JVC

DVD/CD RECEIVER
DVD-/CD-RECEIVER
RECEPTEUR DVD/CD
DVD/CD-RECEIVER

KD-DV5000

Detachable

DVD VIDEO™

COMPACT **disc** DIGITAL VIDEO

DOLBY D I G I T A L

dts 2.0+DIGITAL OUT

R·D·S

MP3

JVC DOLBY DIGITAL 50W×4 *MP3* *KD-DV5000*

RM-RK210
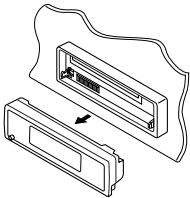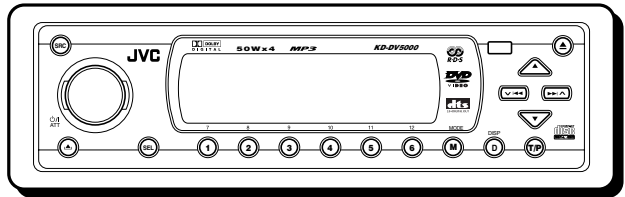
This unit is equipped with the display demonstration. To cancel it, see page 9.
Dieses Gerät ist mit einer Demonstrationsfunktion für das Display ausgestattet. Auf
 Seite 9 wird beschrieben, wie Sie diese Demonstrationsfunktion deaktivieren können.
Cet appareil est équipé d'une démonstration des affichages. Pour l'annuler, référez-
 vous à la page 9.
Dit toestel heeft een display-demonstratiefunctie. Zie bladzijde 9 voor het annuleren
 van deze functie.

For installation and connections, refer to the separate manual.
Angaben zu Einbau und Verkabelung entnehmen Sie bitte der gesonderten Anleitung.
Pour l'installation et les raccordements, se référer au manuel séparé.
Zie de afzonderlijke handleiding voor details aangaande het installeren en verbinden van het
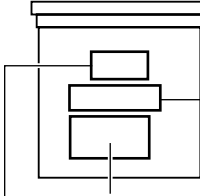toestel.

INSTRUCTIONS

BEDIENUNGSANLEITUNG
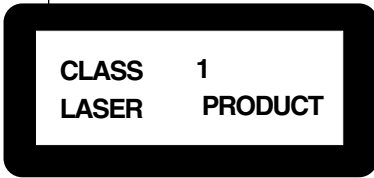### MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING

LVT1054-001B
[E]

Position And Reproduction Of Labels

Bottom panel of the main unit

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

Name/Rating plate

**CLASS 1
LASER   PRODUCT**

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

IMPORTANT FOR LASER PRODUCTS

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

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.

How to reset your unit

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

NOTE:
If you reset the unit during play, the playback mode selections (e.g. repeat play mode setting), you have selected for the current disc will be reset to the initial settings.
• During DVD playback, the disc menu selection will also be reset to the initial disc settings.

2
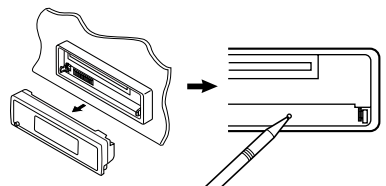
Thank you for purchasing a JVC product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

WARNINGS

- **DO NOT install any unit in locations where;**
  - **it may obstruct the steering wheel and gearshift lever operations, as this may result in a traffic accident.**
  - **it may obstruct the operation of safety devices such as air bags, as this may result in a fatal accident.**
  - **it may obstruct visibility.**
- **DO NOT operate any unit while manipulating the steering wheel, as this may result in a traffic accident.**
- **The driver must not watch the monitor while driving.**
  If the driver watches the monitor while driving, it may lead to carelessness and cause an accident.
- **The driver must not put on the headphones while driving. It is dangerous to shut off the outside sounds while driving.**
- **If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.**
- **If the parking brake is not engaged, "DRIVER MUST NOT WATCH THE MONITOR WHILE DRIVING." appears on the monitor, and no playback picture will be shown.**
  - **This warning appears only when the parking brake wire is connected to the parking brake system built in the car (refer to the Installation/Connection Manual).**

CAUTION: DO NOT insert a disc while the disc loading lamp is flashing or is not lit. (See page 26.)

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing use only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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.

Caution:
If the temperature inside the car is below 0°C, the movement of animation and text scroll will be halted on the display to prevent the display from being blurred. ▦ *(LOW TEMP.) indicator appears on the display.*
When the temperature increases, and the operating temperature is resumed, these functions will start working again.

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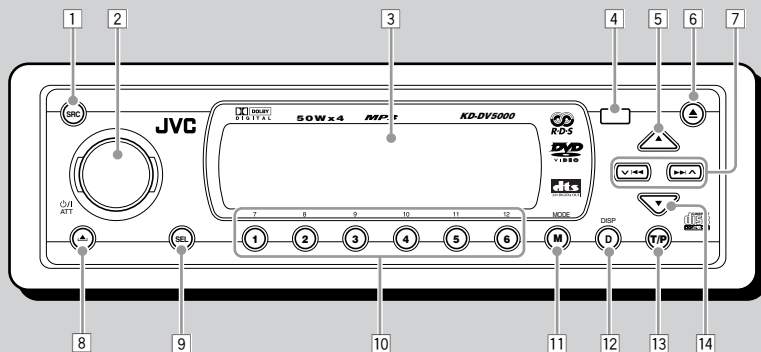
* Temperature inside the car....
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

CONTENTS

ENGLISH

Control panel

Refer to the pages in parentheses for details.

1 SRC (source) button (8, 64, 66, 72, 73)
2 • ⏻/| ATT (standby/on/attenuator)
   button (8)
   • Control dial
3 Display window
4 Remote sensor
5 ▲ (up) button
   • Functions as the Play button for DVDs and VCDs.

6 ▲ (eject) button (28, 42)
7 ∨ |◀◀/▶▶| ∧ buttons
8 |▲| (control panel release) button (65)
9 SEL (select) button
10 Number buttons
11 MODE (M) button
12 DISP (D) (display) button
   (10, 16, 48, 67, 72, 77)
13 T/P (TP/PTY) button (18, 20)
14 ▼ (down) button
   • Functions as the Stop button for DVDs and VCDs.

How to use the MODE (M) button

If you press MODE (M), the unit goes into functions mode. While in functions mode, the number buttons work as different function buttons.
• The ▲/▼ buttons also work as +10/–10 buttons after pressing MODE (M).

Ex.: When the source is the tuner

Time countdown indicator
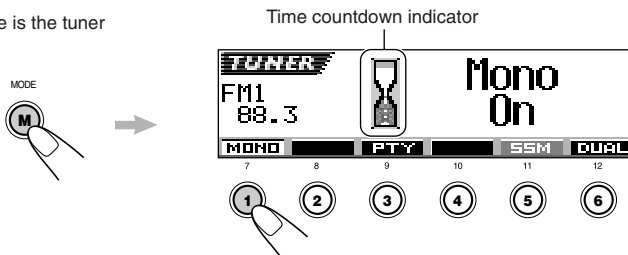
To use these buttons for original functions again after pressing MODE (M), wait for 5 seconds without pressing any of these buttons until the functions mode is cleared.
• Pressing MODE (M) again also clears the functions mode.

5

Remote controller

RM-RK210
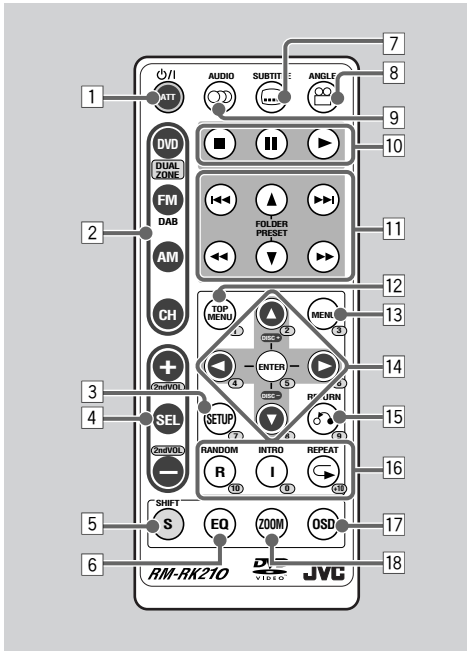
IMPORTANT:
If "Dual Zone" is turned "On" (see page 40), the remote controller only functions for operating the DVD/CD player.

Refer to the pages in parentheses for details.

[1] ⏻/❘ ATT (standby/on/attenuator) button
[2] Source selection button
   DVD, FM (DAB), AM, and CH
   • DVD button also functions as the DUAL ZONE button while pressed with SHIFT (S) button. (40)
   • FM (DAB) button:
      – Functions to switch the FM tuner and the DAB if pressed and held.[*1]
      – Functions to change the bands in sequence if pressed.
   • CH button does not function if no CD changer is connected.[*1]

[3] SETUP button (50)[*2]
[4] Basic sound setting buttons
   SEL, +, and –
   • The +/– buttons normally function as the volume adjustment buttons.
   • The +/– buttons also function as the 2ndVOL +/– buttons when pressed with SHIFT (S) button. (41)
[5] SHIFT (S) button
[6] EQ (equalizer) button (55)
   • Selects the sound modes (iEQ.)
[7] SUBTITLE ⊡ button (30)
[8] ANGLE 🎞 button (31)
[9] AUDIO ⊙⊙ button (30)
[10] Disc basic operation buttons (28)
   ■ (stop), ❚❚ (pause), ▶ (play)
[11] Disc advanced operation/tuner operation buttons
   For disc advanced operations:
   • FOLDER (PRESET) ▲ / ▼
   • I◀◀ / ▶▶I (reverse search/forward search)
   • ◀◀ / ▶▶ (reverse/fast forward): These buttons do not work for CD changer operations.
   For tuner operations:
   • PRESET (FOLDER) ▲ / ▼
   • I◀◀ / ▶▶I
      – For FM/AM tuner: Functions to search for stations.
      – For DAB tuner: If pressed and held, selects DAB ensembles. If pressed briefly, selects DAB services.
[12] TOP MENU button (31)[*2]
[13] MENU button (31)[*2]
[14] Menu operation buttons[*2]
   Cursor (▲ / ▼ / ◀ / ▶), and ENTER
[15] RETURN ⤴ button (31, 32)[*2]
[16] Play mode buttons (35, 36, 70, 71)[*2]
   RANDOM (R), INTRO (I), and REPEAT (↻)
[17] OSD button (37)
[18] ZOOM button (32)

[*1] *Without connecting the DAB tuner or CD changer, you cannot select it as the source to play.*
[*2] *These buttons function as the number buttons when pressed with SHIFT (S) button.*

Preparing the remote controller

Before using the remote controller:
• Aim the remote controller directly at the remote sensor on the main unit. Make sure there is no obstacle in between.
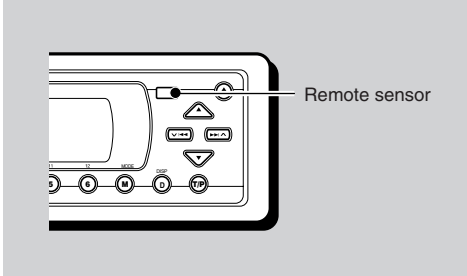
Remote sensor

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

Installing the battery

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

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

(back side)
1)
2)
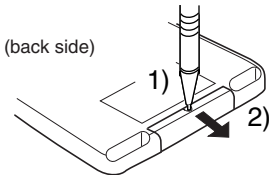
2. Place the battery.
Slide the battery into the holder with the + side facing upwards so that the battery is fixed in the holder.
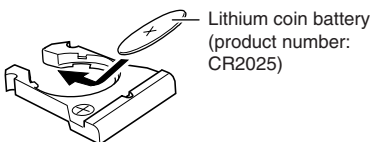
Lithium coin battery (product number: CR2025)

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

(back side)
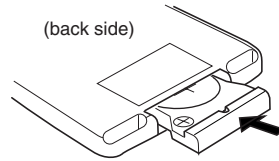
WARNING:
• *Store the battery in a place where children cannot reach.*
If a child accidentally swallows the battery, consult a doctor immediately.
• *Do not recharge, short, disassemble or heat the battery or dispose of it in a fire.*
Doing any of these things may cause the battery to give off heat, 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.

This receiver is equipped with the steering wheel remote control function.
If your car is equipped with the steering wheel remote controller, you can operate this receiver using the controller.
• See the Installation/Connection Manual (separate volume) for connection to utilize this function.

7

🎶 BASIC OPERATIONS

2   1, 3
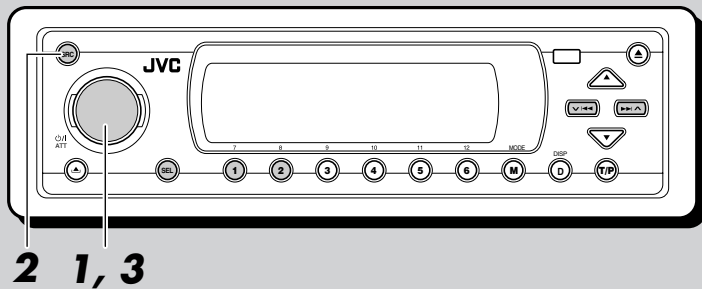
Turning on the power

1 Turn on the power.
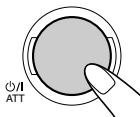
Note on One-Touch Operation:
When you select a source in step **2** *below, the power automatically comes on. You do not have to press this button to turn on the power.*

2 Select the source.

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

TUNER → DAB *¹ → DISC *²
CD-CH or LINE IN *¹   *³
(CD changer)
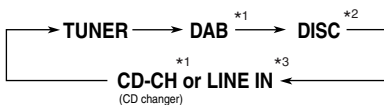
*¹ *Without connecting the DAB tuner or CD changer, you cannot select it as the source to play.*
*² *If a disc is not in the loading slot, you cannot select "DISC" as the source to play.*
*³ *To select "LINE IN," select "Line In" for the "Ext Input" setting on page 60.*

3 Adjust the volume.
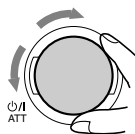
Volume level appears.

Current sound (iEQ) mode (see page 55)

4 Adjust the sound as you want. (See pages 54 – 56.)

Note:
While playing a source, you can also show the level meter on the display. For details, see "Activating the level meter" on page 10.

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 ⏻/I ATT for more than 1 second.
• **If you turn off the power while listening to a disc,** playback will start from where playback has been stopped previously, next time you turn on the power.

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 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 58 and 59.)**

2 **Press number button 1 to select "MOVIE"—Movie category of the PSM settings.**
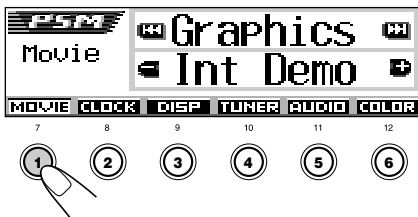
The "Graphics" setting screen appears on the display.

3 **Select "Off."**

4 **Finish the setting.**

To activate the display demonstration, repeat the same procedure and select "Int Demo" or "All Demo" in step *3*.
• For more details, see "To set the movie demonstration—Graphics" on page 59.

Setting the clock

You can also set the clock system to 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 58 and 59.)**

2 **Press number button 2 to select "CLOCK"—Clock category of the PSM settings.**
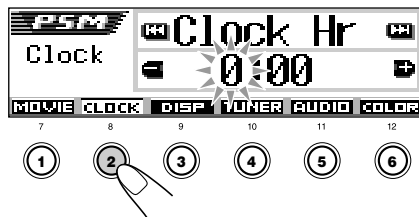
The "Clock Hr" setting screen appears on the display.

3 **Adjust the hour.**

4 **Set the minute.**
   ☐ Select "Clock Min (minute)."
   ☐ Adjust the minute.

9
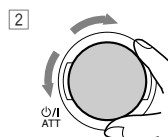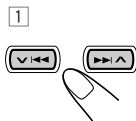
5 Set the clock system.
1 Select "24H/12H."
2 Adjust "24Hours" or "12Hours."

| 1 | 2 |

6 Finish the setting.

To check the current clock time when the unit is turned off, press DISP (D).
The power turns on and the clock time is shown for about 5 seconds, then the power turns off.

Activating the level meter

You can show the level meters on the display while playing any source. This unit is equipped with three level meter patterns.
• 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 SEL (select) repeatedly until "METER" selection screen appears on the display.

Last selected level meter appears on the display.

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

```
→ iEQ → SEL → METER ⌐
       ⌐ iEQ   SEL   METER |
       └──── Canceled ◄─────┘
```

• For iEQ (sound mode) settings, see pages 55 and 56.
• For SEL (basic sound) settings, see page 54.

2 Select the level meter pattern you want.

As you turn the control dial, the level meters change as follows:

```
→ Off ◄──► 1 ◄
  3 ◄──► 2 ◄
```
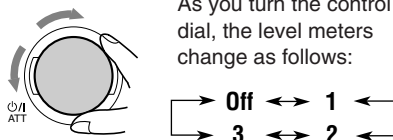
Meter 1:

The audio level meter fluctuates vertically.
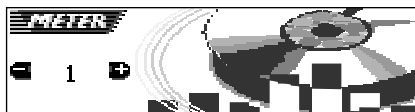
Meter 2:

The speaker on the display vibrates as input audio level changes.
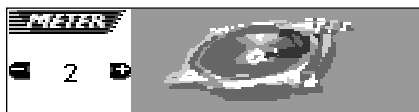
Meter 3:

The left and right audio level meters appear.
• If the display pattern is changed, only one audio level meter will be shown.

Off:

No level meter is shown. The source animation appears.

NOTICE:
The illustrations of the display used in this manual are mainly of the initial setting when shipped from the factory. If you have changed the display patterns or some PSM items, the actual displays you see will be different.
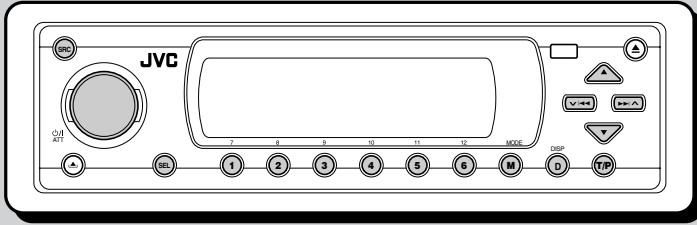
The operations of this section are mainly explained using the buttons on the control panel. When the remote controller can be used for the same operations, it is then explained.

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

This operation is also possible from the remote controller.

1 Select the band (FM1 – 3, AM).

1 Press SRC (source) repeatedly to select the tuner.
2 Press and hold SRC.
Each time you press and hold the button, the band changes.
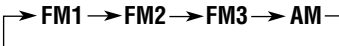
$$FM1 \rightarrow FM2 \rightarrow FM3 \rightarrow AM$$

Selected band appears.

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

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
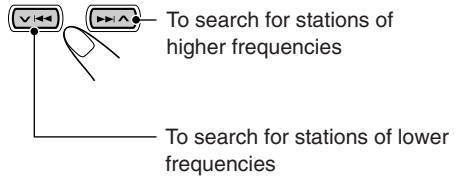
When a station comes in, searching stops.

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

When using the remote controller

1 Press FM (DAB) or AM.
• When selecting the FM bands, press FM (DAB) repeatedly until the band you want is selected.

2 Press ►►I or I◄◄ to start searching.

11
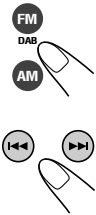
Searching for a station manually: Manual search

1 Select the band (FM1 – 3, AM).

1 Press SRC (source) repeatedly to select the tuner.

2 Press and hold SRC. Each time you press and hold the button, the band changes.
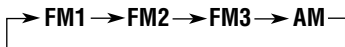
$$\text{FM1} \rightarrow \text{FM2} \rightarrow \text{FM3} \rightarrow \text{AM}$$

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 "Manual Search" starts flashing on the display.

3 Tune in to a station you want while "Manual Search" is flashing.
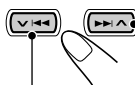
To tune in to stations of higher frequencies

To tune in to stations of lower frequencies

• If you release your finger from the button, the manual mode 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 MODE (M) to enter the functions mode while listening to an FM stereo broadcast. "Mode" appears on the display.
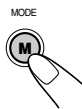
MODE

2 Press number button 1 to select "Mono On" while "Mode" is still on the display. Each time you press the button, "Mono On" and "Mono Off" appears alternately.

See page 40 for this function.

After about 5 seconds
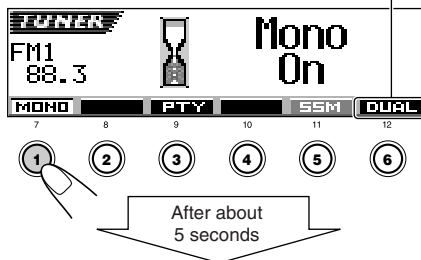
The display returns to the source indication screen.

When "Mono On" is selected, the MONO indicator appears, and 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.

1 Press SRC (source) repeatedly to select the tuner.

2 Press and hold SRC. Each time you press and hold the button, the band changes.
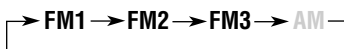
→ **FM1** → **FM2** → **FM3** → AM

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 automatic preset.

1 Press MODE (M) to enter the functions mode.

MODE "Mode" appears on the display.

2 Press and hold number button 5 while "Mode" is still on the display.
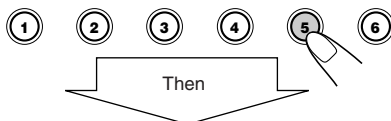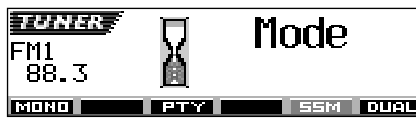
Then

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

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

ENGLISH

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Manual preset

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

Ex.: Storing an 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).

① Press SRC (source) repeatedly to select the tuner.

② Press and hold SRC. Each time you press and hold the button, the band changes.

→ FM1 → FM2 → FM3 → AM ⌐
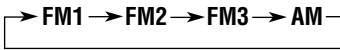
2 Tune in to a station (in this example, of 92.5 MHz).

To tune in to stations of higher frequencies

To tune in to stations of lower frequencies
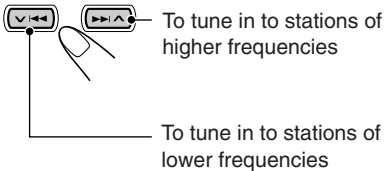
3 Press and hold the number button (in this example, 1) for more than 2 seconds.

The display pattern automatically changes like the above pattern (see page 16). The preset number flashes for about 5 seconds, then the previous display pattern resumes.

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 13 and 14.

Selecting a preset station directly

1 Select the band (FM1 – 3, AM).

1 Press SRC (source) repeatedly to select the tuner.
2 Press and hold SRC. Each time you press and hold the button, the band changes.

→ FM1 → FM2 → FM3 → AM ┐

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

7   8   9   10   11   12

(1) (2) (3) (4) (5) (6)

When using the remote controller

1 Press FM (DAB) or AM.
• When selecting the FM bands, press FM (DAB) repeatedly until the band you want is selected.

FM
DAB
AM
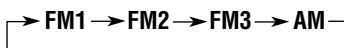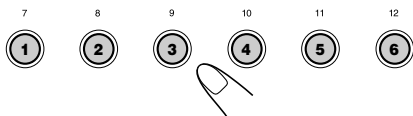
2 Press the number buttons (1 to 6) while holding SHIFT (S).

SHIFT
S

Note:
You can also use the PRESET (FOLDER) ▲ / ▼ buttons for selecting a preset station.

Selecting a preset station using the preset station list

If you forget which stations are stored in which preset numbers, you can check the preset station list, then select your desired station.

1 Select the band (FM1 – 3, AM).

1 Press SRC (source) repeatedly to select the tuner.
2 Press and hold SRC. Each time you press and hold the button, the band changes.
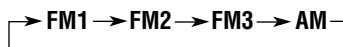
→ FM1 → FM2 → FM3 → AM ┐

2 Press and hold ▲ (up) or ▼ (down) until the preset station list for the current band (FM1, FM2, FM3, or AM) appears on the display.

TUNER 1 92.5   4105.9
FM1 P1 2 89.9   5Rock
Preset
STEREO 3 MHH   6POP
FLAT
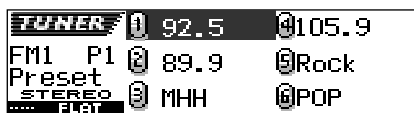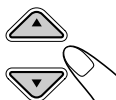
Notes:
• *If one of FM band preset station lists (FM1, FM2, or FM3) is shown on the display, you can show the other lists by pressing ▲ (up) or ▼ (down).*
• *If a preset station is an FM RDS station with PS signal, PS name will be shown instead of the station frequency.*

3 Select the number (1 – 6) for the preset station you want.
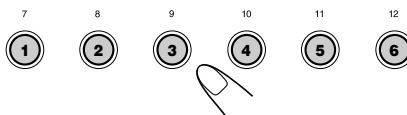
7   8   9   10   11   12

(1) (2) (3) (4) (5) (6)

Changing the display pattern

By pressing DISP (D), you can change the information shown on the display.

DISP
D

Each time you press the button, the display patterns change as follows:

• When receiving an AM or FM non-RDS station

TUNER ON AIR
FM1 P1
88.3MHz
STEREO
FLAT

Appears only when selecting a preset station number.

TUNER Preset1 ON AIR
FM1 88.3 MHz
STEREO
FLAT
1:28

Clock time

NO NAME P1 ON AIR
FM1 88.3 MHz
STEREO
FLAT
1:28
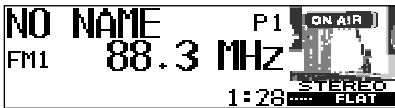
Appears only when receiving an FM non-RDS station

TUNER
FM1 P1
88.3MHz 1:28
STEREO
FLAT

• When receiving an FM RDS station

TUNER ON AIR
FM1 P1
Bayern 2
STEREO
FLAT

PS (station) name

TUNER Preset1 ON AIR
FM1 Bayern 2
STEREO
FLAT
1:28

Clock time

PTY Varied P1 ON AIR
FM1 Bayern 2
STEREO
FLAT
1:28

PTY code
(see page 23)

TUNER
FM1 P1
Bayern 2 1:28
STEREO
FLAT

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 23.)
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 without Regionalization. With this setting, the unit switches to another station within the same network when the receiving signals from the current station become weak. (In this mode, the programme may differ from the one currently received.)
The AF indicator lights up.

• AF Reg: Network-Tracking Reception is activated with Regionalization. With this setting, the unit switches to another station, within the same network, broadcasting the same programme when the receiving signals from the current station become weak.
The REG indicator lights up.

• Off: Network-Tracking Reception is deactivated.
Neither the AF nor the REG indicator lights up.

AF or 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 76.)

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 58 and 59.)**

2 **Press number button 4 to select "TUNER"—Tuner category of the PSM settings.**
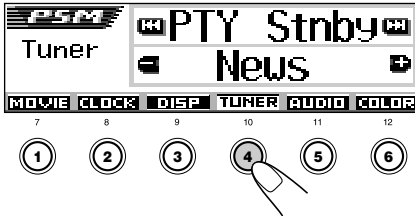
The "PTY Stnby" (standby) setting screen appears on the display.

3 **Select "AF-Regn'l" (alternative frequency/regionalization reception).**

4 **Select the desired mode—"AF," "AF Reg," or "Off."**

5 **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/P to activate TA Standby Reception.
Each time your press the button, this function is turned on and off alternately.

TP indicator (either lights up or flashes)

■ **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 Flash" appears on the display, and this unit automatically tunes in to the station. The volume changes to the preset TA volume level (see page 22) 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 ►►I ∧ or ∨ I◄◄ 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 Flash" appears on the display, and this unit automatically changes the source and tunes in to the station.

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Using PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite programme (PTY: Programme Type) from any source except AM stations.

To select your favorite PTY code for PTY Standby Reception

When shipped from factory, PTY Standby Reception has been set to work for searching for "News" programmes.
You can select your favorite programme type 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 58 and 59.)**

2 **Press number button 4 to select "TUNER"—Tuner category of the PSM settings.**
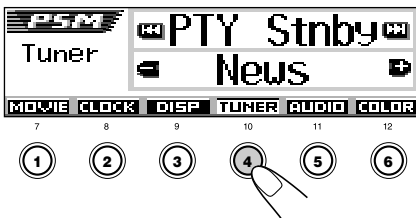
The "PTY Stnby" (standby) setting screen appears on the display.

3 **Select one of the twenty-nine PTY codes. (See page 23.)**

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

4 **Finish the setting.**

To set PTY Standby Reception

1 Press MODE (M) while listening to an FM stereo broadcast.

"Mode" appears on the display.

2 Press number button 3 to activate PTY Standby Reception while "Mode" is still on the display.

Each time you press the button, PTY Standby Reception turns on and off alternately.
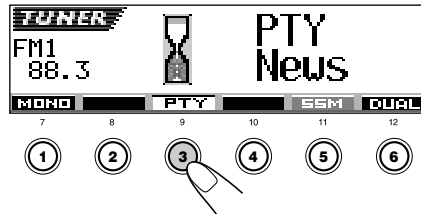
Ex.: When the currently selected PTY code for PTY Standby Reception is "News"

After about 5 seconds
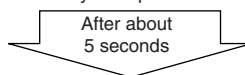
The display returns to the source indication screen.

PTY indicator (either lights up or flashes)

ENGLISH

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.

Note:
After turning on PTY Standby Reception, you can change the source without canceling PTY Standby Reception. In this case, the PTY indicator stops flashing if it was. If a station starts broadcasting the selected PTY programme, this unit automatically changes the source and tunes in to the station.
• *If you change the source to AM, PTY Standby Reception will be temporarily canceled.*
• *You can only deactivate the PTY Standby Reception when the source is FM.*

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 and page 21.
To search your favorite programme type, see page 21.

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/P for more than 2 seconds while listening to an FM station.**

The last selected PTY code appears.

TUNER   Search
FM1
PTY   P1   Pop M
    FLAT   PTY List

Ex.: If you have selected "Pop M" previously

2 **Select one of the twenty-nine PTY codes. (See page 23.)**

Selected code name appears on the display.

20
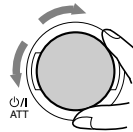
3 **Press and hold the number button for more than 2 seconds to store the PTY code selected into the preset number you want.**
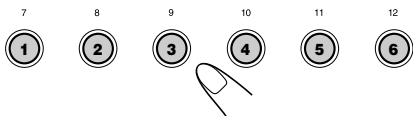
Selected preset number flashes for a while.

4 **Press and hold T/P for more than 2 seconds to exit from this mode.**

To search your favorite programme type

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

The last selected PTY code appears.
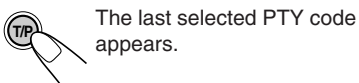
Ex.: If you have selected "Pop M" previously

2 **To select one of your favorite programme type**
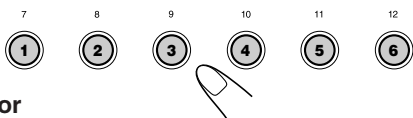
or

To select any one of the twenty-nine PTY codes

or
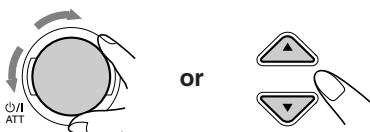
Ex.: When "Rock M" is selected

How to use the ▲ (up) or ▼ (down) button
By pressing ▲ (up) or ▼ (down) repeatedly, you can show the list of your preset PTY codes and all twenty-nine PTY codes (six PTY codes at a time). First, the list of your stored PTY codes appears, then all twenty-nine PTY codes (six PTY codes at a time) appears in sequence. Press the number button to select your desired PTY code on the list currently shown on the display.

3 **Start PTY search for your favorite programme.**
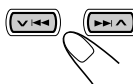
• If there is a station broadcasting a programme of the same PTY code as you have selected, that station is tuned in.
• If there is no station broadcasting a programme of the same PTY code as you have selected, the station will not change.

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

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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 57.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press number button 4 to select "TUNER"— Tuner category of the PSM settings.
3 Press ►►I ∧ or ∨ I◄◄ to select "P(Programme)-Search."
4 Turn the control dial clockwise to select "On." Now programme search is activated.
5 Press SEL (select) to finish the setting.

To cancel programme search, repeat the same procedure and select "Off" in step **4** 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 57.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press number button 4 to select "TUNER"— Tuner category of the PSM settings.
3 Press ►►I ∧ or ∨ I◄◄ to select "TA Volume."
4 Turn the control dial to set to the desired volume.
You can set it from "Volume 0" to "Volume 50."
5 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 57.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press number button 2 to select "CLOCK"— Clock category of the PSM settings.
3 Press ►►I ∧ or ∨ I◄◄ to select "Auto Adj" (adjustment).
4 Turn the control dial counterclockwise to select "Off."
Now automatic clock adjustment is canceled.
5 Press SEL (select) to finish the setting.

To reactivate clock adjustment, repeat the same procedure and select "On" in step **4** 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
Affairs:	Topical programmes expanding on current news or affairs
Info:	Programmes which impart advice on a wide variety of topics
Sport:	Sport events
Educate:	Educational programmes
Drama:	Radio plays
Culture:	Programmes on national or regional culture
Science:	Programmes on natural science and technology
Varied:	Other programmes like comedies or ceremonies
Pop M:	Pop music
Rock M:	Rock music
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
Social:	Programmes on social activities
Religion:	Programmes dealing with any aspect of belief or faith, or the nature of existence or ethics
Phone In:	Programmes where people can express their views either by phone or in a public forum
Travel:	Programmes about travel destinations, package tours, and travel ideas and opportunities
Leisure:	Programmes concerned with recreational activities such as gardening, cooking, fishing, etc.
Jazz:	Jazz music
Country:	Country music
Nation M:	Current popular music from another nation or region, in that country's language
Oldies:	Classic pop music
Folk M:	Folk music
Document:	Programmes dealing with factual matters, presented in an investigative style

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The same programme can be received on different frequencies.

Programme 1 broadcasting on frequency A

Programme 1 broadcasting on frequency E

Programme 1 broadcasting on frequency B

Programme 1 broadcasting on frequency C

Programme 1 broadcasting on frequency D
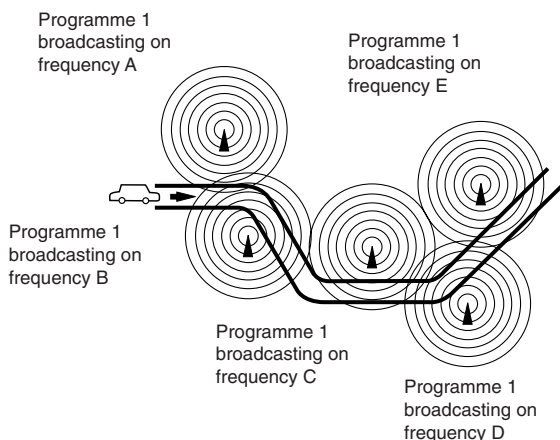
PLAYABLE DISCS

Discs you can play:

Disc Type	Mark (Logo)	Video Format	Region Code*
DVD Video	DVD VIDEO™ DVD VIDEO™	PAL	2 ALL
Video CD	COMPACT disc DIGITAL VIDEO Video CD		————
Audio CD	COMPACT disc DIGITAL AUDIO COMPACT disc DIGITAL AUDIO TEXT	————	————
MP3 disc	CD-Rs or CD-RWs including MP3 files with the file extension code <mp3>. They must be recorded in the format compliant with ISO 9660 Level 1, ISO 9660 Level 2, Romeo, and Joliet.		

- On some discs, the actual operations may be different from what is explained in this manual.
- The following discs cannot be played back;
  – DVD-Audio, DVD-ROM, DVD-RAM, DVD-R, DVD-RW, CD-ROM, CD-I (CD-I Ready), Photo CD, etc.
  Playing back these discs will generate noise and damage the speakers.

* Note on Region Code
DVD players and DVD Video discs have their own Region Code numbers. This unit can only play back DVD discs whose Region Code numbers include "2."

ALL   2   1 2   1 2 3 4

Examples:

If you insert a DVD Video disc of an incorrect Region Code
"REGION CODE ERROR!" appears on the monitor, and "Please Eject" flashes on the display. (If the control panel is not yet closed, the disc ejects automatically.)

Disc structure

DVD
A DVD disc consists of **Titles**, and each title may be divided into **Chapters**.
For example, if a DVD disc contains some movies, each movie may have its own title number, and it may be further divided into chapters.

```
|<--------- Title 1 --------->|  |<------ Title 2 ------>|
| Chapter 1 | Chapter 2 | Chapter 3 |  | Chapter 1 | Chapter 2 |
```
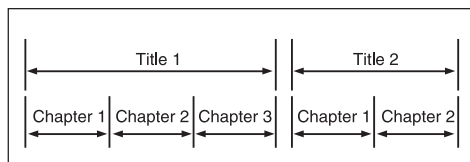
Video CD (VCD) and Audio CD (CD)
On the other hand, a VCD or CD consists of **Tracks**.
In general, each song has its own track number. (On some discs, each track may also be divided by **Indexes**.)
When playing back a VCD with the Playback Control (PBC) function, you can select what to view using the menu shown on the monitor. (While operating a VCD using the menu, some of the functions such as Repeat and Track Search may not work.)

| Track 1 | Track 2 | Track 3 | Track 4 | Track 5 |
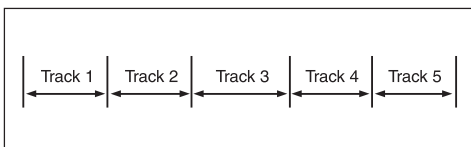
MP3 discs

MP3 is an abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. MP3 is simply a file format with a data compression. By using MP3 format, one CD-R or CD-RW can contain 10 times as much data as a regular CD can.

On an MP3 disc, files (also called "tracks" and both words are used interchangeably in this manual) are usually grouped into a folder. Folders can also include other folders, creating hierarchical layers of folders.

This unit can recognize up to 150 files per folder, and up to 99 folders per disc (up to 14,850 files). The unit ignores those exceeding the maximum number and cannot play them back.
• All folders on the disc are counted in the total number of 150, even a folder which does not include any MP3 files.

| | Folder 1 | | | Folder 2 | |
| Track 1 | Track 2 | Track 3 | Folder 3 | Folder 4 |
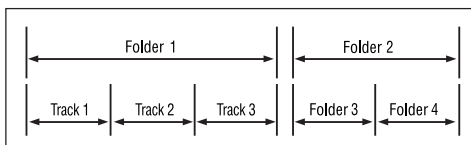
Notes for MP3 disc
• *MP3 discs require a longer readout time, which differs due to the complexity of the folder/file configuration.*
• *This unit supports "multi-session" discs.*
• *This unit cannot play "packet write" discs.*
• *The unit can play MP3 files with the correct extension code—<.mp3> (case insensitive—any combination of upper and/or lower is acceptable)*
• *It is recommended that MP3 files be recorded at a sample rate of 44.1 kHz and at a data transfer rate of 128 kbps.*
• *For more information about MP3 discs, see "A Guide to MP3" (separate volume).*

About sounds reproduced through the rear terminals
• **Through the analog terminals (Speaker out/LINE OUT/2nd AUDIO OUT):**
  2-channel signal is emitted.
  When playing a multi-channel encoded disc, multi-channel signals are downmixed. (AUDIO—ANALOG DOWN MIX: see page 53).
• **Through DIGITAL OUT (optical):**
  Digital signals (Linear PCM, Dolby Digital*, DTS**) are emitted through this terminal. (For more details, see page 83.)
  To reproduce multi-channel sounds such as Dolby Digital and DTS, connect an amplifier or a decoder compatible with these multi-channel sources to this terminal, and set "DIGITAL AUDIO OUTPUT" to the correct value. (See page 53.)

• **About Dual Zone**
  While you are listening to the radio, CD changer, or external component through the speakers built into your car compartment, you can listen to the playback sound of this DVD/CD player using the headphones connected to the 2nd AUDIO OUT plug at the same time.
  • For details, see "DUAL ZONE OPERATIONS" on page 40.

* *Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.*
** *"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.*
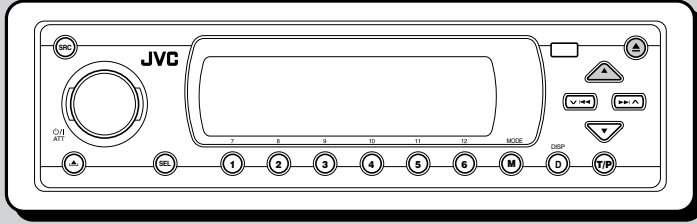
The following marks used in this manual indicate the playable discs.

DVD	**VCD**	**VCD** PBC
DVD Video	**Video CD with/without PBC**	**Video CD with PBC**
CD	**MP3**	**ALL**
Audio CD	**MP3 disc**	**All discs listed here**
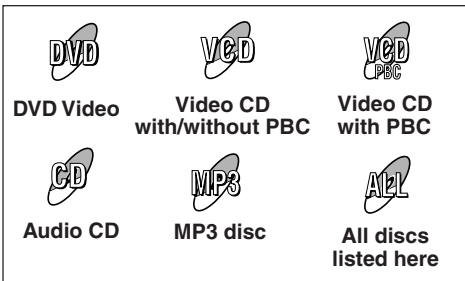
Before performing any operations, make sure the following....
• Turn on the monitor for playing a DVD or VCD. If you turn on the monitor, you can also control the CD and MP3 playback by referring to the monitor screen.
• **For DVD playback, you can change the Setup Menu setting to your preference. (See pages 50 – 53.)**
• When you want to operate the DVD/CD player using the buttons on the control panel, see "OTHER DISC OPERATIONS" on pages 42 to 49.

If "⊘ "appears on the monitor when pressing a button, the disc cannot accept an operation you have tried to do.
• In some cases, without showing "⊘ ," operations will not be accepted.

Starting playback

1 Open the control panel.
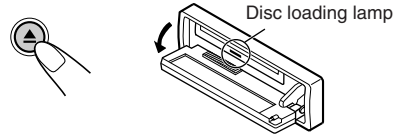
Disc loading lamp

2 Insert a disc into the loading slot.
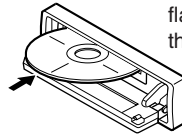
The disc loading lamp start flashing, and the unit draws in the disc automatically.

DO NOT insert a disc while the disc loading lamp is flashing* or is not lit**.
* Flashing: while loading or ejecting a disc
** Not lit: when a disc has been loaded.

---

3 Close the control panel by hand.
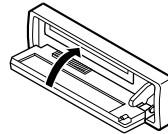
The disc type is automatically detected, and playback starts automatically. (If a disc is CD, VCD without the PBC function, or MP3, playback will be repeated until you stop it.)

Now
Reading
····· FLAT
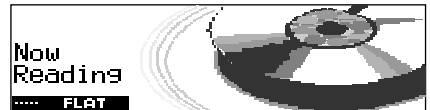
• If a menu appears while playing a DVD or VCD with PBC function, see "Menu operations" on page 31.

- **Display indications when inserting a DVD:**
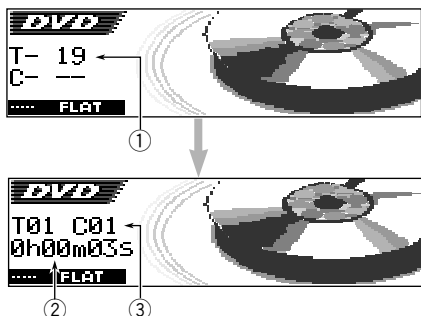
① Total title number
② Elapsed playing time of the current title
③ Current title number and chapter number

- **Display indications when inserting a VCD or CD:**
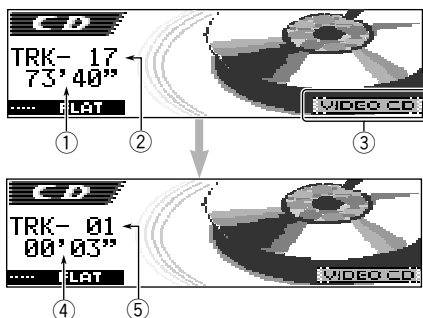
① Total playback time of the disc
② Total track number
③ VIDEO CD indicator: appears only when playing back a Video CD.
④ Elapsed playing time of the current track
⑤ Current track number

- **Display indications when inserting an MP3 disc**
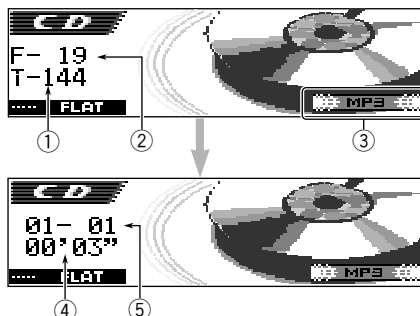
① Total track number
② Total folder number
③ MP3 indicator
④ Elapsed playing time of the current track
⑤ Current folder number and track number

Note:
When a new folder starts playing, its folder name is shown on the display (the display pattern automatically changes for a while—see page 49.)

Caution:
When you start playing a Mixed-CD, playback will stop at the beginning of the first track (with [00'00"] shown for the elapsed playing time). If this happens, skipping to the second track or higher will start playback from the newly selected track.
- *For details about the Mixed-CD, refer to "A Guide to MP3" (separate volume).*

Notes:
- *When a disc is already in the loading slot, selecting "DISC" as the source starts disc play.*
- *This unit cannot read or play an MP3 file without the extension code <mp3>.*
- *When a disc is inserted upside down, the disc automatically ejects (if the control panel is open).*
  If the control panel is closed, the source changes to the previously selected source, "Please Eject" flashes on the display.

To stop playback temporarily

Press **II on the remote controller**.
"Pause" flashes on the display.

* For DVD and VCD only: A still picture appears.

  Frame by Frame Playback—You can advance the still picture frame by frame by pressing the **II** repeatedly.
  To resume normal speed, press ►.

  Slow Motion Playback— You can advance the still picture in slow motion by pressing ►► or ◄◄. Each time you press the button, the search speed changes as follows:

  | 1/32 ➡ 1/16 ➡ 1/8 ➡ 1/4 ➡ 1/2 |

  To resume normal speed, press ►.

Notes:
* *No sound comes out during Reverse Slow Motion Playback*
* *When playing a VCD, Reverse Slow Motion Playback is prohibited.*

To replay the previous scenes —One Touch Replay

Press ► **on the remote controller** (or ▲ (up) **on the control panel**) during play.
The playback position moves back about 10 seconds before the current position.

Notes:
* *This function works only within the same title.*
* *For some DVDs, this function does not work.*

To stop playback

Press ■ **on the remote controller.**
* Except for MP3 discs: This unit can remember the end point (until the disc is ejected), and when you start playback again, playback begins from where it has been stopped. (Resume play)
* For MP3 discs: This unit can remember the last playing track (until the disc is ejected), and when you start playback again, playback begins from the beginning of the same track.

To eject a disc

Press ▲ **on the control panel**.
Playback stops and the control panel flips down. The disc comes out of the loading slot.

Locating a particular title/chapter/track

To go to the next or previous chapter/tracks

* For DVD: During play or pause

Press ►►I to go ahead to the beginning of the next chapter/track. Each time you press the button, the beginning of the next chapter/track is located (and played back).

Press I◄◄ to go back to the beginning of the current chapter/track.
Each time you press the button, the beginning of the previous chapter/track is located (and played back).

Note:
Playback will not start automatically if you locate the chapter/track while a disc is pausing or not playing.

To locate a particular title/chapter/track directly

• For DVD: During play or pause—select a chapter
  While stopped—select a title
• For VCD: While PBC (see page 32) is not in use.

From the remote controller:
While holding SHIFT (S), press number buttons to select a title, chapter, or track number you want.
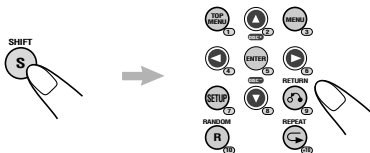
Examples:
• To select number 5, press 5 while pressing SHIFT (S).
• To select number 10, press 10 while pressing SHIFT (S).
• To select number 23, press +10, +10, then 3 while pressing SHIFT (S).

Notes:
• *If you directly select the track number for a VCD with the PBC function while it is not playing, playback starts with PBC function canceled. (See page 32).*
• *Playback will not start automatically if you select a chapter or track during pause.*

Locating a particular folder

Press FOLDER (PRESET) ▲ to select the next folder. Each time you press the button, the next folder is located and the first track in it starts playing.

Press FOLDER (PRESET) ▼ to select the previous folder. Each time you press the button, the previous folder is located and the first track in it starts playing.

Note:
If a folder does not contain any MP3 tracks, it is skipped.

On-screen guide icons

During play, the following guide icons may appear for a while on the monitor.

⊟ : Appears at the beginning of a scene containing multi-subtitle languages (for DVD only).

⊚ : Appears at the beginning of a scene containing multi-audio languages (for DVD only).

🎥 : Appears at the beginning of a scene containing multi-angle views (for DVD only).

▶ : Appears when you press ►.

▮▮ : Appears when you press ❙❙.

▮▶ : Appears when you start forward slow motion. (Slow motion speed also appears.) (for DVD and VCD only).

◀▮ : Appears when you start reverse slow motion. (Slow motion speed also appears.) (for DVD only).

▶▶ : Appears when you start forward search. (Search speed also appears.)

◀◀ : Appears when you start reverse search. (Search speed also appears.)

↻ : Appears when you select repeat mode (see page 35).

AUDIO
⊙))

■

SUBTITLE
⊡

TOP MENU

MENU

ENTER

Cursor

Number

RETURN

SHIFT
(S)

ANGLE

►

ZOOM
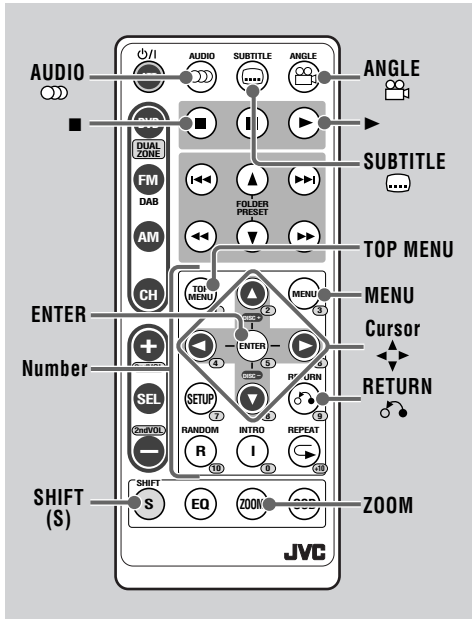
Notes:
- *When the pop-up window is shown, you can also select the subtitle languages by pressing cursor buttons (▲/▼).*
- *For some DVDs and VCDs, changing the subtitle language without using the disc menu is prohibited.*

Selecting audio languages

For DVD:

While playing a disc containing multiple audio languages (ex. English, French, Spanish), you can select the language to listen to.
- You can also set your favorite language as the initial audio language. (See pages 50 to 52.)

For VCD:

When you play a VCD, you can select the audio channel to play. This is convenient when playing a Karaoke VCD.

Selecting subtitles

While playing a disc containing subtitles in different languages, you can select which subtitle to display.
- You can also set your favorite subtitle language as the initial language shown on the monitor. (See pages 50 to 52.)

Select a desired subtitle language.

The following pop-up window appears on the monitor. Each time you press the button, the subtitle language changes.
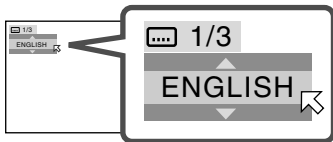
Ex. When the disc has 3 selections—
English, French, Spanish and no subtitle (OFF)

Select a desired audio language (or audio channel).

The following pop-up window appears on the monitor. Each time you press the button, the audio language (or audio channel) changes.

• **For DVD:**
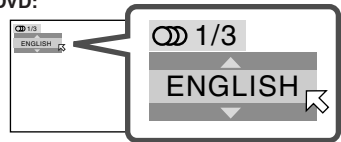
Ex. When the disc has 3 selections—
English, French, and Spanish

• **For VCD:**
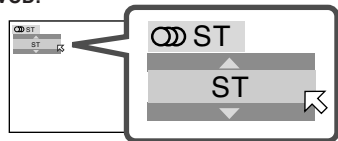
- ST: To listen to normal stereo (left/right) playback.
- L: To listen to the L (left) audio channel.
- R: To listen to the R (right) audio channel.

Notes:
- *When the pop-up window is shown, you can also select the audio languages (or audio channels) by pressing cursor buttons (▲/▼).*
- *For some DVDs and VCDs, changing the audio language (or audio channel) without using the disc menu is prohibited.*

Selecting multi-angle views

DVD

While playing a disc containing multi-angle views, you can view the same scene at different angles.

Select a desired view angle.

ANGLE

The following pop-up window appears on the monitor. Each time you press the button, the view angle changes.

1/3

1
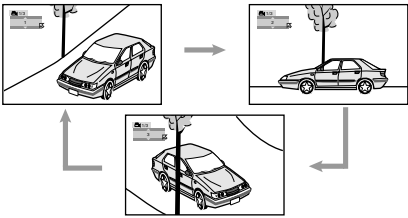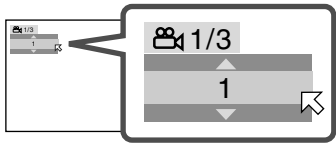
Ex.: When the disc has 3 multi-angle views

Note:
When the pop-up window is shown, you can also select the multi-angle views by pressing cursor buttons (▲/▼).

Menu operations

DVD **VCD PBC**

Menu-driven playback is possible while playing back a DVD with menu-driven features or a VCD with the PBC (PlayBack Control) function.

While playing a DVD:

DVD discs generally have their own menus or title lists. A title list usually contains titles of movies and songs recorded. On the other hand, a menu usually contains various information about the disc and playback selections.

1 Press TOP MENU or MENU.
A title list or menu will appear on the monitor.

TOP MENU   or   **MENU**

2 Select the item you want from the menu or the title list, by pressing cursor buttons (▲ / ▼ / ► / ◄) then ENTER.
The unit starts playback of the selected item.

ENTER
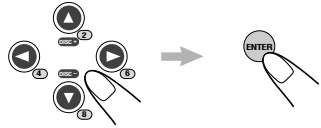
- On some discs, you can also select items by pressing the number buttons corresponding to the item numbers listed.

To return to the previous menu

RETURN

Press RETURN ↩.

To cancel the title list or menu

Press TOP MENU or MENU.

If " ⃠ "appears on the monitor in step *1*, the disc does not have a title list or menu.

While playing a VCD:

The PBC (PlayBack Control) function allows you to operate the VCD using menus.
When you start playback, a menu will automatically appear on the monitor.
• A menu may be a list of items, divided screens, or some moving pictures.

Select the item you want from the menu.
• When a list of items is displayed on the monitor, press the number buttons to select an item.
• When "▶" or "SELECT" is displayed on the monitor, press ▶ (or ENTER if pressing ▶ does not work) to start playback.

How to select items using the number buttons
• To select number 5, press 5 while pressing SHIFT (S).
• To select number 10, press 10 while pressing SHIFT (S).
• To select number 23, press +10, +10, then 3 while pressing SHIFT (S).
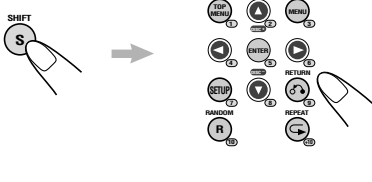
To return to the previous menu

Press RETURN ↰.

To cancel the PBC playback

You can cancel the menu-driven operations (PBC function):
1 Press ■ to stop playback.
2 Press number buttons to select a track. Normal playback starts from the selected track.

To resume the PBC function again, press TOP MENU or MENU.
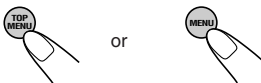
Zoom in

You can zoom into a particular portion of the picture while playing a DVD or VCD.

1 Zoom in to the picture.

The pop-up window appears on the monitor to show the current magnification. Each time you press the button, magnification change as follows:

➡ x 2 ➡ x 4 ➡ x 8 ➡ x 1 ➡ x 2 ➡ x 4 ➡ x 8 ➡ • • • •

Ex. When "ZOOM x4" is selected
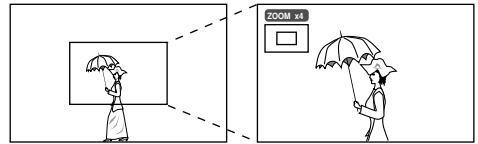
2 Move the zoomed-in portion on the monitor.
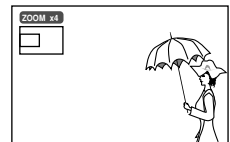
Note:
While zoomed in, the picture may look coarse.

To cancel Zoom, press ENTER or press ZOOM repeatedly until "ZOOM x1" appears.

ENTER

Cursor
◀▶
▲▼

Number

REPEAT
↪

SHIFT
(S)

OSD

INTRO
(I)

RANDOM
(R)

Searching for a particular point

Forward/Reverse Search

You can search for a particular point while playing a disc.

To fast-forward or reverse the chapter or track, press ▶▶ or ◀◀ while playing a disc.
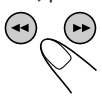
Each time you press the button, the search speed changes as follows:

x2 ➡ x5 ➡ x10 ➡ x20 ➡ x60*

To resume normal speed, press ▶.

When using the buttons on the control panel
Press and hold ▶▶I ∧ or ∨ I◀◀ while playing a disc.
The search speed changes: x2 ➡ x10.
• If you release the button, normal speed playback resumes.

Notes:
* *"x60" is only for DVD.*
* *When playing an MP3 disc, no sound comes out during Search.*
* *When playing a DVD or VCD, no sound comes out during x5, x10, x20, and x60 Search.*
* *Reverse Search stops automatically when it reaches the beginning of the disc. Playback resumes at normal speed.*

Time Search

You can start playing a particular point by specifying the elapsed playing time of the current title (for DVD) and of the disc (CD and VCD).

• For DVD: During play or pause.
• For VCD: While PBC (see page 32) is not in use.

1 Press OSD twice.

The on-screen bar appears on the monitor.
• For details on the on-screen bar, see pages 37 and 38.

2 Move ⬉ to 🕐➡ (Time Search), then press ENTER.

The time entry window appears.

3 Press number buttons (0 to 9) to enter the time while holding SHIFT (S).

Example (for DVD VIDEO)
To play back from 2(H):34(M):00(S)
Press number buttons 2, 3, then 4.

TIME 2 : 34 :_ _
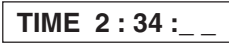
To play back from 58(M):00(S)
Press number buttons 0, 5, then 8.

TIME 0 : 58 :_ _
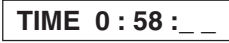
Example (for Video CD/Audio CD)
To play back from 23(M):40(S)
Press number buttons 2, 3, then 4.

TIME 23 : 4 _
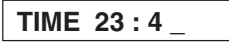
You do not have to press "0" to enter the trailing zeros.

To correct a mistake
Press cursor button ◄ repeatedly to move back to the digit where you entered a wrong number, and reenter the correct one.

4 Finish entry.

The unit starts playback from the specified time.

To erase the on-screen bar, press OSD once.

Chapter Search

You can select a specific chapter when a DVD is inserted.

1 Press OSD twice.

The on-screen bar appears on the monitor.
• For details about the on-screen bar, see pages 37 and 38.

DVD-VIDEO DD Digital 5.1ch TITLE 33 CHAP 33 TOTAL 1:25:58 ►
TIME ⟲OFF ⏱► CHAP.► ⟨⟩ 1/3 ▭ 1/5 ⛶ 1/3

2 Move ⬓ to CHAP.► (Chapter Search), then press ENTER.

DVD-VIDEO DD Digital 5.1ch TITLE 33 CHAP 33 TOTAL 1:25:58 ►
TIME ⟲OFF ⏱► CHAP.► ⟨⟩ 1/3 ▭ 1/5 ⛶ 1/3
CHAPTER _

The chapter number entry window appears.

3 Press number buttons (0 to 9) to enter the chapter number while holding SHIFT (S).
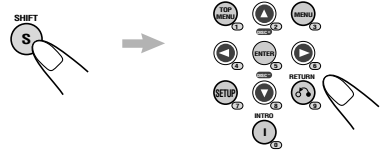
• To select number 5, press 5 while pressing SHIFT (S).
• To select number 10, press 1, then 0 while pressing SHIFT (S).
• To select number 23, press 2, then 3 while pressing SHIFT (S).

To correct a mistake
• To correct a two digit number, enter the correct number again.
• To correct a single digit number, press 0 first, then enter the correct number.

4 Finish entry.

The unit starts playback from the selected chapter.

To erase the on-screen bar, press OSD once.

Playing in various play modes

You can use any of three methods to activate various play modes.
- Using the direct buttons on the remote controller.
- Using the on-screen bar (see page 37).
- Using the buttons on the control panel (see page 45).

In the following explanation, how to use the direct buttons on the remote controller is explained.

Repeat Play

You can repeat a title, chapter, track, or disc endlessly.

- For VCD: While PBC (see page 32) is not in use.

Select the repeat mode you want.

REPEAT

The menu bar icon appears on the monitor to show the selected mode. Each time you press the button, the repeat mode changes as follows:

• For DVD:

CHAP ⟶ TITLE ⟶ OFF
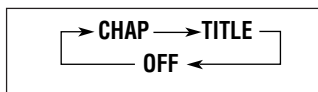
- CHAP: Current (or specified) chapter will be repeated.
  - ↺CHAP indicator appears on the monitor.

- TITLE: Current title will be repeated.
  - ↺TITLE indicator appears on the monitor.

- OFF: Repeat Play is canceled.
  - ↺OFF indicator appears on the monitor.

• For VCD/CD:

TRACK ⟷ OFF

- TRACK: Current (or specified) track will be repeated.
  - ↺TRACK indicator appears on the monitor.

- OFF: Track Repeat is canceled.
  All the tracks in the disc will be repeated.
  - ↺OFF indicator appears on the monitor.

• For MP3:

TRACK ⟶ FOLDER ⟶ OFF
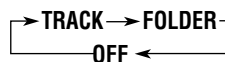
- TRACK: Current (or specified) track will be repeated.
  - "REPEAT TRACK" appears on the MP3 CONTROL screen (see page 39).

- FOLDER: All the tracks in the current (or specified) folder will be repeated.
  - "REPEAT FOLDER" appears on the MP3 CONTROL screen (see page 39).

- OFF: Track Repeat and Folder Repeat is canceled.
  All the tracks in the disc will be repeated.

Notes:
- *On some DVDs, Repeat Play may be canceled by the disc itself.*
- *On CD, VCD, and MP3 discs, Repeat Play mode cannot be turned off.*
- *Repeat Play mode will be canceled when you start playing back a VCD with the PBC function.*

ENGLISH

35

Random Play VCD CD MP3

You can play back tracks on a disc (or in a folder for MP3 discs) at random.

> • For VCD: While PBC (see page 32) is not in use.

Select the random mode you want.

RANDOM
R

The menu bar icon appears on the monitor to show the selected mode. Each time you press the button, the random mode changes as follows:

• For CD/VCD:

$$\text{DISC} \longleftrightarrow \text{OFF}$$

• DISC:	All the tracks in the disc will be played at random.
	• RND. indicator on the menu bar (see page 38) is highlighted in blue.
• OFF:	Random Play is canceled.

• For MP3:

$$\text{FOLDER} \longrightarrow \text{DISC}$$
$$\text{OFF}$$

• FOLDER:	All the tracks in the folder will be played at random, then move to the next folder and so on.
	• "RND FOLDER" appears on the MP3 CONTROL screen (see page 39).
• DISC:	All the tracks in the disc will be played at random.
	• "RND DISC" appears on the MP3 CONTROL screen (see page 39).
• OFF:	Random Play is canceled.

Intro Scan VCD CD MP3

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

> • For VCD: While PBC (see page 32) is not in use.

Select the intro scan mode you want.

INTRO
I

The menu bar icon appears on the monitor to show the selected mode. Each time you press the button, the intro scan mode changes as follows:

• For CD/VCD:

$$\text{TRACK} \longleftrightarrow \text{OFF}$$

• TRACK:	The beginnings of all the tracks in the disc will be played.
	• INTRO indicator on the menu bar (see page 38) is highlighted in blue.
• OFF:	Intro Scan is canceled.

• For MP3:

$$\text{TRACK} \longrightarrow \text{FOLDER}$$
$$\text{OFF}$$

• TRACK:	The beginnings of all the tracks in the disc will be played.
	• "INTRO TRACK" appears on the MP3 CONTROL screen (see page 39).
• FOLDER:	The beginnings of the first tracks in all folders will be played.
	• "INTRO FOLDER" appears on the MP3 CONTROL screen (see page 39).
• OFF:	Intro Scan is canceled.

Operations on the monitor screen

DVD VCD CD

You can show the on-screen bar on the monitor, and operate the disc using the on-screen bar.

Basic procedure for DVD, VCD and CD

1 Press OSD once.

A status bar for the type of disc inserted appears on the monitor.
• For details, see the left column.

Note:
When you start playing a CD, the status bar automatically appears.

2 Press OSD again.

A menu bar appears under the status bar.
• For details about the items on the menu bar, see page 38.

• For DVD

| DVD-VIDEO | □□ Digital **5.1ch** | TITLE 33 | CHAP 33 | TOTAL 1:25:58 | ▶ |
| TIME | ↻OFF | ⏱▶ | **CHAP.** ▶ | ⊙ 1/3 | □ 1/5 | ☎ 1/3 |

• For VCD

| VCD | | | | | TRACK 38 | TIME 25:58 | ▶ |
| TIME | ↻OFF | ⏱▶ | INTRO | RND. | ⊙ ST | |

• For CD

| CD | | | | TRACK 38 | TIME 25:58 | ▶ |
| TIME | ↻OFF | ⏱▶ | INTRO | RND. | |

Note:
While playing a CD Text, the disc information will also be shown on the monitor. (The maximum number of the characters shown on the monitor is 64, while 255 characters on the display of the receiver.)
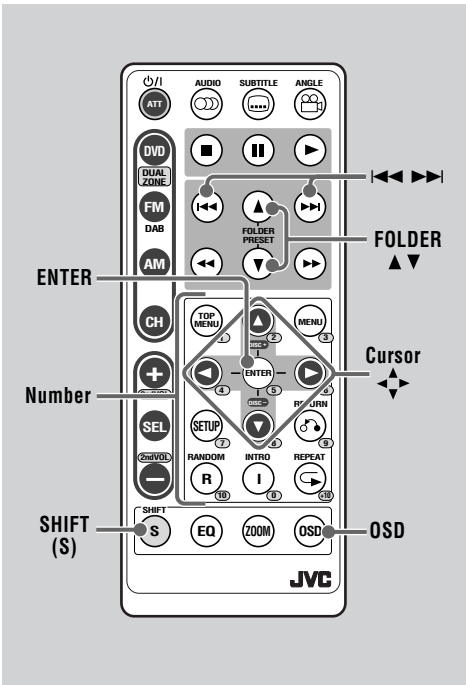
Status bars for DVD, VCD, and CD

• For DVD

| DVD-VIDEO | □□ Digital **5.1ch** | TITLE 33 | CHAP 33 | TOTAL 1:25:58 | ▶ |
| ① | ② | ③ | ④ | ⑤ | ⑥ |

• For VCD/CD

| CD | | | | TRACK 38 | TIME 25:58 | ▶ |
| ① | | | | ⑦ | ⑤ | ⑥ |

① Disc type—DVD-VIDEO, VCD, CD
② Audio signal format type (only for DVD)
③ Current title number (only for DVD)
④ Current chapter number (only for DVD)
⑤ Time information
⑥ Current operation mode—▶, II, ■, ▶▶, etc.
⑦ Current track number

Note:
While operating an MP3 disc on the monitor screen, see page 39.

ENGLISH

3 **Move ⬚ to an item on the menu bar, then press ENTER.**

The pull-down window for the selected items appears.

Ex. When selecting 🔁 (Repeat) for a DVD

When you select **INTRO** or **RND.** , the pull-down window does not appear. Skip the following steps.
• See the following explanation.

4 **Select an option or enter a chapter number.**
• For details, see the following explanation for each item.

5 **Finish the setting.**

The pull-down window goes off.

To erase the on-screen bar, press OSD once.

What you can do on the on-screen bars

TIME Change the time information on the status bar. Each time you press ENTER in step **4** , the following time information alternately appears.

For DVD:
• TOTAL: Current title elapsed time
• T.REM: Current title remaining time
• TIME: Current chapter elapsed time
• REM: Current chapter remaining time

For VCD and CD:
• TIME: Current chapter elapsed time
• REM: Current track remaining time
• TOTAL: Disc elapsed time
• T.REM: Disc remaining time

🔁 Select the Repeat Play modes. Each time you press cursor ▲ or ▼ in step **4**, the repeat mode changes.
• For available repeat modes, see page 35.

🕐➡ Activate Time Search.
Press the number buttons to enter the elapsed time to a particular point in step **4**.
• For details, see page 33.

CHAP.➡ Activate Chapter Search (only for DVD).
Press the number buttons to enter a chapter number in step **4**.
• For details, see page 34.

⬙ Select multi-audio sound (for DVD) or playback channel (for VCD).
Each time you press cursor ▲ or ▼ in step **4**, multi-audio or playback channel changes.
• For details, see page 30.

⬚ Select the subtitles (only for DVD).
Each time you press cursor ▲ or ▼ in step **4**, the subtitles change.
• For details, see page 30.

🎥 Select the multi-angle views (only for DVD).
Each time you press cursor ▲ or ▼ in step **4**, the multi-angle view change.
• For details, see page 31.

INTRO Turns on and off Intro Scan (only for VCD and CD).
Each time you press ENTER in step **3**, Intro Scan modes change.
• For details, see page 36.

RND. Turns on and off Random Play (only for VCD and CD).
Each time you press ENTER in step **3**, Random Play modes change.
• For details, see page 36.

Basic procedure for MP3 discs

While playing an MP3 disc, the following MP3 CONTROL screen always shows on the monitor. By referring to this screen, you can easily operate the MP3 disc.
- Up to 32 characters can be shown for the file names on the monitor, while 64 characters on the display of the receiver.
- For more details about MP3 discs, refer to "A Guide to MP3" (separate volume).

MP3 CONTROL screen

```
                ①            ②                    ③

  MP3 CONTROL  REPEAT TRACK   Time : 00:03:08

  Folder : 01 / 10            Track : 01 / 30   (Total 128)
  spring                      begonia.mp3
  sumer                       german chamomile.mp3
  fall                        kiwi fruit.mp3
  winter                      orchard grass.mp3
  sea                         petunia.mp3
                              north pole.mp3
                              begonia2.mp3
  Title :                     german chamomile2.mp3
    Begonia                   kiwi fruit2.mp3
  Artist :                    orchard grass2.mp3
    Annie Lim                 petunia2.mp3
  Album :                     north pole2.mp3
    Flowers

                ④            ⑤                    ⑥
```

① Currently activated play mode
② Elapsed playing time of the current track
③ Cursor (highlighted position)
④ ID3 Tag information (see page 80)
⑤ Folder column—folder names
   (Ex. The first folder is selected out of 10 folders)
   • Only 5 folders can be listed at a time.
⑥ Track column—track names
   (Ex. The first track is selected out of 30 tracks in the current folder. 128 tracks are included in the disc)
   • Only 12 tracks can be listed at a time.

Operations from the remote controller:

To select (highlight) a "Folder" column or "Track" column on the screen, press cursor ► or ◄.

To select a folder, press cursor ▲ or ▼ when the cursor (highlighted position) is in the "Folder" column.
If there are unshown folders, they will appear in this column as you selecting folders.
- By pressing FOLDER (PRESET) ▲ or FOLDER (PRESET) ▼, you can change the folder without respect to the cursor (highlighted) position.

To select a track, press cursor ▲ or ▼ when the cursor (highlighted position) is in the "Track" column.
If there are unshown tracks, they will appear in this column as you selecting tracks.
- By pressing ►►I or I◄◄, you can change the tracks without respect to the cursor (highlighted) position.

To select Repeat Play modes, press REPEAT (↻) repeatedly until the Repeat Play mode you want appears on the screen.
- For details about the Repeat Play modes, see page 35.

To select Random Play modes, press RANDOM (R) repeatedly until the Random Play mode you want appears on the screen.
- For details about the Random Play modes, see page 36.

To select Intro Scan modes, press INTRO (I) repeatedly until the Intro Scan mode you want appears on the screen.
- For details about the Intro Scan modes, see page 36.

Note:
When using the buttons on the control panel, you can use various methods for performing the above operations. These different methods are explained in "OTHER DISC OPERATIONS" on pages 42 to 49.

DUAL ZONE OPERATIONS

Listening with headphones

By connecting headphones to the 2nd AUDIO OUT plug on the rear, you can listen to the playback sound through the DVD/CD player while listening to another source (except AM) through the speakers.

You can activate Dual Zone while listening to any source.

• You can operate the DVD/CD player using the remote controller.
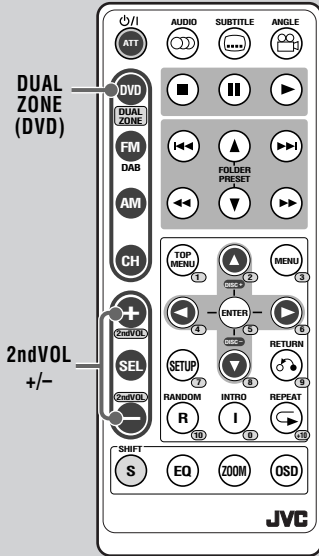
1 While holding SHIFT (S), press DUAL ZONE (DVD) to activate Dual Zone.

Each time you press DUAL ZONE (DVD), Dual Zone is turned "On" and "Off" alternately.
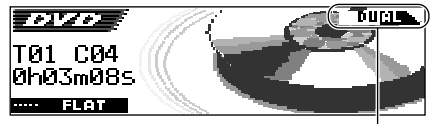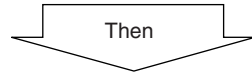
Then

DUAL indicator appears.

The source automatically changes to "DISC."

To select a different source (except AM) to listen through the speakers, press SRC on the control panel. By using the buttons on the control panel, you can operate the newly selected source without affecting Dual Zone operations.

• DO NOT put on the headphones while driving a car. It is dangerous to shut off the outside sounds while driving.
• DO NOT put on the headphones before adjusting the headphone volume level properly; otherwise, it may damage your hearing.

For Dual Zone operations, aim the remote controller at the remote sensor on the receiver as usual, not at the monitor.

40

2 Adjust the headphone volume through the 2nd AUDIO OUT plug.

SHIFT
S

2ndVOL ➕

2ndVOL ➖

3 Operate the DVD/CD player using the remote controller by referring to the monitor screen.

• When Dual Zone is in use, you can only operate the DVD/CD player using the remote controller.
To control the other sources (except AM) while Dual Zone is activated, use the buttons on the control panel.

On the control panel:
You can also activate and deactivate Dual Zone, but can neither control the DVD/CD player nor adjust the headphone volume level.

• **To adjust the headphone level,** use the remote controller.

1 Press MODE (M) to enter the functions mode while listening to any source.
"Mode" appears on the display.

MODE
M

2 Press number button 6 while "Mode" is still on the display.

12
6

DUAL ZONE

Then

DVD
T01 C04
0h03m08s
FLAT
DUAL
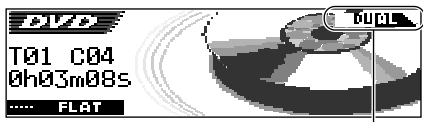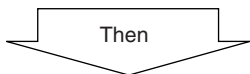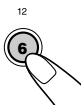
DUAL indicator appears.

The source automatically changes to "DISC."

To cancel Dual Zone operations, repeat steps 1 and 2 ("Dual Zone Off" appears on the display.)

When the sounds through the rear speakers are troublesome while listening with the headphones
You can deactivate the rear speaker sound output.
• See also "Changing the general settings (PSM)" on page 57.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press number button 5 to select "AUDIO"— Audio category of the PSM settings.
3 Press ▶▶I ∧ or ∨ I◀◀ to select "Rear SPK."
4 Turn the control dial counterclockwise to select "Off."
5 Press SEL (select) to finish the setting.

To reactivate the rear speakers, repeat the same procedure and select "On" in step 4 by turning the control dial clockwise.

OTHER DISC OPERATIONS
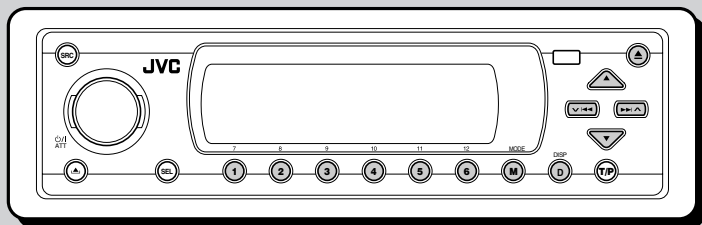
In this section, you can learn how to use the buttons on the control panel in order to operate the DVD/CD player.

Basic disc playback

To stop playback

Press ▼ (down).
• This unit can remember the end point, and when you start playback again, playback begins from where it has been stopped. (Resume play)

To start playback again

Press ▲ (up).
Playback begins from where it has been stopped.

Normally disc playback automatically starts in the following cases:
• **When you insert a disc**
  Playback starts from the beginning of the disc.
• **When change the source to "DISC" (DVD/CD player) if a disc has been inserted**
  Playback starts from where it has been stopped. (Resume play)

Note:
If you press the button during DVD playback, the playback position moves back about 10 seconds before the current position. (See page 28: One Touch Replay)

To eject a disc

Press ▲.
Playback stops and the control panel flips down. The disc comes out of the loading slot.

To fast-forward or reverse the chapter/track (Forward/Reverse Search)
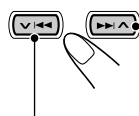
Press and hold ►►⌃ ⌃, while playing a disc, to fast-forward the chapter/track. The search speed changes: x2 ➡ x10.
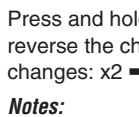
Press and hold ⌄ ◄◄, while playing a disc, to reverse the chapter/track. The search speed changes: x2 ➡ x10.

Notes:
• *When playing an MP3 disc, no sound comes out during Search.*
• *When playing a DVD or VCD, no sound comes out during x10 Search.*
• *Reverse Search stops automatically when it reaches the beginning of the disc. Playback resumes at normal speed.*

To go to the next or previous chapter/tracks

• For DVD: During play or pause.
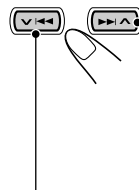
Press ►►⌃ ⌃ briefly to go ahead to the beginning of the next chapter/track.
Each time you press the button consecutively, the beginning of the next chapter/track is located and played back.

Press ⌄ ◄◄ briefly to go back to the beginning of the current chapter/track.
Each time you press the button consecutively, the beginning of the previous chapter/track is located and played back.

Note:
Playback will not start automatically if you locate the chapter/track while a disc is pausing or not playing.

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Locating a title/chapter/track on a disc

While playing a DVD:

> DVD
> T01 C01
> 0h00m23s
> Mode +10▲
> Chapter
> -10▼
> RPT   OFF   DUAL

To locate a particular title/chapter/track directly

• For DVD: During play or pause—select a
   chapter
   While stopped—select a title
• For VCD: While PBC (see page 32) is not in
   use.

While playing a VCD or CD:

> CD
> TRK- 15
> 00'23"
> Mode +10▲
> Track
> -10▼
> INTRO RPT RND OFF   DUAL

While playing an MP3 disc:

> CD
> 01- 01
> 00'23"
> Mode +10▲
> Track
> -10▼
> INTRO RPT RND OFF   DUAL

```
  7      8      9      10     11     12

 (1)    (2)    (3)    (4)    (5)    (6)
```
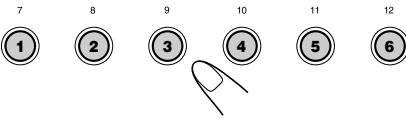
Press the number button corresponding to the
title/chapter/track number to start its playback.
• To select a number from 1 – 6:
   Press 1 (7) – 6 (12) briefly.
• To select a number from 7 – 12:
   Press and hold 1 (7) – 6 (12) for more than 1
   second.

2 Press ▲ (up) or ▼ (down), while
   "Mode" is still on the display.
   First time you press ▲ (up) or ▼
   (down), the chapter/track skips
   to the nearest higher or lower chapter/track
   with a chapter/track number of an even
   multiple ten (ex. 10th, 20th, 30th).
   Then, each time you press the button, you can
   skip 10 chapters/tracks (see "How to go to the
   desired chapter/track quickly" that follows).

Notes:

• *If you directly select the track number for a VCD
  with the PBC function while it is not playing,
  playback starts with PBC function canceled. (See
  page 32).*
• *Playback will not start automatically if you select a
  chapter or track during pause.*
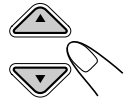
Notes:

• *For CD and VCD: If you perform this operation
  while a disc is not playing, playback will not start
  automatically.*
• *Except for DVD: After the last track, the first track
  will be selected, and vice versa.*
• *While playing an MP3 disc, this operation is
  possible only within a folder.*

To go to a chapter/track quickly

• For DVD: During play or pause.
• For VCD: While PBC (see page 32) is not in
   use.

1 Press MODE (M) to enter the
   functions mode.
   "Mode" appears on the display.

MODE
(M)

How to go to the desired chapter/track quickly

• Ex. 1: To select chapter/track number 32 while playing chapter/track number 6

MODE

| Chapter/ track 6 | (Three times) ➡ 10 ➡ 20 ➡ 30 | (Twice) ➡ 31 ➡ 32 |
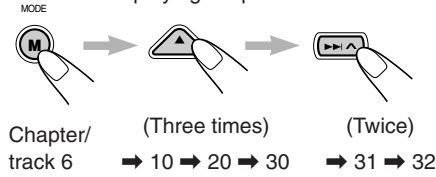
• Ex. 2 : To select chapter/track number 8 while playing chapter/track number 36

MODE

| Chapter/ track 36 | (Three times) ➡ 30 ➡ 20 ➡ 10 | (Twice) ➡ 9 ➡ 8 |
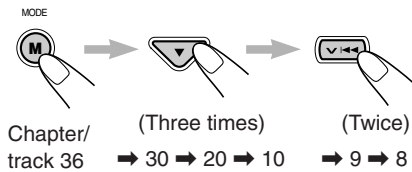
To skip to the next or previous folder
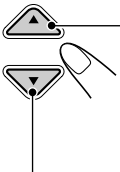
Press ▲ (up) while playing a disc to skip to the next folder.
Each time you press the button consecutively, the next folder is located and the first track in the folder starts playing.

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 track in the folder starts playing.

Note:
If the folder does not contain any MP3 tracks, it is skipped.

Selecting a folder/track to play using the lists

You can show the folder name and track name lists on the display while playing a disc, then select the folder or track you want.

To select a folder and start playback

1 **Press and hold ▲ (up) or ▼ (down) so that the folder name list of the inserted disc appears on the display.**

The name of the currently playing folder will be highlighted on the display.
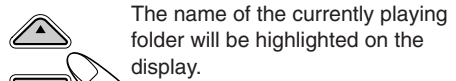
Current folder number

Notes:
• *The display can show only six items at a time. You can show the other items on the next lists by pressing ▲ (up) or ▼ (down).*
• *If you press ►►⏐ ⋀ or ⋁ ⏐◄◄, the track name list of the current playing folder appears. (See the following column.)*
• *Only folders including MP3 tracks will be listed.*

2 **Select the number (1 – 6) for the folder you want to play.**
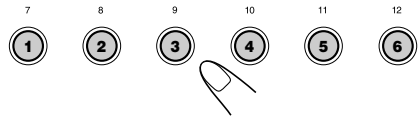
To select a track and start playback

1 Press and hold ▲ (up) or ▼ (down) so that the folder name list of the inserted disc appears on the display.

The name of the currently playing folder will be highlighted on the display.

Current folder number

```
┌────────────────────────────┐
│ CD        ①DISCO    ④Is-m   │
│ [01-]     ②POPS     ⑤Bphex  │
│ Folder    ③K-Shi    ⑥SLK    │
│ ····· FLAT                  │
└────────────────────────────┘
```
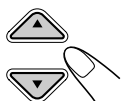
2 Press ►►| ∧ or ∨ |◄◄ to show the track list of the current folder.
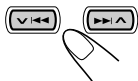
Each time you press the button, the lists on the display changes as follows:

Folder name list ◄──► **Track name list**

Current track number
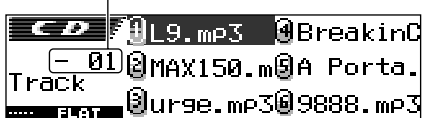
```
┌────────────────────────────┐
│ CD        ①L9.mp3   ④BreakinC│
│ [- 01]    ②MAX150.m ⑤A Porta.│
│ Track     ③urge.mp3 ⑥9888.mp3│
│ ····· FLAT                  │
└────────────────────────────┘
```

Note:
The display can shows only six items at a time. You can show the other items on the next lists by pressing ▲ (up) or ▼ (down).

3 Select the number (1 – 6) for the track you want to play.

```
  7    8    9   10   11   12
 (1)  (2)  (3)  (4)  (5)  (6)
```
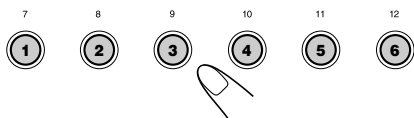
Selecting playback modes

Repeat Play

ALL

You can repeat a title, chapter, track, or disc.

- For DVD: During play or pause.
- For VCD: While PBC (see page 32) is not in use.

1 Press MODE (M) to enter the functions mode. "Mode" appears on the display.

MODE
(M)

```
┌────────────────────────────┐
│ CD              Mode  +10▲  │
│ TRK- 15               Track │
│ 00'23"                -10▼  │
│ INTRO RPT RND OFF        DUAL│
└────────────────────────────┘
```
Ex. While playing a CD
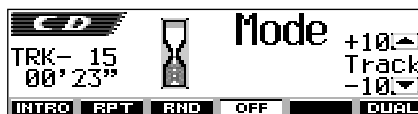
```
┌────────────────────────────┐
│ DVD             Mode  +10▲  │
│ T01 C01              Chapter│
│ 0h00m23s              -10▼  │
│       RPT    OFF         DUAL│
└────────────────────────────┘
```
Ex. While playing a DVD

2 Press number button 2, while "Mode" is still on the display. Each time you press the button, repeat play mode changes as follows:

```
┌────────────────────────────┐
│ CD              Repeat      │
│ TRK- 15         Track       │
│ 00'03"                      │
│ INTRO RPT RND OFF        DUAL│
└────────────────────────────┘
```

```
  7    8    9   10   11   12
 (1)  (2)  (3)  (4)  (5)  (6)
```

Ex. While playing a CD

• For DVD:

```
   ┌─→ Chapter ──→ Title ─┐
   └──────── Off ◄─────────┘
```
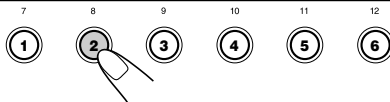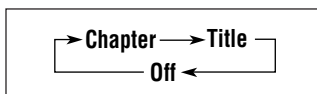
• Chapter:	Current (or specified) chapter will be repeated. • **C-RPT** indicator appears on the display.
• Title:	Current title will be repeated. • **T-RPT** indicator appears on the display.
• Off:	Repeat Play is canceled.

• For CD/VCD:

```
   Track ◄────────► Off
```

• Track:	Current (or specified) track will be repeated. • **♪ RPT** indicator appears on the display.
• Off:	All the tracks in the disc will be repeated.

• For MP3:

```
   ┌─→ Track ──→ Folder ─┐
   └──────── Off ◄────────┘
```

• Track:	Current (or specified) track will be repeated. • **♪ RPT** indicator appears on the display.
• Folder:	All the tracks in the current (or specified) folder will be repeated. • **▣ RPT** indicator appears on the display.
• Off:	All the tracks in the disc will be repeated.

To cancel Repeat Play, select "Repeat Off" by pressing number button 2 repeatedly or press number button 4 in step **2**.

Notes:
- *On some DVDs, Repeat Play may be canceled by the disc itself.*
- *On CD, VCD, and MP3 discs, Repeat Play mode cannot be turned off.*
- *Repeat Play mode will be canceled when you start playing back a VCD with the PBC function.*

Random Play

You can play back tracks on a disc (or in a folder) at random.

1 Press MODE (M) to enter the functions mode.
"Mode" appears on the display.

2 Press number button 3, while "Mode" is still on the display.
Each time you press the button, Random Play mode changes as follows:

```
  CD           Random
TRK- 03          Disc
INTRO  RPT  RND  OFF        DUAL
  7     8    9   10    11    12
 (1)   (2)  (3)  (4)  (5)   (6)
```
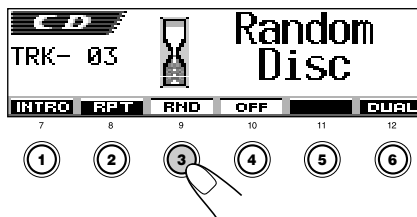
Ex. While playing a CD

• For CD:

$$Disc \longleftrightarrow Off$$

• Disc:	All the tracks in the disc will be played at random.	
	• ◗ RND indicator appears on the display.	
• Off:	Random Play is canceled.	

• For MP3:

$$Folder \longrightarrow Disc$$
$$Off \longleftarrow$$
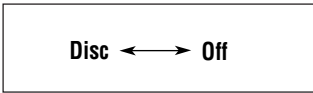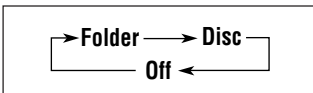
• Folder:	All the tracks in the folder will be played at random, then move to the next folder and so on.
	• 🗀 RND indicator appears on the display.
• Disc:	All the tracks in the disc will be played at random.
	• ◗ RND indicator appears on the display.
• Off:	Random Play is canceled.

To cancel Random Play, select "Random Off" by pressing number button 3 repeatedly or press number button 4 in step **2**.

Intro Scan

CD MP3

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

MODE

1 Press MODE (M) to enter the functions mode.
"Mode" appears on the display.
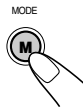
2 Press number button 1, while "Mode" is still on the display.
Each time you press the button, Intro Scan play mode changes as follows:
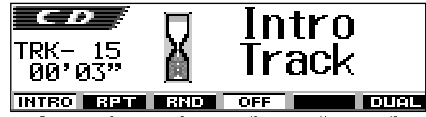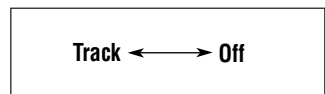
CD
TRK- 15
00'03"
Intro Track

INTRO RPT RND OFF   DUAL
  7   8   9   10   11   12
 (1)   (2) (3) (4) (5) (6)

Ex. While playing a CD

• For CD:

$$Track \longleftrightarrow Off$$

• Track:	The beginnings of all the tracks in the disc will be played.
	• ♪ INT indicator appears on the display.
• Off:	Intro Scan is canceled.

• For MP3:
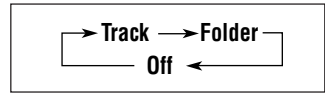
$$Track \longrightarrow Folder$$
$$Off \longleftarrow$$

• Track:	The beginnings of all the tracks in the disc will be played.
	• ♪ INT indicator appears on the display.
• Folder:	The beginnings of the first tracks in all folders will be played.
	• 🗀 INT indicator appears on the display.
• Off:	Intro Scan is canceled.

To cancel Intro Scan, select "Intro Off" by pressing number button 1 repeatedly or press number button 4 in step **2**.

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Prohibiting disc ejection

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

While pressing SRC, press and hold ⏻/I ATT for more than 2 seconds.
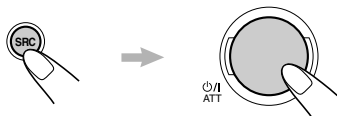
"No Eject" flashes on the display for about 5 seconds, and the disc is locked and cannot be ejected.

To cancel the prohibition and unlock the disc
While pressing SRC, press ⏻/I ATT again for more than 2 seconds.
"Eject OK" flashes on the display for about 5 seconds, and the disc is unlocked.

Changing the display pattern

By pressing DISP (D), you can change the information shown on the display.
• If the information cannot be shown at a time, it will scroll on the display.
  Some characters or symbols will not be shown (will be blanked or substituted) on the display.

Each time you press the button, the display patterns change as follows:

While playing a DVD:
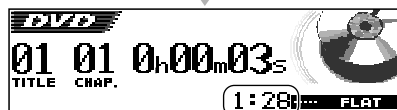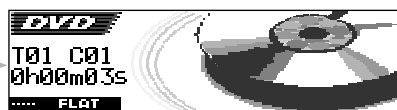
Clock time

While playing a VCD:

Clock time

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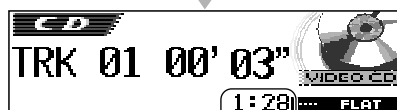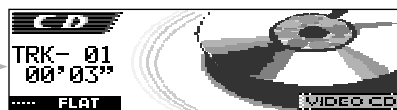
While playing a CD Text (or CD):

Clock time

While playing an MP3 disc:

Clock time
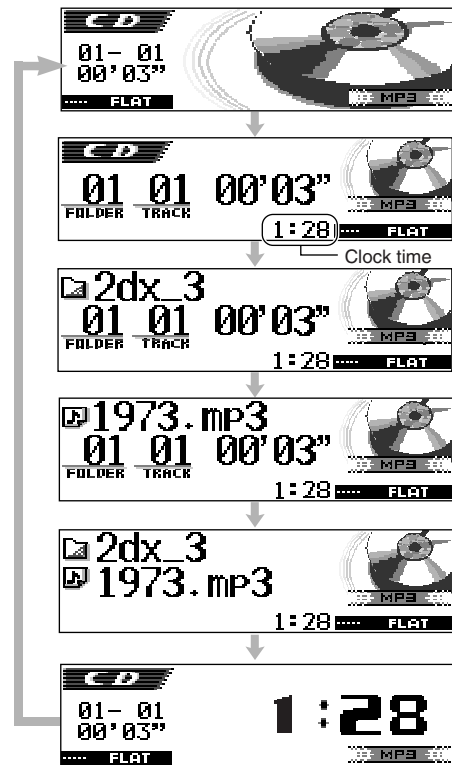
The above diagram shows examples of the display when "Tag" is set to "Off."

Notes:
- *When the disc title/performer is shown, the* ⬤ *(disc) indicator lights up. When the track title is shown, the* ♪ *(track) indicator lights up.*
- *If no name is assigned to the conventional CD, "NO NAME" will appear. To assign a name to a conventional CD, see page 64.*
- *If no disc title/performer or no track title is recorded for the CD Text, "NO NAME" will appear.*

Notes:
- *When the folder name is shown, the* 🗀 *(folder) indicator lights up. When the file name is shown, the* 🎵 *(file) indicator lights up.*
- *If "Tag" is set to "On" (see page 60), ID3 tag information will appear on the display if the disc has an ID3 tag. The* ⬛ *(disc) indicator appears for album name/performer; while the* ♪ *(track) indicator appears for track title.*

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DVD SETUP MENU

You can store the initial selection for subtitle languages, audio languages, and other settings using the Setup Menu.
• DVD Setup menu can only be displayed while a disc, except MP3 disc, is inserted and selected for the playback source.

The following operations are only possible using the remote controller, and by referring to the monitor screen.
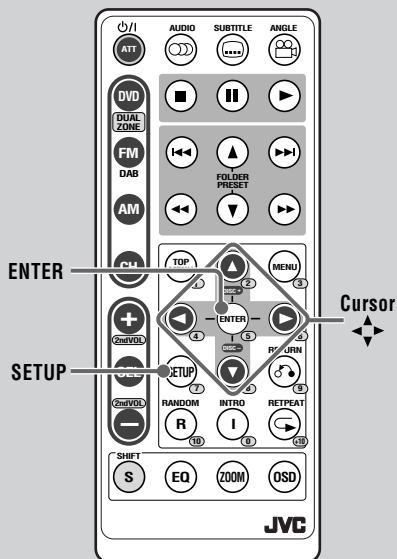
Basic setting procedure

1 Show the Setup menu (LANGUAGE menu) on the monitor.

LANGUAGE
MENU LANGUAGE	ENGLISH
AUDIO LANGUAGE	ENGLISH
SUBTITLE	ENGLISH
ON SCREEN LANGUAGE	ENGLISH
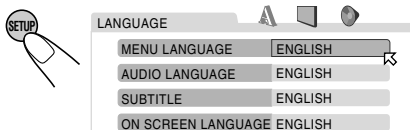
2 Select which Setup menu screen you want to use.

Each time you press the button, the Setup menus change as follows:

LANGUAGE ←→ PICTURE ←
→ AUDIO ←

AUDIO
DIGITAL AUDIO OUTPUT	STREAM/PCM
ANALOG DOWN MIX	STEREO
D. RANGE COMPRESSION	ON
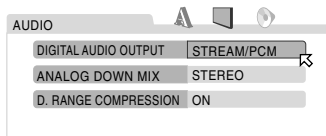
EX. When selecting the AUDIO screen

3 Move ⊠ (cursor) to an item you want to set up.

AUDIO
DIGITAL AUDIO OUTPUT	STREAM/PCM
ANALOG DOWN MIX	STEREO
D. RANGE COMPRESSION	ON
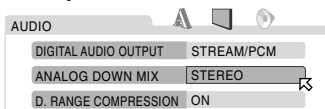
EX. When selecting ANALOG DOWN MIX

4 Press ENTER.

The pop-up window listing the selectable options appear on the screen.

AUDIO
DIGITAL AUDIO OUTPUT	STREAM/PCM
ANALOG DOWN MIX	STEREO DOLBY SURROUND STEREO
D. RANGE COMPRESSION	

ENTER

Cursor

SETUP

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5 Move ⊳ (cursor) to select an option.

AUDIO

DIGITAL AUDIO OUTPUT	STREAM/PCM
ANALOG DOWN MIX	STEREO / DOLBY SURROUND
D. RANGE COMPRESSION	STEREO

6 Confirm and enter your selection.

ENTER

AUDIO

DIGITAL AUDIO OUTPUT	STREAM/PCM
ANALOG DOWN MIX	DOLBY SURROUND
D. RANGE COMPRESSION	ON
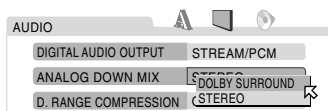
To set other items on the same menu screen

Repeat steps *3* to *6*.

To set other items on other menu screens

Repeat steps *2* to *6*.
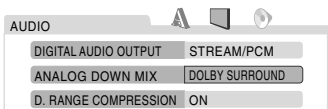
To return to the normal screen

Press SETUP.

LANGUAGE

LANGUAGE

MENU LANGUAGE	ENGLISH
AUDIO LANGUAGE	ENGLISH
SUBTITLE	ENGLISH
ON SCREEN LANGUAGE	ENGLISH

SELECT USE ▲▼◄► TO SELECT, USE ENTER TO CONFIRM.
ENTER TO EXIT, PRESS SETUP.
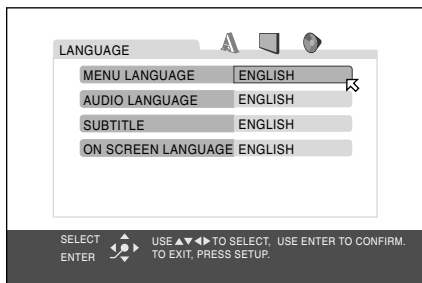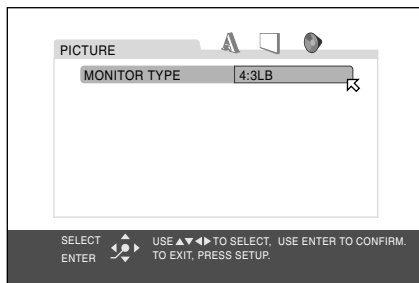
You can select the initial languages for the disc menu, audio, and subtitle.
You can also select the language for the Setup menu and some indications shown on the monitor.

AUDIO

AUDIO

DIGITAL AUDIO OUTPUT	STREAM/PCM
ANALOG DOWN MIX	STEREO
D. RANGE COMPRESSION	ON

SELECT USE ▲▼◄► TO SELECT, USE ENTER TO CONFIRM.
ENTER TO EXIT, PRESS SETUP.

You can adjust the output sounds through this unit.

PICTURE

PICTURE

MONITOR TYPE	4:3LB

SELECT USE ▲▼◄► TO SELECT, USE ENTER TO CONFIRM.
ENTER TO EXIT, PRESS SETUP.
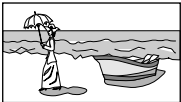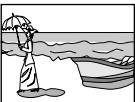
You can select the desired options concerning picture size on the monitor.

Items		For what and options
LANGUAGE	**MENU LANGUAGE** *1	Select the initial disc menu language.
		ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, and language codes from AA to ZU (see page 79).
	AUDIO LANGUAGE *1	Select the initial audio language.
		ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, and language codes from AA to ZU (see page 79).
	SUBTITLE *1	Select the initial subtitle language.
		OFF (no subtitles), ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, and language codes from AA to ZU (see page 79).
	ON SCREEN LANGUAGE	Select the language for the Setup menu and some indications shown on the monitor.
		ENGLISH, FRENCH, and GERMAN
PICTURE	**MONITOR TYPE** 16:9 4:3 LB 4:3 PS	Select the monitor type to watch a wide screen picture on your monitor. • **16:9 NORMAL** *2 Select this when the aspect ratio of your monitor is 16:9 and it does not have the screen size adjustment function. • **16:9 AUTO** Select this when the aspect ratio of your monitor is 16:9 and it has the screen size adjustment function. • **4:3 LB** (Letter Box) Select this when the aspect ratio of your monitor is 4:3. While viewing a wide screen picture, the black bars appear on the top and the bottom of the screen. • **4:3 PS** (Pan Scan) *3 Select this when the aspect ratio of your monitor is 4:3. While viewing a wide screen picture, the black bars do not appear; however, the left and right edges of the pictures will not be shown on the screen.

*1 • *When the language you have selected is not recorded on a disc, the original language is automatically used as the initial language. In addition, for some discs, the initial languages settings will not work as you set due to their internal disc programming.*
   • *While playing (or pausing), you cannot change these languages.*
   After you change any of these language settings, eject the disc and insert it (or another disc) again so that your setting takes effect.
*2 *When you select "16:9 NORMAL" for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.*
*3 *Even if "4:3 PS" is selected, the screen size may become "4:3 LB" with some DVDs. This depends on how they are recorded.*

Items		For what and options
AUDIO	**DIGITAL AUDIO OUTPUT**	Select the signal format to be emitted through the DIGITAL OUT (Optical) terminal on the rear. • **PCM ONLY** Select this when connecting an amplifier or a decoder incompatible with Dolby Digital and DTS, or connecting to a recording device. • **DOLBY DIGITAL/PCM** Select this when connecting an amplifier or a decoder compatible with Dolby Digital. • **STREAM/PCM** Select this when connecting an amplifier or a decoder compatible with Dolby Digital and DTS.
	ANALOG DOWN MIX	When playing back a multi-channel DVD disc, this setting affects the sounds reproduced through the analog terminals. • **STEREO** Normally select this to enjoy and reproduce conventional 2-channel stereo sound from the original multi-channel sounds. • **DOLBY SURROUND** Select this when you want to enjoy multi-channel surround audio by connecting an amplifier compatible with Dolby Surround to this receiver.
	D.RANGE COMPRESSION	You can enjoy a powerful sound at low or middle volume levels while playing a Dolby Digital software. • **AUTO**: Select this to apply the effect to multi-channel encoded software (excluding 1 channel and 2 channel software). • **ON**: Select this to always use this function.

🎵 SOUND ADJUSTMENTS

Operations of this section are explained using the buttons on the control panel unless mentioned otherwise.

Adjusting the sound

You can adjust the sound characteristics to your preference.
• "Vol Adj" setting is required for each source except FM. Before starting "Vol Adj," select an appropriate source for which you want to make an adjustment.

1 Press SEL (select) repeatedly to show one of the basic sound setting (SEL) screens.

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

iEQ → Fad/Bal → Vol Adj
Basic sound settings
Canceled ← METER
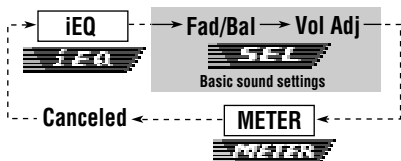
• For iEQ (sound mode) settings, see pages 55 and 56.
• For METER (level meter) settings, see page 10.

Note:
You can also use the SEL button on the remote controller to call up the fader/balance adjustment screen.

Indication	To do:	Range
Fad*	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)
Vol Adj	Adjust and store the input level of each source.	–12 (min.) | +12 (max.)

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

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2 Make adjustments.

• **To adjust fader and balance—Fad, Bal:**
You can make these two adjustments at the same time, by referring to the indication on the display.
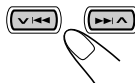
• Press ▲ (up) or ▼ (down) to adjust the fader.
• Press ►► ∧ or ∨ ◄◄ to adjust the balance.

Fad 00
Bal 00

Note:
You can also use the ►► ∧ or ∨ ◄◄ buttons and FOLDER PRESET ▲ (up) or FOLDER PRESET ▼ (down) on the remote controller for adjustment.

• **To adjust the input level of each source —Vol Adj:**
This setting is required for each source except FM. Before making an adjustment, select an appropriate source for which you want to make an adjustment.
Once you have made an adjustment, it is memorized, and you will not need to adjust the volume level each time you change the source.

Adjust to match the input level to the FM sound level.
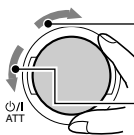
To increase the level

To decrease the level

Vol Adj
00
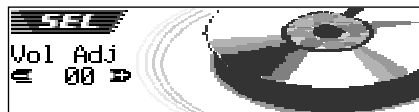
Selecting preset sound modes (iEQ: intelligent equalizer)

You can select a preset sound mode (iEQ: intelligent 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.

Available sound modes:

• **FLAT**
(Flat)
• **H.ROCK**
(Hard Rock)
• **R & B**
(Rhythm and Blues)
• **POP**
(Popular music)
• **JAZZ**
(Jazz music)
• **DANCE**
(Dance music)

• **Country**
(Country music)
• **REGGAE**
(Reggae)
• **CLASSIC**
(Classical music)
• **USER 1**
• **USER 2**
• **USER 3**

1 Press SEL (select) once to show the sound selection screen.

Last selected sound mode is called up.

Ex.: If you have selected "Flat" previously

• If you press the button more than twice, the unit enters different sound adjustment modes.

• For SEL (basic sound) settings, see page 54.
• For METER (level meter) settings, see page 10.

2 Press the number button to select the sound mode you want.

• This unit has two sound mode selection screens. To move to the other screen, press ▲ (up) or ▼ (down).

Press ▲ (up) or ▼ (down).

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

To exit from the preset sound mode (iEQ), press SEL (select) repeatedly or wait for about 5 seconds.

Note:
For details about the preset settings of each sound mode, see page 78.

When using the remote controller
Press EQ (equalizer) repeatedly until the preset mode you want is selected.

Storing your own sound adjustments

You can adjust the sound modes to your preference and store your own adjustments in memory (User 1, User 2, and User 3).
• There is a time limit in doing the following procedure. If the setting is canceled before you finish, start from step *1* again.

1 Press SEL (select) once to show the sound selection screen.

Last selected sound mode is called up.
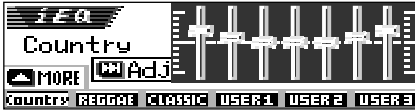
Ex.: When you have selected "Country" previously

2 Select the sound mode you want to adjust.
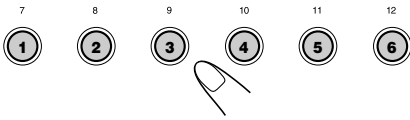
• This unit has two sound mode selection screens. To move to the other screen, press ▲ (up) or ▼ (down).

3 Enter the sound adjustment mode.
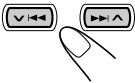
The following sound mode adjustment screen appears on the display.
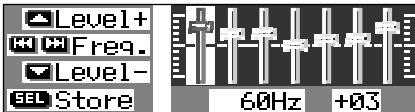
4 Make adjustments as you like.
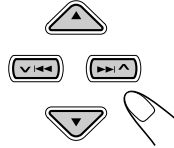
1) Press ▶▶ ⌃ or ⌄ ◀◀ to select the frequency band—60Hz, 150Hz, 400Hz, 1kHz, 2.4kHz, 6kHz, 12kHz.

2) Press ▲ (up) or ▼ (down) to adjust the level of the selected band within the range of –05 to +05.

3) Repeat steps 1) and 2) to adjust the other frequency bands.

5 Store the adjustment you made.

The confirmation message appears—whether you want to store the adjustment.
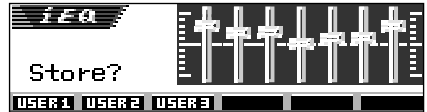
If you want to cancel the adjustments, press DISP (D).
• Adjustment you made remains effective until you select another sound mode.

6 Select one of the user sound modes (User 1, User 2, or User 3) you want to store into.
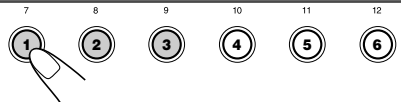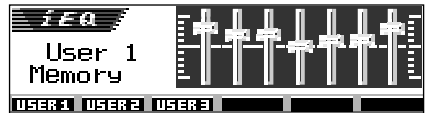
Ex.: When you select "User 1"

Operations of this section are explained using the buttons on the control panel unless mentioned otherwise.

Changing the general settings (PSM)

You can change the items listed in the table on pages 58 and 59 by using the PSM (Preferred Setting Mode) control.

• The PSM items are grouped into six categories—MOVIE, CLOCK, DISP (display), TUNER, AUDIO, and COLOR.

Basic Procedure

Ex. To change "Contrast"

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


```
PSM          ⊟Graphics  ⊟
Movie        ⊟ Int Demo  ⊟
MOVIE CLOCK DISP TUNER AUDIO COLOR
```
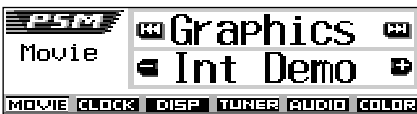
2 **Press number button (in this example, 3) to select one of the PSM categories.**

```
PSM          ⊟ Scroll    ⊟
Display      ⊟ Once      ⊟
MOVIE CLOCK DISP TUNER AUDIO COLOR
```
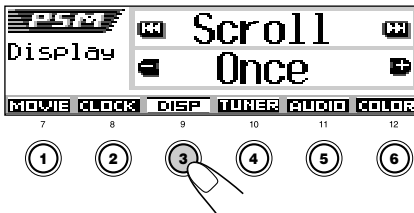
The first-listed item in the selected category appears.

3 **Select the PSM item you want to adjust.**

```
PSM          ⊟Contrast  ⊟
Display      ⊟    5      ⊟
MOVIE CLOCK DISP TUNER AUDIO COLOR
```
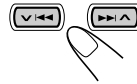
• By pressing ►►I ∧ or ∨ I◄◄ repeatedly, you can also move to other categories.

4 **Adjust the PSM item selected.**

```
PSM          ⊟Contrast  ⊟
Display      ⊟    8      ⊟
MOVIE CLOCK DISP TUNER AUDIO COLOR
```
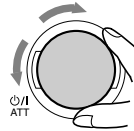
5 **Repeat steps 2 to 4 to adjust the other PSM items if necessary.**

6 **Finish the setting.**

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Preferred Setting Mode (PSM) items

	Indications		Selectable values/items		Factory-preset settings	See page
MOVIE	**Graphics**	Movie demonstration	All Demo ↔ Int Demo ↱ Off ↰		Int Demo	9, 59
	KeyIn CFM	Key in confirmation	Long ↔ Short ↱ Off ↰		Long	59
CLOCK	**Clock Hr**	Hour adjustment	0 – 23 (1 – 12)		0 (0:00)	9
	Clock Min	Minute adjustment	00 – 59		00 (0:00)	9
	24H/12H	24 hours or 12 hours	12Hours	24Hours	24Hours	10
DISP (display)	**Scroll**	Scroll mode	Once ↔ Auto ↱ Off ↰		Once	59
	Dimmer	Dimmer mode	Auto ↔ Off ↱ Time Set ↔ On ↰		Auto	61
	From– To[1]	Dimmer time setting	Any time – Any time		18 – 7	61
	Contrast	Contrast	1 – 10		5	60
	LCD Type	Display type	Positive ↔ Negative ↱ Auto ↰		Auto	60
	Font Type	Font type	1	2	1	60
	Tag	Tag display	Off	On	On	60
TUNER	**PTY Stnby**	PTY standby	See page 23.		News	19
	AF-Regn'l	Alternate frequency/ Regionalization reception	AF ↔ AF Reg ↱ Off[2] ↰		AF	18
	TA Volume	Traffic announcement volume	Volume 0 — Volume 50		Volume 20	22
	P-Search	Program search	Off	On	Off	22
	DAB AF[3]	Alternative frequency search	Off	On	On	76
AUDIO	**Beep**	Key-touch tone	Off	On	On	60
	Ext Input[4]	External component	Changer	Line In	Changer	60
	Rear SPK	Rear speaker output	Off	On	On	41
	Telephone	Telephone Muting	Muting1 ↔ Muting2 ↱ Off ↰		Off	60

Indications		Selectable values/items		Factory-preset settings	See page
COLOR	**All SRC** Selected source	See page 62 for details		Every	62
	User User color selection	Day	Night	Day	63
	R Red	00 – 11		Day: 07/Night: 05	63
	G Green	00 – 11		Day: 07/Night: 05	63
	B Blue	00 – 11		Day: 07/Night: 05	63

[1] Displayed only when "Dimmer" is set to "Time Set."
[2] Displayed only when "DAB AF" is set to "Off."
[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 set the movie demonstration—Graphics

When shipped from the factory, the movie has been activated.

- All Demo: If no operation is done for about 20 seconds, the movie demonstration starts automatically.
- Int Demo: If no operation is done for about 20 seconds, the movie demonstration and playback source indication appears alternately on the display.
- Off: Cancels the movie demonstration.

To select the source animation on the display—KeyIn CFM

When changing the source, the display shows the source animation. You can select the source animation on the display according to your preference.

- Long: A long source animation appears.
- Short: A short source animation appears.
- Off: Cancels the source animation.

To select the scroll mode—Scroll

You can select the scroll mode for the disc information and for the DAB radio text (DLS: Dynamic Label Segment).

- Once: While showing the disc information: scrolls the disc information only once. While showing the DAB text: scrolls the detailed DAB text only once.
- Auto: While showing the disc information: repeats the scroll (in 5-second intervals). While showing the DAB text: scrolls the detailed DAB text only once.
- Off: While showing the disc information: cancels scroll mode. While showing the DAB text: shows only headline if any.

Note:
Even if the scroll mode is set to "Off," you can scroll the display by pressing DISP (D) for more than one second.

To adjust the display contrast level —Contrast

You can adjust the display contrast level among 1 to 10.
Adjust it to make the display indications clear and legible.

To select the display illumination pattern —LCD Type

You can select the display illumination patterns according to your preference.

• Auto: Positive pattern will be selected during the day time (depending on the "Dimmer" setting); on the other hand, negative pattern will be used during the night time (depending on the "Dimmer" setting).
• Positive: Positive (normal) pattern of the display.
• Negative: Negative pattern of the display.

To select the font on the display —Font Type

You can change the font types used on the display. Select either "1" or "2" according to your preference.

To turn the tag display on or off—Tag

An MP3 file can contain file information called "ID3 Tag" where its album name, performer, track title, etc. are recorded.
There are two versions–ID3v1 (ID3 Tag version 1) and ID3v2 (ID3 Tag version 2). Only ID3v1 can be shown.

• On: Turns on the ID3 tag display while playing MP3 files.
   • If an MP3 file does not have ID3 tags, folder name and file name appear.

   Note:
   If you change the setting from "Off" to "On" while playing an MP3 file, the tag display will be activated when the next file starts playing.

• Off: Turns off the ID3 tag display while playing MP3 files. (Only the folder name and file name can be shown.)

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.

• On: Activates the key-touch tone.
• Off: Deactivates the key-touch tone.

To select the telephone muting— Telephone

This mode is used when a cellular phone system is connected. Depending on the phone system used, select either "Muting1" or "Muting2," whichever mutes the sounds from this unit.
• Muting1: Selects this if this setting can mute the sounds when using the cellular phone.
• Muting2: Selects this if this setting can mute the sounds when using the cellular phone.
• Off: Cancels the telephone muting.

To select the external component to use —Ext Input

You can connect an 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.

• 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).

Selecting the dimmer mode

You can dim the display at night automatically or as you set the timer.
When shipped from the factory, Auto Dimmer mode is activated.

Note:
Auto Dimmer supplied with this unit may not work correctly on some vehicles, particularly on those having a control dial for dimming.
In this case, select any setting other than "Auto."

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 58 and 59.)**

2 **Press number button 3 to select "DISP"—Display category of the PSM settings.**
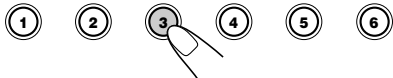
3 **Press ►►I ∧ or ∨ I◄◄ to select "Dimmer."**

4 **Set the dimmer mode to your preference.**

- Auto: Activates Auto Dimmer. When you turn on the car head lights, the display automatically dims.
- Off: Cancels Auto Dimmer.
- On: Always dims the display.
- Time Set: Used to set the timer for the dimmer function.

Note:
Selecting "Auto" or "Time Set" may change the display pattern to the "Negative" or "Positive" pattern if "LCD Type" is set to "Auto."

- If you select "Time Set," go to the following steps to set the timer.
- If you select any setting other than "Time Set," go to step **7** to finish the setting.

5 **Select "From– To" to set the timer for the dimmer mode.**

6 **Set the timer.**
1. Turn the control dial to select the start time.
2. Press ►►I ∧ once.
3. Turn the control dial to select the end time.

7 **Finish the setting.**

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Changing the display color

You can set the display color using the PSM control. You can select your favorite color for each source (or for all sources).
You can also create your own colors, and set them as the display color.

Setting the desired color for each source

Once you have set the color for each source (or for all sources), the display illuminates in the selected color when the source is selected.

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 58 and 59.)**

2 **Press number button 6 to select "COLOR"—Color category of the PSM settings.**

The "All SRC" setting screen appears on the display.

3 **Select the source—All SRC, CD, Changer (Line), FM, or AM—that you want to set the display color for.**

$$\text{All SRC}^{*1} \leftrightarrow \text{CD}$$
$$\text{AM} \leftrightarrow \text{FM} \leftrightarrow \text{Changer}^{*2}\text{(Line)}$$
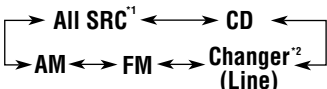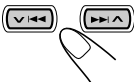
*1 *When you select "All SRC," the same color will be used for all sources.*
*2 *Either component which is selected in the "Ext Input" setting appears.*

4 **Select the display color.**
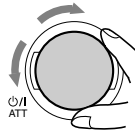
As you turn the control dial, the colors change as follows:

Every*1 ⇄ **Aqua** ⇄ **Sky** ⇄ **Sea** ⇄ **Leaves** ⇄ **Grass** ⇄ **Red** ⇄ **Rose** ⇄ **Amber** ⇄ **Honey** ⇄ **Violet** ⇄ **Cotton** ⇄ **Snow** ⇄ **User***2 ⇄ **(back to the beginning)**

*1 *When you select "Every," the color changes every 2 seconds (changing to every color listed above except "User").*
*2 *When you select "User," the user-edited colors—"Day" and "Night" will be applied. (See page 63.)*

5 **Repeat steps 3 and 4 to select the color for each source (except when selecting "All SRC" in step 3).**
• If you want to apply different colors to the different sources, select any source other than "All SRC" before finish the setting.

6 **Finish the setting.**

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Creating your own color—User

You can create your own colors—"Day" and "Night," and select them as the display color for any desired source.

• Day: Can be used as your user color during the day time (while the headlights are turned off), or as set by the timer— "From – To."

• Night: Can be used as your user color during the night time (while the headlights are turned on), or as set by the timer— "From – To."

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 58 and 59.)**

SEL

2 **Press number button 6 to select "COLOR"—Color category of the PSM settings.**

The source/color selecting screen appears on the display.

3 **Select "User" as a color.**
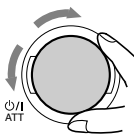
The user color will be applied to the currently selected source (the one shown on the upper portion of the display. In this example "All SRC").

To select which source to apply your user color to, select the target source first by pressing ▲ (up) or ▼ (down), before selecting "User" in this step.

4 **Select the user color adjustment screen.**
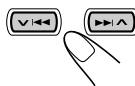
One of the user color adjustment screens appears.
"User Day" or "User Night" is shown on the left side of the display.

5 **Select either "Day" or "Night" to make an adjustment for.**

6 **Adjust the selected user color.**

1) **Press ►►| ∧ or ∨ |◄◄ to select one of three primary colors—"R" (red), "G" (green), and "B" (blue).**

2) **Press ▲ (up) or ▼ (down) to adjust the selected primary color.**
You can adjust within the range of 00 to 11.

3) **Repeat steps 1) and 2) to adjust the other primary colors.**

7 **Repeat steps *5* and *6* to adjust the other user colors—"Day" or "Night."**

8 **Finish the setting.**

SEL

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Assigning names to the sources

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

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

Sources	Maximum number of characters
CDs*	Up to 32 characters (up to 40 discs)
External component	Up to 8 characters

* *You can assign a name only to conventional CDs.*

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 (D), press and hold SEL (select) for more than 2 seconds.**

Ex.: When you select "DISC" as the source

3 **Select the character set you want while the first character position is flashing.**

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

A – Z (Upper case) → a – z (Lower case) → 0 – 9 & symbols (Numbers)
→ Accented letters (Upper case) → Accented letters (Lower case) →
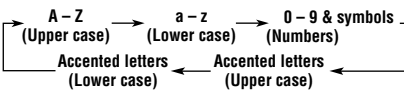
4 **Select a character.**
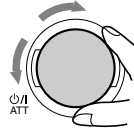
• About the available characters, see page 78.

5 **Move the cursor to the next (or previous) character position.**
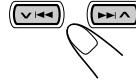
6 **Repeat steps *3* to *5* until you finish entering the name.**

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

To erase entered characters

Insert spaces using the same procedure described above.

Notes:
- *When you try to assign a name to the 41st disc, "Name Full" appears and you cannot enter the text entry mode. 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.*

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.**
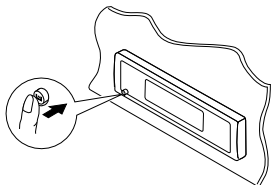
2 **Pull the control panel out of the unit.**
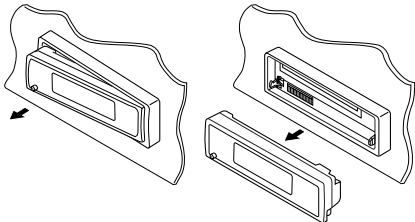
3 **Put the detached control panel into the provided case.**
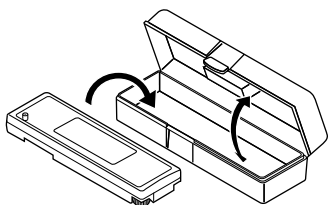
Attaching the control panel

1 **Insert the right side of the control panel into the groove on the panel holder.**
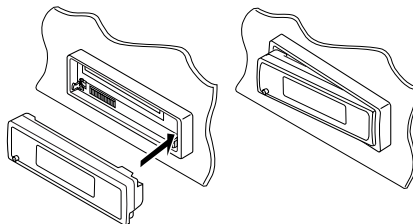
2 **Press the left side of the control panel to fix it to the panel holder.**
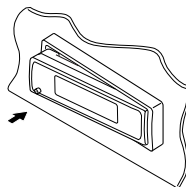
Note on cleaning the connectors:
If you frequently detach the control panel, the connectors will deteriorate.
To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.
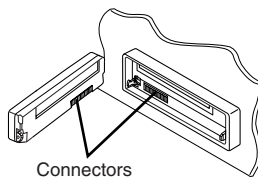
Connectors
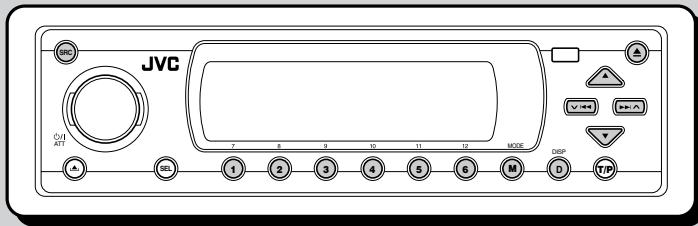
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Operations of this section are explained using the buttons on the control panel unless mentioned otherwise.

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 with your CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "No Disc" will flash on the display. If this happens, remove the magazine and position the discs correctly.
- If no magazine is loaded in the CD changer, "No Magazine" flashes on the display. If this happens, insert the magazine in the CD changer.
- If "Reset 1" – "Reset 8" flashes 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 play back a DVD and a VCD on the CD changer.

Playing discs

Select the CD changer (CD-CH).

Each time you press the button, the source changes as described on page 8. When you select a source, the power automatically comes on.

Notes:
- *You can also use the CH button on the remote controller.*
- *If you have changed the "Ext Input" setting to "Line In" (see page 60), 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

Current folder/track and elapsed playing time

MP3 indicator
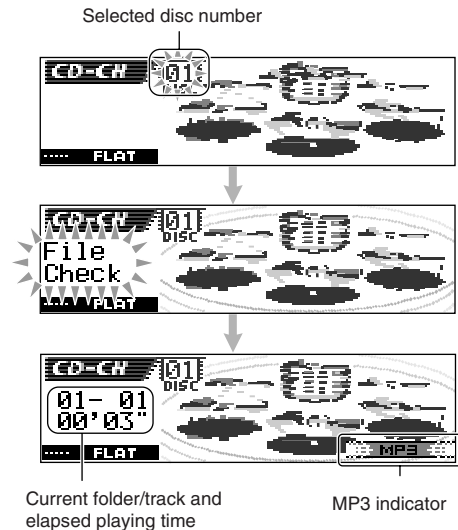
• **When the current disc is a CD:**
Playback starts from the first track of the current disc.

Selected disc number
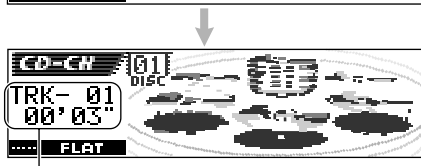
Current track and elapsed playing time

Note:
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.

To change the display information

While playing back a disc, you can change the disc information shown on the display.

Press DISP (D) repeatedly.
Each time you press the button, the display changes.
• For details, see pages 48 and 49.

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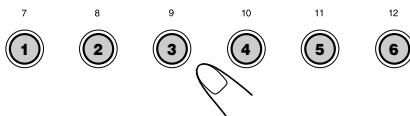
• To select a disc number from 1 – 6:
Press 1 (7) – 6 (12) briefly.
• To select a disc number from 7 – 12:
Press and hold 1 (7) – 6 (12) for more than one second.

Note:
You can also use the DISC +/– buttons on the remote controller to select a disc.

To fast-forward or reverse the track

Press and hold ►►| ∧ , during play, to fast-forward the track.

Press and hold ∨ |◄◄, during play, to reverse the track.
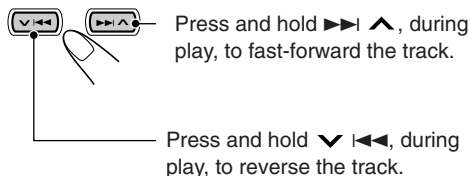
Note:
During this operation on an MP3 disc, you can only hear intermittent sounds. (The elapsed playing time also changes intermittently on the display.)

To go to the next or previous tracks

Press ►►| ∧ briefly during play, to skip ahead to the beginning of the next track. Each time you press the button consecutively, the beginning of the next track is located and played back.
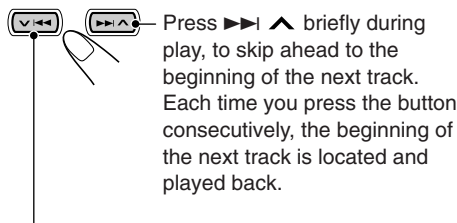
Press ∨ |◄◄ briefly during play, to skip back to the beginning of the current track.
Each time you press the button consecutively, the beginning of the previous track is located and played back.

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

To go to a track quickly

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

MODE   "Mode" appears on the display.

```
CD-CH           Mode  +10▲
01- 01                Track
00'23"                -10▼
INTRO  RPT  RND  OFF        DUAL
```
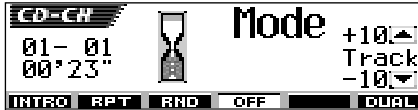
2 Press ▲ (up) or ▼ (down).

To skip 10 tracks* forward to the last track

To skip 10 tracks* backward to the first track

* The first time you press ▲ (up) or ▼ (down) button, the track skips to the nearest higher or lower track with a track number of an even multiple ten (ex. 10th, 20th, 30th).
Then each time you press the button, you can skip 10 tracks (see "How to go to the desired track quickly" on the right column).

Notes:
• *After the last track, the first track will be selected, and vice versa.*
• *If the current playing disc is an MP3 disc, tracks are skipped within the same folder.*

How to go to the desired track quickly

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

MODE

(Three times)   (Twice)
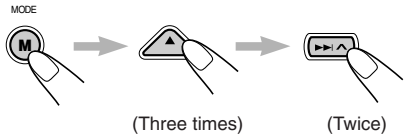
Track 6   ➡ 10 ➡ 20 ➡ 30 ➡ 31 ➡ 32

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

MODE

(Three times)   (Twice)
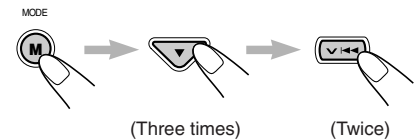
Track 36   ➡ 30 ➡ 20 ➡ 10 ➡ 9 ➡ 8

To skip to the next or previous folder (only for MP3 discs)
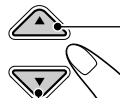
Press ▲ (up) while playing an MP3 disc, to go to the next folder.
Each time you press the button consecutively, the next folder is located, and the first track in the folder starts playback.
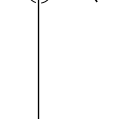
Press ▼ (down) while playing an MP3 disc, to go to the previous folder.
Each time you press the button consecutively, the previous folder is located, and the first track in the folder starts playback.

Note:
If the folder does not contain any MP3 tracks, it is skipped.

To select a disc using the disc lists

If you forget what discs are loaded in the CD changer, you can show the disc title list and select a disc in the list shown on the display.
- The display can show only six disc names at a time.

1 **While playing a disc, press and hold ▲ (up) or ▼ (down) until a disc name list appears on the display.**
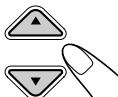
Selected disc number

Note:
If a disc has a disc title (CD Text) or an assigned disc name, it will be shown on the display. However, if the disc has not been played before, its disc number will appear.

2 **Press ▲ (up) or ▼ (down) to show the other disc name list, if necessary.**
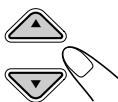
3 **Select the number (1 – 6) for the disc you want to play.**
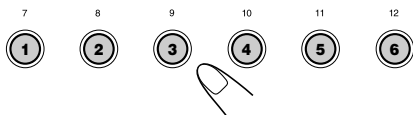
While playing an MP3 disc, you can also show the folder list(s) and track list(s) on the display, then select a folder or track.

1 While playing an MP3 disc, press and hold ▲ (up) or ▼ (down) until a disc name list appears on the display.
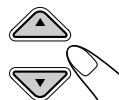
2 Press ▶▶ ▲ or ▼ ◀◀ to show a folder list of the current disc or track list of the current folder.
Each time you press the button, lists on the display changes as follows:
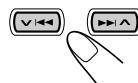
Disc list ⟷ Folder list
Track list
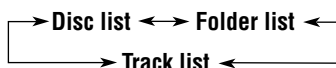
Current folder number

Ex.: When folder list is selected

Current track number
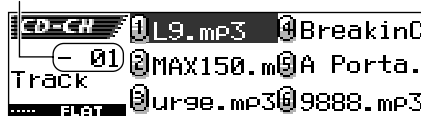
Ex.: When track list is selected

Note:
The display can show only six items at a time. You can show the other items on the next lists by pressing ▲ (up) or ▼ (down).

3 Press the number button for the disc, folder, or track you want to play.
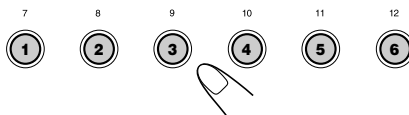
Selecting the playback modes

To play back tracks repeatedly (Repeat Play)

From the remote controller:

Press REPEAT (↻) repeatedly until the Repeat Play mode you want is selected.

On the control panel:

1 Press MODE (M) to enter the functions mode during play. "Mode" appears on the display.

MODE

2 Press number button 2 repeatedly while "Mode" is still on the display. Each time you press the button, Repeat Play mode changes as follows:

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For MP3 discs:

→ **Repeat Track** → **Repeat Folder**
Repeat Off ← **Repeat Disc** ←

For CDs:

→ **Repeat Track** → **Repeat Disc**
Repeat Off ←
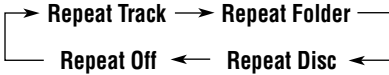
Note:

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

Mode	Active indicator	Plays repeatedly
Repeat Track	♪ RPT indicator lights up.	The current (or specified) track.
Repeat Folder*	▭ RPT indicator lights up.	All tracks of the current (or specified) folder of the current disc.
Repeat Disc	⬤ RPT indicator lights up.	All tracks of the current (or specified) disc.

* *"Repeat Folder" is only applicable for MP3 disc.*

To cancel Repeat Play, select "Repeat Off" by pressing number button 2 repeatedly or press number button 4 in step **2**.

To play back tracks at random (Random Play)

From the remote controller:

Press RANDOM (R) repeatedly until the Random Play mode you want is selected.

On the control panel:

1 Press MODE (M) to enter the functions mode during play. "Mode" appears on the display.

MODE

2 Press number button 3 repeatedly while "Mode" is still on the display. Each time you press the button, Random Play mode changes as follows:

9

3

For MP3 discs:

→ Random Folder → Random Disc → Random Off ← Random All ←

For CDs:

→ Random Disc → Random All → Random Off ←
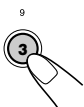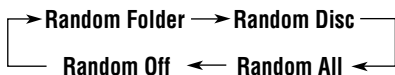
Note:
MP3 indicator also lights up if the current playing disc is an MP3 disc.

Mode	Active indicator	Plays at random
Random Folder*	⊡ RND indicator lights up.	All tracks of the current folder, then tracks of the next folder and so on.
Random Disc	⊜ RND indicator lights up.	All tracks of the current (or specified) disc.
Random All	ALL RND indicator lights up.	All tracks of all discs inserted in the magazine.

* *"Random Folder" is only applicable for MP3 disc.*

To cancel Random Play, select "Random Off" by pressing number button 3 repeatedly or press number button 4 in step **2**.

To play back only intros (Intro Scan)

From the remote controller:

INTRO
I

Press INTRO (I) repeatedly until the Intro Scan mode you want is selected.

On the control panel:

1 Press MODE (M) to enter the functions mode during play. "Mode" appears on the display.

MODE
M

2 Press number button 1 repeatedly while "Mode" is still on the display. Each time you press the button, Intro Scan mode changes as follows:
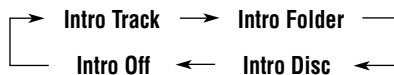
7

1

For MP3 discs:

→ Intro Track → Intro Folder → Intro Off ← Intro Disc ←

For CDs:

→ Intro Track → Intro Disc → Intro Off ←

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

Mode	Active indicator	Plays the beginnings (15 seconds) of
Intro Track	♪ INT indicator lights up.	All tracks of the current disc.
Intro Folder*	⊡ INT indicator lights up.	The first track of every folder of the current disc.
Intro Disc	⊜ INT indicator lights up.	The first tracks of the inserted discs.

* *"Intro Folder" is only applicable for MP3 disc.*

To cancel Intro Scan, select "Intro Off" by pressing number button 1 repeatedly or press number button 4 in step **2**.
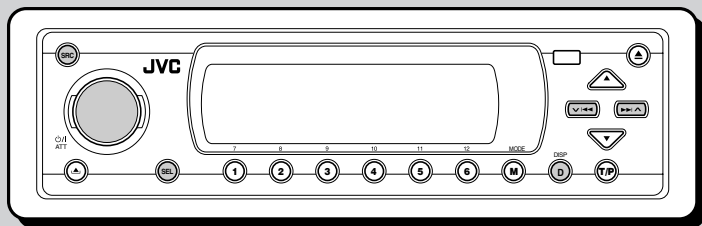
Operations of this section are explained using the buttons on the control panel unless mentioned otherwise.

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).

Preparation:
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, select the correct external input correctly by following the procedure below.
• See also "Changing the general settings (PSM)" on page 57.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press number button 5 to select "AUDIO"— Audio category of the PSM settings.
3 Press ►►┃ ▲ or ▼ ┃◄◄ to select "Ext Input"*.
4 Turn the control dial clockwise to select "Line In."
5 Press SEL (select) to finish the setting.

• For details, see "To select the external component to use—Ext Input" on page 60.
* *Displayed only when one of the following sources is selected—FM, AM, and CD.*

1 **Select the external component (LINE IN).**

Each time you press the button, the source changes as described on page 8. When you select a source, the power automatically comes on.
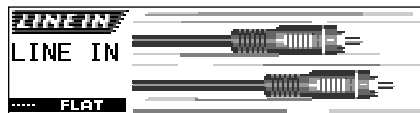
* *Displayed only when one of the following sources is selected—FM, AM, and CD.*

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

3 **Adjust the volume.**
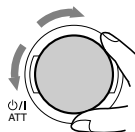
4 **Adjust the sound characteristics you want. (See pages 54 – 56.)**

Note:
You can also change the display pattern by pressing DISP (D) repeatedly.

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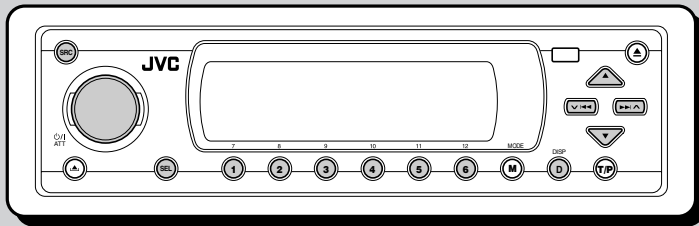
We recommend that you use DAB (Digital Audio Broadcasting) tuner KT-DB1500 or KT-DB1000 with your unit.
If you have another DAB tuner, consult your JVC IN-CAR ENTERTAINMENT dealer.
• Refer also to the Instructions supplied with your DAB tuner.

What is DAB system?

DAB is one of the digital radio broadcasting systems available today. It can deliver CD quality sound without any annoying interference and signal distortion.
Furthermore, it can carry text, pictures, and data.
In contrast to FM broadcast, where each programme is transmitted on its own frequency, DAB combines several programmes (called "services") to form one "ensemble."
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.

Operations of this section are explained using the buttons on the control panel unless mentioned otherwise.

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.

1 Select the DAB tuner.

1 Press SRC (source) repeatedly to select the DAB tuner.

2 Press and hold SRC. Each time you press and hold the button, the DAB band changes as follows:

$$\rightarrow DAB1 \longrightarrow DAB2 \longrightarrow DAB3 \rightarrow$$

Notes:
• *This receiver has three DAB bands (DAB1, DAB2, DAB3). You can use any of them to tune in to an ensemble.*
• *When using the remote controller, press and hold FM (DAB). Each time you press the button, the DAB tuner and the FM tuner is selected alternately.*

2 Start searching for an ensemble.
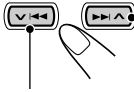
Press ►►I ∧ to search
for ensembles of higher
frequency.

Press ∨ I◄◄ 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.

3 Select a service (either primary or secondary) you want to listen to.
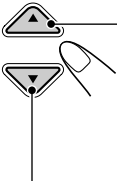
Press ▲ (up) to select the
next service. (If a primary
service has some secondary
services, they are selected
before the next primary
service is selected.)

Press ▼ (down) to select the previous
service (either primary or secondary).

To tune in to a particular ensemble without searching

Before you start....
1 Press SRC repeatedly to select DAB tuner as
   the source.
2 Press and hold SRC repeatedly to select the
   DAB band (DAB1, DAB2, or DAB3).
3 Press ►►I ∧ or ∨ I◄◄ repeatedly until the
   ensemble you want is reached.
   • If you hold down the button, the frequency
     keeps changing until you release the button.
4 Press ▲ (up) or ▼ (down) to select a service
   (either primary or secondary) you want to
   listen to.

Storing DAB services in memory

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

1 Select the DAB tuner.

1 Press SRC (source)
repeatedly to select the DAB
tuner.

2 Press and hold SRC. Each
time you press and hold the
button, the DAB band
changes as follows:

→ DAB1 ⟶ DAB2 ⟶ DAB3 ⌐

Notes:
• *This receiver has three DAB bands (DAB1,
  DAB2, DAB3). You can use any of them to tune
  in to an ensemble.*
• *When using the remote controller, press and
  hold FM (DAB). Each time you press the
  button, the DAB tuner and the FM tuner is
  selected alternately.*

2 Tune in to an ensemble you want.
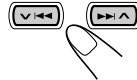
3 Select a service of the ensemble you want to listen to.
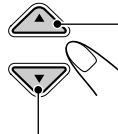
Press ▲ (up) to select the next
service.

Press ▼ (down) to select the previous
service.

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

The display pattern automatically changes to the non-animation display and the preset number flashes (then the previous display pattern resumes).

5 **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.*

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, "Storing DAB services in memory" on pages 74 and 75.

1 **Select the DAB tuner.**

1 Press SRC (source) repeatedly to select the DAB tuner.

2 Press and hold SRC. Each time you press and hold the button, the DAB band changes (DAB1 – DAB3).

2 **Select the number (1 – 6) for the preset DAB service (primary) you want.**
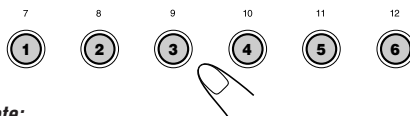
Note:
If the selected primary service has some secondary services, pressing the same number button repeatedly will tune in to the secondary services.

Selecting a preset service using the preset service list

If you forget what services are stored in what preset number, you can check the preset service list, then select your desired service on the list.

1 **Select the DAB tuner.**

1 Press SRC (source) repeatedly to select the DAB tuner.

2 Press and hold SRC. Each time you press and hold the button, the DAB band changes (DAB1 – DAB3).

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2 **Press and hold ▲ (up) or ▼ (down) until the preset ensemble (primary service) list for the current band (DAB1, DAB2, or DAB3) appears on the display.**


```
DAB  1HR1    4HR3
DAB1 2No Serv. 5HR4
Preset
     3FFH    6No Serv.
     FLAT
```
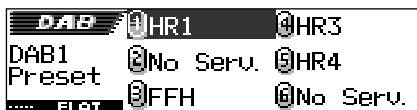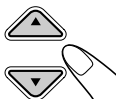
Note:

You can show the other DAB band preset ensemble (primary service) lists (DAB1, DAB2, or DAB3) by pressing ▲ (up) or ▼ (down).

3 **Select the number (1 – 6) for a service you want.**
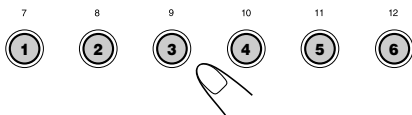
What you can do more with DAB

With the DAB tuner connected, you can tracing the same program (service) automatically while driving where the same DAB ensemble is not received.

Tracing the same program automatically (Alternative Reception)

You can keep listening to the same program.

• **While receiving a DAB service:**
  When driving in an area where a service cannot be received, this unit automatically tunes in to another ensemble or FM RDS station, broadcasting the same program.
• **While receiving an FM RDS station:**
  When driving in an area where a DAB service is broadcasting the same program as the FM RDS station is broadcasting, this unit automatically tunes in to the DAB service.

To use Alternative Reception

When shipped from the factory, Alternative Reception is activated.

• See also "Changing the general settings (PSM)" on page 57.
1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press number button 4 to select "TUNER"— Tuner category of the PSM settings.
3 Press ▶▶| ∧ or ∨ |◀◀ to select "DAB AF" (alternative frequency).
4 Turn the control dial to select the desired mode.
  • On: Traces the program among DAB services and FM RDS stations —Alternative Reception. The AF indicator lights up on the display (see page 17).
  • Off: Alternative Reception is deactivated.
5 Press SEL (select) to finish the setting.

Note:
When Alternative Reception (for DAB services) is activated, Network-Tracking Reception (for RDS stations: see page 17) is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception.

Changing the display information

By pressing DISP (D), you can change the information shown on the display.

Each time you press the button, the display patterns change as follows:

Text indicator*¹

Channel number

Ensemble label and Frequency

Clock time

PTY code*²

*³
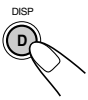
Service label

Dynamic Label Segment (DLS) display*⁴
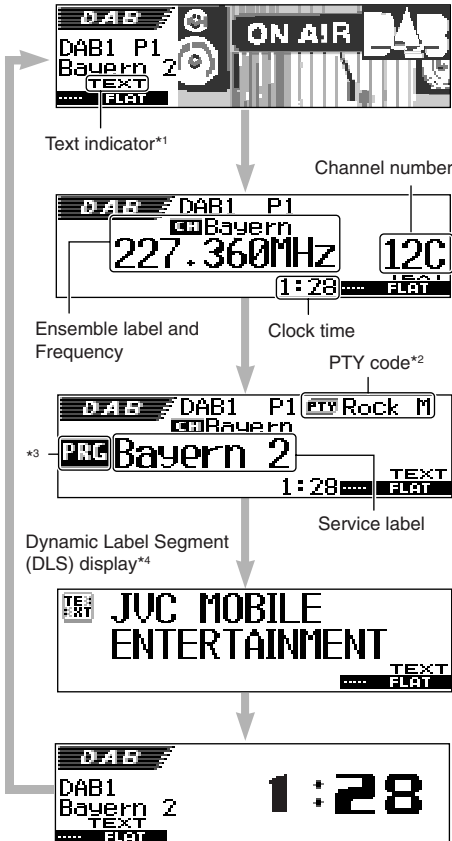
*¹ *TEXT indicator: implies the current service received is providing DLS (Dynamic Label Segment—DAB radio text information).*
*² *Each service can have several PTY codes. If a service have several PTY codes, they will be shown in turn.*
*³ *Ensemble label (primary service) indicator: The different indicator (2nd) will be displayed when the secondary service is selected.*
*⁴ *Dynamic Label Segment (DLS) will be displayed. See "To select the scroll mode—Scroll" on page 59.*

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Sound modes (preset frequency level settings)

The list below shows the preset frequency level settings for each sound mode.
• You can adjust the preset sound modes temporarily. However, your temporary adjustments will be reset when you select another sound mode.

Sound	Preset equalizing values						
Mode	60 Hz	150 Hz	400 Hz	1 kHz	2.4 kHz	6 kHz	12 kHz
Flat	00	00	00	00	00	00	00
Hard Rock	+03	+03	+01	00	00	+02	+01
R & B	+03	+02	+02	00	+01	+01	+03
Pop	00	+02	00	00	+01	+01	+02
Jazz	+03	+02	+01	+01	+01	+03	+02
Dance Music	+04	+02	00	−02	−01	+01	+01
Country	+02	+01	00	00	00	+01	+02
Reggae	+03	00	00	+01	+02	+02	+03
Classic	+02	+03	+01	00	00	+02	00
User 1	00	00	00	00	00	00	00
User 2	00	00	00	00	00	00	00
User 3	00	00	00	00	00	00	00

Available characters

In addition to the alphabets (A – Z, a – z), you can use the following characters to assign names to CDs, and external component. (See page 64.)
• These characters can be also used to show other information such as disc title/performer, RDS, and DAB on the display.

Accented letters

Upper case

Á	À	Â	Ä	Ã
Å	Æ	Œ	Č	Ć
Ç	É	È	Ê	Ë
Ğ	Í	Ì	Î	Ï
Ñ	Ó	Ò	Ô	Ö
Ō	Ø	Ř	Ŕ	Š
Ś	Ş	Ú	Ù	Û
Ü	Ý	Ž	Ź	ß
Þ	Ŋ	Đ	Ŧ	Ł
İ	IJ	ð	space	

Lower case

á	à	â	ä	ã
å	æ	œ	č	ć
ç	é	è	ê	ë
ě	ğ	í	ì	î
ï	ñ	ň	ń	ó
ò	ô	ö	õ	ø
ő	ř	ŕ	š	ś
ş	ú	ù	û	ü
ű	ŵ	ý	ŷ	ž
ź	ÿ	þ	ŋ	đ
ŧ	ľ	ı	ij	space

Numbers and symbols

0	1	2	3	4
5	6	7	8	9
!	"	#	$	%
&	'	(	)	✳
+	,	−	.	/
:	;	<	=	>
?	@	_	`	¡
¿	£	€	α	space

LANGUAGE CODES

Code	Language	Code	Language	Code	Language
AA	Afar	KA	Georgian	SN	Shona
AB	Abkhazian	KK	Kazakh	SO	Somali
AF	Afrikaans	KL	Greenlandic	SQ	Albanian
AM	Ameharic	KM	Cambodian	SR	Serbian
AR	Arabic	KN	Kannada	SS	Siswati
AS	Assamese	KO	Korean (KOR)	ST	Sesotho
AY	Aymara	KS	Kashmiri	SU	Sundanese
AZ	Azerbaijani	KU	Kurdish	SV	Swedish
BA	Bashkir	KY	Kirghiz	SW	Swahili
BE	Byelorussian	LA	Latin	TA	Tamil
BG	Bulgarian	LN	Lingala	TE	Telugu
BH	Bihari	LO	Laothian	TG	Tajik
BI	Bislama	LT	Lithuanian	TH	Thai
BN	Bengali, Bangla	LV	Latvian, Lettish	TI	Tigrinya
BO	Tibetan	MG	Malagasy	TK	Turkmen
BR	Breton	MI	Maori	TL	Tagalog
CA	Catalan	MK	Macedonian	TN	Setswana
CO	Corsican	ML	Malayalam	TO	Tonga
CS	Czech	MN	Mongolian	TR	Turkish
CY	Welsh	MO	Moldavian	TS	Tsonga
DA	Danish	MR	Marathi	TT	Tatar
DZ	Bhutani	MS	Malay (MAY)	TW	Twi
EL	Greek	MT	Maltese	UK	Ukrainian
EO	Esperanto	MY	Burmese	UR	Urdu
ET	Estonian	NA	Nauru	UZ	Uzbek
EU	Basque	NE	Nepali	VI	Vietnamese
FA	Persian	NL	Dutch	VO	Volapuk
FI	Finnish	NO	Norwegian	WO	Wolof
FJ	Fiji	OC	Occitan	XH	Xhosa
FO	Faroese	OM	(Afan) Oromo	YO	Yoruba
FY	Frisian	OR	Oriya	ZU	Zulu
GA	Irish	PA	Panjabi		
GD	Scots Gaelic	PL	Polish		
GL	Galician	PS	Pashto, Pushto		
GN	Guarani	PT	Portuguese		
GU	Gujarati	QU	Quechua		
HA	Hausa	RM	Rhaeto-Romance		
HI	Hindi	RN	Kirundi		
HR	Croatian	RO	Rumanian		
HU	Hungarian	RU	Russian		
HY	Armenian	RW	Kinyarwanda		
IA	Interlingua	SA	Sanskrit		
IE	Interlingue	SD	Sindhi		
IK	Inupiak	SG	Sangho		
IN	Indonesian	SH	Serbo-Croatian		
IS	Icelandic	SI	Singhalese		
IW	Hebrew	SK	Slovak		
JI	Yiddish	SL	Slovenian		
JW	Javanese	SM	Samoan		

🦇 GLOSSARY

ENGLISH

4:3 Letterbox Screen

This is one method for displaying a wide screen picture on a conventional sized (4:3) TV. While viewing a wide screen picture, the black bars appear on the top and the bottom of the screen.

4:3 Pan-Scan Screen

This is one method for displaying a wide screen picture on a conventional sized (4:3) TV. While viewing a wide screen picture, the left and right edges of the pictures will not be shown on the screen.
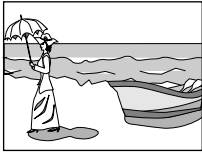
Dolby Digital

Dolby Digital is a technology developed by Dolby Laboratories that reproduces multi-channel cinema sound in systems equipped with a Dolby Digital multi-channel processor or amplifier. Dolby Digital can deliver from mono up to 5.1 discrete channels of excellent sound quality.

The KD-DV5000 automatically recognizes the Dolby Digital bitstream and provides a downmix suitable for two-channel listening. An additional Dolby Digital decoder or amplifier is required to reproduce the discrete multi-channel sound encoded in many DVDs.

DTS Digital Surround

This is another discrete 5.1 channel digital audio format, available on CD, LD, and DVD software, developed by Digital Theater Systems, Inc. Compared to Dolby Digital, the audio compression rate is relatively low. This fact allows DTS Digital Surround format to add breadth and depth to the reproduced sounds. As a result, DTS Digital Surround features natural, solid and clear sound.
To reproduce these surround signals, you need to connect an amplifier or a decoder compatible with DTS Digital Surround.

ID3 Tag (MP3)

An MP3 file can contain file information called "ID3 Tag" where its album name, performer, track title, etc. are recorded.
There are two versions–ID3v1 (ID3 Tag version 1) and ID3v2 (ID3 Tag version 2). Only ID3v1 can be shown.

Linear PCM

This is a digital recording format that is used for audio CDs.

Playback Control (VCD)

When a VCD has the PBC (Playback Control) function, you can use menu-driven operations and enjoy high-resolution still pictures.

Sampling Frequency, Quantization Bits

When analog signals are converted into digital signals, they are divided into many points and digitized. This dividing method is called "sampling." The sampling frequency indicates how many points one second is divided into – for example, for CD sound, one second is divided into 44100 points since its sampling frequency is 44.1 kHz. On the other hand, the number of quantization bits indicates the volume size used to memorize each divided point.
The larger this number is, the clearer the sound can be reproduced.

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

	Symptoms	Causes	Remedies
General	• 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.
	• 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.)
	• "Panel Connect Error" appears on the display.	The control panel is not attach correctly and firmly.	Remove the control panel, wipe the connectors, then attach it again. (See page 65.)
	• No sound comes out of the 2nd AUDIO OUT plug.	Dual Zone is not activated	Activate Dual Zone.
FM/AM	• SSM (Strong-station Sequential Memory) automatic preset does not work.	Signals are too weak.	Store stations manually.
	• Static noise while listening to the radio.	The antenna is not connected firmly.	Connect the antenna firmly.
	• AM band cannot be selected.	Dual Zone is activated.	Deactivate Dual Zone.
Disc Playback	• Disc cannot be played back.	Disc is inserted upside down.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/ CD-RW cannot be skipped.	CD-R/CD-RW is not finalized.	• Insert a finalized CD-R/ CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc cannot be ejected.	Disc is locked.	Unlock the disc. (See page 48.)
	• [00'00"] appears on the display, but playback does not start.	You are playing a Mixed-CD. (Playback stops at the beginning of the first track.)	Skip to the following tracks. Playback start with the selected track. (For details about the Mixed-CD, refer to "A Guide to MP3" (separate volume).
	• Disc cannot be recognized.	The CD player may function incorrectly.	While holding SRC, press SEL for more than 2 seconds to eject the disc.

	Symptoms	Causes	Remedies
Disc Playback	• Sound and picture are sometimes interrupted or distorted.	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.
	• "No Disc" flashes on the display.	No disc in the loading slot.	Insert a disc into the loading slot.
		Disc is inserted incorrectly.	Insert the disc correctly.
	• No playback picture (DVD, VCD) appears on the monitor.	Parking brake wire is not connected.	Connect the wire (see Installation/Connection Manual).
	• No picture appears on the monitor at all.	The video cord is not connected correctly.	Connect the video cord correctly
		An incorrect input has been selected on the TV or monitor.	Select a correct input on the TV or monitor.
	• The left and right edges of the picture are missing on the screen.	"4:3 PS" is selected when viewing on a conventional TV (aspect ratio 4:3).	Select "4:3 LB." (See page 52.)
	• Disc can be neither played back nor ejected.	The built-in microcomputer may function incorrectly due to noise, etc.	Turn off the power, then turn it on again.
	• MP3 disc is skipped or cannot be played back.	MP3 files do not have the extension code—mp3 in their file names.	Add the extension code —mp3 to their file names.
		MP3 files are not recorded in a format compliant with ISO 9660 Level 1, ISO 9660 Level 2, Romeo, or Joliet.	Change the disc. (Record MP3 files using a compliant application.)
	• Noise is generated while playing an MP3 disc.	The file played back is not an MP3 file (although it has the extension code—mp3).	Skip to another file or change the disc. (Do not add the extension code—mp3 to non-MP3 files.)
	• MP3 files cannot be played back in the order you have intended them to play.	Playback order is determined when the files are recorded.	————————
	• Elapsed playing time is not correct for an MP3 disc.	This sometimes occurs during play. This is caused by how the files are recorded on the disc.	————————

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Symptoms	Causes	Remedies	
• "No Disc" flashes on the display.	No disc is in the magazine.	Insert discs into the magazine.	
	Discs are inserted upside down.	Insert discs correctly.	
	Discs are unplayable.	Insert playable discs.	
	The current disc does not contain any MP3 files.	Insert a disc that contains MP3 files.	
• "No Magazine" flashes on the display.	No magazine is loaded in the CD changer.	Insert the magazine.	**CD Changer**
• "Reset 8" flashes 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 on the CD changer.	
• "Reset 1" – "Reset 7" flashes on the display.		Press the reset button on the CD changer.	
• 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.)	

Output signals through the DIGITAL OUT terminal

They differ depending on the "DIGITAL AUDIO OUT" setting on the Setup Menu.

DIGITAL AUDIO OUT Playback Disc	Output Signals		
	PCM ONLY	**DOLBY DIGITAL/PCM**	**STREAM/PCM**
DVD 48 kHz, 16/20/24 bit Linear PCM	48 kHz, 16 bit Linear PCM *		
96 kHz, Linear PCM	None		
with **Dolby Digital**	48 kHz, 16 bit Linear PCM	Dolby Digital bitstream	
with **DTS**	48 kHz, 16 bit Linear PCM		DTS bitstream
with **MPEG Multichannel**	48 kHz, 16 bit Linear PCM		MPEG bitstream
Video CD, Audio CD	44.1 kHz, 16 bit Linear PCM		
Audio CD with **DTS**	44.1 kHz, 16 bit Linear PCM		DTS bitstream
MP3	Linear PCM		

* *While playing some DVDs, digital signals may be emitted at 20 bits or 24 bits (at their original bit rate) through the DIGITAL OUT terminal if the discs are not copy-protected.*

❓❗ MAINTENANCE

Handling discs

This unit has been designed to reproduce DVD-Videos, VCDs, CDs, CD-Rs (Recordable), CD-RWs (Rewritable), and CD Texts.
• **This unit is also compatible with MP3 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 play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Moisture condensation

Moisture may condense on the lens inside the 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 play 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 the following CD-Rs or CD-RWs:
  – Discs with stickers, labels, or a 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 peel 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 any disc of unusual shape—like a heart or flower; otherwise, it will cause a malfunction.*
> • *Do not expose discs to direct sunlight or any heat source or place them in a place subject to high temperature and humidity. Do not leave them in a car.*
> • *Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.*

Warped disc

Sticker

Sticker residue

Disc

Stick-on label

SPECIFICATIONS

AUDIO AMPLIFIER SECTION

Maximum Power Output:
        Front: 50 W per channel
        Rear: 50 W per channel
Continuous Power Output (RMS):
        Front: 19 W per channel into 4 Ω, 40 Hz
                  to 20 000 Hz at no more than
                  0.8% total harmonic distortion.
        Rear: 19 W per channel into 4 Ω, 40 Hz
                  to 20 000 Hz at no more than
                  0.8% total harmonic distortion.
Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)
Equalizer Control Range:
        Frequencies: 60 Hz, 150 Hz, 400 Hz,
                     1 kHz, 2.4 kHz, 6 kHz, 12 kHz
        Level: ±10 dB
Signal-to-Noise Ratio: 70 dB
Audio output level:
    Analog (2nd AUDIO OUT):   6 mW (at 16 Ω)
    Digital (DIGITAL OUT: Optical):
        Signal wave length: 660 nm
        Output level: −21 dBm to −15 dBm
    Line-Out Level/Impedance:
        2.0 V/20 kΩ load (full scale)
        Output Impedance: 1 kΩ
Color system: PAL
Video output (composite): 1 Vp-p/75 Ω

TUNER SECTION

Frequency Range:
    FM: 87.5 MHz to 108.0 MHz
    AM: (MW)   522 kHz to 1 620 kHz
          (LW)   144 kHz to 279 kHz

[FM Tuner]
Usable Sensitivity: 11.3 dBf (1.0 μV/75 Ω)
50 dB Quieting Sensitivity: 16.3 dBf (1.8 μV/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 μV
Selectivity: 35 dB

[LW Tuner]
Sensitivity: 50 μV

DVD/CD PLAYER SECTION

Signal Detection System: Non-contact optical
    pickup (semiconductor laser)
Number of channels: 2 channels (stereo)
Frequency Response:
        DVD, fs=48 kHz: 16 Hz to 22 000 Hz
        DVD, fs=96 kHz: 16 Hz to 44 000 Hz
        VCD, CD, MP3:   16 Hz to 20 000 Hz
Dynamic Range: 96 dB
Signal-to-Noise Ratio: 98 dB
Wow and Flutter: Less than measurable limit
MP3 recording format:
            MPEG 1/2 Audio Layer 3
            Max. Bit rate: 320 Kbps

GENERAL

Power Requirement:
        Operating Voltage:
            DC 14.4 V (11 V to 16 V allowance)
Grounding System: Negative ground
Allowable Operating Temperature:
            0°C to +40°C
Dimensions (W × H × D):
        Installation Size (approx.):
            182 mm × 52 mm × 158 mm
        Panel Size (approx.):
            188 mm × 58 mm × 12 mm
        Mass (approx.):
            1.7 kg (excluding accessories)

*Design and specifications are subject to change
without notice.*

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.*

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

JVC KD-DV5000

Installation/Connection Manual
Einbau/Anschlußanleitung
Manuel d'installation/raccordement
Handleiding voor installatie/aansluiting

LVT1054-004A
[E]
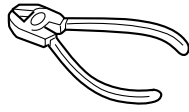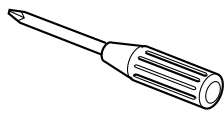
ENGLISH

• This unit is designed to operate on 12 V DC, NEGATIVE ground electrical systems.

WARNINGS

• DO NOT install any unit in locations where;
– it may obstruct the steering wheel and gearshift lever operations, as this may result in a traffic accident.
– it may obstruct the operation of safety devices such as air bags, as this may result in a fatal accident.
– it may obstruct visibility.
• DO NOT operate any unit while manipulating the steering wheel, as this may result in a traffic accident.
• The driver must not watch the monitor while driving.
If the driver watches the monitor while driving, it may lead to carelessness and cause an accident.
• The driver must not put on the headphones while driving. It is dangerous to shut off the outside sounds while driving.
• If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.
• If the parking brake is not engaged, "DRIVER MUST NOT WATCH THE MONITOR WHILE DRIVING." appears on the monitor, and no playback picture will be shown.
– This warning appears only when the parking brake wire is connected to the parking brake system built in the car.

DEUTSCH

• Dieses Gerät ist für einen Betrieb in elektrischen Anlagen mit 12 V Gleichstrom und (–) Erdung ausgelegt.

WARNHINWEISE

• Installieren Sie Geräte NICHT an Orten;
– an denen sie die Bewegungen des Lenkrads und des Ganghebels behindern könnten. Anderenfalls führt diese Behinderung möglicherweise zu ernsten Verkehrsunfällen.
– an denen sie den Betrieb von Sicherheitseinrichtungen, z.B. Airbags, behindern könnten. Anderenfalls führt diese Behinderung möglicherweise zu ernsten Verkehrsunfällen.
– an denen sie die Sicht behindern.
• Betätigen Sie beim Fahren KEINE Geräte. Anderenfalls führt dies möglicherweise zu einem ernsten Verkehrsunfall.
• Der Fahrer darf während der Fahrt auf keinen Fall auf den Monitor sehen.
Anderenfalls könnte der Fahrer abgelenkt werden und einen Unfall verursachen.
• Der Fahrer darf während der Fahrt keine Kopfhörer tragen. Es ist gefährlich, die Außengeräusche während der Fahrt zu blockieren.
• Wenn Sie den Receiver während des Fahrens bedienen müssen, beobachten Sie den Verkehr vor Ihnen sehr genau. Anderenfalls werden Sie möglicherweise in einen ernsten Verkehrsunfall verwickelt.
• Wenn die Feststellbremse nicht verriegelt ist, erscheint „DRIVER MUST NOT WATCH THE MONITOR WHILE DRIVING. (Der Fahrer darf während der Fahrt auf keinen Fall auf den Monitor sehen.)" auf dem Monitor und es wird kein Wiedergabebild angezeigt.
– Diese Warnung wird nur angezeigt, wenn das Feststellbremskabel an das in das Fahrzeug eingebaute Feststellbremssystem angeschlossen ist.

FRANÇAIS

• Cet appareil est conçu pour fonctionner sur des sources de courant continu de 12 V à masse NEGATIVE.

AVERTISSEMENTS

• N'INSTALLEZ aucun élément dans les endroits suivants;
– où il peut gêner l'accès au volant ou au levier de vitesse car cela peut entraîner un accident de la circulation.
– où il peut gêner la manipulation de dispositifs de sécurité tels que les airbags car cela peut entraîner un accident fatal.
– où il peut gêner la visibilité.
• NE COMMANDEZ pas l'appareil lors de la manipulation du volant car cela peut entraîner un accident de la circulation.
• Le conducteur ne doit pas regarder le moniteur lorsqu'il conduit.
Regarder le moniteur lorsqu'on est au volant réduit considérablement la vigilance du conducteur et multiplie les risques d'accident.
• Le conducteur ne doit pas utiliser un casque d'écoute quand il est au volant. Il est en effet dangereux de bloquer les sons de la circulation routière pendant la conduite d'un véhicule.
• Si vous avez besoin de commander l'autoradio pendant que vous conduisez, continuez de regarder droit devant vous ou vous risquez de causer un accident de la circulation.
• Si le frein de stationnement n'est pas mis, "DRIVER MUST NOT WATCH THE MONITOR WHILE DRIVING. (Le conducteur ne doit pas regarder le moniteur lorsqu'il conduit.)" apparaît sur le moniteur et l'image de lecture n'apparaît pas.
– Cet avertissement apparaît uniquement quand le fil du frein de stationnement est connecté au système de frein de stationnement intégré à la voiture.

NEDERLANDS

• Dit apparaat mag worden gebruikt bij elektrische systemen die werken op 12 V gelijkstroom met negatieve aarding.

WAARSCHUWING

• Installeer GEEN enkele eenheid op een plaats waar;
– dit een gevaar vormt voor het bedienen van het stuur of de versnelling, aangezien elke belemmering van de juiste werking van het stuur en de versnelling tot een ongeluk kan lijden.
– dit een gevaar vormt voor de airbag, aangezien elke belemmering van de werking van de airbag tot een dodelijk ongeluk kan lijden.
– dit het uitzicht belemmert.
• Bedien GEEN enkele eenheid terwijl u uw handen aan het stuur nodig hebt, aangezien dit anders tot een ongeluk kan lijden.
• De bestuurder moet tijdens het autorijden niet naar het beeldscherm kijken.
Als de bestuurder tijdens het rijden toch naar het beeldscherm kijkt, kan dit tot onverantwoord rijgedrag leiden en ernstige verkeersongelukken veroorzaken.
• De bestuurder mag geen hoofdtelefoon tijdens het autorijden opzetten. Het is uitermate gevaarlijk indien u geluiden van buitenaf niet kunt horen.
• Als u de eenheid wilt bedienen terwijl u aan het rijden bent, is het zaak dat u eerst de weg voor u verkent, aangezien dit anders tot een ongeluk kan lijden.
• "DRIVER MUST NOT WATCH THE MONITOR WHILE DRIVING. (De bestuurder moet tijdens het autorijden niet naar het beeldscherm kijken.)" verschijnt op de monitor en er wordt geen weergavebeeld getoond wanneer de handrem niet is aangetrokken.
– Deze waarschuwing verschijnt uitsluitend indien het handremdraad met het in de auto ingebouwde handremsysteem is verbonden.

Parts list for installation and connection

The following parts are provided with this unit.
After checking them, please set them correctly.

Hard case/Control panel
Etui/Schalttafel
Etui de transport/Panneau de commande
Behuizing/Bedieningspaneel
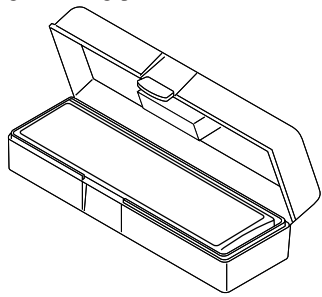
Washer (ø5)
Unterlegscheibe (ø5)
Rondelle (ø5)
Sluitring (ø5)

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

Teileliste für den Einbau und Anschluß

Die folgenden Teile werden zusammen mit diesem Gerät geliefert.
Nach ihrer Überprüfung, die Teile richtig einsetzen.

Sleeve
Halterung
Manchon
Huis
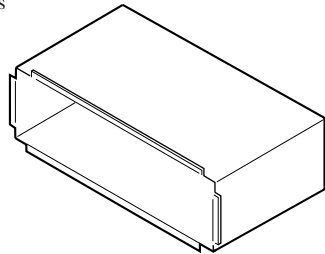
Mounting bolt (M5 x 20 mm)
Befestigungsschraube (M5 x 20 mm)
Boulon de montage (M5 x 20 mm)
Bevestigingsbout (M5 x 20 mm)
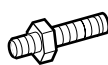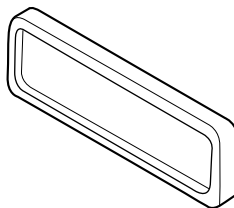
Liste des pièces pour l'installation et raccordement

Les pièces suivantes sont fournies avec cet appareil.
Après vérification, veuillez les placer correctement.

Trim plate
Frontrahmen
Plaque d'assemblage
Sierplaat

Power cord
Stromkable
Cordon d'alimentation
Stroomkabel

Rubber cushion
Gummipuffer
Amortisseur en caoutchouc
Rubberdop
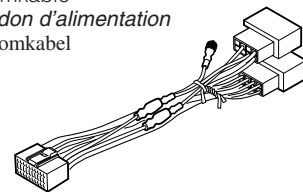
Handles
Griffe
Poignées
Hendels

Lijst van onderdelen die u bij installatie en aansluiting nodig hebt

De volgende onderdelen worden bij het apparaat geleverd.
Installeer ze op de juiste wijze, nadat u ze hebt gecontroleerd.
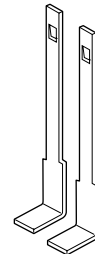
Remote controller
Fernbedienung
Télécommande
Afstandsbediening
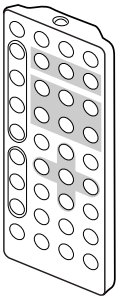
Battery
Batterie
Pile
Batterij

CR2025

Crimp
Quetschanschluß
Cosse à sertir
Krimpaansluiting
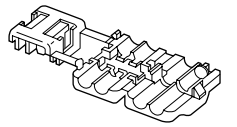
TROUBLESHOOTING

• **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?

• **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?

• **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 racordés 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?

• **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?

• **Het apparaat raakt verhit.**
* Is de uitgaande speakerdraad geaard?
* Zijn de "–" polen van de linker- en de rechterspeakers gemeenschappelijk geaard?

INSTALLATION (IN-DASH MOUNTING)

- The following illustration shows a typical installation. However, you should make adjustments corresponding to your specific car. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.

1 **Before mounting:** Press ⏏ (control panel release button) to detach the control panel if already attached.

  * When shipped from the factory, the control panel is packed in the hard case.

2 Remove the trim plate.

3 Remove the sleeve after disengaging the sleeve locks.

  ① Stand the unit.

    Note: When you stand the unit, be careful not to damage the fuse on the rear.

  ② Insert the 2 handles between the unit and the sleeve, as illustrated, to disengage the sleeve locks.

  ③ Remove the sleeve.

    Note: Be sure to keep the handles for future use after installing the unit.

4 Install the sleeve into the dashboard.

  * After the sleeve is correctly installed into the dashboard, bend the appropriate tabs to hold the sleeve firmly in place, as illustrated.

5 Fix the mounting bolt to the rear of the unit's body and place the rubber cushion over the end of the bolt.

6 Do the required electrical connections.

7 Slide the unit into the sleeve until it is locked.

8 Attach the trim plate.

9 Attach the control panel.

EINBAU (IM ARMATURENBRETT)

- Die folgende Abbildung zeigt einen typischen Einbau. Dennoch müssen Sie entsprechend Ihrem jeweiligen Auto Anpassungen vornehmen. 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.

1 **Vor dem Einbau:** Drücken Sie ⏏ (Freigabe der Schalttafel), um die Arretierung der Schalttafel zu lösen, sofern diese bereits angebracht ist.

  * Bei der Auslieferung ab Werk ist die Schalttafel im Etui verpackt.

2 Den Frontrahmen herausnehmen.

3 Die Halterung nach dem Entriegeln der Halterungensperren abnehmen.

  ① Das Gerät aufstellen.

    Hinweis: Beim Aufstellen des Geräts darauf achten, daß die Sicherung auf der Rückseite nicht beschädigt wird.

  ② Die 2 Griffe zwischen dem Gerät und der Halterung wie abgebildet einstecken und die Halterungensperren entriegeln.

  ③ Die Halterung entfernen.

    Hinweis: Sicherstellen, daß die Griffe für künftigen Gebrauch nach dem Einbau des Geräts aufbewahrt werden.

4 Die Halterung im Armaturenbrett einbauen.

  * Nach dem korrekten Einbau der Halterung im Armaturenbrett, die entsprechenden Riegel umknicken, um die Halterung an ihrem Platz zu sichern, siehe Abbildung.

5 Die Befestigungsschraube an der Rückseite des Gerätekörpers befestigen und das Ende der Schraube mit einem Gummipuffer abdecken.

6 Nehmen Sie die erforderlichen elektrischen Anschlüsse vor.

7 Das Gerät in die Halterung schieben, bis es einrastet.

8 Befestigen Sie den Frontrahmen.

9 Die Schalttafel anbringen.

INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

- L'illustration suivante est un exemple d'installation typique. Cependant, vous devez faire les ajustements correspondant à votre voiture particulière. 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.

1 **Avant le montage:** Appuyer sur ⏏ (déblocage du panneau de commande) pour éventeullement détacher le panneau de commande.

  * Lorsque ce panneau de commande sort d'usine, il est rangé dans un étui de transport.

2 Retirer la plaque d'assemblage.

3 Libérer les verrous du manchon et retirer le manchon.

  ① Poser l'appareil à la verticale.

    Remarque: Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur l'arrière.

  ② Insérer les 2 poignées entre l'appareil et le manchon comme indiqué pour désengagé les verrous de manchon.

  ③ Retirer le manchon.

    Remarque: S'assurer de garder les poignées pour une utilisation ultérieur, après l'installation de l'appareil.

4 Installer le manchon dans le tableau de bord.

  * Après installation correcte du manchon dans le tableau de bord, plier les bonnes pattes pour maintenir fermement le manchon en place, comme montré.

5 Monter le boulon de montage sur l'arrière du corps de l'appareil puis passer l'amortisseur en caoutchouc sur l'extrémité du boulon.

6 Réalisez les connexions électriques.

7 Faire glisser l'appareil dans le manchon jusqu'à ce qu'il soit verrouillé.

8 Attachez la plaque d'assemblage.

9 Remonter le panneau de commande.

INSTALLATIE (INBOUW IN HET DASHBOARD)

- Op de volgende afbeelding kunt u zien hoe de installatie, normaal gesproken, in zijn werk gaat. U moet echter bij de installatie rekening houden met de bijzonderheden van uw eigen auto. 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.

1 **Voordat u aan de montage van het apparaat begint:** Druk op ⏏ (het bedieningspaneel vrijgeven) als u het bedieningspaneel wilt loskoppelen indien dit aan de eenheid is vastgekoppeld.

  * Standaard wordt het bedieningspaneel bij het verlaten van de fabriek los verpackt meegeleverd.

2 Verwijder de sierplaat.

3 Verwijder het huis nadat u de klemmen hebt losgemaakt.

  ① Zet het apparaat rechtop.

    Opmerking: Wanneer u het apparaat rechtop zet, moet u erop letten dat u de zekering aan de achterkant niet beschadigt.

  ② Plaats de 2 hendels, zoals afgebeeld, tussen het apparaat en het huis, om de klemmen los te maken.

  ③ Verwijder het huis.

    Opmerking: Bewaar de hendels nadat u het apparaat hebt geïnstalleerd, zodat u ze ook in de toekomst kunt gebruiken.

4 Installeer het huis in het dashboard.

  * Nadat het huis op de juiste wijze in het dashboard is geplaatst, moet u de palletjes, zoals afgebeeld, stevig op hun plaats duwen.

5 Maak de bevestigingsbout aan de achterkant van het apparaat vast en plaats de rubberdop over het uiteinde van de bout.

6 Breng de vereiste elektrische verbindingen tot stand.

7 Schuif het apparaat in het huis totdat het vergrendeld is.

8 Bevestig een sierplaat.

9 Bevestig het bedieningspaneel.

1
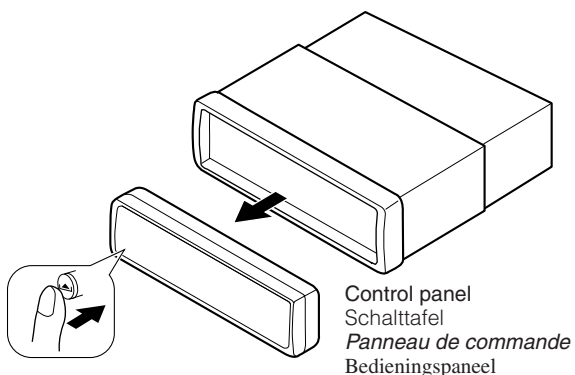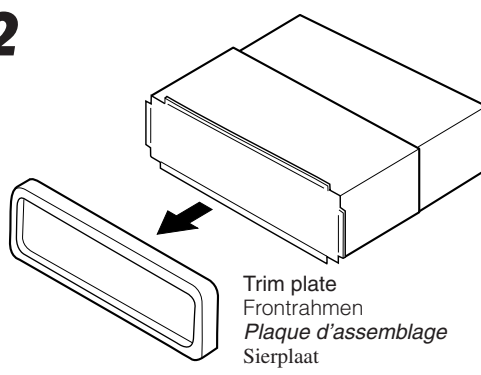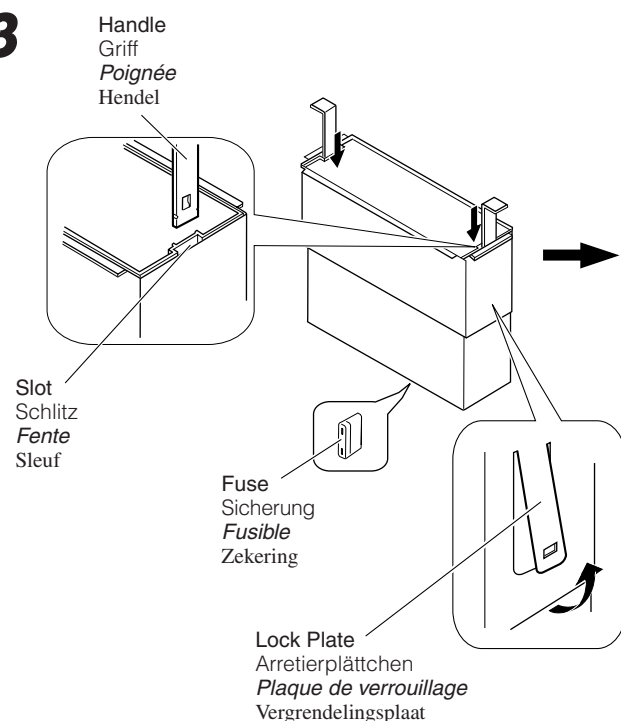
Control panel
Schalttafel
Panneau de commande
Bedieningspaneel

2

Trim plate
Frontrahmen
Plaque d'assemblage
Sierplaat

3

Handle
Griff
Poignée
Hendel

Slot
Schlitz
Fente
Sleuf

Fuse
Sicherung
Fusible
Zekering

Lock Plate
Arretierplättchen
Plaque de verrouillage
Vergrendelingsplaat

Sleeve
Halterung
Manchon
Huis

Rubber cushion
Gummipuffer
Amortisseur en caoutchouc
Rubberdop

Dashboard
Armaturenbrett
Tableau de bord
Dashboard

Sleeve
Halterung
Manchon
Huis

4

5

184 mm

53 mm

Mounting bolt
Befestigungsschraube
Boulon de montage
Bevestigingsbout

7

8

9

Control panel
Schalttafel
Panneau de commande
Bedieningspaneel

Trim plate
Frontrahmen
Plaque d'assemblage
Sierplaat

4 *

6

See "ELECTRICAL CONNECTIONS."
Siehe „ELEKTRISCHE ANSCHLÜSSE".
Référez-vous "RACCORDEMENTS ELECTRIQUES".
Zie "ELEKTRISCHE VERBINDINGEN".

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

Fire wall
Feuerwand
Cloison
Brandscherm

Washer
Unterlegscheibe
Rondelle
Sluitring

Stay (option)
Anker (Option)
Hauban (en option)
Steun (facultatief)

Lock nut
Sicherungsmutter
Ecrou d'arrêt
Contra-moer

Dashboard
Armaturenbrett
Tableau de bord
Dashboard

Screw (option)
Schraube (Option)
Vis (en option)
Schroef (facultatief)

Sleeve
Halterung
Manchon
Huis

Mounting bolt
Befestigungsschraube
Boulon de montage
Bevestigingsbout

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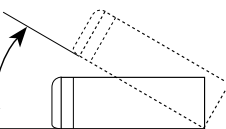
Install the unit at an angle of less than 30˚.
Stellen Sie das Gerät mit einem Winkel von weniger als 30˚ auf.
Installez l'appareil avec un angle de moins de 30˚.
Installeer het toestel met een hoek kleiner dan 30˚.

- **When installing the unit without using the sleeve / Beim Einbau des Geräts ohne Halterung / Lors de l'installation de l'appareil scans 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)
Platkopschroeven (M5 x 8 mm)*

Bracket*
Konsole*
*Support**
Console*

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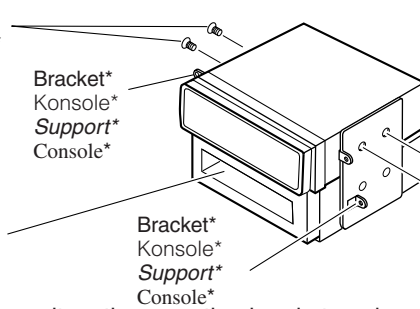
* Not included with this unit.
* Nicht Teil dieses Geräts.
* *Non fourni avec cet appareil.*
* Niet meegeleverd.

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

Bracket*
Konsole*
*Support**
Console*

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.

Removing the unit
- Before removing the unit, release the rear section.
1. Remove the control panel.
2. Remove the trim plate.
3. Insert the 2 handles into the slots, as shown. Then, while gently pulling the handles away from each other, slide out the unit. **(Be sure to keep the handles after installing it.)**

Ausbau des Geräts
- Vor dem Ausbau des Geräts den hinteren Teil freigeben.
1. Den Schalttafel abnehmen.
2. Den Frontrahmen herausnehmen.
3. Die 2 Griffe in die Schlitze wie gezeigt stecken. Dann die Griffe behutsam auseinander ziehen und das Gerät herausziehen. **(Die Griffe nach dem Einbau auf jeden Fall aufbewahren.)**

Retrait de l'appareil
- *Avant de retirer l'appareil, libérer la section arrière.*
1. *Retirer le panneau de commande.*
2. *Retirer la plaque d'assemblage.*
3. *Introduire les 2 poignées dans les fentes, comme montré. Puis, tout en tirant doucement les poignées écartées, faire glisser l'appareil pour le sortir.* **(S'assurer de conserver les poignées après l'installation de l'appareil.)**

Verwijderen van het apparaat
- Voordat u het apparaat verwijdert, moet u het achtergedeelte losmaken.
1. Verwijder het bedieningspaneel.
2. Verwijder de sierplaat.
3. Plaats de 2 hendels, zoals afgebeeld, in de sleuven. Daarna duwt u de hendels zachtjes uit elkaar en kunt u het apparaat naar buiten schuiven. **(Bewaar de hendels nadat u het apparaat hebt geïnstalleerd!)**

1 Control panel / Schalttafel / *Panneau de commande* / Bedieningspaneel

2 Trim plate / Frontrahmen / *Plaque d'assemblage* / Sierplaat

3 Handle / Griff / *Poignée* / Hendel
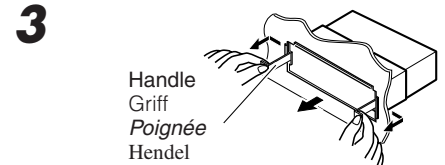
ELECTRICAL CONNECTIONS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit. If you are not sure how to install this unit correctly, have it installed by a qualified technician.

Note:
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.

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
- If noise is a problem...
  This unit incorporates a noise filter in the power circuit. However, with some vehicles, clicking or other unwanted noise may occur. If this happens, connect the unit's **rear ground terminal** (see connection diagram) to the car's chassis using shorter and thicker cords, such as copper braiding or gauge wire. If noise still persists, consult your JVC IN-CAR ENTERTAINMENT dealer.
- Maximum input of the speakers should be more than 50 W at the rear and 50 W at the front, with an impedance of 4 Ω **to** 8 Ω.
- **Be sure to ground this unit to the car's chassis.**
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.

Heat sink
Abstrahlblech
Dissipateur de chaleur
Warmte-opnemer
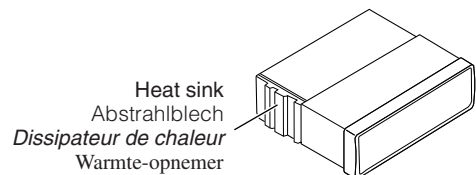
ELEKTRISCHE ANSCHLÜSSE

Zur Vermeidung von Kurzschlüssen empfehlen wir, daß Sie den negativen Batterieanschluß abtrennen und alle elektrischen Anschlüsse herstellen, bevor das Gerät eingebaut wird. Sind Sie sich über den richtigen Einbau des Geräts nicht sicher, lassen Sie es von einem qualifizierten Techniker einbauen.

Hinweis:
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.

- Die Sicherung mit einer der entsprechenden Nennleistung ersetzen. Brennt die Sicherung häufig durch, wenden Sie sich an ihren JVC Autoradiohändler.
- Sind Störgeräusche ein Problem...
  Dieses Gerät enthält ein Störfilter im Stromkreis. Bei manchen Fahrzeugen kann jedoch ein Klicken oder andere unerwünschte Störgeräusche auftreten. Sollte das der Fall sein, die **hintere Erdungscanschlußklemme** (siehe Schaltplan) des Geräts am Fahrwerk des Fahrzeugs anschließen, dabei kürzere und dickere Kabel wie beispielsweise Kupfergeflechtdraht oder Stahldraht verwenden. Bleibt Störgeräusch bestehen, wenden Sie sich an Ihren JVC Autoradiohändler.
- Die maximale Eingangsleistung der Lautsprecher sollte mehr als 50 W hinten und 50 W vorn bei einer Impedanz von 4 Ω **bis 8** Ω betragen.
- **Sicherstellen, daß das Gerät am Fahrwerk geerdet wird.**
- 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. Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.

Remarque:
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.*

- *Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.*
- *Si le bruit est un problème...*
  Cet appareil incorpore un filtre de bruit dans le circuit d'alimentation. Cependant, avec certains véhicules, quelques claquements ou autres bruits non désirés risquent de se produire. Si cela arrive, raccorder la **borne arrière de masse** *de l'appareil au châssis de la voiture (voir le diagramme de raccordement) en utilisant des cordons les plus gros et les plus courts possibles telle qu'une barre de cuivre ou une tresse. Si le bruit persiste, consulter votre revendeur d'autoradios JVC.*
- *La puissance admissible des enceintes devrait supérieure à 50 W à l'arrière et à 50 W l'avant, avec une impédance de 4 Ω à 8 Ω.*
- **S'assurer de raccorder la mise à la masse de cet appareil au châssis de la voiture.**
- *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. Als u niet zeker weet hoe u dit apparaat moet installeren, kunt u dit beter door een daartoe gekwalificeerde technicus laten doen.

Opmerking:
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.

- Vervang de zekering door een exemplaar met het aangegeven vermogen. Als de zekering vaak doorslaat, moet u uw JVC car audio dealer raadplegen.
- Als u geluidsproblemen hebt…
  De krachtschakeling van dit apparaat heeft een ingebouwd geluidsfilter. In sommige voertuigen zijn tikgeluiden of andere ongewenste geluiden te horen. Als dit gebeurt, moet u de **massaklem aan de achterkant** (zie aansluitingsschema) aan het chassis van de auto vastmaken met behulp van een kortere en dikkere kabel, zoals kopermanteldraad of tellerkabel. Als het geluid niet verdwijnt, moet u contact opnemen met uw JVC car audio dealer.
- Het maximum ingangsvermogen van de speakers moet achterin meer dan 50 W zijn en voorin 50 W, met een impedantie van 4 Ω **tot 8** Ω.
- **Zorg ervoor dat dit apparaat door middel van een aardkabel is verbonden met het chassis van de auto.**
- De warmte-opnemer kan na gebruik erg heet worden. Raak de warmte-opnemer niet aan wanneer u dit apparaat van zijn plaats haalt.

Connecting the leads / Anschließen der Leitungen / Raccordement des fils / Aansluiting van de gekleurde draden

Twist the core wires when connecting.
Die Kerndrähte beim Anschließen verdrehen.
Torsader les âmes des fils en les raccordant.
Draai de kerndraden om elkaar heen wanneer u ze wilt aansluiten.
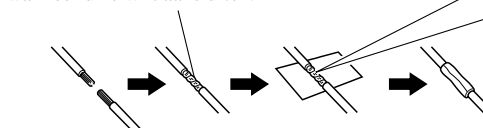
Solder the core wires to connect them securely.
Die Kerndrähte anlöten, um sie fest anzuschließen.
Souder les âmes des fils pour les raccorder entre eux de façon sûre.
Soldeer de kerndraden zodat ze stevig vast zitten.

CAUTION / VORSICHT / PRECAUTION / LET OP!:
- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- Zur Vermeidung eines Kurzschlusses die Anschlußklemmen der NICHT VERWENDETEN Leitungen mit Isolierklebeband umwickeln.
- *Pour éviter les court-circuits, couvrir les bornes des fils qui ne sont PAS UTILISES avec de la bande isolante.*
- Om kortsluiting te voorkomen, moet u de aansluitklemmen van ONGEBRUIKTE gekleurde draden met isolatieband bedekken.

Required connections for DVD playback / Zur DVD-Wiedergabe notwendige Anschlüsse / Connexions requises pour la lecture de DVD / Aansluitingen voor het afspelen van DVD

Headphones
(not supplied) *1
Kopfhörer (nicht mitgeliefert) *1
*Casque d'écoute
(non fourni) *1*
Koptelefoon (niet meegeleverd) *1

Audio/video control amplifier or the decoder compatible with the multichannel digital sources
Audio/Video-Verstärker oder mit Mehrkanalquellen kompatibler Decoder.
Amplificateur de commande audio/vidéo ou décodeur compatible avec les sources numériques à canaux multiples
Audio/videoregeling versterker of de decoder compatibel met meerkanaals digitale bronnen

Digital optical cable (not supplied)
Optisches Digitalkabel (nicht mitgeliefert)
Câble optique numérique (non fourni)
Digitale optische kabel (niet meegeleverd)

When using JVC's KV-MR9000 and KS-HP1K, connect using a conversion cable of this type (not supplied).
Wenn Sie KV-MR9000 und KS-HP1K von JVC benutzen, so verwenden Sie ein Konvertierungskabel dieses Typs (nicht mitgeliefert).
Lors de l'utilisation du KV-MR9000 et du KS-HP1K de JVC, connectez en utilisant un câble de conversion de ce type (non fourni).
Sluit via een conversiekabel van dit type (niet meegeleverd) aan wanneer u JVC's KV-MR9000 en KS-HP1K gebruikt.

KD-DV5000

DIGITAL OUT

KV-MR9000
Wide color monitor (not supplied)
Breitbild-farbmonitor (nicht mitgeliefert)
Moniteur couleur à écran large (non fourni)
Breed kleurenmonitor (niet meegeleverd)

JVC MONITOR CONNECTION UNIT for CAR USE

Stereo mini plug
Mini-Stereoklinkenstecker
Mini fiche stéréo
Stereo ministekker

KS-HP1K
Cordless headphones (not supplied) *1
Funk-Kopfhörer (nicht mitgeliefert) *1
*Casque d'écoute sans fil (non fourni) *1*
Snoerloze koptelefoon (niet meegeleverd) *1

Video cord (not supplied)
Videokabel (nicht mitgeliefert)
Cordon vidéo (non fourni)
Videosnoer (niet meegeleverd)

RCA Pin plugs
RCA-Stecker
Fiches cinch
RCA Pen-stekkertjes

2nd AUDIO OUT

VIDEO OUT

*1 To listen to disc playback sound while in Dual Zone operations (see page 40 of Instructions)
*1 Zum Abhören von Disc-Audio im Dual Zone-Betrieb (siehe Anleitung auf Seite 40).
*1 *Pour écouter le son de lecture des disque lors de l'utilisation du mode Dual Zone (voir page 40 du manuel d'instructions).*
*1 Om in Dual Zone naar een disk te luisteren (zie pagina 40 van de handleiding).

About sounds reproduced through the 2nd AUDIO OUT plug and the DIGITAL OUT terminal, see pages 53 and 83 of the Instructions.

Zur Klangwiedergabe über den 2nd (zweiten) AUDIO OUT-Anschluss und den DIGITAL OUT-Anschluss siehe Seiten 53 und 83 der Anleitung.

À propos des sons reproduits par la fiche 2nd AUDIO OUT et la prise DIGITAL OUT, référez-vous aux pages 53 et 83 du mode d'emploi.

Informatie over geluid dat door de 2nd (2e) AUDIO OUT stekker en de DIGITAL OUT aansluiting wordt uitgevoerd, zie pagina 53 en 83 van de handleiding.

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.**
• Connect the black lead (ground), yellow lead (to car battery, constant 12 V), and red lead (to an accessory terminal) correctly.
• BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.
  – **If the speaker wiring in your car is as illustrated in Fig. 1 and Fig. 2 below,** DO NOT connect the unit using that original speaker wiring. If you do, the unit will be seriously damaged.
  Redo the speaker wiring so that you can connect the unit to the speakers as illustrated in Fig. 3.
  – **If the speaker wiring in your car is as illustrated in Fig. 3,** you can connect the unit using the original speaker wiring in your car.
  – If you are not sure of the speaker wiring of your car, consult your car dealer.

Fig. 1 **Fig. 2** **Fig. 3**
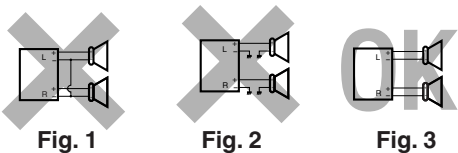
VORSICHTSMASSREGELN beim Anschließen der Stromversorgung und Lautsprecher:
• **Die Lautsprecherleitungen des Netzkabels NICHT an der Autobatterie anschließen, da sonst das Gerät schwer beschädigt wird.**
• Die schwarze Leitung (Erdung), die gelbe Leitung (zur Autobatterie, konstant 12 V) und die rote Leitung (zur Zubehöranschlußklemme) richtig anschließen.
• VOR dem Anschließen der Lautsprecherleitungen des Spannungsversorgungskabels an die Lautsprecher, die Lautsprecherverdrahtung in Ihrem Auto überprüfen.
  – **Ist die Lautsprecherverdrahtung wie unten in "Fig. 1" und "Fig. 2" abgebildet,** das Gerät NICHT mit der Originalverdrahtung der Lautsprecher anschließen, da sonst das Gerät schwer beschädigt wird.
  Die Lautsprecherverdrahtung erneuern, so daß Sie das Gerät an den Lautsprechern wie in "Fig. 3" abgebildet anschließen können.
  – **Ist die Lautsprecherverdrahtung in Ihrem Auto wie in "Fig. 3" abgebildet,** können Sie das Gerät mit der Originalverdrahtung der Lautsprecher in Ihrem Auto anschließen.
  – Sind Sie sich über die Lautsprecherverdrahtung in Ihrem Auto nicht sicher, wenden Sie sich an Ihren Autohändler.

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.**
• *Connectez correctement le fil noir (a la masse), le fil jaune (a la batterie de la voiture,12 V constant) et le fil rouge (à la prise accessoire).*
• *AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.*
  – **Si le câblage des enceintes de votre voiture est comme montré sur la Fig. 1 ou Fig. 2**
  ci-dessous, *NE CONNECTEZ PAS l'appareil en utilisant ce câblage original des enceintes. Si vous le faites, l'appareil sera sérieusement endommagé. Recommencez le câblage des enceintes de façon que vous puissiez connecter l'appareil aux enceintes comme montré sur la Fig. 3.*
  – **Si le câblage des enceintes de votre voiture est comme montré sur la Fig. 3,** *vous pouvez connecter l'appareil en utilisant ce câblage original d'enceintes pour votre voiture.*
  – *Si vous n'êtes pas sûrs du câblage d'enceintes de votre voiture, consulter le concessionnaire 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.**
• Sluit de zwarte draad (aarde), de gele draad (naar de accu van de auto, constant 12 V) en de rode draad (naar de aansluitklem van de accessoire) op de juiste wijze aan.
• VOORDAT u de speakerdraden van de stroomkabel met de speakers verbindt, moet u de bedrading van de speakers in uw auto controleren.
  – **Als de bedrading van de speakers eruitziet zoals hieronder staat afgebeeld in Fig. 1 en Fig. 2,** mag het apparaat NIET worden aangesloten met behulp van deze oorspronkelijke speakerbedrading. Als u dat wel doet, zal het apparaat ernstige schade oplopen. Pas de bedrading van de speakers aan, zodat u het apparaat met de speakers kunt verbinden, zoals staat afgebeeld in Fig. 3.
  – **Als de bedrading van de speakers eruitziet zoals staat afgebeeld in Fig. 3,** kunt u het apparaat aansluiten met behulp van de oorspronkelijke speakerbedrading in uw auto.
  – Als u twijfels hebt over de speakerbedrading in uw auto, moet u contact opnemen met uw autodealer.

A **If your car is equipped with the ISO connecter**
Wenn Ihr Auto mit ISO-Steckern ausgestattet ist
Si votre voiture est équippée d'un connecteur ISO
Indien uw auto is uitgerust met de ISO-connector
• Connect the ISO connectors as illustrated.
• Die ISO-Stecker wie abgebildet anschließen.
• *Connectez les connecteurs ISO comme montré sur l'illustration.*
• Sluit de ISO-connectoren aan zoals op het voorbeeld is aangegeven.

From the car body
Von der Karosserie
De la carrosserie de la voiture
Vanaf de auto

ISO connector of the supplied power cord
ISO-Stecker am Stromkabel
Connecteur ISO pour le cordon d'alimentation fourni
ISO-connector van het meegeleverde snoer

View from the lead side
Ansicht von der Leitungsseite
Vue à partir du côté des fils
Aanzicht vanaf het snoer
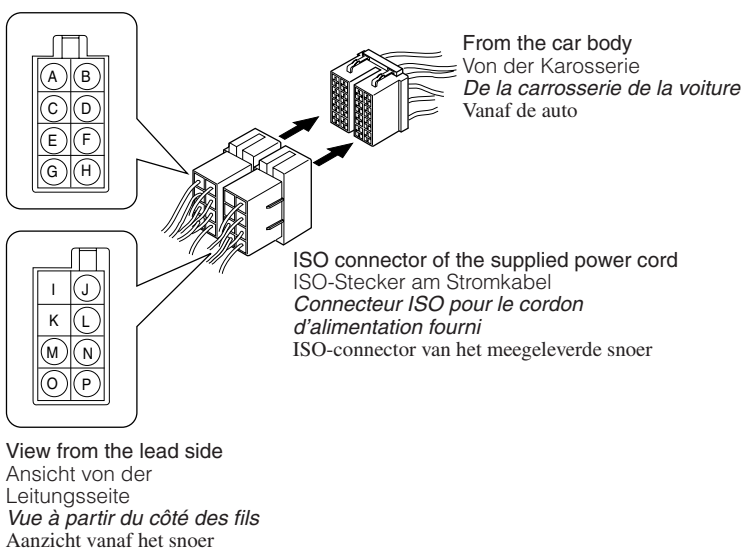
For some VW/Audi or Opel (Vauxhall) automobile
Für manche VW/Audi oder Opel (Vauxhall) Fahrzeuge
Pour certaine voiture VW/Audi ou Opel (Vauxhall)
Voor bepaalde modellen VW/Audi of Opel (Vauxhall) geldt
You may need to modify the wiring of the supplied power cord as illustrated.
• Contact your authorized car dealer before installing this unit.
Sie müssen evtl. die Verdrahtung des mitgelieferten Stromkabels wie abgebildet ändern.
• Wenden Sie sich an Ihre Vertragswerkstatt, bevor Sie das Gerät einbauen.
Vous aurrez peut-être besoin de modifier le câblage du cordon d'alimentation fourni comme montré sur l'illustration.
• *Contactez votre revendeur automobile autorisé avant d'installer l'appareil.*
Wellicht moet u de bedrading van het meegeleverde snoer als in het voorbeeld aanpassen.
• Neem contact op met uw offici'le autodealer alvorens dit apparaat te installeren.

Original wiring
Originalverdrahtung
Câblage original
Originele bedrading
ISO connector
ISO-Stecker
Connecteur ISO
ISO-connector

Yellow/Gelb/*Jaune*/Geel   Yellow/Gelb/*Jaune*/Geel
Red/Rot/*Rouge*/Rood
Red/Rot/*Rouge*/Rood   Red/Rot/*Rouge*/Rood

Modified wiring 1
Geänderte Verdrahtung 1
Câblage modifié 1
Aangepaste bedrading 1

Yellow/Gelb/*Jaune*/Geel   Yellow/Gelb/*Jaune*/Geel
Red/Rot/*Rouge*/Rood
Red/Rot/*Rouge*/Rood   Red/Rot/*Rouge*/Rood

Use modified wiring 2 if the unit does not turn on.
Geänderte Verdrahtung 2 verwenden, wenn das Gerät so nicht an geht.
Utilisez le câblage modifié 2 si l'appareil ne se met pas sous tension.
Pas de bedrading 2 aan indien het apparaat niet reageert bij inschakelen.

Modified wiring 2
Geänderte Verdrahtung 2
Câblage modifié 2
Aangepaste bedrading 2

Yellow/Gelb/*Jaune*/Geel   Yellow/Gelb/*Jaune*/Geel
Red/Rot/*Rouge*/Rood   Red/Rot/*Rouge*/Rood
Red/Rot/*Rouge*/Rood

B **Connections without using the ISO connecters / Anschlüsse ohne ISO-Stecker / Connexions sans l'utilisation des connecteurs ISO / Verbindingen zonder ISO-connectoren**

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 colour.
1 Cut the ISO connector.
2 Connect the colored leads of the power cord to the car battery, speakers and power aerial (if any) in the following sequence.
  ① Black: ground
  ② Yellow: to car battery (constant 12 V)
  ③ Red: to an accessory terminal
  ④ Blue with white stripe: to the remote lead of other equipment or power aerial if any (200 mA max.)
  ⑤ Orange with white stripe: to car light control switch
  ⑥ Brown: to cellular phone system (for details, refer to the instructions of the cellular phone.)
  ⑦ Light green: to parking brake, metallic body or chassis of the car
  ⑧ Others: to speakers
3 Connect the aerial cord.
4 Finally connect the wiring harness to the unit.

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 Den ISO-Stecker abschneiden.
2 Die farbigen Leitungen des Spannungsversorgungskabels an der Autobatterie, den Lautsprechern und dem Motorantenne (sofern vorhanden) in folgender Reihenfolge anschließen.
  ① Schwarz: Erdung
  ② Gelb: an Autobatterie (konstant 12 V)
  ③ Rot: zur einer Zubehöranschlußklemme
  ④ Blau mit weißem Streifen: zum Zusatzkabel des anderen Geräts oder der Motorantenne, sofern vorhanden (max. 200 mA)
  ⑤ Orange mit weißem Streifen: zur Autolichtschalter
  ⑥ Braun: zur Mobiltelefon (weitere Informationen entnehmen Sie bitte der Bedienungscanleitung des Mobiltelefons.)
  ⑦ Hellgrün: Zur Handbremse, Metallkarosserie oder zum Chassis des Fahrzeugs.
  ⑧ Andere: zur Lautsprecher
3 Das Antennenkabel anschließen.
4 Die Kabelbäume am Gerät anschließen.

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 *Coupez le connecteur ISO.*
2 *Connectez les fils de couleur du cordon d'alimentation à la batterie de la voiture, aux enceintes et à l'antenne automatique (s'il y en a une) dans l'ordre suivant.*
  ① *Noir: à la masse*
  ② *Jaune: à la batterie de la voiture (12 V constant)*
  ③ *Rouge: à une borne accessoire*
  ④ *Bleu avec bande blanche: au fil de télécommande de l'autre appareil ou à l'antenne automatique s'il y en a une (200 mA max.)*
  ⑤ *Orange avec bande blanche: à l'interrupteur d'éclairage de la voiture*
  ⑥ *Marron: à un système de téléphone cellulaire (pour les détails, se référer aux instructions du téléphone cellulaire.)*
  ⑦ *Vert clair: Au frein de stationnement, corps métallique ou châssis de la voiture.*
  ⑧ *Autres: aux enceintes*
3 *Connectez le cordon d'antenne.*
4 *Finalement, connectez le faisceau de fils à l'appareil.*

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 stroomsnoer verschillen mogelijk van kleur metde aansluitingen op het chassis van de auto.
1 Knip de ISO-connector los.
2 Sluit de gekleurde snoerdraden van de stroomkable in de hierna genoemde volgorde aan op de accu van de auto, de luidsprekers en de antenne (indien aanwezig).
  ① Zwart: aarde
  ② Geel: naar de accu van de auto (constant 12 V)
  ③ Rood: naar de aansluitklem van de accessoire
  ④ Blauw met witte streep: naar afstandsdraad van andere apparatuur of antenne met circuit indien aanwezig (200 mA max.)
  ⑤ Oranje met witte streep: naar de schakelaar voor de autoverlichting
  ⑥ Bruin: naar het mobiele-telefoonsysteem (lees voor meer informatie de instructies die bij de mobiele telefoon worden geleverd.)
  ⑦ Lichtgroen: naar de parkeerrem, metallic carrosserie of chassis van de auto
  ⑧ Andere: naar de speakers
3 Sluit de antenne aan.
4 Verbind de draadbundel daarna met het apparaat.

Aerial terminal
Antennenanschlußklemme
Borne de l'antenne
Aansluitpunt antenne

Rear ground terminal
Hintere Erdungscan–schlußklemme
Borne arrière de masse
Massaklem aan de achterkant

JVC CD changer or DAB tuner
CD-Wechsler von JVC oder DAB-Tuner
Changeur CD JVC ou Tuner DAB
JVC CD-wisselaar of DAB-tuner

We recommend you to connect the JVC MP3 compatible CD changer. You can also connect other CH-X series CD changers with this unit. (except CH-X99 and CH-X100).
• You cannot use the KD-MK series CD changers with this unit.
You can also use an external component such as a portable MD player by connecting the Line Input Adapter KS-U57 (not supplied). (See diagram **C**.)
Wir empfehlen Ihnen, den MP3-kompatiblen CD-Wechsler von JVC anzuschließen. Sie können auch andere CD-Wechsler der Serie CH-X anschließen (außer CH-X99 und CH-X100).
• CD-Wechsler der Serie KD-MK können mit diesem Gerät nicht verwendet werden.
Sie können auch eine externe Komponente, z.B. einen tragbaren MD-Spieler, verwenden, wenn Sie den (nicht zum Lieferumfang gehörenden) Line-Eingangsadapter KS-U57 anschließen. (Siehe Schaltplan **C**.)
Nous vous recommandons de connecter le changeur de CD compatible MP3 JVC. Vous pouvez aussi connecter d'autres changeurs de CD de la série CH-X (sauf le CH-X99 et le CH-X100).
• *Vous ne pouvez pas utiliser les changeurs de CD de la série KD-MK avec cet appareil.*
*Vous pouvez aussi utiliser un appareil extérieur tel qu'un lecteur de MD en connectant l'adaptateur d'entrée de ligne KS-U57 (non fourni). (Voir le diagramme **C**.)*
Sluit bij voorkeur de JVC, MP3 compatibele CD-wisselaar aan. U kunt tevens bepaalde andere CD-wisselaars uit de CH-X serie aansluiten (uitgezonderd de CH-X99 en CH-X100).
• U kunt CD-wisselaars uit de KD-MK serie niet met dit toestel gebruiken.
Het is ook mogelijk een extern apparaat zoals een draagbare MD-speler aan te sluiten met behulp van de Line Input Adapter KS-U57 (niet meegeleverd). (Zie schema **C**.)

VIDEO OUT (see diagram **C**) (siehe Schaltplan **C**) *(voir le diagramme **C**)* (zie schema **C**)
LINE IN
LINE OUT
DIGITAL OUT (see diagram **C**) (siehe Schaltplan **C**) *(voir le diagramme **C**)* (zie schema **C**)
15 A fuse
15 A Sicherung
Fusible 15 A
Zekering 15 A

2nd AUDIO OUT (see diagram **C**) (siehe Schaltplan **C**) *(voir le diagramme **C**)* (zie schema **C**)

To steering wheel remote controller (see diagram **D**)
An Lenkradfernbedienung (siehe Schaltplan **D**)
*Pour la télécommande de volant (voir le diagramme **D**)*
Naar stuurwiel-afstandsbediening (zie schema **D**)

*2 Not included with this unit / *2 Wird nicht mit Gerät mitgeliefert /
*2 Non fourni avec cet appareil / *2 Niet bij het apparaat inbegrepen

Black
Schwarz
Noir
Zwart
(P) ①
To metallic body or chassis of the car
Zur metallenen Karosserie oder zum Fahrwerk des Autos
Au corps métallique ou châssis de la voiture
Naar metalen ondergrond of chassis van de auto

Ignition switch
Zündschalter
Interrupteur d'allumage
Contactschakelaar

Yellow*3
Gelb*3
*Jaune*3
Geel*3
(L) ②
To a live terminal in the fuse block connecting to the car battery (bypassing the ignition switch)
Zur einer stromführenden Anschlußklemme im Sicherungsblock zum Anschließen an die Autobatterie (Umgehen des Zündschalters)
À une borne sous tension du porte-fusible connectée à la batterie de la voiture (en dérivant l'interrupteur d'allumage)
Naar een onder spanning staande aansluitklem in het zekeringblok die is aangesloten op de accu van de auto (u passeert de ontstekingsschakelaar)

Red
Rot
Rouge
Rood
(O) ③
To an accessory terminal in the fuse block
Zur einer Zubehöranschlußklemme im Sicherungsblock
À une borne accessoire du porte-fusible
Naar een aansluitklem in het zekeringblok

Fuse block
Sicherungsblock
Porte-fusible
Zekeringblok

Cut the ISO connector
Den ISO Stecker abscheiden
Coupez le connecteur ISO
Knip de connector ISO

Blue with white stripe
Blau mit weißem Streifen
Bleu avec bande blanche
Blauw met witte streep
(M) ④
To the remote lead of other equipment or power aerial if any
Zum Zusatzkabel des anderen Geräts oder der Motorantenne, sofern vorhanden
Au fil de télécommande de l'autre appareil ou à l'antenne automatique s'il y en a une
Naar afstandsdraad van andere apparatuur of antenne met circuit indien aanwezig

Orange with white stripe
Orange mit weißem Streifen
Orange avec bande blanche
Oranje met witte streep
(N) ⑤
(ILLUMINATION)
To car light control switch
Zur Autolichtschalter
À l'interrupteur d'éclairage de la voiture
Naar de schakelaar voor de autoverlichting

*3 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise power cannot be turned on.
*3 Vor der Überprüfung der Funktionsfähigkeit des Geräts vor dem Einbau, muß diese Leitung angeschlossen werden, da sonst die Stromversorgung nicht eingeschaltet werden kann.
*3 *Pour vérifier le fonctionnement de cet appareil avant installation, ce fil doit être raccordé, sinon l'appareil ne peut pas être mis sous tension.*
*3 Voordat u controleert of het apparaat werkt (alvorens het te installeren), moet deze draad aangesloten zijn. Als dit niet het geval is, kan de stroom niet worden ingeschakeld.

Brown / Braun / *Marron* / Bruin
(J) ⑥
To cellular phone system
Zur Mobiltelefon
À un système de téléphone cellulaire
Naar het mobiele-telefoonsysteem

Light green
Hellgrün
Vert clair
Lichtgroen
⑦
(PARKING BRAKE)
To parking brake (using the supplied crimp: see below), metallic body or chassis of the car
Zur Handbremse (mit Hilfe der mitgelieferten Quetschverbindung: siehe unten), zur Metallkarosserie oder zum Chassis des Fahrzeugs.
Au frein de stationnement (en utilisant la cosse à sertir fournie: voir ci-dessous), corps métallique ou châssis de la voiture.
Naar de parkeerrem (met de meegeleverde krimp: zie hieronder, metallic carrosserie of chassis van de auto

⑧

(F) (E)
White with black stripe
Weiß mit schwarzem Streifen
Blanc avec bande noire
Wit met zwarte streep
(−) (+)
White
Weiß
Blanc
Wit
Left speaker (front)
Linker Lautsprecher (vorne)
Enceinte gauche (avant)
Linkerspeaker (voorin)

(D) (C)
Gray with black stripe
Grau mit schwarzem Streifen
Gris avec bande noire
Grijs met zwarte streep
(−) (+)
Gray
Grau
Gris
Grijs
Right speaker (front)
Rechter Lautsprecher (vorne)
Enceinte droit (avant)
Rechterspeaker (voorin)

(H) (G)
Green with black stripe
Grün mit schwarzem Streifen
Vert avec bande noire
Groen met zwarte streep
(−) (+)
Green
Grün
Vert
Groen
Left speaker (rear)
Linker Lautsprecher (hinten)
Enceinte gauche (arrière)
Linkerspeaker (achterin)

(B) (A)
Purple with black stripe
Lila mit schwarzem Streifen
Violet avec bande noire
Paars met zwarte streep
(−) (+)
Purple
Lila
Violet
Paars
Right speaker (rear)
Rechter Lautsprecher (hinten)
Enceinte droit (arrière)
Rechterspeaker (achterin)

How to use the crimp connector / Verwendung des Quetschverbinders / Comment utiliser la cosse à sertir / De krimpaansluiting gebruiken

Attach the parking brake wire to this point.
Legen Sie das Handbremsenkabel hier ein.
Attachez le fil du frein de stationnement ici.
Bevestig op dit punt het draad van de parkeerrem.

Wire connecting the battery and the parking brake switch
Verbinden des Batterie- und des Handbremsenkabelschalters.
Fil connectant la batterie et l'interrupteur de frein de stationnement
Draad voor aansluiting van de accu op de parkeerremschakelaar

Contact the metallic part of the crimp to the wires inside.
Kontaktieren des Metallteils des Quetschverbinders mit den Kabeln im Inneren.
Mettez en contact la partie métallique de la cosse à sertir et des fils intérieurs.
Zorg ervoor dat het metalen gedeelte van de krimp in contact komt met de interne draden.

Pinch the crimp firmly.
Drücken Sie den Quetschverbinder fest zusammen.
Pincez la cosse à sertir fermement.
Knijp stevig in de krimp.

Connecting the parking brake wire / Anschluss des Handbremsenkabels / Connexion du cordon de frein de stationnement / De parkeerremdraad aansluiten

When installing the monitor in a location where it can be seen by the driver
Wenn der Monitor an einer vom Fahrer einsehbaren Stelle installiert wird.
Lorsqu'on installe le moniteur à un emplacement où il peut être vu du conducteur
Wanneer de monitor op een plaats geïnstalleerd wordt waar hij door de bestuurder gezien kan worden

Connect the parking brake wire to the parking brake system built in the car.
Anschluss des Handbremsenkabels an das im Fahrzeug eingebaute Handbremsensystem.
Connectez le fil de frein de stationnement au système de frein de stationnement.
Sluit de parkeerremdraad op het parkeerremsysteem van de auto aan.

Parking brake
Handbremse
Frein de stationnement
Parkeerrem

Crimp
Crimp-Quetschverbindung
Cosse à sertir
Krimpaansluiting

Parking brake wire (light green)
Handbremsenkabel (hellgrün)
Fil du frein de stationnement (vert clair)
Parkeerremdraad (lichtgroen)

PARKING BRAKE

Parking brake switch
Handbremsenschalter
Commutateur de frein de stationnement
Parkeerremschakelaar

To metallic body or chassis of the car
Zur Metallkarosserie oder zum Chassis des Fahrzeugs.
Vers corps métallique ou châssis du véhicule
Naar de metallic carrosserie of chassis van de auto

When installing the monitor in a location where it cannot be seen by the driver
Wenn der Monitor an einer vom Fahrer nicht einsehbaren Stelle installiert wird.
Lorsqu'on installe le moniteur à un emplacement où il ne peut pas être vu du conducteur
Wanneer de monitor op een plaats geïnstalleerd wordt waar hij niet door de bestuurder gezien kan worden.

Connect the parking brake wire to metallic body or chassis of the car.
Schließen Sie das Handbremsenkabel an die Metallkarosserie oder an das Chassis des Fahrzeugs an.
Connectez le fil du frein de stationnement au corps métallique ou châssis du véhicule.
Sluit de parkeerremdraad aan op de metallic carrosserie of chassis van de auto.

PARKING BRAKE

*4

Parking brake wire (light green)
Handbremsenkabel (hellgrün)
Cordon du frein de stationnement (vert clair)
Parkeerremdraad (lichtgroen)

*4 Not included with this unit / *4 Wird nicht mit Gerät mitgeliefert /
*4 Non fourni avec cet appareil / *4 Niet bij het apparaat inbegrepen

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C 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:*
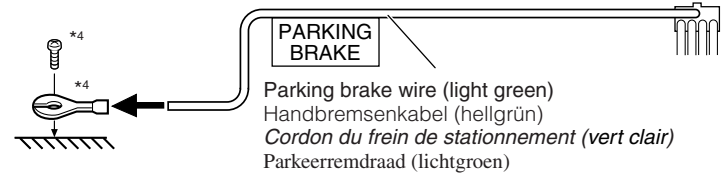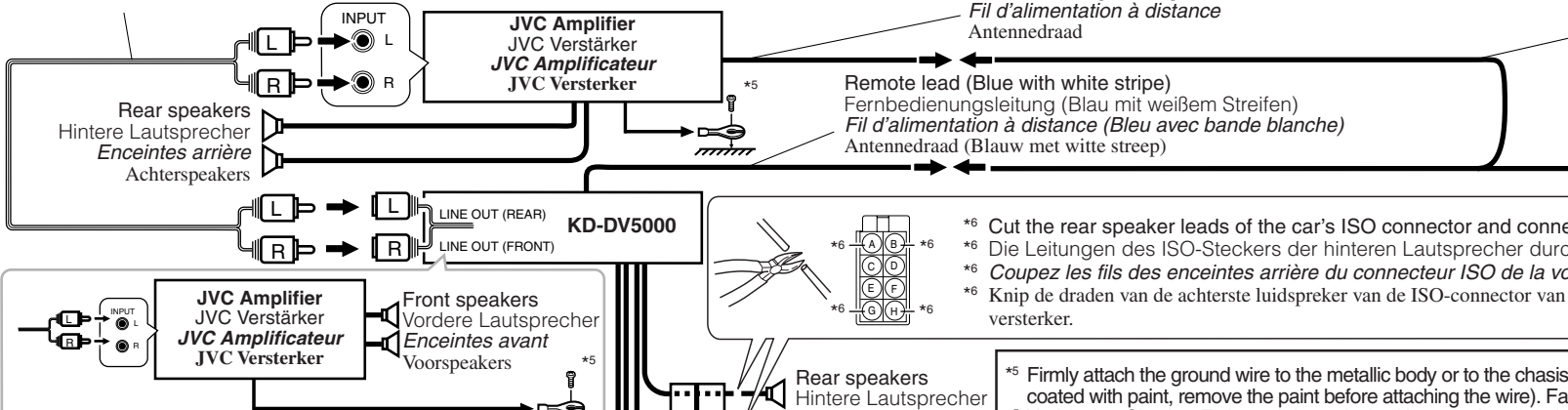**Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés.**

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 apparatuur zodat deze op afstand vanaf dit apparaat kan worden bediend.
• Alleen voor een versterker:
Koppel de speakers van dit apparaat los en verbind ze aan de versterker.

Signal cord (not supplied with this unit)
Einzelleitung (nicht mit diesem Gerät mitgeliefert)
Cordon de signal (non fourni avec cet appareil)
Signaalkabel (wordt niet bij dit apparaat geleverd)

JVC Amplifier
JVC Verstärker
JVC Amplificateur
JVC Versterker

INPUT L R

Rear speakers
Hintere Lautsprecher
Enceintes arrière
Achterspeakers

Remote lead
Fernbedienungsleitung
Fil d'alimentation à distance
Antennedraad

Remote lead (Blue with white stripe)
Fernbedienungsleitung (Blau mit weißem Streifen)
Fil d'alimentation à distance (Bleu avec bande blanche)
Antennedraad (Blauw met witte streep)

Y-connector (not supplied with this unit)
Y-Anschluß (nicht mit diesem Gerät mitgeliefert)
Connecteur Y (non fourni avec cet appareil)
Y-connector (wordt niet bij dit apparaat geleverd)

To power aerial if any
Zur Motorantenne, sofern vorhanden
À l'antenne automatique, s'il y en a une
Naar de antenne (indien aanwezig)

LINE OUT (REAR)
LINE OUT (FRONT)
KD-DV5000

*6 Cut the rear speaker leads of the car's ISO connector and connect them to the amplifier.
*6 Die Leitungen des ISO-Steckers der hinteren Lautsprecher durchtrennen und am Verstärker anschließen.
*6 *Coupez les fils des enceintes arrière du connecteur ISO de la voiture et connectez-les à l'amplificateur.*
*6 Knip de draden van de achterste luidspreker de ISO-connector van de auto door en sluit deze draden aan op de versterker.

JVC Amplifier
JVC Verstärker
JVC Amplificateur
JVC Versterker

INPUT L R

Front speakers
Vordere Lautsprecher
Enceintes avant
Voorspeakers

You can connect another power amplifier for front speakers.
Sie können einen anderen Leistungsverstärker für die vorderen Lautsprecher anschließen.
Vous pouvez connecter un autre amplificateur de puissance pour les enceintes avant.
U kunt nog een eindversterker voor de voorspeakers aansluiten.

Rear speakers
Hintere Lautsprecher
Enceintes arrière
Achterspeakers

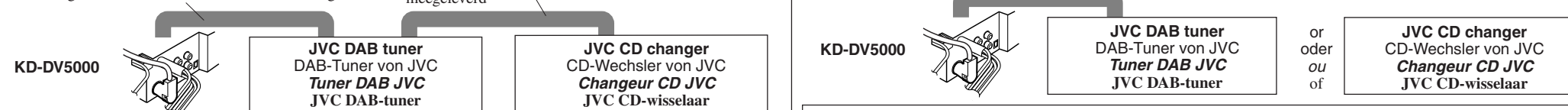Front speakers
Vordere Lautsprecher
Enceintes avant
Voorspeakers

*5 Firmly attach the ground wire to the metallic body or to the chasis 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.
*5 Verbinden Sie den Erdungsleiter mit der Karosserie oder dem Rahmen des Fahrzeugs. Die Kntaktstelle 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.
*5 *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.*
*5 Bevestig de aardedraad 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 aardedraad niet goed is aangesloten.

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

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

KD-DV5000

JVC DAB tuner
DAB-Tuner von JVC
Tuner DAB JVC
JVC DAB-tuner

JVC CD changer
CD-Wechsler von JVC
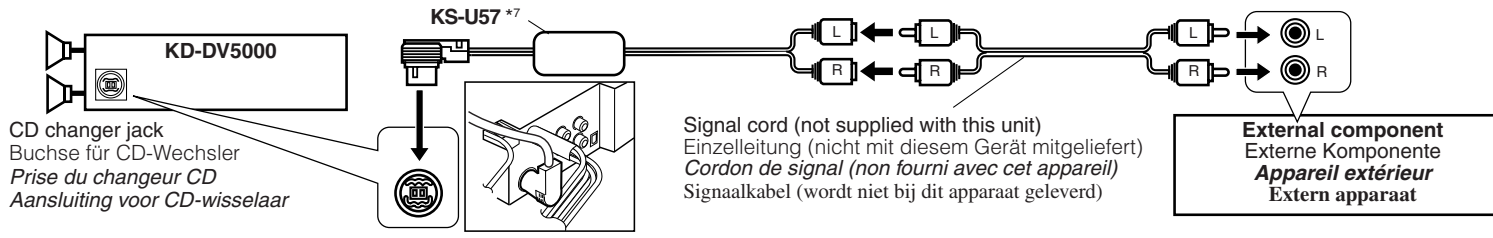*Changeur CD JVC*
JVC CD-wisselaar

Connecting cord supplied with your DAB tuner or CD changer
Verbindungskabel, 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

KD-DV5000

JVC DAB tuner
DAB-Tuner von JVC
Tuner DAB JVC
JVC DAB-tuner

or
oder
ou
of

JVC CD changer
CD-Wechsler von JVC
Changeur CD JVC
JVC CD-wisselaar

• 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.

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 en/of DAB-tuner CD-wisselaar aansluit.
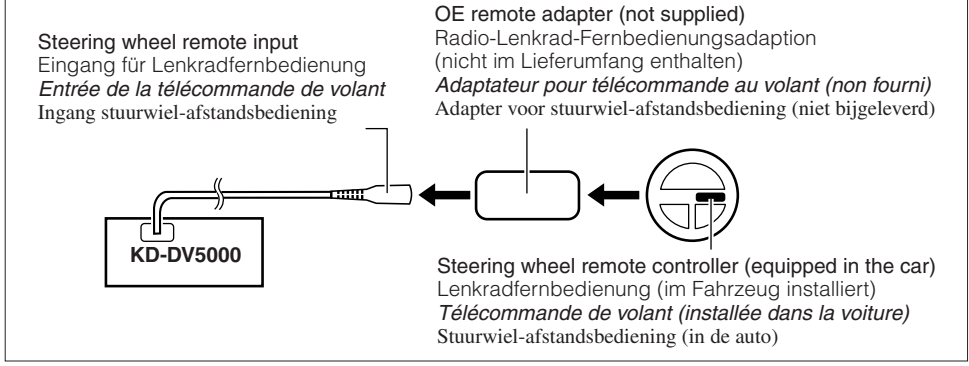

External Component / Externe Komponente / Appareil extérieur / Extern apparaat

KS-U57 *7

KD-DV5000

L R

CD changer jack
Buchse für CD-Wechsler
Prise du changeur CD
Aansluiting voor CD-wisselaar

Signal cord (not supplied with this unit)
Einzelleitung (nicht mit diesem Gerät mitgeliefert)
Cordon de signal (non fourni avec cet appareil)
Signaalkabel (wordt niet bij dit apparaat geleverd)

External component
Externe Komponente
Appareil extérieur
Extern apparaat

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

D 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 Lenkradferndienung 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 (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 de afstandsbediening bedienen. Hiervoor heeft u echter een JVC adapter voor stuurwiel-afstandsbediening (niet bijgeleverd) nodig die geschikt is voor uw auto. Raadpleeg uw JVC car audio dealer voor details.

Steering wheel remote input
Eingang für Lenkradfernbedienung
Entrée de la télécommande de volant
Ingang stuurwiel-afstandsbediening

OE remote adapter (not supplied)
Radio-Lenkrad-Fernbedienungsadaption (nicht im Lieferumfang enthalten)
Adaptateur pour télécommande au volant (non fourni)
Adapter voor stuurwiel-afstandsbediening (niet bijgeleverd)

KD-DV5000

Steering wheel remote controller (equipped in the car)
Lenkradfernbedienung (im Fahrzeug installiert)
Télécommande de volant (installée dans la voiture)
Stuurwiel-afstandsbediening (in de auto)

JVC

A Guide to MP3

What are MP3?

MP3 (MPEG Audio Layer 3) is one of digital audio compression standards.
• This player cannot play back MP3i and MP3 PRO formats.

About Tag of MP3

This player can show the names of albums, artists (performer), and tracks of MP3 Tag.
• This player can handle only one-byte characters. Any other characters cannot be correctly displayed.

About formats of MP3

This player cannot play back the following files:
• MP3 files without extensions such as [.MP3].
• MP3 files with the extensions other than [.MP3].
• Files which do not have MP3 data.
• MP3 files are not encoded in an appropriate format.
• MP3 files encoded with Layer 1/2.
• Files which have the data such as WMA, WAVE, ATRAC3, MPEG 2.5, etc.

About available formats of disc

This player cannot play back the following cases:
• CD-R/RW on which the files are written with "Packet Write" method.
• There are improper recording conditions (missing data, etc.) or media conditions (stain, scratch, warp, etc.).
• There are unclosed sessions on CD-R/RW (this player skips unclosed sessions).

About functions restrained during MP3 playback

• The search function works but search speed is not constant during search.
• When skip is tried at the last file in a folder, the next folder is selected.

Questions and Answers

An MP3 disc requires a long readout time…?
When an MP3 disc is inserted, information inside the disc (number of folders and files, and positions of data) is first read.
So, in the following cases, a fairly long time may be needed before playback starts:
• If the file structure is complicated,
• If the number of files is large, or
• If the number of sessions is large (in case of multi-session discs).

There occurs sound interruption or sound skipping…?
Sound interruption or sound skipping may occur, depending on recording conditions (missing data, etc.) or media conditions (stain, scratch, warp, etc.).

MP3 files are not played back in an intended order…?
This player plays back MP3 files in the order they are organized on the disc.
• The playback order may differ from your intended order because of your writing software.

Elapsed playing time is not displayed correctly…?
Files recorded in VBR (variable bit rate) have a discrepancy in elapsed time display, and do not show the actual passage of time. Especially, after performing the search function, this difference becomes noticeable.

Table of playable disc types

○: Compatible

		KD-DV5000
Discs containing MP3 files		MP3 playback
Mixed-CD	**MP3 + CD-DA**	CD-DA playback
	Other files + CD-DA	CD-DA playback
Enhanced-CD	**CD-DA + MP3**	CD-DA playback
File name system	**ISO9660 Level1**	Up to 12 characters (8.3 format)
	ISO9660 Level2	Up to 31 characters
	ISO9660 Level3	Not available
	Romeo	Up to 62 characters
	Joliet	Up to 62 characters
	Windows long file name	Up to 62 characters
Multiple session		○
80-minute discs (capacity: 700 MB)		○

• Maximun number of characters for file/folder names includes 4 extension characters—".MP3" .

Table for playable MP3 files

○: Compatible

			KD-DV5000
MP3	**Bit-rate**		8 kbps—320 kbps
	VBR		○
	Sampling frequency	**MPEG-1**	48 kHz/ 44.1 kHz/ 32 kHz
		MPEG-2	24 kHz/ 22.05 kHz/ 16 kHz
	Joint stereo		○
	Emphasis		—
	ID3-Tag		Ver. 1.0/ 1.1
m3u playlist			Not available
Manual search			○ (Search speed is not constant.)
Maximum number of folder hierarchy			10
Maximum number of files/folders	**Files on each folder**		150
	Folders on a disc		99
	Total		14850
Maximum number of characters on the display			62 (32 on the monitor) (including [.MP3])

Glossary

CD-DA
The data of music CD

Mixed-CD
A CD-R/RW on which audio tracks (CD-DA data) have been added to data tracks before closing a session.

Enhanced-CD
A CD-R/RW on which data tracks have been added to audio tracks (CD-DA data) before closing a session.

Multiple session
A CD-writing method, which make it possible to add data on a CD-R/RW after closing a session.