list-style-type: none"> • Sound cannot be heard from the speakers. 	The volume level is set to the minimum level.	Adjust it to the optimum level.
		Connections are incorrect.	Check the cords and connections.
	<ul style="list-style-type: none"> • This unit does not work at all. 	The built-in microcomputer may have functioned incorrectly due to noise, etc.	Press the reset button on the panel holder after detaching the control panel. (The clock setting and preset stations stored in memory are erased.) (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 aerial is not connected firmly.	Connect the aerial firmly.
Disc Playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	Disc is inserted upside down.	Insert the disc correctly.
	<ul style="list-style-type: none"> • CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped. 	CD-R/CD-RW is not finalized.	<ul style="list-style-type: none"> • Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
		Disc is locked.	Unlock the disc. (See page 23.)
	<ul style="list-style-type: none"> • Disc sound is sometimes interrupted. 	You are driving on rough roads.	Stop playback while driving on rough roads.
		Disc is scratched.	Change the disc.
		Connections are incorrect.	Check the cords and connections.
<ul style="list-style-type: none"> • "NO DISC" appears on the display. 	No disc in the loading slot.	Insert a disc into the loading slot.	
	Disc is inserted incorrectly.	Insert the disc correctly.	



	Symptoms	Causes	Remedies
MP3/WMA Playback	<ul style="list-style-type: none"> Disc cannot be played back. 	No MP3/WMA files are recorded on the disc.	Change the disc.
		MP3/WMA files do not have the extension code <.mp3> or <.wma> in their file names.	Add the extension code <.mp3> or <.wma> to their file names.
		MP3/WMA files are not recorded in the format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet.	Change the disc. (Record MP3/WMA files using a compliant application.)
	<ul style="list-style-type: none"> Noise is generated. 	The file played back is not an MP3/WMA file (although it has the extension code <.mp3> or <.wma>).	Skip to another file or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or non-WMA files.)
	<ul style="list-style-type: none"> A longer readout time is required ("CHECK" keeps flashing on the display). 	Readout time varies due to the complexity of the folder/file configuration.	Do not use too many hierarchies and folders.
	<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">  indicator flashes on the display. 	The current folder does not contain any MP3/WMA file.	Select another folder.
<ul style="list-style-type: none"> "NO FILES" appears on the display. 	The current disc does not contain any MP3/WMA file.	Insert a disc that contains MP3/WMA files.	
<ul style="list-style-type: none"> Correct characters are not displayed (e.g. album name). 	This unit can only display alphabets (capital: A–Z), numbers, and a limited number of symbols.	_____	



Symptoms	Causes	Remedies
<ul style="list-style-type: none"> • “NO DISC” appears on the display. 	No disc is in the magazine.	Insert discs into the magazine.
	Discs are inserted upside down.	Insert discs correctly.
<ul style="list-style-type: none"> • “NO MAG” appears on the display. 	No magazine is loaded in the CD changer.	Insert the magazine.
<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	This unit is not connected to the 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"> • The CD changer does not work at all. 	The built-in microcomputer may function incorrectly due to noise, etc.	Press the reset button on the panel holder after detaching the control panel. (The clock setting and preset stations stored in memory are erased.) (See page 2.)

CD Changer

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 play while driving on such rough roads.



MAINTENANCE

Handling discs

This unit has been designed to reproduce CDs, CD-Rs (Recordable), CD-RWs (Rewritable), and CD Texts.

- This unit is also compatible with MP3 and WMA discs.

How to handle discs

When removing a disc from its case,

press down the center holder of the case and lift the disc out, holding it by the edges.

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

Center holder



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 be played 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 CD player in the following cases:

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

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

When playing a CD-R or CD-RW

Before playing back CD-Rs or CD-RWs, read their instructions or cautions carefully.

- Use only “finalized” CD-Rs or CD-RWs.
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, and for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation on the lens inside the unit.
 - The pickup lens inside the unit is dirty.
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- CD-Rs or CD-RWs are susceptible to high temperatures or high humidity, so do not leave them inside your car.
- Do not use following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.

Using these discs under high temperatures or high humidity may cause malfunctions or damage to discs. For example,

- Stickers or labels may shrink and warp a disc.
- Stickers or labels may be peeled off so discs cannot be ejected.
- Print on discs may get sticky.

Read instructions or cautions about labels and printable discs carefully.

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, benzene, etc.) to clean discs.

Warped disc



Sticker



Sticker residue

Disc



Stick-on label

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)

Tone Control Range:

Bass: ± 10 dB at 100 Hz

Treble: ± 10 dB at 10 kHz

Frequency Response: 40 Hz to 20 000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Out Level/Impedance:

2.0 V/20 k Ω load (full scale)

Output Impedance: 1 k Ω

TUNER SECTION

Frequency Range:

FM1/FM2: 87.5 MHz to 108.0 MHz

FM3: 65.00 MHz to 74.00 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 Quietening Sensitivity:

16.3 dBf (1.8 μ V/75 Ω)

Alternate Channel Selectivity (400 kHz):

65 dB

Frequency Response: 40 Hz to 15 000 Hz

Stereo Separation: 30 dB

Capture Ratio: 1.5 dB

[MW Tuner]

Sensitivity: 20 μ V

Selectivity: 35 dB

[LW Tuner]

Sensitivity: 50 μ V

CD PLAYER SECTION

Type: Compact disc player

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

Number of channels: 2 channels (stereo)

Frequency Response: 5 Hz to 20 000 Hz

Dynamic Range: 96 dB

Signal-to-Noise Ratio: 98 dB

Wow and Flutter: Less than measurable limit

MP3 decoding format:

MPEG 1/2 Audio Layer 3

Max. Bit Rate: 320 Kbps

WMA (Windows Media[®] Audio) decoding format:

Max. Bit Rate: 192 Kbps

GENERAL

Power Requirement:

Operating Voltage:

DC 14.4 V (11 V to 16 V allowance)

Grounding System: Negative ground

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

Dimensions (W \times H \times D):

Installation Size (approx.):

182 mm \times 52 mm \times 150 mm

Panel Size (approx.):

188 mm \times 58 mm \times 12 mm

Mass (approx.):

1.4 kg (excluding accessories)

Design and specifications are subject to change without notice.

If you want some additional downloaded plates, you can download them by visiting <<http://www.jvc.co.jp/jvccar>>.



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

Refer to page of How to reset your unit

**Затруднения при эксплуатации?
Пожалуйста, перезагрузите Ваше
устройство**

Для получения информации о перезагрузке Вашего устройства обратитесь на соответствующую страницу

JVC

VICTOR COMPANY OF JAPAN, LIMITED



EN, RU

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1203KKSMdTJEIN

JVC KD-SC607

Installation/Connection Manual

Руководство по установке/подключению

GET0192-002A
[EE]

1203KKSMDTJEIN
EN, RU

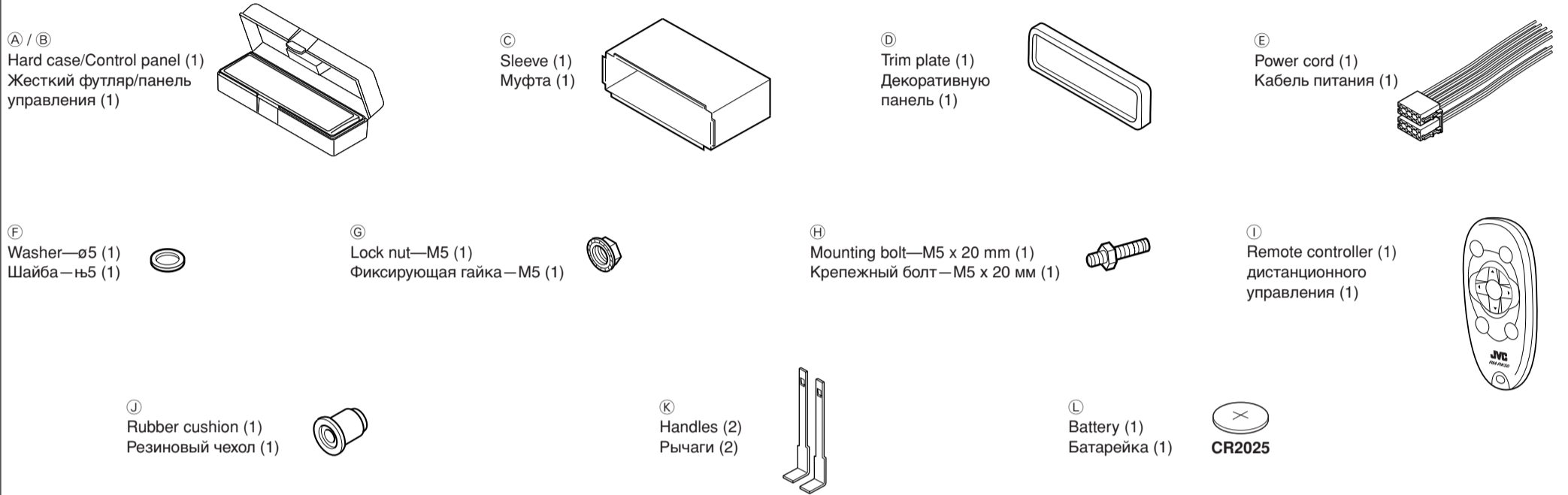
ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC IN-CAR ENTERTAINMENT dealers.

Parts list for installation and connection

The following parts are provided for this unit. The number in parentheses indicates the quantity of the pieces supplied.

After checking them, please set them correctly.



РУССКИЙ

Это устройство разработано для эксплуатации на **12 В постоянного напряжения с минусом на массе**. Если Ваш автомобиль не имеет этой системы, требуется инвертор напряжения, который может быть приобретен у дилера автомобильного специалиста JVC.

Список деталей для установки и подключения

Следующие детали поставлены в комплекте с устройством. Номер в скобках обозначает количество поставляемых деталей.

После проверки комплектации, пожалуйста, установите их правильно.

See pages 35 and 36 of the INSTRUCTIONS for the usage of the following parts.
ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ следующих деталей см. на страницах 35 и 36.

Additional standard plates (3) and transparent plate (1)
Дополнительные стандартные панели (3) и прозрачная наклейка (1)

Cutout plates (printed on the sheet) (4)
Трафареты панелей (напечатанные на листе) (4)

Hex screwdriver (1)
Шестигранная отвертка (1)

Spare screws for the plate cover attachment—M2 x 5 mm (2)
Запасные винты для прикрепления крышки панели—M2 x 5 мм (2)

INSTALLATION (IN-DASH MOUNTING)

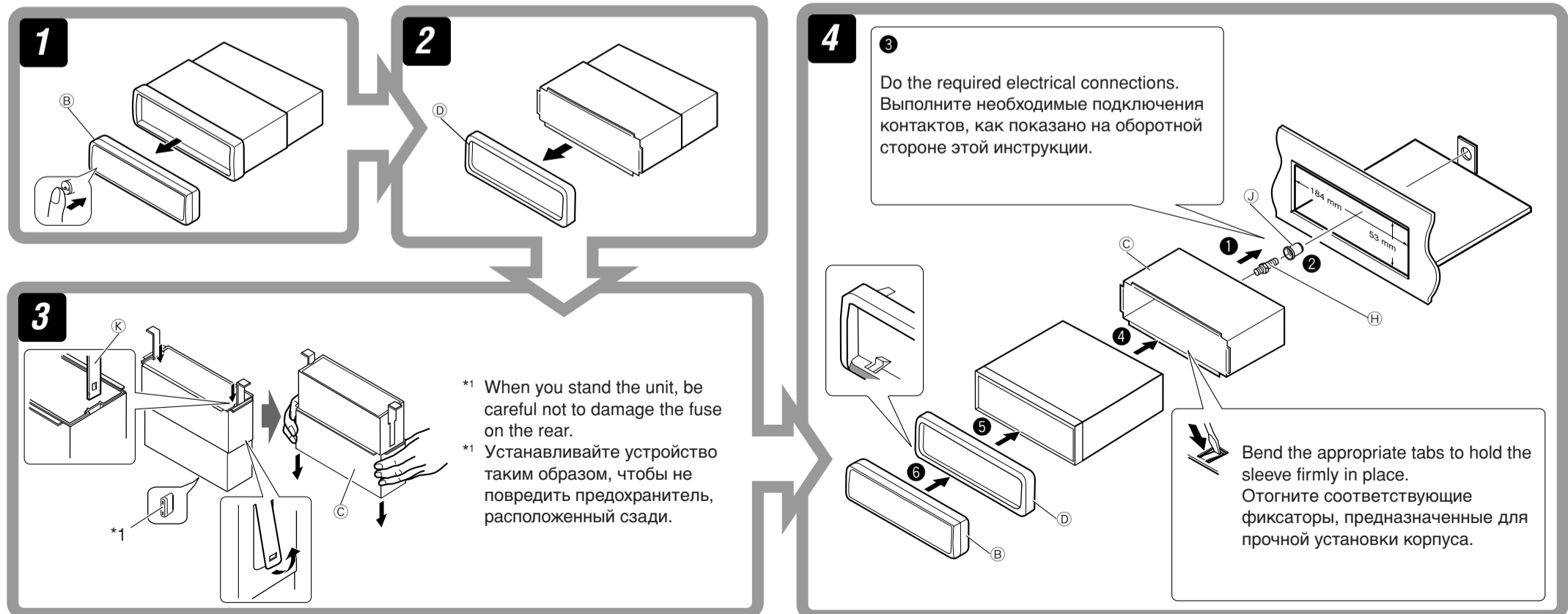
The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

УСТАНОВКА (УСТАНОВКА В ПРИБОРНУЮ ПАНЕЛЬ)

На следующих иллюстрациях показана типовая установка. Тем не менее, Вы должны сделать поправки в соответствии с типом Вашего автомобиля. Если у Вас есть какие-либо вопросы, касающиеся установки, обратитесь к Вашему дилеру автомобильного специалиста JVC или в компанию, поставляющую соответствующие принадлежности.

- Если Вы не знаете точно, как следует устанавливать это устройство, обратитесь к квалифицированному специалисту.

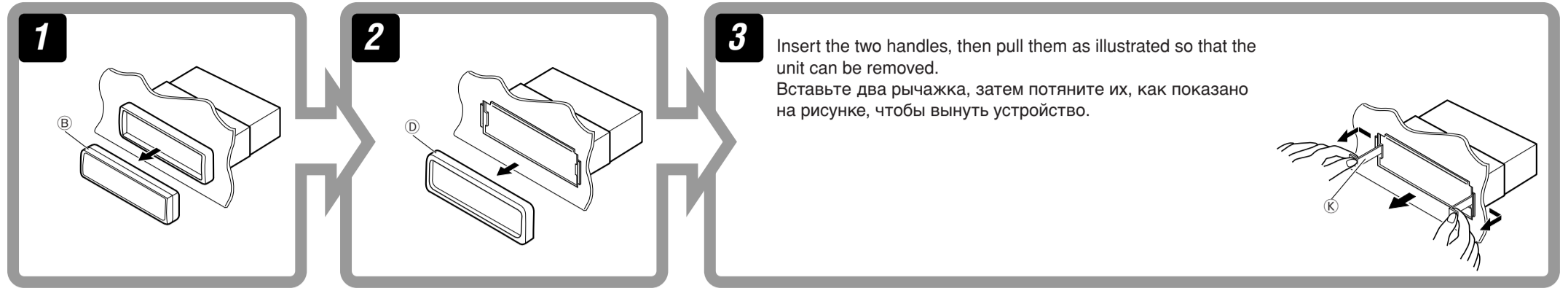


Removing the unit

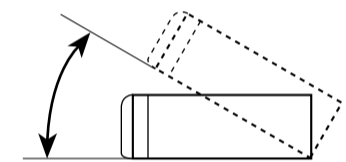
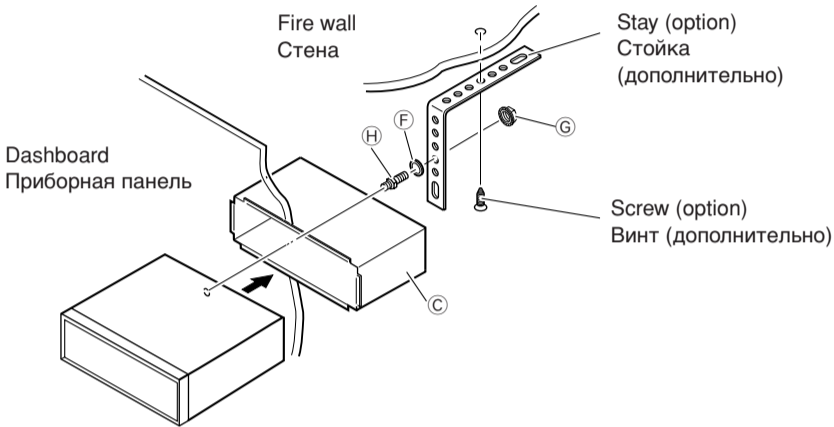
Before removing the unit, release the rear section.

Удаление устройства

Перед удалением устройства освободите заднюю часть.



When using the optional stay / При использовании дополнительной стойки

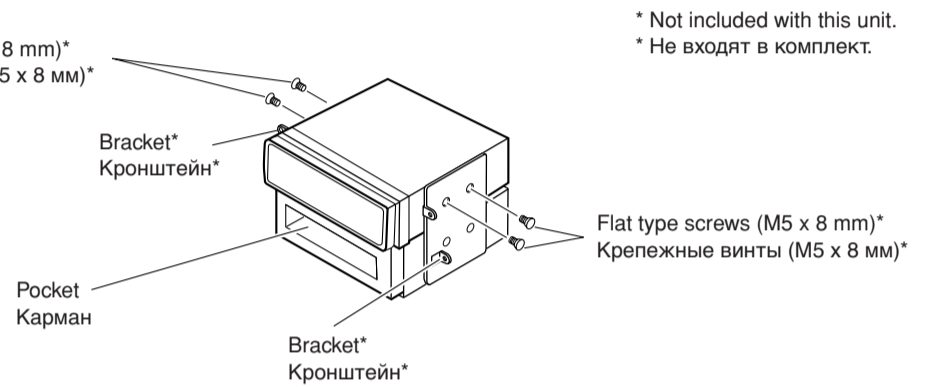


Install the unit at an angle of less than 30°.
Установите устройство под углом менее 30°.

When installing the unit without using the sleeve / При установке устройства без использования муфты

In a Toyota for example, first remove the car radio and install the unit in its place.
В автомобилях "Toyota", например, сначала удалите автомобильную магнитола, затем установите на ее место это устройство.

Flat type screws (M5 x 8 mm)*
Крепежные винты (M5 x 8 мм)*



* Not included with this unit.
* Не входят в комплект.

Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.
Примечание : При установке устройства на крепежный кронштейн, используйте только винты длиной 8 мм. При использовании более длинных винтов можно повредить устройство.

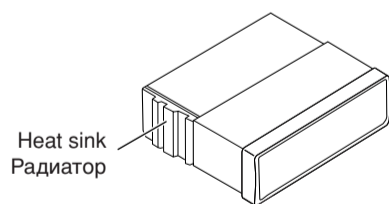
ELECTRICAL CONNECTIONS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

• **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
- It is recommended to connect to the speakers with maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 34 of the INSTRUCTIONS).
- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



ЭЛЕКТРИЧЕСКИЕ ПОДКЛЮЧЕНИЯ

Для предотвращения коротких замыканий мы рекомендуем Вам отсоединить отрицательный разъем аккумулятора и осуществить все подключения перед установкой устройства.

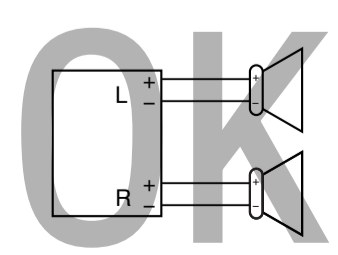
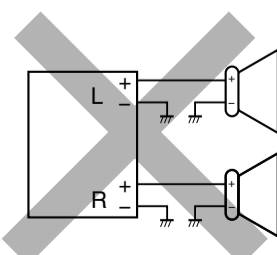
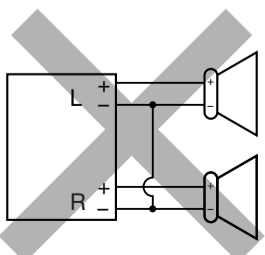
• **После установки обязательно заземлите данное устройство на шасси автомобиля.**

Примечания:

- Заменяйте предохранитель другим предохранителем указанного класса. Если предохранитель сгорает слишком часто, обратитесь к дилеру автомобильного специалиста JVC.
- Рекомендуется подключать динамики с максимальной мощностью более 50 Вт (к задней и передней панели устройства, с полным сопротивлением от **4 Ω до 8 Ω**). Если максимальная мощность динамиков менее 50 Вт, перейдите в режим "AMP GAIN", чтобы предотвратить их повреждение (см. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 34).
- Для предотвращения короткого замыкания заклейте НЕИСПОЛЬЗУЕМЫЕ концы изолирующей лентой.
- Радиатор во время использования сильно нагревается. Старайтесь его не трогать во время удаления устройства.

PRECAUTIONS on power supply and speaker connections:

- **DO NOT** connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.
- **BEFORE** connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



ПРЕДОСТЕРЕЖЕНИЯ по питанию и подключению громкоговорителей:

- **НЕ** подключайте провода громкоговорителей к аккумулятору автомобиля, иначе устройство будет повреждено.
- **ПЕРЕД** подключением проводов громкоговорителей к кабелю питания громкоговорителя проверьте схему соединений громкоговорителей в Вашем автомобиле.

A Typical Connections / Типичные подключения

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.

The leads of the power cord and those of the connector from the car body may be different in color.

- 1 Connect the colored leads of the power cord in the order specified in the illustration below.
- 2 Connect the aerial cord.
- 3 Finally connect the wiring harness to the unit.

Note: If your vehicle does not have any accessory terminal, move the fuse from the fuse position 1 (initial position) to fuse position 2, and connect the red lead (A7) to the positive (+) battery terminal.

• The yellow lead (A4) is not used in this case.

Перед началом подключений: Тщательно проверьте проводку в автомобиле.

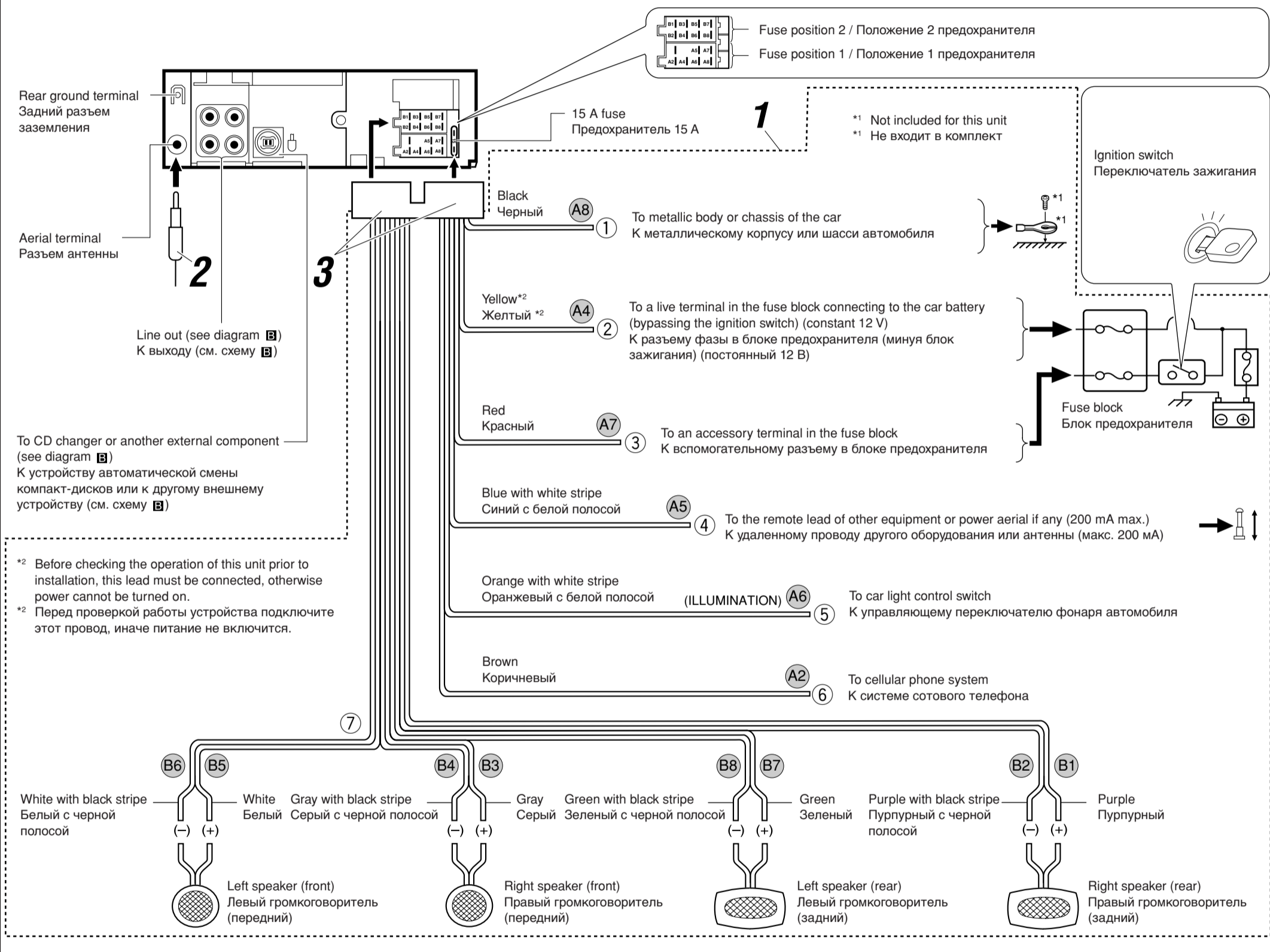
Неправильное подключение может привести к серьезному повреждению устройства.

Жилы силового кабеля и жилы соединителя от кузова автомобиля могут быть разного цвета.

- 1 Подсоедините цветные провода шнура питания в указанном ниже порядке.
- 2 Подключите кабель антенны.
- 3 В последнюю очередь подключите электропроводку к устройству.

Примечание: Если в Вашем автомобиле никакого вспомогательного разъема не имеется, переставьте предохранитель из положения 1 предохранителя (первоначальное положение) в положение 2 предохранителя и подключите красный провод (A7) к положительному (+) полюсу аккумулятора.

• Желтый провод (A4) в этом случае не используется.



TROUBLESHOOTING

- **The fuse blows.**
 - * Are the red and black leads connected correctly?
- **Power cannot be turned on.**
 - * Is the yellow lead connected?
- **No sound from the speakers.**
 - * Is the speaker output lead short-circuited?
- **Sound is distorted.**
 - * Is the speaker output lead grounded?
 - * Are the “-” terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
 - * Is the rear ground terminal connected to the car’s chassis using shorter and thicker cords?
- **Unit becomes hot.**
 - * Is the speaker output lead grounded?
 - * Are the “-” terminals of L and R speakers grounded in common?

ВЫЯВЛЕНИЕ НЕИСПРАВНОСТЕЙ

- **Сработал предохранитель.**
 - * Правильно ли подключены черный и красный провода?
- **Питание не включается.**
 - * Подключен ли желтый провод?
- **Звук не выводится через громкоговорители.**
 - * Нет ли короткого замыкания на кабеле выхода громкоговорителей?
- **Звук искажен.**
 - * Заземлен ли провод выхода громкоговорителей?
 - * Заземлены ли разъемы “-” правого (R) и левого (L) громкоговорителей?
- **Шум мешает звучанию.**
 - * Соединен ли находящийся сзади зажим заземления с шасси автомобиля с помощью более короткого и тонкого шнуров?
- **Устройство нагревается.**
 - * Заземлен ли провод выхода громкоговорителей?
 - * Заземлены ли разъемы “-” правого (R) и левого (L) громкоговорителей?

B Connections Adding Other Equipment / Подключение других устройств

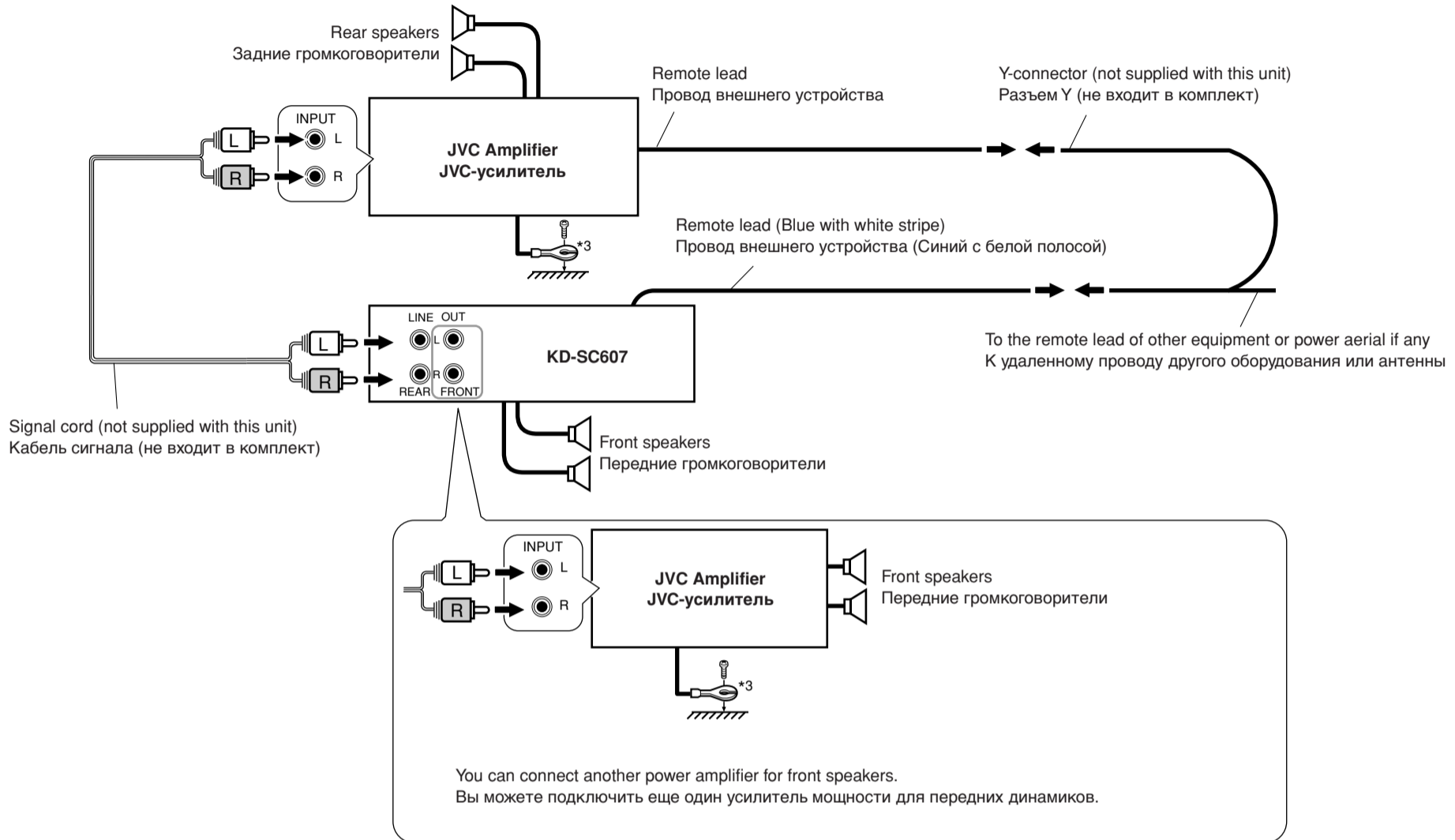
Amplifier / Усилитель

You can connect an amplifier and other equipment to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **For amplifier only:**
Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.

Для обновления автомобильной стереосистемы Вы можете подключить усилитель.

- Подсоедините провод внешнего устройства (синий с белой полосой) к проводу внешнего устройства другого оборудования так, чтобы им можно было управлять с этого устройства.
- **Только для усилителя:**
Отсоедините громкоговорители от данного устройства, подключите их к усилителю. Оставьте провода громкоговорителей данного устройства неиспользованными.



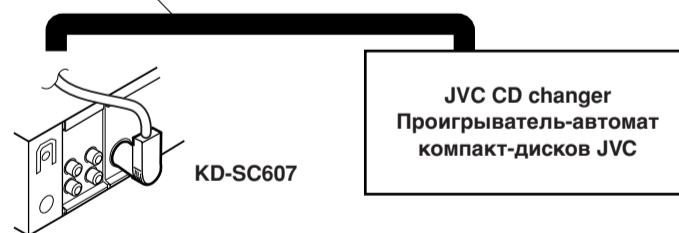
*3 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place not coated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.

*3 Плотно прикрепите заземляющий провод к металлическому кузову или шасси автомобиля—в месте, не покрытом краской (если оно покрыто краской, удалите краску перед тем, как прикреплять провод). Невыполнение этого требования может привести к повреждению данного устройства.

CD changer / Устройство автоматической смены компакт-дисков

Refer also to page 38 of the INSTRUCTIONS.
См. также ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 38.

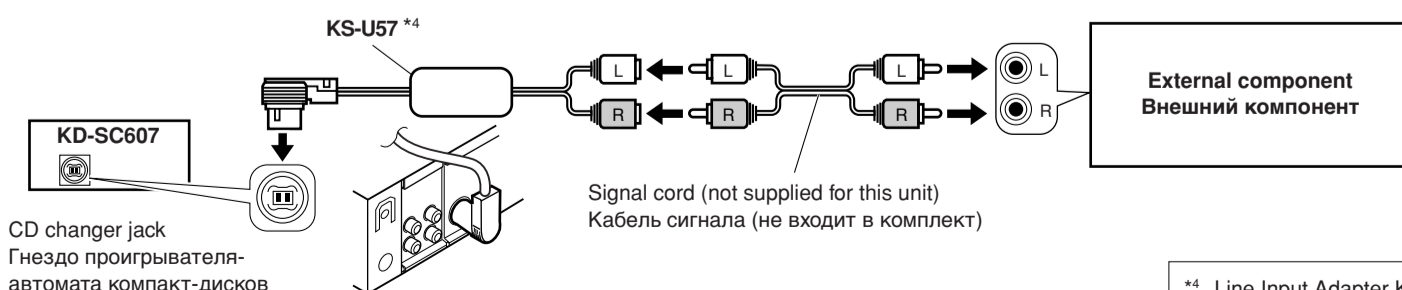
Connecting cord supplied for your CD changer
Соединительный кабель, поставляемый с Вашим проигрывателем-автоматом компакт-дисков



CAUTION / ПРЕДОСТЕРЕЖЕНИЕ:

- Before connecting the CD changer, make sure that the unit is turned off.
- Перед подключением устройства автоматической смены компакт-дисков убедитесь в том, что устройство отключено.

External Component / Внешний компонент



*4 Line Input Adapter KS-U57 (not supplied with this unit)
*4 Адаптер входной линии KS-U57 (не входит в комплект)