

JVC



ENGLISH

DEUTSCH

FRANÇAIS

NEDERLANDS

CD RECEIVER

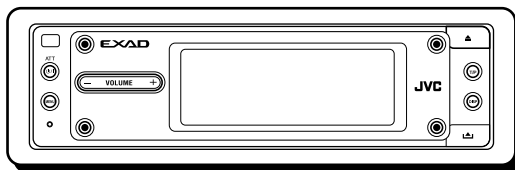
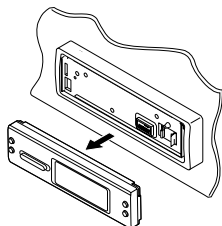
CD-RECEIVER

RECEPTEUR CD

CD-RECEIVER

KD-LHX502/KD-LHX501

EXAD



PICT



This unit is equipped with the display demonstration. To cancel it, see page 7.
Dieses Gerät ist mit einer Demonstrationsfunktion für das Display ausgestattet. Auf Seite 7 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 7.
Dit toestel heeft een display-demonstratiefunctie. Zie bladzijde 7 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

LVT1136-001B
[E/EX]

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.

IMPORTANT FOR LASER PRODUCTS

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

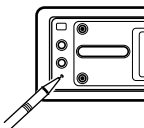
CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.	ADVARSEL: Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling.	VARNING: Synlig og usynlig laserstråling når den öppnas och spärren är urkopplad. Betrakta ej strålen.	VARO: Avattassa ja suojalukitus ohitettuna tai viallisena olet alittuna näkyväille ja näkymättömille lasersäteilylle. Vältä säteen kohistamista suoraan itseesi. (f)
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Warning:

If you need to operate the receiver while driving, be sure to look ahead carefully or you may be involved in a traffic accident.

How to reset your unit

Press the reset button on the control panel using a ball-point pen or a similar tool. This will reset the built-in microcomputer.



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

Cautions:

- Do not operate the touch panel using a ball-point pen or a similar tool with the sharp tip (it may damage the touch panel).
- 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. **LOWTEMP** appears on the display. When the temperature increases, and the operating temperature is resumed, these functions will start working again.

Important!

How to read this manual:

To make the explanations as simple and easy-to-understand as possible, we have adapted the following methods:

- **Some related tips and notes are explained later in the sections “More about This Receiver” (see page 59), but not in the same section explaining the operations.** If you want to know more about the functions, or if you have a doubt about the function, go to the section and you will find the answers.

- Button and touch panel operations are explained only with the illustrations as follows:

	Press briefly.
	Press repeatedly.
	Press either one.
	Press and hold until your desired response begins.

Contents

How to reset your unit	2	General Settings—PSM	33
Location of the Buttons	4	Basic procedure	33
Basic Operations	6	Selecting the dimmer mode	38
Canceling the display demonstration	7	Changing the display color	39
Setting the clock	8	Other Main Functions	41
Radio Operations	9	Assigning titles to the sources	41
Listening to the radio	9	Changing the control panel angle	42
Storing stations in memory	10	Detaching the control panel	42
Tuning in to a preset station	11	Basic CD Changer Operations	43
Changing the display pattern	11	Advanced CD Changer Operations	45
FM RDS Operations	12	Locating a disc	45
Searching for your favorite programme	12	Locating a track or folder on a disc	46
Using the Standby Reception	14	Selecting playback modes	48
Tracking the same programme	15	Changing the display pattern	49
—Network-Tracking Reception	15	External Component Operations	50
Using Programme Search	16	DAB Tuner Operations	51
Basic Disc Operations	18	Listening to the DAB tuner	51
Advanced Disc Operations	20	Storing DAB services in memory	53
Locating a track or folder on a disc	20	Tuning in to a preset DAB service	53
Prohibiting disc ejection	21	Using the Standby Reception	54
Selecting playback modes	22	Tracing the same programme	54
Changing the display pattern	23	—Alternative Reception	56
Sound Adjustments	24	Changing the display pattern	57
Setting the basic sound selection menu	24	Maintenance	58
—SEL	24	More about This Receiver	59
Selecting preset sound modes	25	Troubleshooting	63
(i-EQ: intelligent equalizer)	25	Specifications	65
Storing your own sound modes	26		
Graphic Displays	27		
Basic procedure	27		
Downloading the file for “OPENING/ ENDING/MOVIE”	28		
Downloading the files for “PICTURE”	29		
Deleting all files	31		
Activating the downloaded files	31		

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.

For safety....

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

Temperature inside the car....

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

Location of the Buttons

Control panel

⏻/ATT (Standby/On/Attenuator) button

Turns on and off the power, and also attenuates the sounds.

Remote sensor*

VOLUME+/- button

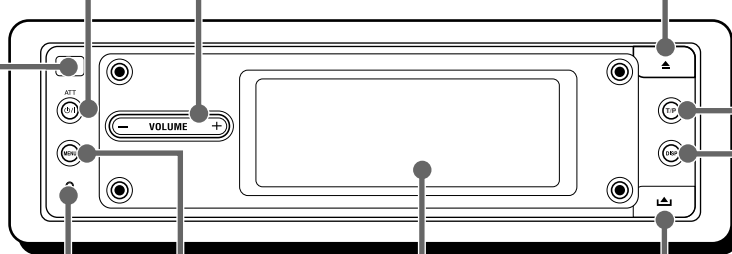
Adjust the volume level.

T/P button

Activates or deactivates TA Standby Reception (and Road Traffic News Standby Reception).

▲ (eject) button

Open the control panel (and eject the disc if any).



MENU button

Show the Main Menu.

Touch Panel

Used to operate the receiver.

Reset button

Reset the built-in microcomputer.

▲ (control panel release) button

Detach the control panel.

* DO NOT expose the remote sensor on the control panel to strong light (direct sunlight or artificial lighting).

DISP (display) button

Change the information shown on the display.

WARNINGS on the battery:

- 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.

Remote controller

⏻/I/ATT (Standby/On/Attenuator) button

SOURCE button

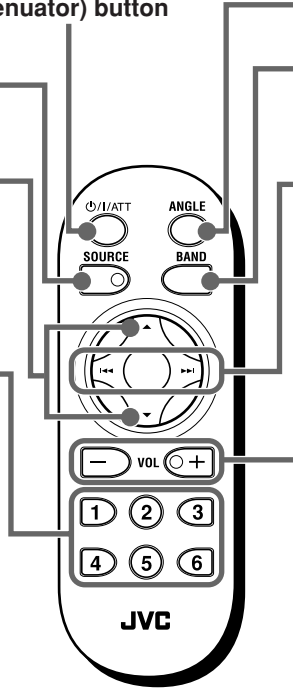
Select the source.

▲/▼ buttons

- Change the preset stations.
- Change the services for DAB.
- Change the folder on the MP3/WMA discs.

Number buttons

- Select the preset station (or a service) if pressed, or Store a station (or a service) if pressed and held.
- Select the tracks while playing CDs.
- Select the folders while playing MP3/WMA discs.
- Select the discs while operating the CD changer.



ANGLE button

Adjust the control panel angle.

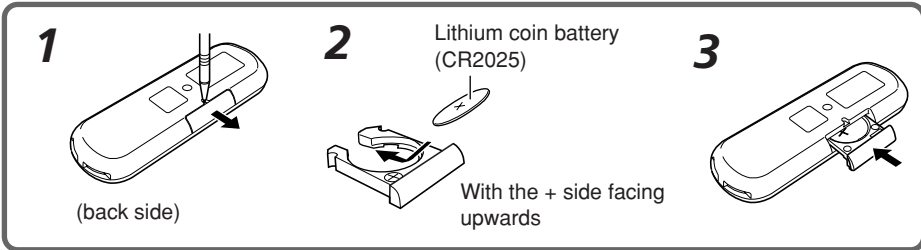
BAND button

Select the band for FM/AM and DAB.

◀◀/▶▶ buttons

- Searches for stations (or ensembles)—Auto Search, if pressed, or Skips frequencies after pressed and held (Manual Search).
- Change the tracks on the disc.

VOL (volume) +/- buttons



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.

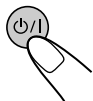
This receiver is equipped with the steering wheel remote control function. If your car is equipped with the steering wheel remote controller, you can operate this receiver using the controller.

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

Basic Operations

1 Turn on the power

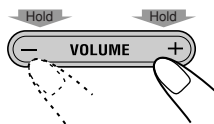
ATT



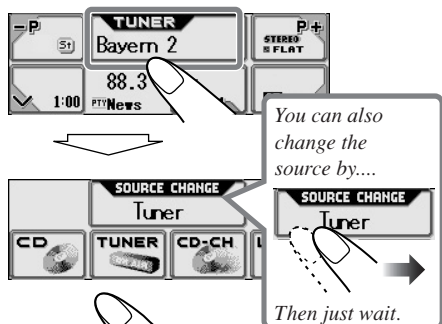
The Operation screen for last selected source is recalled.



3 Adjust the volume

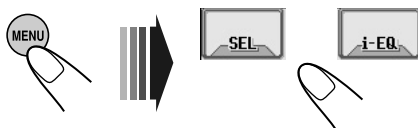


2 Select the source



Select the source.

4 Adjust the sound



- For details, see pages 24 to 26.

When operating the touch panel
Make sure to touch the area inside the key icon boundary, but not on the boundary.

Main touch panels used in this section

Main Menu



Not displayed when the source is "LINE-IN" (external component)

Not displayed when the source is "TUNER" or "DAB"

- To return to the previous screen, press "BACK" (if shown). See also page 59.

Source Selection screen



Either "CD-CH" or "LINE-IN" appears depending on the "Ext Input" setting (see page 37).

What information is shown on the touch panel

The following information are shown commonly for all sources.

- If you press DISP on the control panel, the touch panel will show the different information or different screens. (Details about this will be explained later separately for each source.)



To drop the volume in a moment (ATT):

ATT



To restore the sound, press it again.

To turn off the power:

Hold



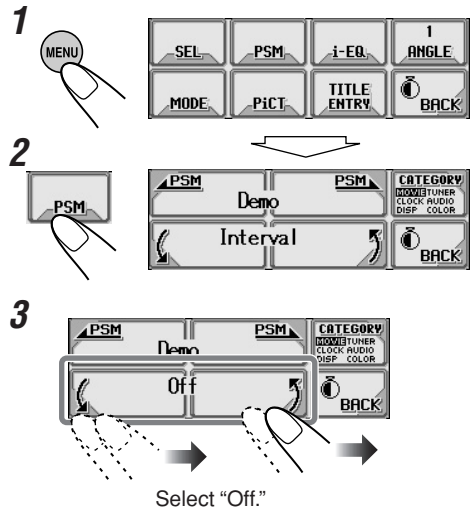
CAUTION on Volume Setting:

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

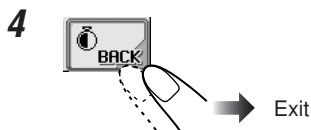
Canceling the display demonstration

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

To cancel the display demonstration, follow the procedure below:



To be continued...

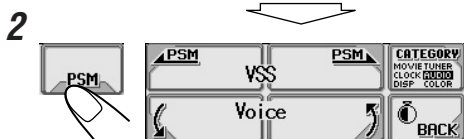


To activate the display demonstration, repeat the same procedure and select any one other than “Off” in step 3.

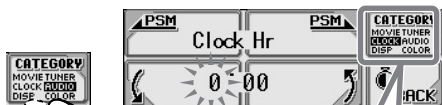
- For more details, see “To show the display demonstration” on page 35.

Setting the clock

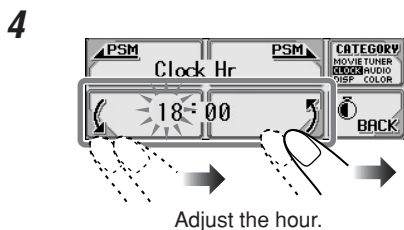
You can also set the clock system to 24 hours or 12 hours.



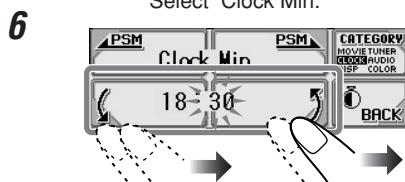
3 The last selected item appears.



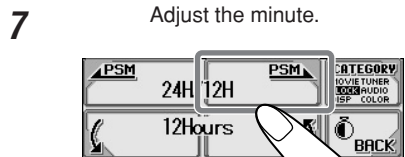
Select “CLOCK.”
Now “Clock Hr” setting appears.



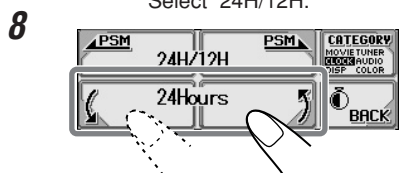
Select “Clock Min.”



Adjust the minute.



Select “24H/12H.”



Select “24Hours” or “12Hours.”

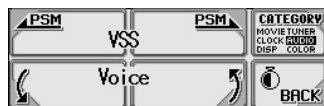


To check the current clock time when the unit is turned off...



To change the voice support system

You can select either “Beep” or “Voice” for the voice support system (VSS).



Furthermore, if you select “Voice,” you can select the language—English, German, or French.

To change them, see page 37.

Radio Operations

Listening to the radio

1 Select the Tuner

You can also change the source by...

Then just wait.

Select "TUNER."

2 Select the band (FM/AM)

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

3 Start searching for a station

"Auto Search" begins.
When a station is received, searching stops.

To stop searching, press the same icon.

To tune in to a station manually

In step 3 above...

Activate "Manual Search."

Select station frequencies.

Main touch panels used in this section

Tuner Operation screen

Tuner Mode Menu

Appears only for FM.

Main Menu

Preset Station List**1

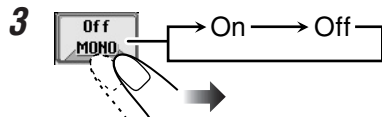
Appears only for FM.

- To return to the previous screen, press "BACK" (if shown).

- Press to change the FM band (1→2→3→...).
- Hold to change the FM band (3→2→1→...).

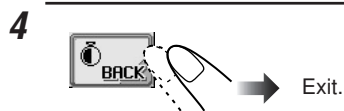
**1 The lists show either the station frequency or PS name (the first 8 characters, see page 11).

When an FM stereo broadcast is hard to receive:



On: Reception improves, but stereo effect will be lost.

Off: Normally select this.

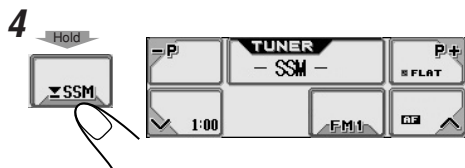
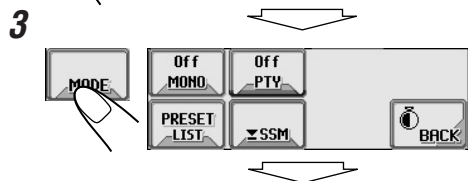
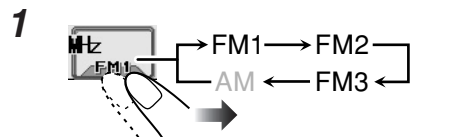


Storing stations in memory

You can preset 6 stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

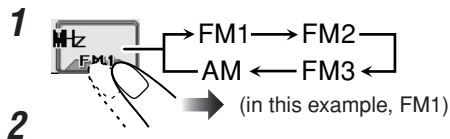
• This is only for FM bands.



Local FM stations with the strongest signals are searched and stored automatically in the selected FM band.

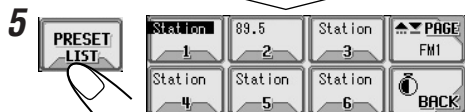
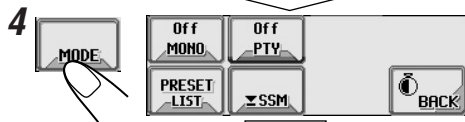
Manual presetting

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



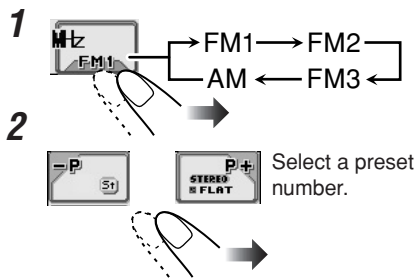
(in this example, of 92.5 MHz)

• Holding **P+** or **-P** on the Tuner Operation screen can also display the Preset Station List (see step 5 below).



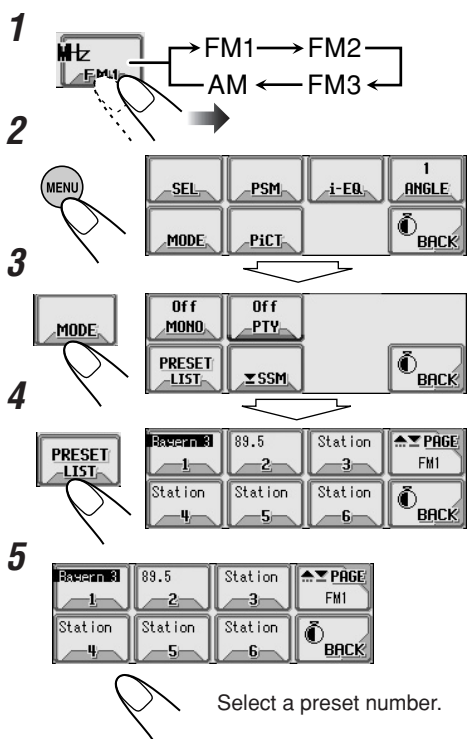
Select "1" in this example.

Tuning in to a preset station

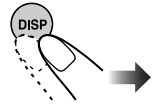


To select a preset station using the Preset Station List

- Holding **P+** or **-P** on the Tuner Operation screen can also display the Preset Station List.



Changing the display pattern



Tuner Operation screen

Station name (PS) for FM RDS stations

Station name (PS) for FM RDS stations

Preset number if any

Lights while receiving an FM stereo broadcast

PTY code (see page 17)

Clock time is enlarged.

Audio Level Meter* (see page 36)

Graphic screen*
(Appears only after you have download a file, see page 31)

Goes back to the Tuner Operation screen.

* These screens will be temporarily canceled when you operate the unit.

FM RDS Operations



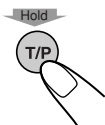
Searching for your favorite programme

You can tune in to a station broadcasting your favorite programme by searching for a PTY code (see page 17).

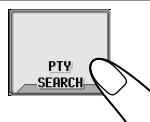
- You can store your 6 favorite programme types in the Preset PTY list.

1 Show the “PTY SEARCH/PTY MEMORY” screen

While listening to an FM station...



2 Select “PTY SEARCH”



Preset PTY Code List appears (see below).

3 Select a PTY code



Press to go to the next list; hold to go back to the previous list.



PTY Search starts.

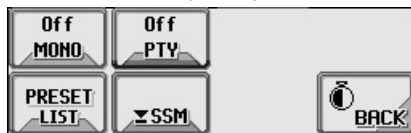
- If there is a station broadcasting a programme of the same PTY code as you selected, that station is tuned in.

Main touch panels used in this section

Main Menu



Tuner Mode Menu (for FM)



- To return to the previous screen, press “BACK” (if shown).

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.

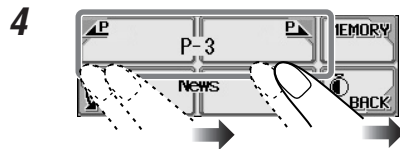
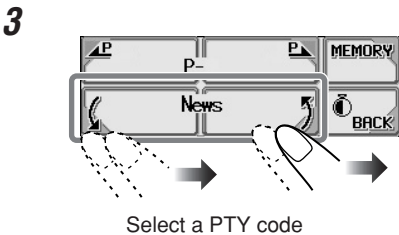
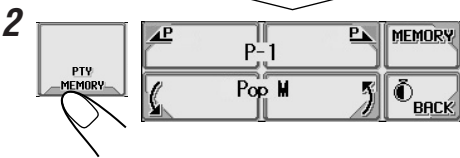
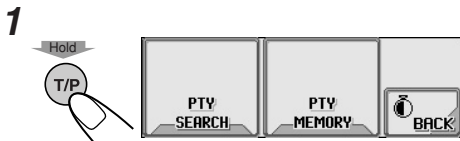
By receiving the RDS data, this unit can do the following:

- Programme Type (PTY) Search
- Standby Reception of Traffic Announcement (TA) or your favorite programme (PTY)
- Programme Search
- Tracing the same programme automatically—Network-Tracking Reception

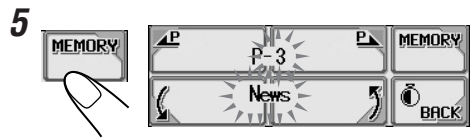
To store your favorite programme types in the Preset PTY Code List

When shipped from the factory, the following 6 programme types have been stored in the Preset PTY List.

1 Pop M	2 Rock M	3 Easy M
4 Classics	5 Affairs	6 Varied

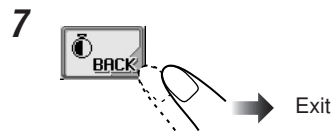


Select a preset number.



Selected PTY code is stored in the selected preset number.

6 Repeat Steps 3 to 5 to store other PTY codes into other preset numbers.



Using the Standby Reception

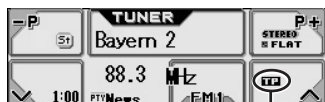
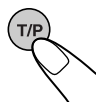
You can use two types of Standby Reception—TA Standby Reception and PTY Standby Reception.

Using TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from any source other than AM.

- If a station starts broadcasting a traffic announcement, “Traffic News” appears on the display, and this unit temporarily tunes in to the station. The volume changes to the preset TA volume level (see page 37).

To activate TA Standby Reception:



TP indicator
(either lights up or flashes)

- If the TP indicator lights up, TA Standby Reception is activated.
- If the TP indicator flashes, TA Standby Reception is not yet activated. (This occurs when you are listening to an FM station without the RDS signals required for TA Standby Reception).
To activate TA Standby Reception, tune in to another station providing these signals. When you tune in to such a station, the TP indicator stops flashing and remains lit. Now TA Standby Reception is activated.

To deactivate the TA Standby Reception:



The TP indicator goes off.

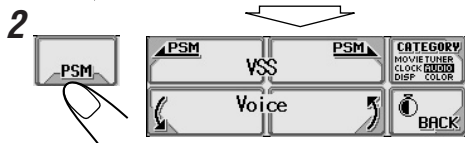
Using PTY Standby Reception

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

To select your favorite PTY code for PTY Standby Reception

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

- When shipped from factory, PTY Standby Reception has been set to work for searching for “News” programmes.



The last selected item appears.



Select “TUNER.”
Now “PTY Strby” setting appears.



Select a PTY code (see page 17).

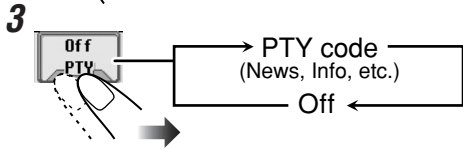
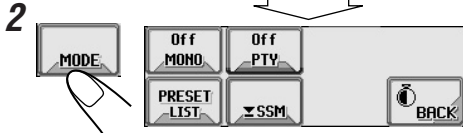


Exit

To activate PTY Standby Reception

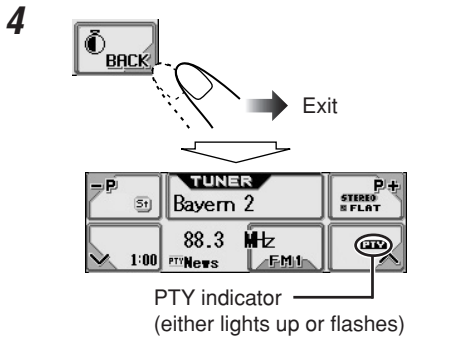
- After activating PTY Standby Reception, you can change the source without canceling PTY Standby Reception (except to AM).

1 While listening to an FM station....



PTY code: Activates PTY Standby Reception for the selected PTY code.

Off: Cancels the Reception.



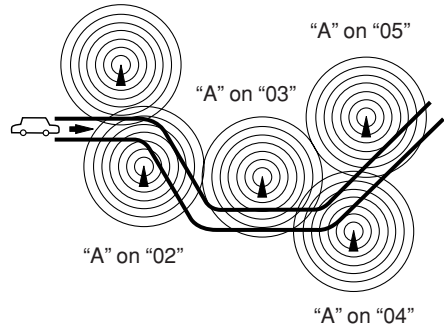
- If the PTY indicator lights up, PTY Standby Reception is activated.
- If the PTY indicator flashes, PTY Standby Reception is not yet activated. To activate PTY Standby Reception, tune in to another station providing these signals. When you tune in to such a station, the PTY indicator stops flashing and remains lit. Now PTY Standby Reception is activated.

Tracking the same programme— Network-Tracking Reception

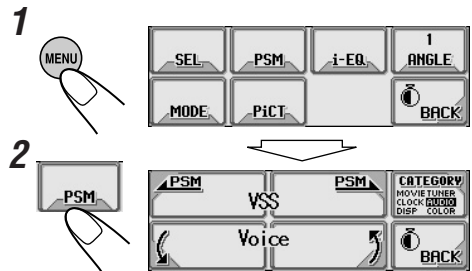
When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to **another FM RDS station of the same network**, possibly broadcasting the same programme with stronger signals.

- When shipped from the factory, Network-Tracking Reception is activated with “AF (see the next page)” selected.

Programme “A” on Frequency “01”

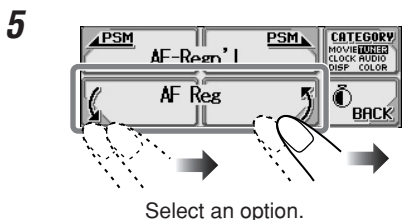
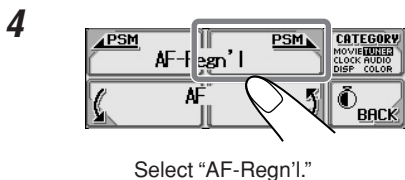
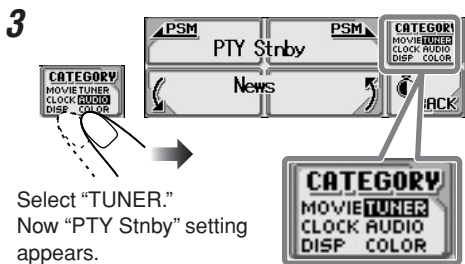


To change the Network-Tracking Reception setting, follow the procedure below:



The last selected item appears.

To be continued...



AF: The unit switches to another station (the programme may differ from the one currently received.)

- The AF indicator lights up.

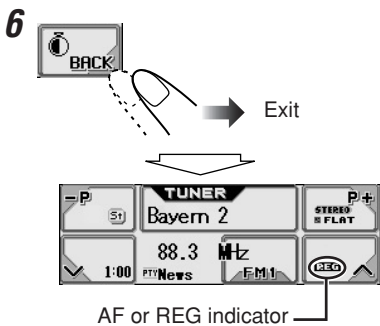
AF Reg: The unit switches to another station broadcasting the same programme.

- The REG indicator lights up.

Off*: Cancels the Reception.

- Neither the AF indicator nor the REG indicator lights up.

* Displayed only when "DAB AF" is set to "Off." See page 57.



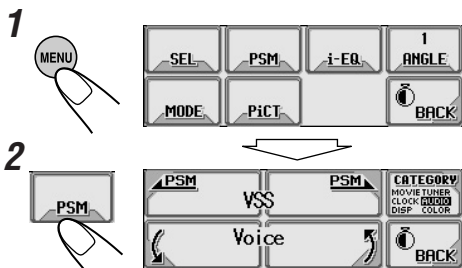
Using Programme Search

When you select a preset station, the station of the frequency stored is tuned in.

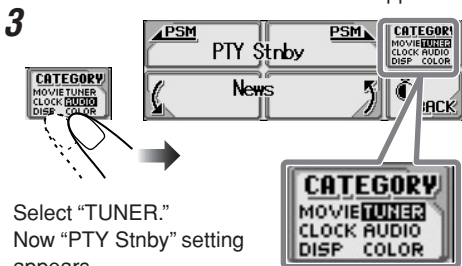
However, when the preset station is an RDS station, something different will happen with Programme Search activated.

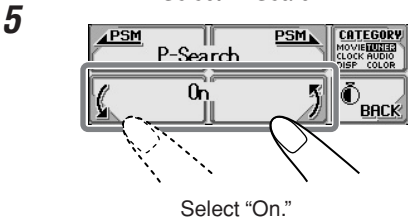
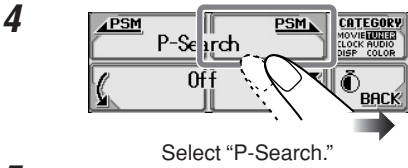
If the signals from that preset station are not sufficient enough, this unit, using the AF (Alternative Frequency) data, tunes in to another station (which may be broadcasting the same programme as the original preset station is broadcasting).

To activate Programme Search, follow the procedure below:



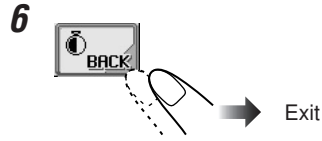
The last selected item appears.





On: Activates Programme Search.

Off: Cancels the Search.



To deactivate Programme Search, follow the procedure above and select "Off" in step 5.

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

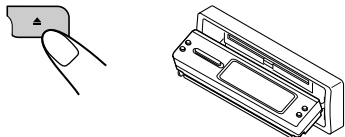
Folk M: Folk music

Document: Programmes dealing with factual matters, presented in an investigative style

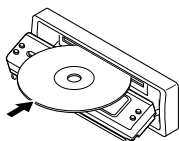
Basic Disc Operations

1 Open the control panel

The unit turns on, then...

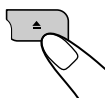


2 Insert a disc



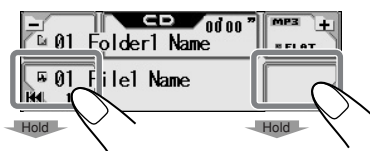
The unit draws the disc, the control panel closes then goes back to the previous position (see page 42), and playback starts automatically.

To stop play and eject the disc:

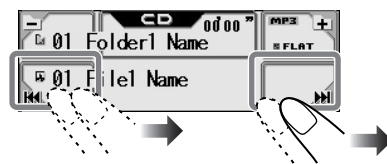


To return the control panel to its previous position, press it again.

To fast-forward or reverse the track:

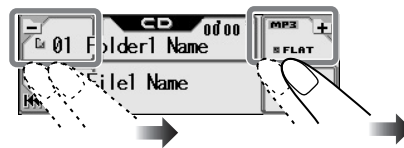


To go to the next or previous tracks:



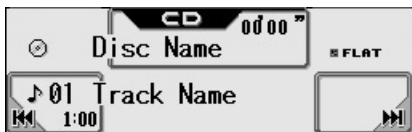
To go to the next or previous folders:

For MP3/WMA discs only:



Main touch panels used in this section

CD/CD Text Operation screen



MP3 Operation screen



WMA Operation screen

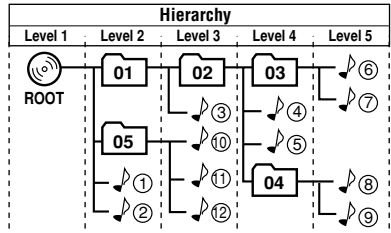


- When a track or folder whose number is greater than 99 is selected, the icon in front of the number (, , ,) goes off (to show its assigned 3-digit number).

About MP3 and WMA discs

MP3 and WMA (Windows Media® Audio) “tracks” (words “file” and “track” are used interchangeably) are recorded in “folders.” “Root” is similar to the root of a tree. Every track and folder can be linked to and be accessed from the root.

- When an MP3 or a WMA folder includes an image <jll> file edited by Image Converter (Wide)—supplied in the CD-ROM, you can show the image on the display while the tracks in the folder are played back. (See pages 35 and 61 for details.)



01 : Folder with its play order

: MP3/WMA track with its play order

- Display indications when inserting an audio CD or a CD Text:



Track name*1

Disc name*2

*1 Appear only for CD Texts. (“No Name” appears if no name is recorded).

*2 Appear for CD Texts and CDs if it has been assigned. (“No Name” appears if no name is recorded or assigned).

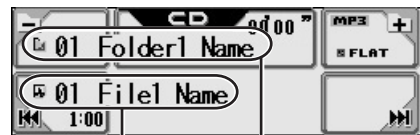
- Display indications when inserting an MP3 or a WMA disc:



Total track number

Total folder number

Disc type number



Current track*3

Current folder*3

CAUTIONS:

- Do not insert 8 cm discs (single CDs) into the loading slot. (Such discs cannot be ejected.)
- Do not insert any disc of unusual shape—like a heart or flower; otherwise, it will cause a malfunction.
- Do not expose discs to direct sunlight or any heat source or place them in a place subject to high temperature and humidity. Do not leave them in a car.

*3 If “Tag” is set to “On” (see page 36), ID3 tag information will appear on the display if the disc has an ID3 tag.

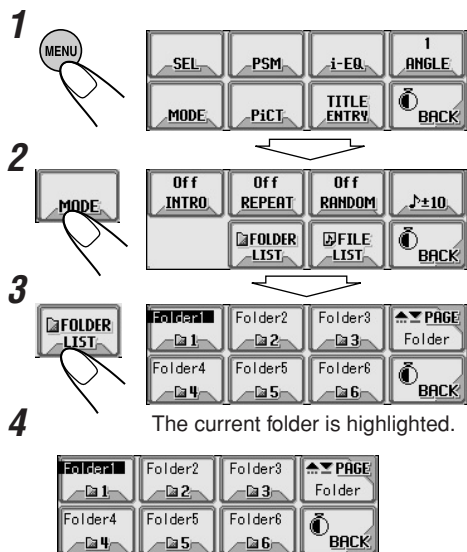
The album name/performer with (disc) indicator appears on the display instead of the folder name; while track title with (track) indicator appears instead of the track name.

Advanced Disc Operations

Locating a track or folder on a disc

To locate a folder on the screen (only for MP3/WMA discs)

- Holding **+** or **-** on the Disc Operation screen can also display the Folder List.



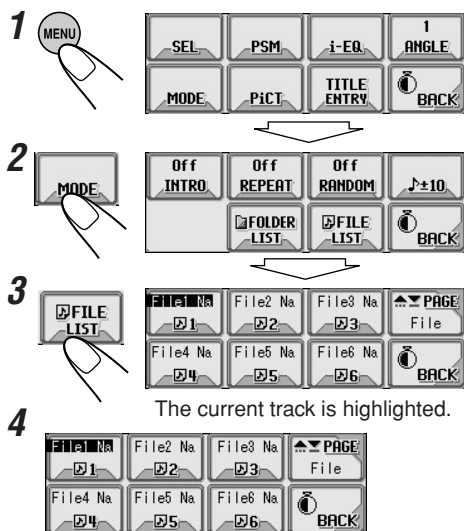
The current folder is highlighted.



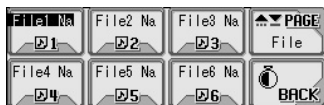
Select a folder number.

- If you select the currently selected folder (highlighted on the screen), the File List screen (see step 3 below), then you can select a track to start with.

To locate a track on the screen (only for MP3/WMA discs)



The current track is highlighted.



Select a track number.

Main touch panels used in this section

Disc Mode Menu screen



Appears only for MP3/WMA.

Skip 10 screen



- To return to the previous screen, press "BACK" (if shown).

Folder List screen (only for MP3/WMA)*1



File (Track) List screen (only for MP3/WMA)*1

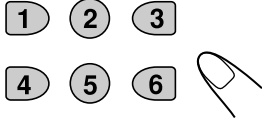


*1 The lists show the folder/file names actually recorded (the first 8 characters).

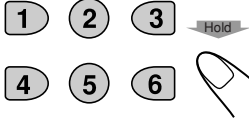
*2 Press to go to the next list; hold to go back to the previous list.

To locate a track (or folder) directly using the remote controller

- To select a track (or folder for MP3 and WMA discs) number from 1 – 6:



- To select a track (or folder for MP3 and WMA discs) number from 7 (1) – 12 (6):



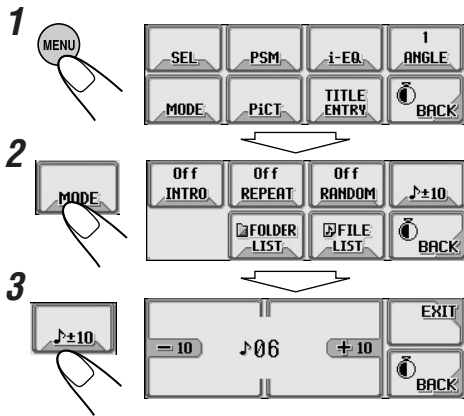
To directly select the folders using the number button(s), it is required that folders be assigned 2 digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To skip 10 tracks at a time

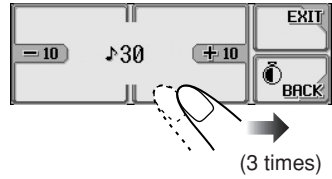
You can quickly reach a desired track on a disc including many tracks.

- For MP3 and WMA, you can select only a track within the current folder.

Ex. To select track number 32 while playing track number 6



4



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

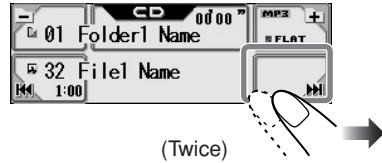
Then, each time you press the button, you can skip 10 tracks.

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

5

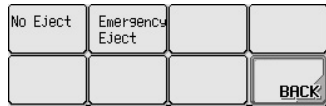
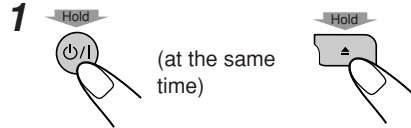


6

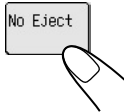


Prohibiting disc ejection

You can lock a disc in the loading slot.



2



“No Eject” flashes, and the disc cannot be ejected.

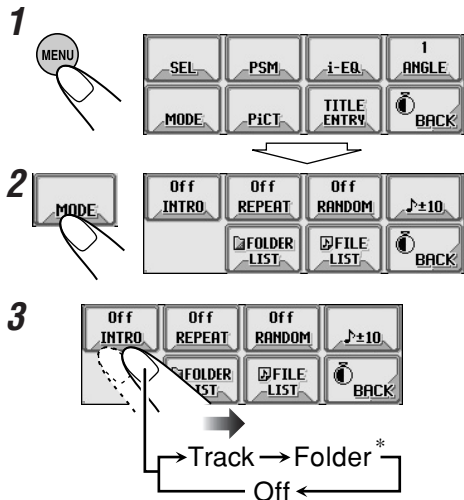
To cancel the prohibition, repeat the same procedure (press “Eject OK” in step 2). “Eject OK” flashes.

Selecting playback modes

You can use only one of the following playback modes at a time.

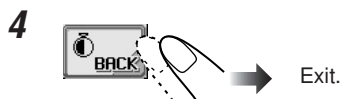
To play back only intros (Intro Scan)

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



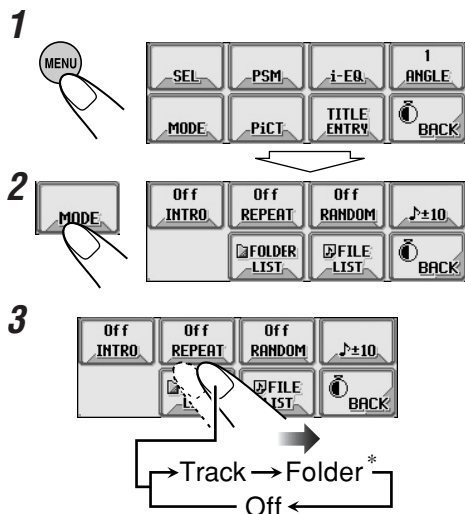
Mode	Plays the beginnings of
Track :	All tracks of the disc. • While playing, INT lights up.
Folder* :	First tracks of all folders. • While playing, F INT lights up.
Off :	Cancels Intro Play.

* "Folder" can be selected for MP3 and WMA discs only.



To play back tracks repeatedly (Repeat Play)

You can repeat playback.



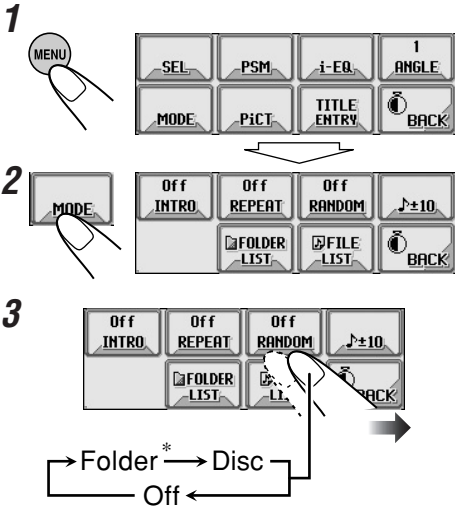
Mode	Plays repeatedly
Track :	Current track. • While playing, RPT lights up.
Folder* :	All tracks of the current folder. • While playing, F RPT lights up.
Off :	Cancels Repeat Play.

* "Folder" can be selected for MP3 and WMA discs only.



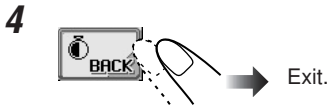
To play back tracks at random (Random Play)

You can play back tracks at random.



Mode	Plays randomly
Folder* :	All tracks of the current folder, then moves to the next folder and so on. <ul style="list-style-type: none"> While playing, END lights up.
Disc :	All tracks on the disc. <ul style="list-style-type: none"> While playing, END lights up.
Off :	Cancels Random Play.

* “Folder” can be selected for MP3 and WMA discs only.



Changing the display pattern



Disc Operation screen



Clock time is enlarged.



Audio Level Meter (see page 36)



Graphic screen
(Appears only after you have download a file, see page 31)

Goes back to the Disc Operation screen.

Sound Adjustments

Setting the basic sound selection menu—SEL

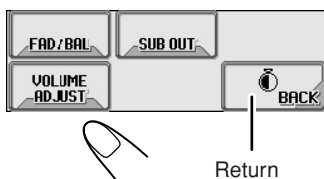
1 Show the Main Menu



2 Show the basic sound selection menu



3 Select a setting item



4 Adjust the item

To adjust fader and balance:



To select the cutoff frequency and adjust the subwoofer output level:

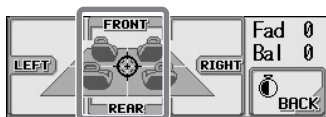


To adjust the input level of each source:



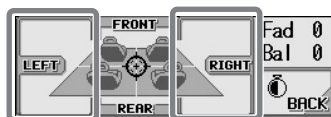
To adjust fader and balance—FAD/BAL:

Adjust fader—speaker output balance between the front and rear speakers.



F6 (front only)
to
R6 (rear only)

Adjust the balance—speaker output balance between the left and right speakers.



L6 (left only)
to
R6 (right only)

These adjustments cannot affect the Voice Support System (VSS: see page 37) output. VSS sound always comes out of all speakers connected.

To adjust subwoofer output—SUB OUT:

Select an appropriate cutoff frequency level according to the subwoofer connected.



- | | |
|--------------|--|
| Low: | Frequencies higher than 55 Hz are cut off to the subwoofer. |
| Mid: | Frequencies higher than 85 Hz are cut off to the subwoofer. |
| High: | Frequencies higher than 115 Hz are cut off to the subwoofer. |

Adjust the subwoofer output level.

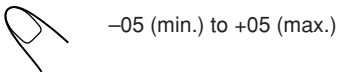


To adjust the input level of each source—VOLUME ADJUST:

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 the volume level will automatically increase or decrease by adjusted level whenever you change the source.

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

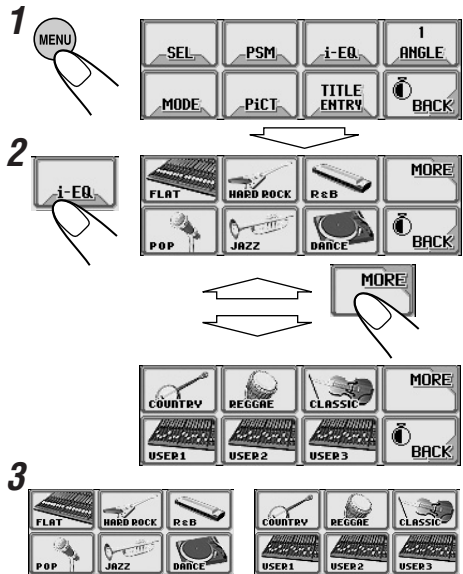


Selecting preset sound modes (i-EQ: intelligent equalizer)

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

Available sound modes:

- Flat (To cancel the sound mode. No sound mode is applied)
- Hard Rock
- R & B
- Pop
- Jazz
- Dance
- Country
- Reggae
- Classic
- User 1, User 2, User 3



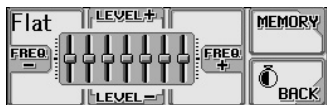
Select a sound mode.



Storing your own sound modes

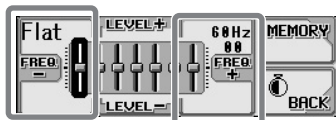
You can adjust the sound modes and store your own adjustments in memory.

- 1** Repeat steps 1 to 3 on page 25 to select a sound mode you want to adjust.



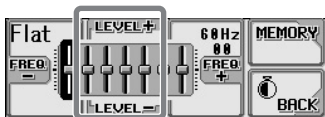
Ex. When you select "Flat"

2



Select the frequency band—60Hz, 150Hz, 400Hz, 1kHz, 2.4kHz, 6kHz, 12kHz.

3



Adjust the level of the selected band within the range of -05 to +05.

- 4** Repeat steps 2 and 3 to adjust the other frequency bands.

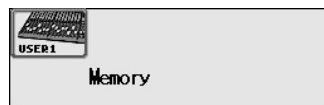
5



6



Select one of the user modes to store your adjustment (ex. when you selecting "USER1").



For details about the preset settings of each sound mode, see below.

Sound Mode	Preset equalizing values						
	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	+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

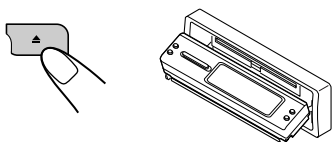
Basic procedure

Before starting the following procedure, prepare a CD-R including still images (pictures) and animations (movies).

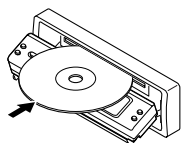
- With Image Converter (Wide) included in the supplied CD-ROM, you can create your own images and animations. (The supplied CD-ROM also includes sample images and animations.)

1 Open the control panel

The unit turns on, then...



2 Insert the prepared CD-R



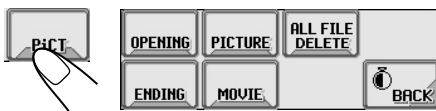
The unit draws the disc, the control panel closes, then goes back to the previous position (see page 42).

- If the disc includes playable audio files, playback starts.

3 Show the Main Menu



4 Show the Picture Menu Screen



5 Select the item



- To download/delete the file for “Opening” screen → **OPENING** (see page 28)
- To download/delete the file for “Ending” screen → **ENDING** (see page 28)
- To download/delete the files for graphic screen → **PICTURE/MOVIE** (see pages 28 and 29)
- To delete all memorized files → **ALL FILE DELETE** (see page 31)

Main touch panels used in this section

Picture Menu



- To return to the previous screen, press “BACK” (if shown).

*1 The lists show the folder/file names actually recorded (the first 8 characters).

*2 Press to go to the next list; hold to go back to the previous list.

Folder List screen*1



File List screen*1



IMPORTANT:

- Refer to Image Converter PDF files included in the “Manual” folder of the supplied CD-ROM.
 - Still images (pictures) should have <jll>, and animations (movies) should have <jla> as their extension code in their file names.
 - Before you download or delete the files, observe the following:
 - Do not download a file while driving.
 - Do not turn off the ignition key of the car while downloading or deleting a file.*
 - Do not detach the control panel while downloading or deleting a file.*
- * If you do it, the file download or deletion will not be done correctly.

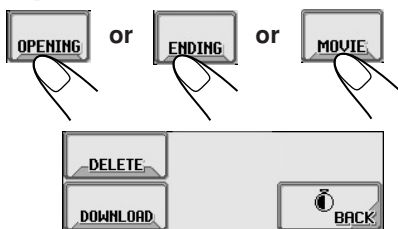
Downloading the file for “OPENING /ENDING/MOVIE”

- **OPENING:** Opening screen
To download/delete an animation (consisting of 30 frames maximum) to be shown after the unit is turned on.
- **ENDING:** Ending screen
To download/delete an animation (consisting of 30 frames maximum) to be shown before the unit is turned off.
- **MOVIE:** Graphic screen
To download/delete an animation (consisting of 90 frames maximum) to be shown while playing a source.

To download an animation

- It takes a long time to download an animation. For details, see page 61.
- To activate the downloaded animation, see page 31.

1 Repeat steps 1 to 4 on page 27, then in step 5...



2



Only the folders including the <jla> files are shown.

3



Select a folder. (once for the currently selected; twice for the others)

4



Select a file.



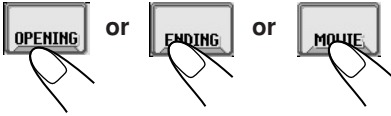
File name of the selected file appears.

5



To delete the stored animation:

1 Repeat steps 1 to 4 on page 27, then in step 5...



2



File name of the stored file appears.

3



Downloading the files for "PICTURE"

Download pictures (total of 30 still images: each one frame—see also page 61) which can be used for the graphic screen.

- To activate the downloaded animation, see page 31.

To download pictures

1 Repeat steps 1 to 4 on page 27, then in step 5...



2



Only the folders including the <jll> files are shown.

3



Select a folder.

(once for the currently selected; twice for the others)

4

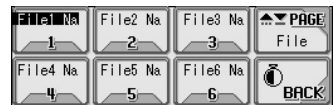


Select a file.



File name of the selected file appears.

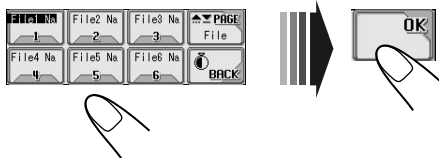
5



To be continued...

6 Download more files if you want.

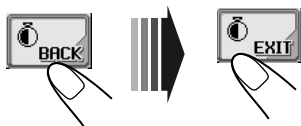
- To select a file from the same folder:



- To select a file from another folder:

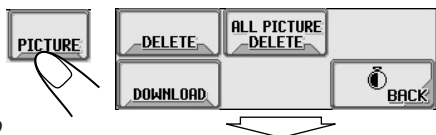


7 After downloading all the files you want...



To delete the stored pictures:

1 Repeat steps 1 to 4 on page 27, then in step 5...



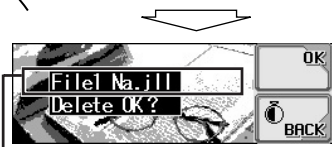
2



3



Select a file.



File name of the selected file appears.

4



5 Delete more files if you want.



Select a file.

6 After deleting all the files you do not want...



To delete all the stored pictures at a time:

1 Repeat steps 1 to 4 on page 27, then in step 5...



2

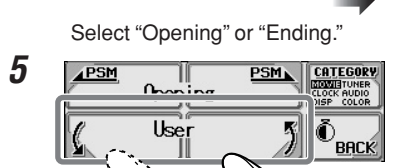
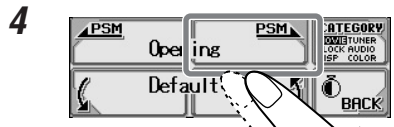
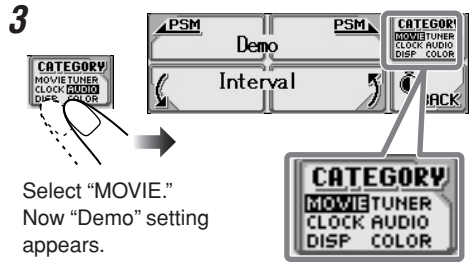
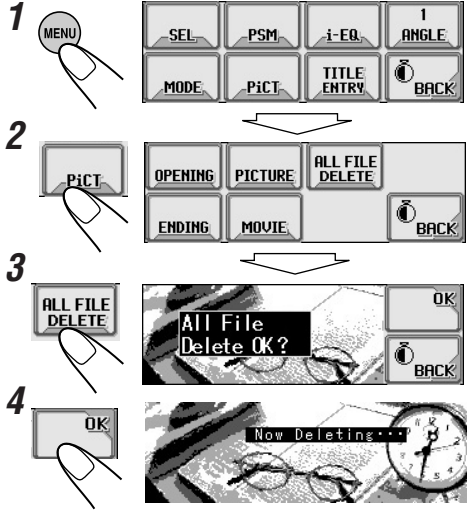


3



Deleting all files

You can easily delete all files—animations and pictures stored for “OPENING/ENDING/MOVIE/PICTURE.”



Select “Opening” or “Ending.”

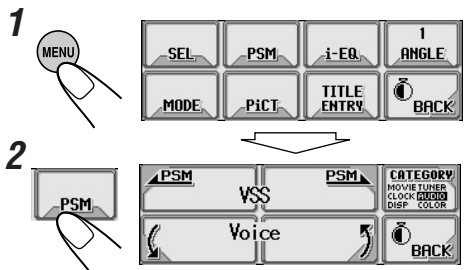
Select “User.”

Default: Factory-preset animation is used.

User: Your own animation is used.

Activating the downloaded files

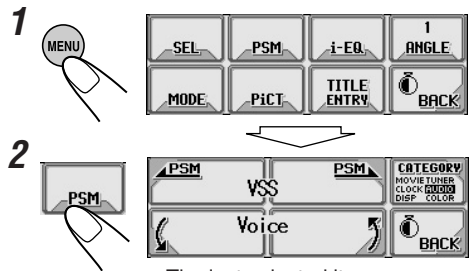
To activate the animations stored for opening and ending screens



The last selected item appears.

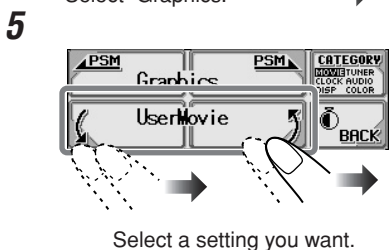
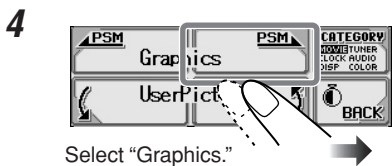
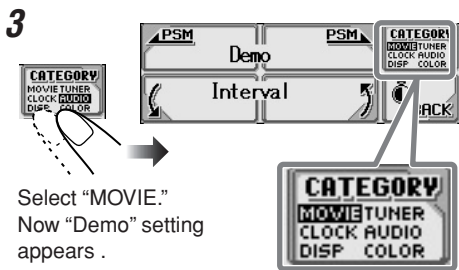


To activate the graphic screen using either picture or movie



The last selected item appears.

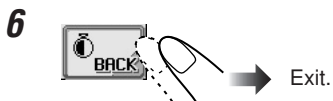
To be continued...



UserPict.: One of your still images stored in "PICTURE" is activated for your graphic screen. (To select an image, see the next column.)

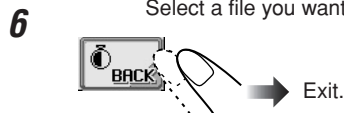
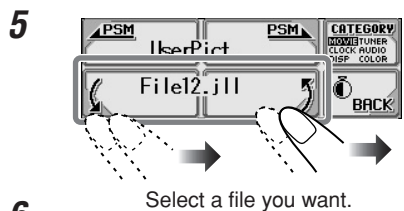
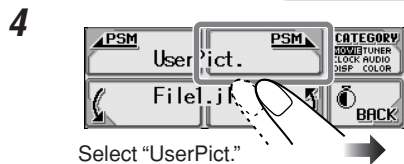
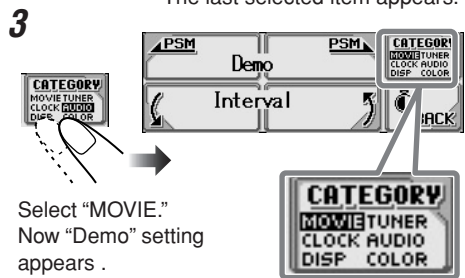
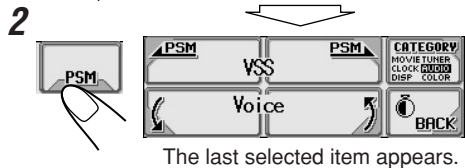
UserMovie: Your animation stored in "MOVIE" is activated for your graphic screen.

UserSlide: Your still images stored in "PICTURE" are activated and shown in sequence for your graphic screen.



To select a still image for "UserPict."

• If "UserPict." is not selected for "Graphics" you cannot select "UserPict." in step 4 below.



General Settings—PSM

Basic procedure

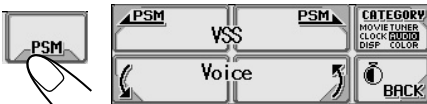
You can change the Preferred Setting Mode (PSM) items listed on the table that follows.

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

1 Show the Main Menu

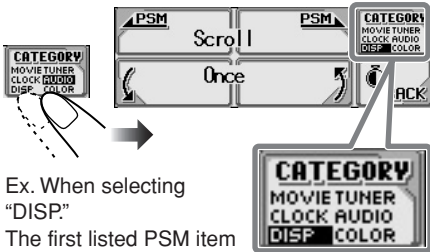


2 Show the PSM setting screen



The last selected item appears.

3 Select a PSM category

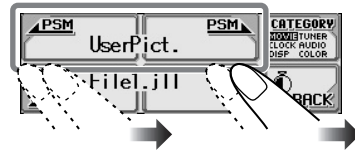


Ex. When selecting “DISP”

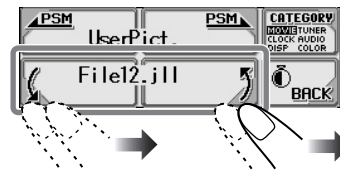
The first listed PSM item in the selected category appears.

Without selecting a PSM category, you can move to a different category by simply changing the PSM items (in step 4).

4 Select a PSM item



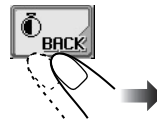
5 Change or adjust the setting





6 Change or adjust other PSM items

If necessary, repeat steps 3 to 5 to change other PSM item settings.

7 Exit



PSM items		Selectable settings		Initial	Pages
MOVIE	Demo Demonstration			Interval	7, 35
	Graphics Graphics			UserPict.	32
	KeyIn CFM Key-in confirmation	Off	On	On	35
	Opening * ¹ Opening screen	Default	User	Default	31
	Ending * ¹ Ending screen	Default	User	Default	31
	UserPict. * ² User picture	From the stored files		First stored	32
CLOCK	Clock Hr Clock hour	0 — 23 (1 — 12)		0 (0:00)	8
	Clock Min Clock minute	00 — 59		00(0:00)	8
	24H/12H Clock system	12Hours	24Hours	24Hours	8
	Auto Adj Auto clock adjustment	Off	On	On	35
DISP	Scroll Scroll mode			Once	36
	Dimmer Dimmer			Auto	38
	From- To * ³ Dimmer timer	Any hour — Any hour		18:00-7:00	38
	Contrast Contrast	1 — 10		5	36
	LCD Type Display type			Auto	36
	Font Type Font type	1	2	1	36
	Tag Tag display	Off	On	On	36
	Theme Level meter			Meter 1	36
Key Info Key Information	Off	On	On	36	
TUNER	PTY Stnby PTY Standby	29 programme types (see page 17)		News	14
	AF-Regn'l Alternative frequency/ regional reception			AF	16
	TA Volume Traffic announcement volume	00 — 50 * ⁵ (or 00 — 30)		20	37
	P-Search Programme search	Off	On	Off	17
	IF Filter Intermediate frequency filter	Wide	Auto	Auto	37
	DAB AF * ⁶ DAB Alternative frequency	Off	On	On	57
	Announce * ⁶ Announcement standby	9 announcement types		Travel	55

PSM items		Selectable settings		Initial	Pages
AUDIO	VSS Voice support system	Beep	Voice	Voice	37
	VSS Level VSS level	Off ↔ 1 ↔ 2 ↔ 3 ↔ 4		3	37
	Language Language			English	37
	Ext Input ^{*7} External Input	Changer	Line In	Changer	37
	Telephone Telephone mute			Off	37
	Amp Gain Amp gain control	Low PWR	High PWR	High PWR	37
COLOR	SOURCE Source	All sources		All Source	39
	USER DAY (USER NIGHT) User color	USER DAY	USER NIGHT	USER DAY	40
	R Red	00 — 11		USER DAY: 07 USER NIGHT:05	40
	G Green	00 — 11		USER DAY: 07 USER NIGHT:05	40
	B Blue	00 — 11		USER DAY: 07 USER NIGHT:05	40

*1 Displayed only after a downloadable file is stored in memory.

*2 Displayed only after a downloadable file is stored in memory and while selecting “UserPict.” for “Graphics.”

*3 Displayed only when “Dimmer” is set to “Time Set.”

*4 Displayed only when “DAB AF” is set to “Off.”

*5 Depending on the “Amp Gain” setting.

*6 Displayed only when the DAB tuner is connected.

*7 Displayed only when the source is not an external component.

To show the display demonstration

If no operation is done for about 20 seconds, display demonstration starts.

- **All Time:** Display demonstration (animation) appears.
- **ImageLink:** A still image included in an MP3/WMA folder appears while playing back the tracks in the folder (see page 19).
- **Interval:** Display demonstration (animation) and playback source indication appears alternately.
- **Off:** Cancels the demonstration.

To turn on and off the animation screens—KeyIn CFM

You can turn on and off the animation screens—opening, ending, source changing, and i-EQ selecting screens.

- **On:** An animation screens appear...
 - When you turn on or off the power,
 - When you change the sources, and
 - When you select an i-EQ.
- **Off:** Cancels the animation screens.

To adjust the clock automatically—Auto Adj

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.

- **On:** Activates auto clock adjustment.
- **Off:** Cancels the adjustment.

To select the scroll mode—Scroll

The entire text information is shown by scrolling if it cannot be shown at a time.

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

To adjust the display contrast level—Contrast

You can adjust the contrast to make the display clear and legible.

To select the display illumination pattern—LCD Type

You can select the display illumination patterns.

- **Auto:** Positive pattern will be selected during the day time*, while negative pattern will be used during the night time*.
- **Positive:** Positive (normal) pattern of the display.
- **Negative:** Negative pattern of the display (except still images, animations, and audio level meters).

* Depending on the “Dimmer” setting.

To select the font type used on the display—Font Type

You can select either of the two fonts (1 or 2).

To turn the tag display on or off—Tag

An MP3 and WMA track can contain track information called “Tag” where its album name, performer, track title, etc. are recorded.

- **On:** Shows the Tag display while playing MP3 or WMA tracks.
- **Off:** Cancels the Tag display. Only the folder name and track name appear.

For MP3 tracks only: There are two versions—ID3v1 (ID3 Tag version 1) and ID3v2 (ID3 Tag version 2). When both ID3v1 and ID3v2 are recorded, ID3v2 will be shown.

To select the audio level meter—Theme

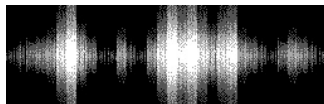
You can select the level meter.

- To show the level meter, press DISP repeatedly.

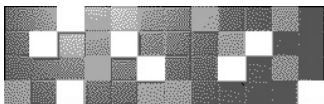
- **Meter 1:**



- **Meter 2:**



- **Meter 3:**



To show or delete the key icon boundary on the touch panel—Key Info

Key icons have their own boundaries on the touch panel to make the operations easy. These boundaries can be shown or deleted according to your preference.

- **On:** To show the key icon boundary.
- **Off:** To delete the key icon boundary.

Though “Off” is selected, the key icon boundary will be shown while you are operating the touch panel. About 5 seconds after the operation, it goes off.

To set the Traffic Announcement volume—TA Volume

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.

To change the FM tuner selectivity—IF Filter

In some areas, adjacent stations may interfere with each other. If this interference occurs, noise may be heard.

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

To change the voice support system—VSS

You can select either “Beep” or “Voice” for the voice support system (VSS).

- **Voice:** Guidance is announced in the language you have selected (see “To select the language for the VSS—Language” on the right column) when you operate the unit.
- **Beep:** A Beep sounds when you operate the unit.

To deactivate the VSS, select “Off” for “VSS Level” (see below).

To adjust the VSS level—VSS Level

You can adjust the volume level of the VSS sounds.

- By selecting “Off,” you can deactivate the VSS.

To select the language for the VSS—Language

You can select the language for the voice support system—English, German (Deutsch), or French (Français).

- The indications on the display will also be shown in the selected language.

To select the external component to use—Ext Input

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

- **Changer:** To use a JVC CD changer.
- **Line In:** To use any external component.

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. During telephone muting, disc play pauses.

- **Muting1:** Selects this if this setting can mute the sounds while using the cellular phone.
- **Muting2:** Selects this if this setting can mute the sounds while using the cellular phone.
- **Off:** Cancels the telephone muting.

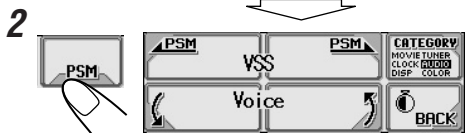
To select the amplifier gain control—Amp Gain

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

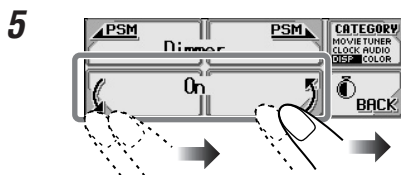
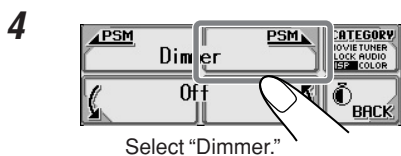
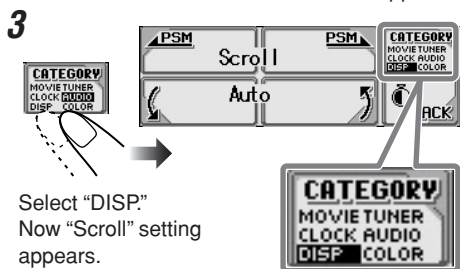
- **Low PWR:** You can adjust the volume level up to “Volume 30.”
- **High PWR:** You can adjust the volume level up to “Volume 50.”

Selecting the dimmer mode

You can dim the display at night automatically or as you set the timer.

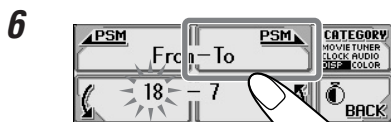


The last selected item appears.

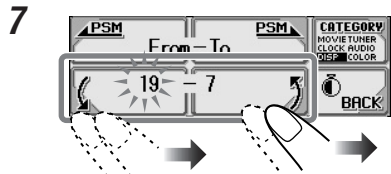


Select one of the following.

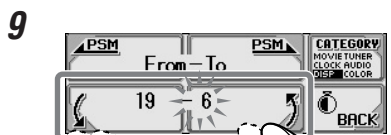
-
- Auto:** Activates Auto Dimmer.
 ➔ Go to step 10.
 • When you turn on the car head lights, the display dims.
-
- Off:** Cancels Auto Dimmer.
 ➔ Go to step 10.
-
- On:** Always dims the display.
 ➔ Go to step 10.
-
- Time Set:** Set the timer for dimmer.
 ➔ Go to step 6.
-



Select "From-To."



Set the dimmer start time.



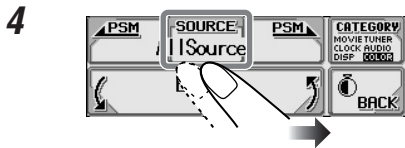
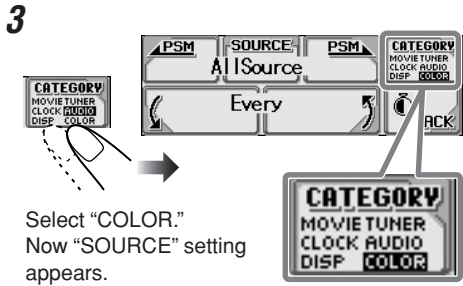
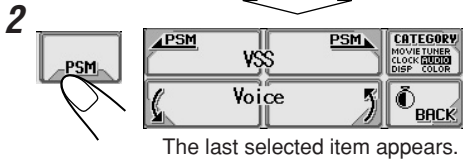
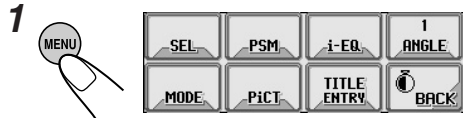
Set the dimmer end time.



Changing the display color

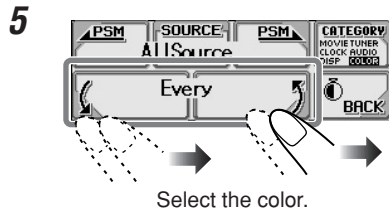
You can select your favorite color for each source (or for all sources).

Setting the desired color for the source



Select the source to which you apply the color.

- When you select "All Source," you can apply the same color to all sources.

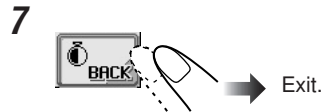


Every*¹ ⇄ Aqua ⇄ Sky ⇄ Sea ⇄
Leaves ⇄ Grass ⇄ Apple ⇄ Rose ⇄
Amber ⇄ Honey ⇄ Violet ⇄ Grape ⇄
Pale ⇄ User*² ⇄
(back to the beginning)

*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—"USER DAY" and "USER NIGHT" will be applied. (See page 40.)

6 Repeat steps 4 and 5 to select the color for each source (except when selecting "All Source" in step 4).

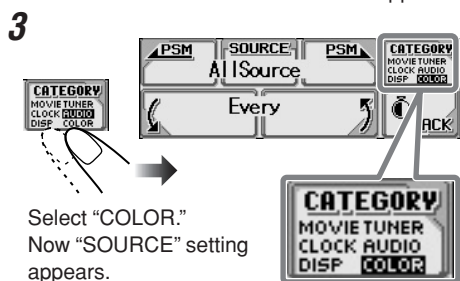
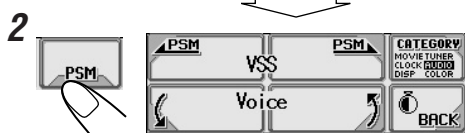
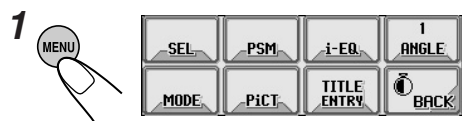


Creating your own color—User

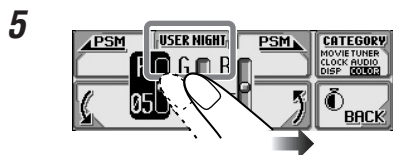
You can create your own colors—“USER DAY” and “USER NIGHT,” and select them for the display color.

- **USER DAY:** Can be used as your user color during the day time*.
- **USER NIGHT:** Can be used as your user color during the night time*.

* Depending on the “Dimmer” setting

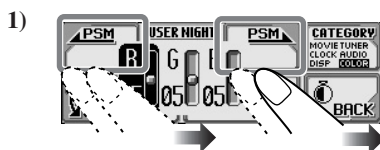


Select user color—either “USER DAY” or “USER NIGHT” will be selected.

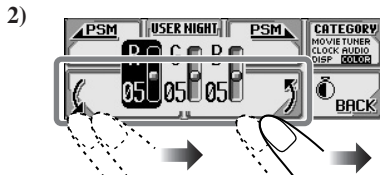


Select either “USER DAY” or “USER NIGHT” if necessary.

6 Adjust the selected user color.



Select (highlight) one of three primary colors—R/G/B.



Adjust the color

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

7 Repeat steps 5 and 6 to adjust the other user color—“USER DAY” or “USER NIGHT.”

8 After adjustment is over...



Other Main Functions

Assigning titles to the sources

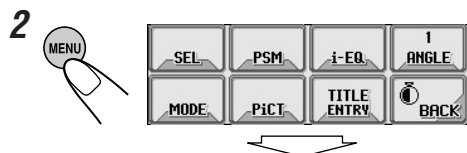
You can assign titles 40 CDs (both in this unit and in the CD changer) and the external component.

Source	Maximum number
CDs:	32 characters
External component:	8 characters

- You cannot assign a title to CD Text, MP3, and WMA discs.
- For available characters, see page 62.

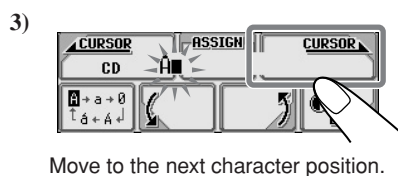
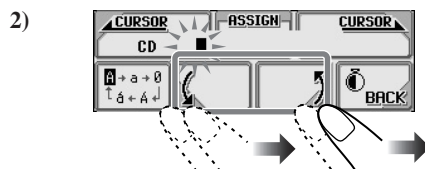
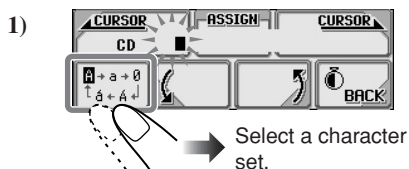
1 Prepare the source.

- For a CD in this unit: Insert a CD.
- For CDs in the CD changer: Select “CD-CH,” then select a disc number.



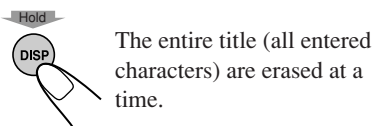
Ex. When you have selected “CD” and assign a title to the loaded disc

4 Assign a title.



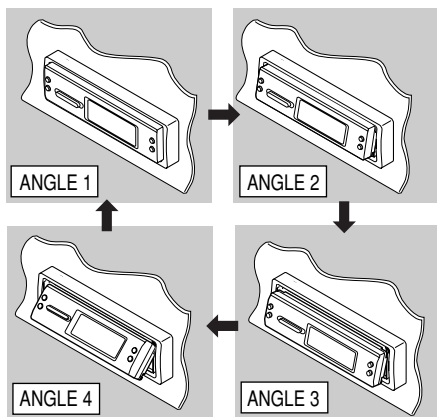
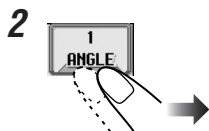
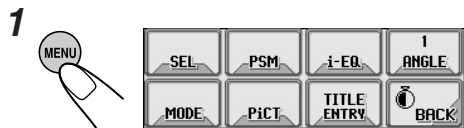
4) Repeat steps 1) to 3) until you finish entering the title.

To erase the characters....

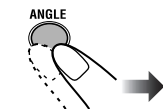


Changing the control panel angle

You can change the angle of the control panel.



You can use the ANGLE button on the remote controller for changing the panel angle.



On the remote controller

CAUTION:

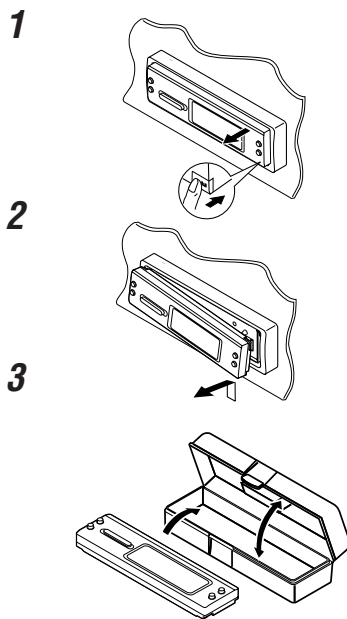
NEVER insert your finger in between the control panel and the unit, as it may get caught or hurt.

Detaching the control panel

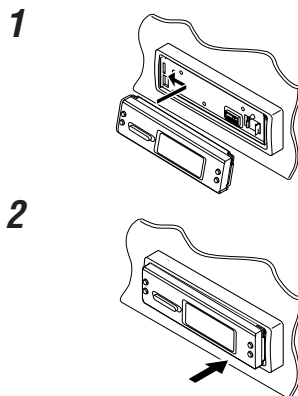
- When detaching and attaching the control panel, be careful not to damage the connectors.

Detaching the control panel

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



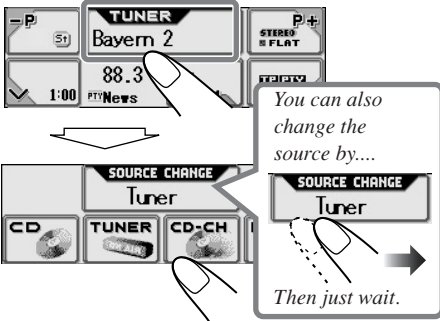
Attaching the control panel



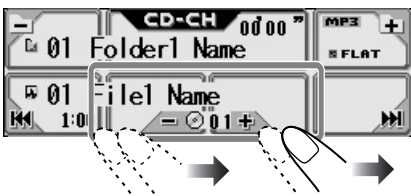
Basic CD Changer Operations

With JVC MP3-compatible CD changer connected, you can play back your original CD-Rs and CD-RWs recorded either in audio CD format or in MP3 format.

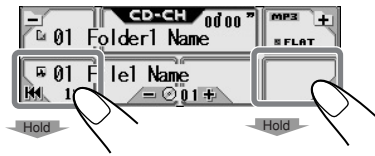
1 Select CD changer



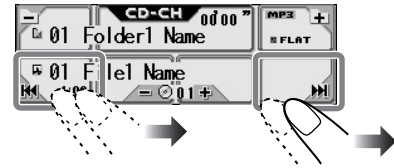
2 Select a disc



To fast-forward or reverse the track:

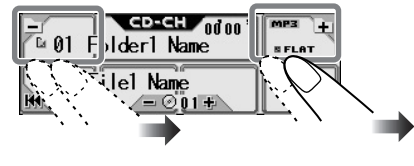


To go to the next or previous tracks:



To go to the next or previous folders:

For MP3 discs only:



Main touch panels used in this section

CD Changer Operation screen: CD/CD Text



CD Changer Operation screen: MP3



- When a track or folder whose number is greater than 99 is selected, the icon in front of the number ([] , [] , [] , []) goes off (to show its assigned 3-digit number).

- Display indications when the current disc is an audio CD or a CD Text:



Track name*1

Disc name*2

*1 Appear only for CD Texts. ("No Name" appears if no name is recorded).



*2 Appear for CD Texts and CDs if it has been assigned. ("No Name" appears if no name is recorded or assigned).

- Display indications when the current disc is an MP3 disc:



Current track*3

Current folder*3

*3 If "Tag" is set to "On" (see page 36), ID3 tag information will appear on the display if the disc has an ID3 tag. The album name/performer with  (disc) indicator appears on the display instead of the folder name; while track title with  (track) indicator appears instead of the track name.

It is recommended to use the JVC MP3-compatible CD changer with your unit.

- You can also connect the 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:

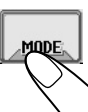
- Refer also to the Instructions supplied with your CD changer.
- You cannot control and play any WMA disc in the CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "No Disc" will appear. If this happens, remove the magazine and set the discs correctly.
- If no magazine is loaded in the CD changer, "No Magazine" appears. If this happens, insert the magazine in the CD changer.


Advanced CD Changer Operations

Locating a disc


To locate a disc

- 1 

SEL	PSM	i-EQ	1 ANGLE
MODE	PICT	TITLE ENTRY	BACK
- 2 

Off INTRO	Off REPEAT	Off RANDOM	±10
DISC LIST	FOLDER LIST	FILE LIST	BACK
- 3 

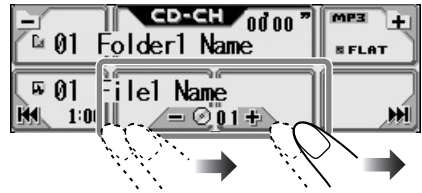
Disc 01 1	Disc 02 2	Disc 03 3	PAGE Disc
Disc 04 4	Disc 05 5	Disc 06 6	BACK

The current disc is highlighted.
- 4 

Disc 01 1	Disc 02 2	Disc 03 3	PAGE Disc
Disc 04 4	Disc 05 5	Disc 06 6	BACK

Select a disc.

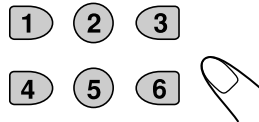
You can also select a disc...



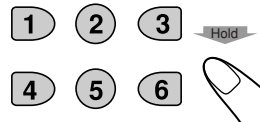
- If you hold the icon, the Disc List will appear on the display.

When using the remote controller:

- To select a disc number 1 – 6:



- To select a disc number from 7 (1) – 12 (6):



Main touch panels used in this section

CD Changer Mode screen

Works only when JVC MP3 compatible CD changer (CH-X1500) is connected.



Appears only for MP3 discs.

- To return to the previous screen, press "BACK" (if shown)

Disc List screen*1



*1 The lists show the disc names actually recorded or assigned (the first 8 characters, see page 41).

*2 Press to go to the next list; hold to go back to the previous list.

Main touch panels used in this section

Folder List screen (only for MP3)*1



File (Track) List screen (only for MP3)*1



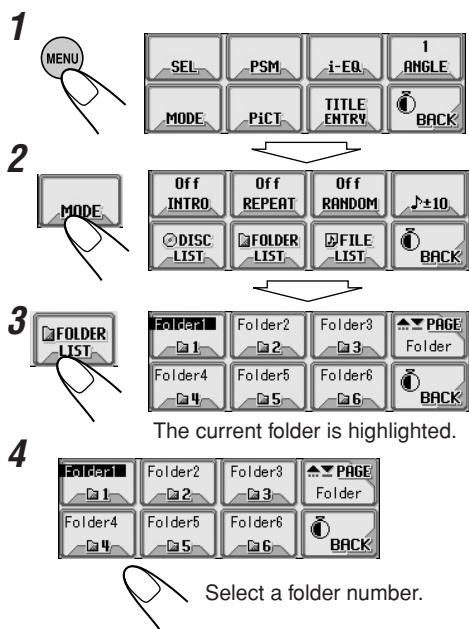
- To return to the previous screen, press "BACK" (if shown)

*1 The lists show the folder/file names actually recorded (the first 8 characters).

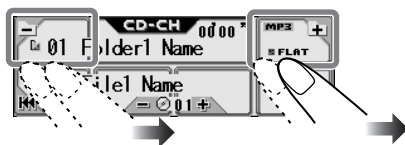
*2 Press to go to the next list; hold to go back to the previous list.

Locating a track or folder on a disc

To locate a folder on the screen (only for MP3 discs)

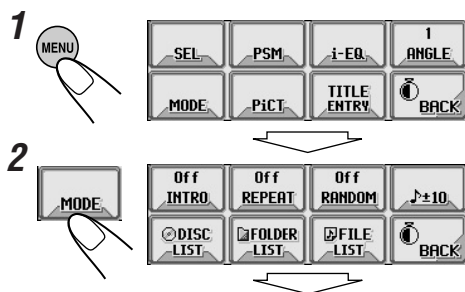


You can also select a folder....



- If you hold the icon, the Folder List will appear on the display.

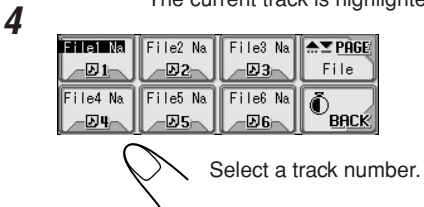
To locate a track on the screen (only for MP3 discs)



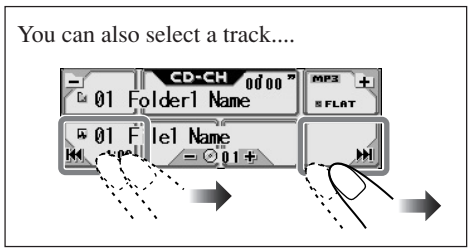
- If you select the currently selected folder (highlighted on the screen), the File List screen (see step 3 of the left column on page 47), then you can select a track to start with.



The current track is highlighted.



Select a track number.

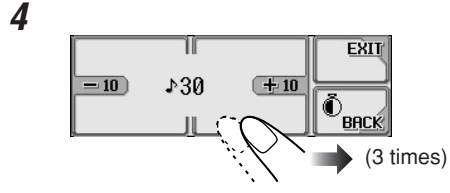
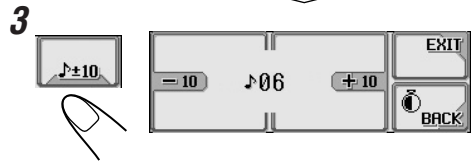
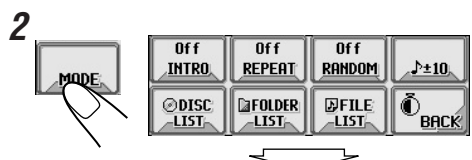
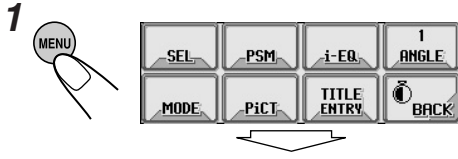


To skip 10 tracks at a time

You can quickly reach a desired track on a disc including many tracks.

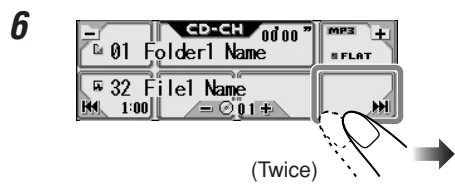
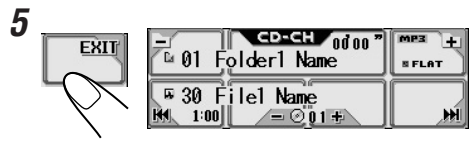
- This operation is only possible when using a JVC MP3 compatible CD changer (CH-X1500).
- For MP3 discs, you can select only a track within the current folder.

Ex. To select track number 32 while playing track number 6



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

Then, each time you press the button, you can skip 10 tracks.

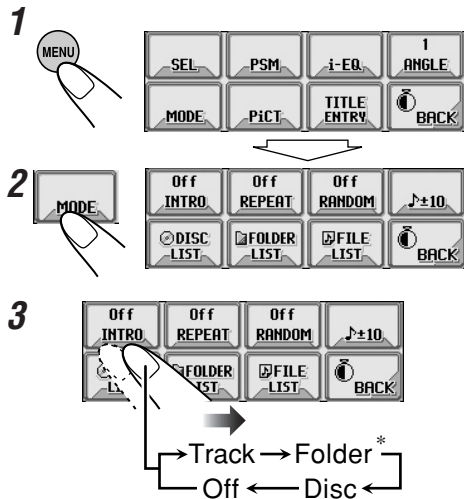


Selecting playback modes

You can use only one of the following playback modes at a time.

To play back only intros (Intro Scan)

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



Mode	Plays the beginnings of
------	-------------------------

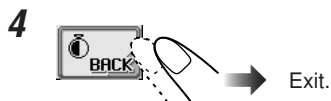
Track :	All tracks of the current disc. • While playing, INT lights up.
----------------	---

Folder* :	First tracks of all folders of the current disc. • While playing, INT lights up.
------------------	--

Disc :	First tracks of the all inserted discs. • While playing, INT lights up.
---------------	---

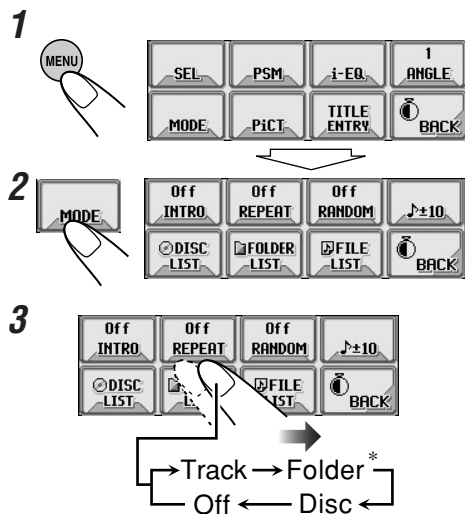
Off :	Cancels Intro Play.
--------------	---------------------

* "Folder" can be selected for MP3 discs only.



To play back tracks repeatedly (Repeat Play)

You can repeat playback.



Mode	Plays repeatedly
------	------------------

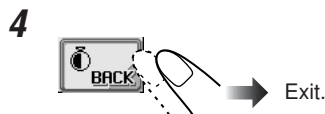
Track :	Current track. • While playing, RPT lights up.
----------------	--

Folder* :	All tracks of the current folder. • While playing, RPT lights up.
------------------	---

Disc :	All tracks of the current disc. • While playing, RPT lights up.
---------------	---

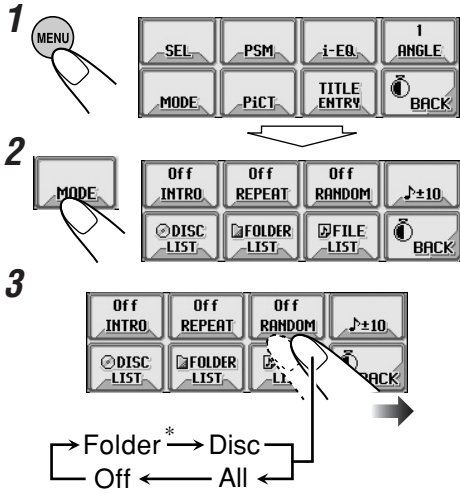
Off :	Cancels Repeat Play.
--------------	----------------------

* "Folder" can be selected for MP3 discs only.



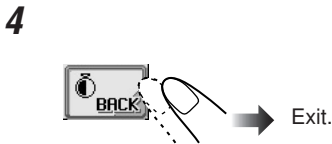
To play back tracks at random (Random Play)

You can play back tracks at random.



Mode	Plays randomly
Folder* :	All tracks of the current folder, then moves to the next folder and so on. <ul style="list-style-type: none"> While playing, Folder END lights up.
Disc :	All tracks of the current disc. <ul style="list-style-type: none"> While playing, Disc END lights up on.
All :	All tracks of all discs inserted in the magazine. <ul style="list-style-type: none"> While playing, ALL END lights up on.
Off :	Cancels Random Play.

* "Folder" can be selected for MP3 discs only.



Changing the display pattern



CD Changer Operation screen



Clock time is enlarged.



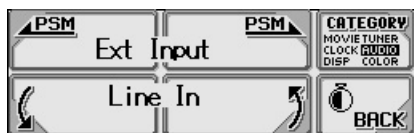
(Appears only after you have download a file, see page 31)

Goes back to the CD Changer Operation screen.

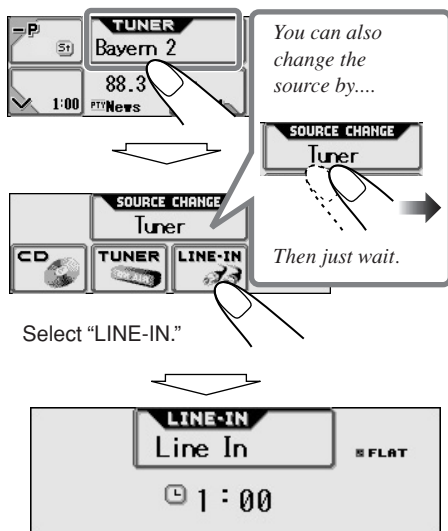
External Component Operations

You can connect the external component to the CD changer jack on the rear using the special adapter for the component (not supplied). See the Installation/Connection Manual (separate volume).

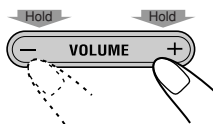
- Before operating the external component, select the “Ext Input” setting correctly (see page 37).



1 Select the source



2 Adjust the volume

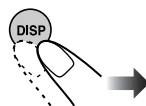


3 Adjust the sound



- For details, see pages 24 to 26.

To change the display indication

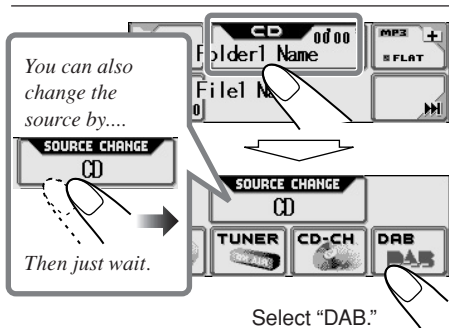


DAB Tuner Operations



Listening to the DAB tuner

1 Select the DAB Tuner



2 Select the band



This receiver has three DAB bands (DAB1, DAB2, DAB3). You can use any one of them to listen to a DAB service.

3 Start searching for an ensemble



"Auto Search" begins.
When a station is received, searching stops.

To stop searching, press the same icon.

4 Select a service (either primary or secondary) to listen to



Main touch panels used in this section

DAB Tuner Operation screen



DAB Tuner Mode Menu



Preset Service List*1



- To return to the previous screen, press "BACK" (if shown).

*1 The lists show the real service names (the first 8 characters).

*2 Press to change the DAB band (1→2→3→...); hold to change the DAB band (3→2→1→...).

What is DAB system?

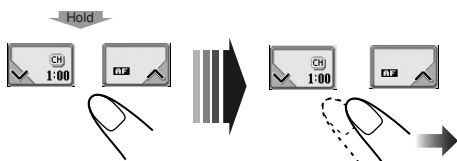
DAB can deliver CD quality sound without any annoying interference and signal distortion. Furthermore, it can carry text, pictures, and data. In contrast to FM broadcast, where each programme is transmitted on its own frequency, DAB combines several programmes (called “services”) to form one “ensemble.” In addition, each “service”—called “primary service”—can also be divided into its components (called “secondary service”). A typical ensemble has 6 or more programmes (services) broadcast at the same time.

It is recommended to use DAB (Digital Audio Broadcasting) tuner KT-DB1500 or KT-DB1000 with this unit. If you have another DAB tuner, consult your JVC IN-CAR ENTERTAINMENT dealer.

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

To tune in to an ensemble manually

In step 3 on page 51...



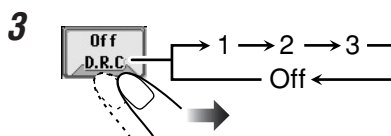
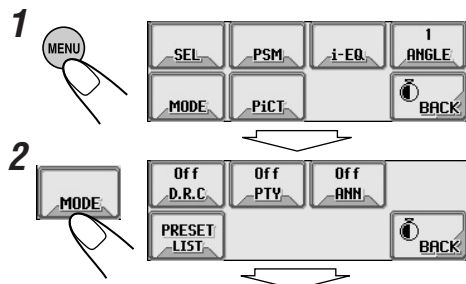
Activate “Manual Search.”

Select ensemble frequencies.

When surrounding sounds are noisy

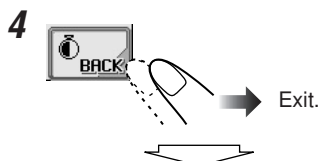
While driving, surrounding sounds will interfere with your listening. Especially the low level sounds will be hard to listen. If this happens, you can reinforce the low level sounds to improve your listening to.

- For this purpose, some service provides Dynamic Range Control signals together with their regular programme signals.



1/2/3: The higher the number is, the stronger the reinforcement becomes.

Off: Cancel the effect.



DRC indicator appears

- The DRC indicator will be highlighted (**DRC**) only when the unit received DRC signals from the tuned service. If it is not highlighted, this function does not work.

To search for your favorite service

You can search for any one of the PTY codes (either Dynamic or Static PTY).

- Operations are exactly the same as explained on pages 12 and 13 for FM RDS stations.
- You cannot store PTY codes separately for the DAB tuner and for the FM tuner.

To store your favorite programme (service) types, see page 13.

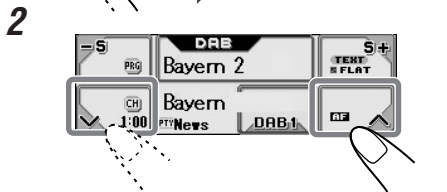
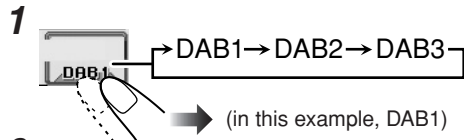
To search for your favorite programme (service) type, see page 12.

- Search will be performed on the DAB tuner only.

Storing DAB services in memory

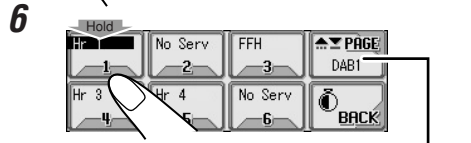
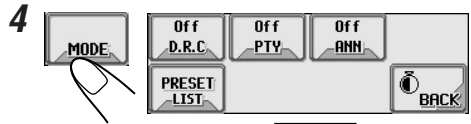
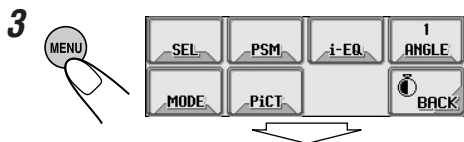
You can preset 6 DAB services (primary services) for each band.

Ex. Storing an ensemble (primary service) into the preset number 1 of the DAB1 band.



Select an ensemble (primary service).

- Holding **S+** or **=S** on the DAB Tuner Operation screen can also display the Preset Service List (see step 5 that follows).

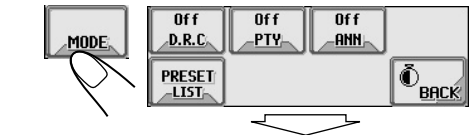
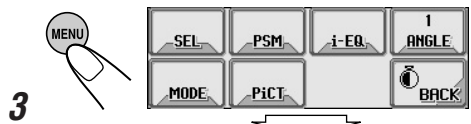
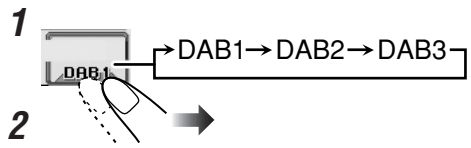


Select "1" in this example. Move to the other DAB bands.*

- * Do not change the DAB band using this icon while presetting a service; otherwise, preset may fail.

Tuning in to a preset DAB service

- Holding **S+** or **=S** on the DAB Tuner Operation screen can also display the Preset Service List.



To be continued...



Select a preset number.



Change a service if necessary.

Using the Standby Reception

You can use three types of Standby Reception.

- Road Traffic News Standby Reception
- Announcement Standby Reception
- PTY Standby Reception

Using Road Traffic News Standby Reception

Road Traffic News Standby Reception allows the unit to switch temporarily to Road Traffic News (or Traffic Announcement) from any source except AM.

- If a Road Traffic News (or Traffic Announcement) starts broadcasting, “Traffic News” appears and the unit tunes into the service (or FM RDS station) broadcasting Road Traffic News (or Traffic Announcement). The volume changes to the preset TA volume level (see page 37).

To activate Road Traffic News Standby Reception (and TA Standby Reception):

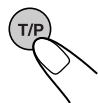


TP indicator
(either lights up or flashes)

- If the TP indicator lights up, Road Traffic News Standby Reception (or TA Standby Reception) is activated.
 - When a service which is **supporting** Road Traffic News is received. This unit now stands by for the Road Traffic News signal reception—Road Traffic News Standby Reception.
 - When a service which is **not supporting** Road Traffic News signal is received. This unit now stands by for the TA signal reception—TA Standby Reception (see page 14).

- If the TP indicator flashes, Road Traffic News Standby Reception is not yet activated. To activate Road Traffic News Standby Reception, tune in to another DAB service supporting these signals. When you tune in to such a service, the TP indicator stops flashing and remains lit. Now Road Traffic News Standby Reception is activated.

To deactivate the Road Traffic News Standby Reception (and TA Standby Reception):



TP indicator goes off.

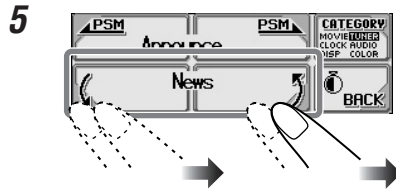
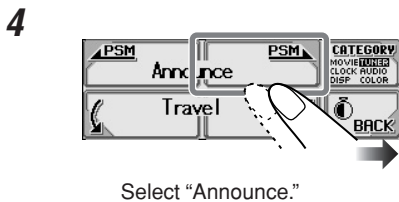
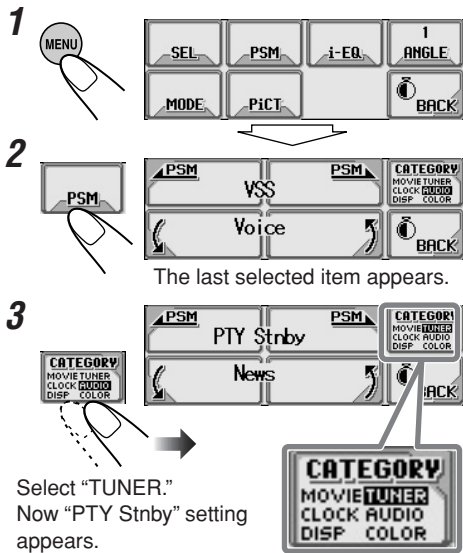
Using Announcement Standby Reception

Announcement Standby Reception allows the unit to switch temporarily to your favorite service (Announcement type) from any source except AM.

To select your favorite announcement type for Announcement Standby Reception

You can select your favorite announcement type for Announcement Standby Reception.

- When shipped from factory, Announcement Standby Reception has been set to work for searching for “Travel” services.



Select an announcement type.

Travel: Programmes about travel destinations, package tours, and travel ideas and opportunities

Warning: Warnings about earthquakes, tsunamis, etc.

News: News

Weather: Weather information

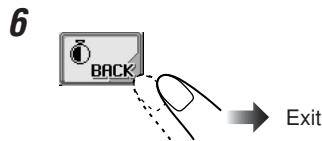
Event: Information about events, concerts, etc.

Special: Special programmes expanding on current news or affairs

Rad Inf: Radio information

Sports: Sport events

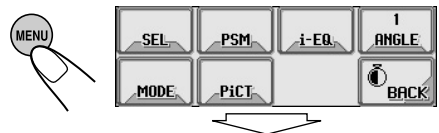
Finance: Reports on commerce, trading, the stock market, etc.



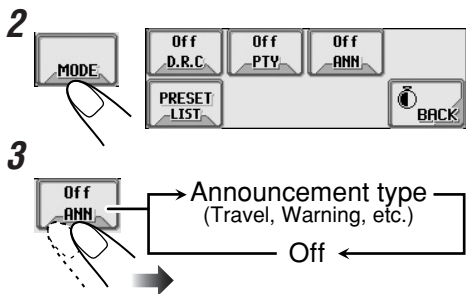
To activate Announcement Standby Reception

- After activating Announcement Standby Reception, you can change the source without canceling Announcement Standby Reception (except to AM).

1 While listening to a DAB service...



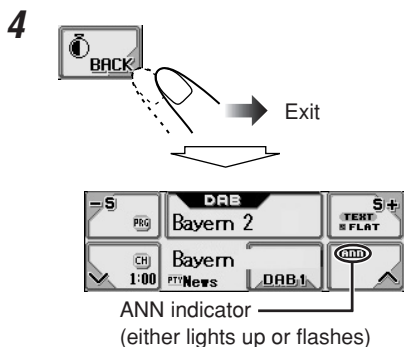
To be continued...



Announcement type:

Activates Announcement Standby Reception for the selected announcement type.

Off: Cancels the Reception.



- If the **ANN indicator lights up**, Announcement Standby Reception is activated.
- If the **ANN indicator flashes**, Announcement Standby Reception is not yet activated. To activate Announcement Standby Reception, tune in to another service providing these signals. When you tune in to such a station, the ANN indicator stops flashing and remains lit. Now Announcement Standby Reception is activated.

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

- Operations are exactly the same as explained on pages 14 and 15 for FM RDS stations.
- You cannot use PTY Standby Reception separately for the DAB tuner and for the FM tuner.

To select your favorite PTY code for PTY Standby Reception, see page 14.

To activate PTY Standby Reception, see page 15.

- You can activate and deactivate PTY Standby Reception when the source is either “FM” or “DAB.”

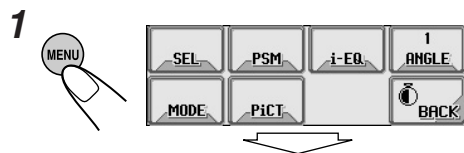
Tracing the same programme—

Alternative Reception

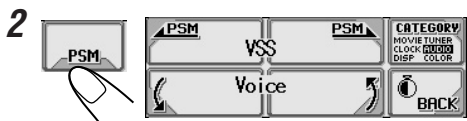
You can keep listening to the same programme.

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

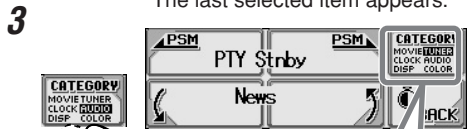
To change the Alternative Reception setting, follow the procedure below:



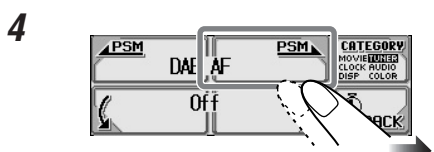
Changing the display pattern



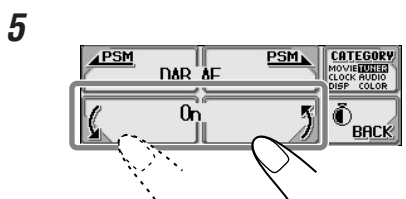
The last selected item appears.



Select "TUNER."
Now "PTY Stnby" setting appears.



Select "DAB AF."



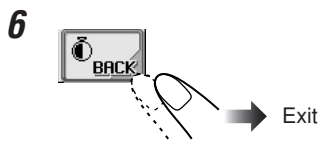
Change the setting.

On: Traces the programme among DAB services and FM RDS stations

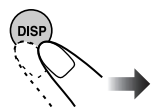
- The AF indicator lights up on the display.

Off: Cancels the Reception.

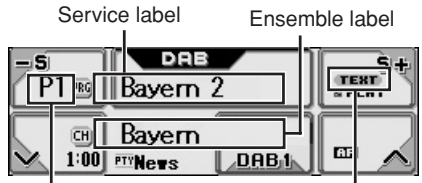
- The AF indicator goes off.



Exit



DAB Tuner Operation screen



Service label Ensemble label

Preset number Lights when receiving a service providing Dynamic Label Segment (DLS—DAB radio text).



DLS is shown if any.



Clock time is enlarged.



Audio Level Meter (see page 36)



Graphic screen
(Appears only after you have download a file, see page 31)

Goes back to the DAB Tuner Operation screen.

Maintenance

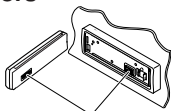
How to clean the touch panel

When removing stains or dust on the surface, turn off the power, then wipe with dry soft cloth.

- Be careful not to scratch the surface when wiping it.
- Do not use the following materials to clean the touch panel:
 - Wet cloth
 - Volatile substance such as benzine and thinner
 - Acid detergent, alkaline detergent, and detergent composed of organic substance
- When using chemically processed duster, read its precautions carefully.

How to clean the connectors

Frequent detachment will deteriorate the connectors. 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

Moisture condensation

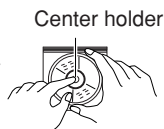
Moisture may condense on the lens inside the CD player in the following cases:

- 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.

How to handle discs

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



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

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.

- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.



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.



Do not use the following discs:

Warped disc



Sticker



Sticker residue

Disc



Stick-on label

More about This Receiver

Basic Operations

General

- The clock in the “BACK” icon on the screen works as the time countdown indicator. If no operation is done for a certain period of time, the current screen goes off, and the source operation screen resumes.

Selecting the source

- If a disc is not loaded, you cannot select “CD” for the playback source.
- Without connecting the CD changer, you cannot select “CD-CH (CD changer)” for the playback source.
- To select the external component for the playback source, set the “Ext Input” setting correctly (page 37).
- If a DAB tuner is not connected, you cannot select “DAB” for the playback source.

Turning off the power

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

Tuner Operations

Storing stations in memory

- When SSM is carried out for a band...
 - All stations previously stored for the band are erased and stations are stored newly.
 - Received stations are preset in the number buttons No.1 (lowest frequency) to No.6 (highest frequency). When SSM is over, the station stored in number button 1 will be automatically tuned in.
- When storing a station manually, 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.

FM RDS operations

- Network-Tracking Reception requires two types of RDS signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly. Without receiving these data correctly, Network-Tracking Reception will not operate.
- If Alternative Reception (for DAB: see page 56) is activated, Network-Tracking Reception is also activated (“AF”) automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception.
- TA Standby Reception and PTY Standby Reception will be temporarily canceled while listening to an AM station.

Basic Disc Operations

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in both audio and MP3/WMA formats.
- The unit cannot read or play an MP3 track without the extension code <mp3>, and a WMA track without the extension code <wma>.
- When a disc has been already loaded, selecting “CD” for the playback source starts disc play.

Inserting a disc

- When a disc is inserted upside down, the disc automatically ejects.
- If you keep the control panel open for about 1 minute, the control panel returns to its previous position.

Playing a disc

- While playing an audio CD: If a title has been assigned to the audio CD (see page 41), it will be shown on the display.
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds. (The elapsed playing time also changes intermittently on the display.)

When playing a CD-R or CD-RW

- 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 causes:
 - 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.
- Do not use following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.

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

- Stickers or labels may shrink and warp a disc.
 - Stickers or labels may peel off so discs cannot be ejected.
 - Print on discs may get sticky.
- Read instructions or cautions about labels and printable discs carefully.

Changing the source

- If you change the source, playback also stops (without ejecting the disc). Next time you select “CD” for the playback source, disc play starts from where it has been stopped previously.

ImageLink

- ImageLink will not work in the following cases:
 - If no <jll> file is included in an MP3/WMA folder.
 - If Intro Scan is activated.
 - If the source is changed to another from “CD.”
 - If more than one <jll> file are included in a folder, a file with the youngest file number is used for the graphic screen.

Ejecting a disc

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

Advanced Disc Operations

Locating a track or on a disc

- You can skip 10 tracks at a time only if there are more than 10 tracks in a disc or in a folder.

Sound Adjustment

General

- If you are using a two-speaker system, set the fader level to “00.”
- Subwoofer out setting takes effect only when a subwoofer is connected.
- You cannot make the input level—Volume Adjustment—of the FM stations. If the source is FM, “Fix” will appear when you try to adjust it.

Storing your own sound modes

- If you do not want to store your current adjustment, but only to apply the adjustment to the current playback source, press “BACK” repeatedly to go back to the operation screen of the current source. Adjustment you made remains effective until you select a sound mode.

Graphic Displays

Downloading (or deleting) files

- You can download a file only while selecting “CD” for the playback source; on the other hand, you can delete a file while selecting any source.
- If you have already downloaded an animation for “OPENING,” “ENDING,” or “MOVIE,” downloading a new animation deletes the previously stored animation.
- It takes a long time to download an animation.
 - About 3 to 4 seconds for a still image (one frame).
 - About 1 to 2 minutes for an animation of 30 frames.
 - About 4 minutes for an animation of 90 frames.
- If a disc inserted does not include any <jll> and <jla> files, beeps sound when you try to operate the downloading procedure.
- If you try to store a 31st image for picture screen, “Picture Full” appears and you cannot start downloading. Delete unwanted files before downloading.
- If the total frame number of an animation downloaded exceeds the following number, the frames exceeding that numbers are ignored.
 - For “OPENING” and “ENDING”: 30
 - For “MOVIE”: 90

General Settings—PSM

- “Auto Dimmer” may not work correctly on some vehicles, particularly on those having a control dial for dimming. In this case, change the “**Dimmer**” setting to any one other than “Auto.”
- If “**LCD Type**” is set to “Auto,” the display pattern will change to the “Negative” or “Positive” pattern depending on the “**Dimmer**” setting
- If you change the “**Amp Gain**” setting from “High PWR” to “Low PWR” while the volume level is set higher than “Volume 30,” the unit automatically changes the volume level to “Volume 30.”

Other Main Functions

Assigning titles to the sources

- When you try to assign a title to a 41st disc, “Name Full” appears and you cannot enter the text entry mode. Delete unwanted titles before assignment.
- When the CD changer is connected, you can assign titles to CDs in the CD changer. These titles can also be shown on the display if you insert the CDs in this unit.

DAB Tuner Operations

- PTY Standby Reception works for the DAB tuner only using a Dynamic PTY, but not a Static PTY.
- TA Standby Reception for FM RDS station and Road Traffic News Standby Reception for DAB cannot be set separately. The T/P button always work for the both Standby Reception modes when the DAB tuner is connected.

Characters shown on the display

In addition to the Roman alphabets (A – Z, a – z), the following characters will be used to show the various information on the display.

- You can also use the following characters to assign titles (see page 41).

Upper case

À	Á	Â	Ã	Ä
Å	Æ	Ç	Ĉ	Ć
Ç	É	È	Ê	Ë
Ĝ	Í	Ì	Î	Ī
Ñ	Ó	Ò	Ô	Õ
Ö	Ø	Ř	Ŕ	Š
Ś	Ş	Ú	Û	Ů
Ü	Ý	Ž	Ẓ	Ẕ
Ɔ	Ɔ	Ɔ	Ɔ	Ɔ
ı	ı	ı	ı	ı

Lower case

á	à	â	ã	ä
å	æ	ç	ĉ	ć
ç	é	è	ê	ë
ê	ĝ	í	î	ĭ
ï	ñ	ň	ń	ó
ò	ô	õ	ō	ø
ő	ř	ŕ	š	ś
ş	ú	û	ű	ü
ú	w	ý	ÿ	ẓ
ẓ	ÿ	Ɔ	Ɔ	Ɔ
ı	ı	ı	ı	ı

Numbers and symbols

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

About mistracking:

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

It is recommend to stop disc play while driving on such rough roads.

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

General

- **Main menu screen or other screens suddenly go off.**
 - ⇒ There is a time limit for some operations. In this case, if no operation is done for a certain period, the current source operation screen resumes.
- **Sound is sometimes interrupted.**
 - ⇒ You are driving on rough roads. Stop playback while driving on rough roads.
 - ⇒ Disc is scratched.
- **Sound cannot be heard from the speakers.**
 - ⇒ Connections are incorrect.
- **“Connect Error” appears on the display.**
 - ⇒ The control panel is not attached correctly. Remove the control panel, wipe the connector (see page 58), then attach it again.
- **“Reset P00” — “Reset P44” appears on the display.**
 - ⇒ Something is blocking the control panel movement. Press the reset button (see page 2). If it does not work, check the installation (ex. whether screws longer than specified are used or not).

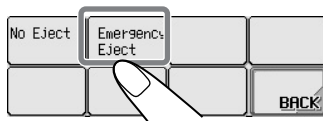
FM/AM broadcast

- **SSM automatic presetting does not work.**
 - ⇒ Signals are too weak. Store stations manually.
- **Static noise is generated while listening to the radio.**
 - ⇒ The antenna is not connected firmly.

Disc playback—CD/CD-R/CD-RW

- **Disc cannot be played back.**
 - ⇒ Disc is inserted upside down.

- **Disc cannot be recognized (“No Disc,” “Loading Error,” or “Eject Error” flashes).**
 - ⇒ The CD player may function incorrectly. Press **⏪/ATT** and **⏩** at the same time for more than 2 seconds to display the following screen, then press “Emergency Eject.”



- **Tracks on the CD-R/CD-RW cannot be skipped.**
 - ⇒ CD-R/CD-RW is not finalized.
- **Disc cannot be ejected.**
 - ⇒ Disc is locked. Unlock the disc (see page 21).

Disc playback—MP3/WMA

- **Disc cannot be played back.**
 - ⇒ MP3/WMA tracks do not have the extension code—<mp3> or <wma> in their file names.
 - ⇒ MP3/WMA tracks are not recorded in the format compliant with ISO 9660 Level 1, ISO 9660 Level 2, Romeo, or Joliet.
- **Noise is generated.**
 - ⇒ The current track is not an MP3/WMA file (although it has the extension code—<mp3> or <wma>).
- **Elapsed playing time is not correct.**
 - ⇒ This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.
- **“Not Support” appears and tracks skip.**
 - ⇒ Tracks are not encoded in an appropriate format.
 - ⇒ Copy-protected WMA tracks cannot be played back.

- **“No Files” appears for a while, then the disc ejects.**
⇒ The current MP3/WMA disc does not contain any MP3/WMA tracks.
- **“No Music” appears.**
⇒ No MP3/WMA tracks are included in the folder. Skip the folder.
⇒ Only <jll> and/or <jla> files are recorded on the disc.
- **Correct characters are not displayed (e.g. album name).**
⇒ This unit can only display a limited number of special characters (see the tables on page 62).

Graphics

- **Download does not seem to finish.**
⇒ If you are trying to download an animation of many frames, it takes a quite long time (see page 61).
- **Animation does not move.**
⇒ Temperature in the car compartment is very low—**LowTEMP** appears. Wait until the operating temperature resumes—until **LowTEMP** goes off.
- **The entire animation has not been downloaded.**
⇒ “OPENING” and “ENDING” can only memorize 30 frames of the animation even it includes 90 frames.

Preferred Setting Modes—PSM

- **“Movie” category settings in the PSM do not take effect.**
⇒ Temperature in the car compartment is very low—**LowTEMP** appears. Wait until the operating temperature resumes—until **LowTEMP** goes off.
- **“Opening” and “Ending” cannot be selected.**
⇒ If “KeyIn CFM” is set to “Off,” you cannot select them.
- **You cannot select an image for “UserPict.” (“-----” appears for the file name on the lower part of the display.)**
⇒ You can select an image only after downloading the appropriate files in memory.

External component operations

- **The external component you want is not selected for the playback source.**
⇒ Select the appropriate source for the “Ext Input” setting.

CD changer operations

- **“No Magazine” flashes.**
⇒ Magazine is not loaded in the CD changer.
- **“No Disc” flashes.**
⇒ No discs are in the magazine or the discs are inserted upside down.
- **“Reset 01” — “Reset 07” flashes.**
⇒ The built-in microcomputer in the CD changer is malfunctioning. Press the reset button of the CD changer.
- **“Reset 08” flashes.**
⇒ This unit is not connected to a CD changer correctly. Connect this unit and the CD changer correctly and press the reset button of the CD changer.

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

Frequency Response: 40 Hz to 20 000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Out Level/Impedance:

5.0 V/20 k Ω load (full scale)

Output Impedance: 1 k Ω

Other Terminals:

SUBWOOFER OUT

Changer control

Steering wheel remote input

TUNER SECTION

Frequency Range:

FM: 87.5 MHz to 108.0 MHz

AM: (MW) 522 kHz to 1 620 kHz

(LW) 144 kHz to 279 kHz

[FM Tuner]

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

50 dB Quieting Sensitivity: 16.3 dBf (1.8 μ V/75 Ω)

Alternate Channel Selectivity (400 kHz): 65 dB

Frequency Response: 40 Hz to 15 000 Hz

Stereo Separation: 35 dB

Capture Ratio: 1.5 dB

[MW Tuner]

Sensitivity: 20 μ V

Selectivity: 65 dB

[LW Tuner]

Sensitivity: 50 μ V

CD PLAYER SECTION

Type: Compact disc player

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

Number of channels: 2 channels (stereo)

Frequency Response: 5 Hz to 20 000 Hz

Dynamic Range: 98 dB

Signal-to-Noise Ratio: 102 dB

Wow and Flutter: Less than measurable limit

MP3 (MPEG Audio Layer 3)

Max. Bit rate: 320 Kbps

WMA (Windows Media[®] Audio)

Max. Bit rate: 192 Kbps

GENERAL

Power Requirement:

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

Grounding System: Negative ground

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

Dimensions (W \times H \times D):

Installation Size:
182 mm \times 52 mm \times 157.5 mm

Panel Size: 188 mm \times 58 mm \times 13 mm

Mass: 1.86 kg (excluding accessories)

Design and specifications are subject to change without notice.

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