JVC KD-R207

CD RECEIVER: INSTRUCTIONS/INSTALLATION

Detachable
MP3
WMA
COMPACT disc DIGITAL AUDIO TEXT
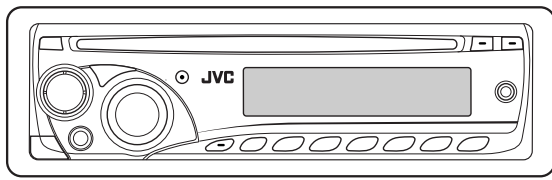
Radio Data System

GET0591-001A
[EE]

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.

Installation/connection are explained at the last section of this manual (reverse page, indicated with 🔧 symbol).

ENGLISH

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/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視 及び/または不可視 のクラス1M レーザー放射が 出ます。 光学器械で直接 見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)

[European Union only]

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.

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

Caution on volume setting
Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.
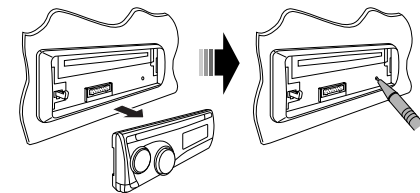

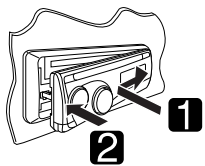## PREPARATIONS

Detaching the control panel

Attaching the control panel
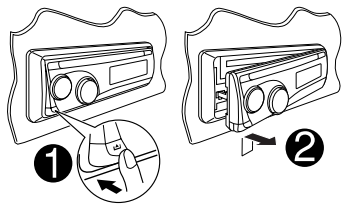
How to reset your unit
Reset the unit after installation is complete.

- *Your preset adjustments will also be erased.*

How to forcibly eject a disc

⏻/ATT [Hold]   + ⏏

- *Be careful not to drop the disc when it ejects.*
- *If this does not work, reset your unit.*

Basic settings

1 Enter PSM menu.
SEL [Hold]

2 Select an item.

Adjust.
[Turn]

① **Canceling the display demonstrations**
Select "DEMO," then "DEMO OFF."
② **Setting the clock**
Select "CLOCK H" (hour), then adjust the hour.
Select "CLOCK M" (minute), then adjust the minute.
Select "24H/12H," then "24H" (hour) or "12H" (hour).

3 Finish
SEL

Available characters on the display
☐ Available characters   ☐ Display indications

| А | Б | В | Г | Д | Е | Ж | З | И | Й | К | Л | М | Н | О | П | Р | С | Т | У | Ф | Х | Ц | Ч | Ш | Щ |

| Ъ | Ы | Ь | Э | Ю | Я | Ё | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |

| T | U | V | W | X | Y | Z | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | – | / | < | > | space |

MORE ABOUT THIS UNIT

Basic operations
- By pressing SRC on the unit, you can also turn on the power. If the source is ready, playback also starts.
- If you turn off the power while listening to a track, playback will start from where it had been stopped previously next time you turn on the power.

Tuner operations
- During SSM search...
  – All previously stored stations are erased and the stations are stored anew.
  – When SSM is over, the station stored in the lowest preset number will be automatically tuned in.
- Network-Tracking Reception requires two types of Radio Data System signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly.
- If a Traffic Announcement is received by TA Standby Reception, the volume level automatically changes to the preset level (TA VOL) if the current level is lower than the preset level.
- When Alternative Frequency Reception is activated (with AF selected), Network-Tracking Reception is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Frequency Reception.

Disc operations

Caution for DualDisc playback
- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General
- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA) and MP3/WMA formats.
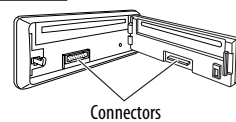
Playing a CD-R or CD-RW
- Use only "finalized" CD-Rs or CD-RWs.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not be played back on this unit:
  – Discs are dirty or scratched.
  – Moisture condensation has occurred on the lens inside the unit.
  – The pickup lens inside the unit is dirty.

– The files on the CD-R/CD-RW are written using the "Packet Write" method.
– There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.

Playing an MP3/WMA disc
- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files
- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate: 8 kbps — 320 kbps
  – Sampling frequency:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
  – Disc format: ISO 9660 Level 1/ Level 2, Romeo, Joliet, Windows long file name
- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
  – ISO 9660 Level 1: up to 12 characters; ISO 9660 Level 2: up to 31 characters; Romeo: up to 128 characters; Joliet: up to 64 characters; Windows long file name: up to 128 characters
- This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
- This unit can play back files recorded in VBR (variable bit rate).
Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
  – MP3 files encoded in: MP3i and MP3 PRO format, in an inappropriate format, layer 1/2.
  – WMA files: encoded in lossless, professional, and voice format; not based upon Windows Media® Audio; copy-protected with DRM.
  – Files which have data such as AIFF, ATRAC3, etc.
- The search function works but search speed is not constant.

MAINTENANCE

How to clean the connectors
Wipe the connectors with a cotton swab or cloth moistened with alcohol.

Connectors

Moisture condensation
Moisture may condense on the lens inside the unit. Eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

To keep discs clean
Wipe in a straight line from center of disc to edge. Do not use liquid cleaners, thinners, or benzene.

To play new discs
Remove any rough areas from the inner and outer edges of the disc.

Do not use the following discs:

Single CD (8 cm disc)   Warped disc   Sticker and sticker residue   Stick-on label

Unusual shape   C-thru Disc (semi-transparent disc)   Transparent or semi-transparent parts on its recording area
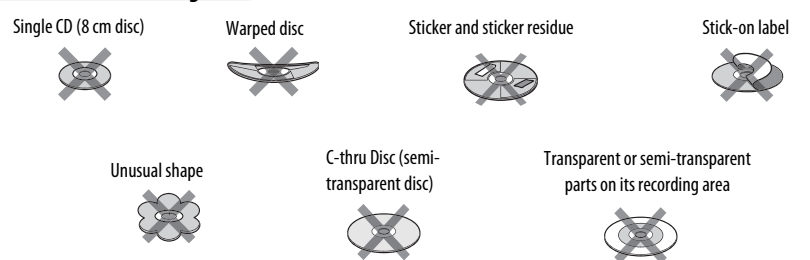
Basic operations

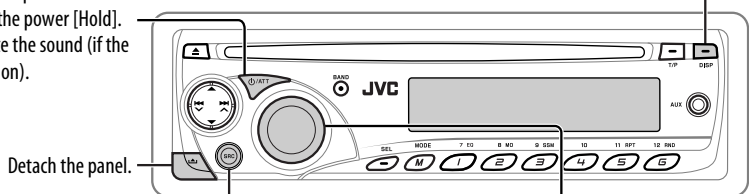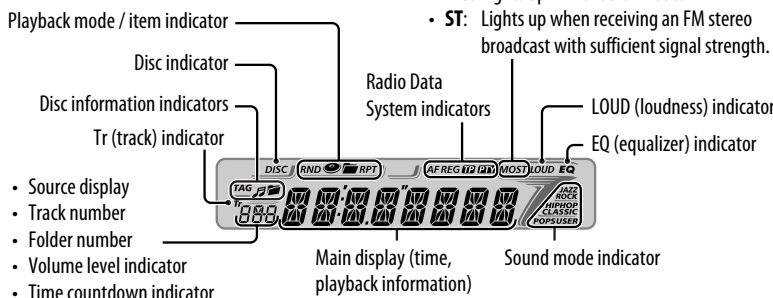### Control panel

- Turn on the power.
- Turn off the power [Hold].
- Attenuate the sound (if the power is on).

Check the current clock time/other information. See also "CLK DISP" of "General settings—PSM."

Detach the panel.

Select the source.
⌐ FM1/FM2/FM3/AM→ CD* → AUX IN ⌐

Volume control.
*You cannot select "CD" as the playback source if no disc is in the unit.

Display window

Playback mode / item indicator

Disc indicator

Disc information indicators

Tr (track) indicator

Radio Data System indicators

- **MO**: Lights up in monaural mode.
- **ST**: Lights up when receiving an FM stereo broadcast with sufficient signal strength.

LOUD (loudness) indicator

EQ (equalizer) indicator

- Source display
- Track number
- Folder number
- Volume level indicator
- Time countdown indicator

Main display (time, playback information)

Sound mode indicator

Disc operations

Eject disc.
- "NO DISC" appears. Press SRC to listen to another playback source.
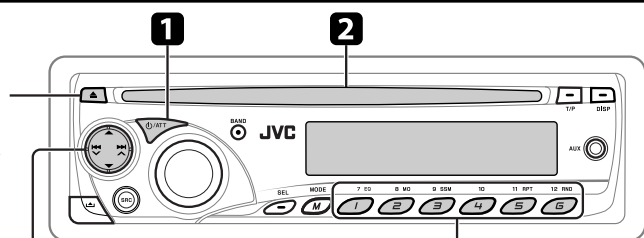
- ⏮ ∨ / ⏭ ∧
  [Press] Go to the previous or next track.
  [Hold] Reverses or fast-forwards the track.
- ▲ / ▼ : Go to the previous or next folder (for MP3/WMA discs).

[Press] Select track (for CD) or folder* number (01 – 06).
[Hold] Select track (for CD) or folder* number (07 – 12).
* Folders are required to assigned with 2-digit numbers at the beginning.

1 Turn on the power.

2 Insert disc.
All tracks will be played repeatedly until you change the source or eject the disc.

Selecting the playback modes

After pressing M MODE, press the following buttons to...

11 RPT / 5	**TRK RPT**	: Plays the current track repeatedly.
	FLDR RPT*	: Plays all tracks of the current folder repeatedly.
	RPT OFF	: Cancels.
12 RND / 6	**FLDR RND***	: Plays all tracks of the current folder, then the tracks of the next folder at random.
	ALL RND	: Plays all tracks of the current disc at random.
	RND OFF	: Cancels.

* Only while playing an MP3 or a WMA disc.

Skipping a track quickly during play

- For MP3/WMA disc, you can skip a track within the same folder.

Example: Select track 32

MODE M ➡ ➡

⌐ Track 1 to 9 → 10 ⌐ Track 31 → 32
.... 30 ← 20 ....
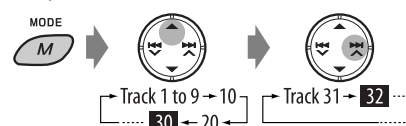
Changing the display information

DISP

While playing an audio CD or CD Text	While playing an MP3 or a WMA disc
Ⓐ → Ⓑ → Disc title/ performer*1 → Track title*1 → (back to the beginning)	Ⓐ → Ⓑ → Album name/ performer (folder name*2) → Track title (file name*2) → (back to the beginning)

Ⓐ : The elapsed playing time with the current track number
Ⓑ : Clock with the current track number

*1 If the current disc is an audio CD, "NO NAME" appears.
*2 If an MP3/WMA file does not have tags or "TAG DISP" is set to "TAG OFF," folder name and file name appear.

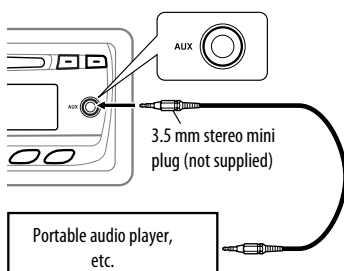### Prohibiting disc ejection

You can lock a disc in the loading slot.

SRC + [Hold] ⏏

To cancel the prohibition, repeat the same procedure.

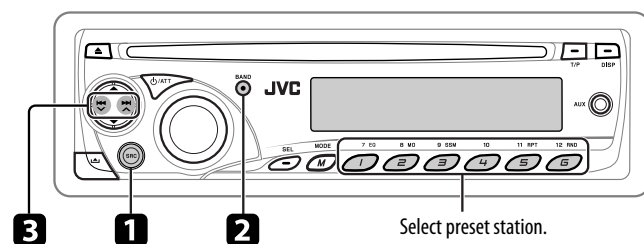## External component operations

AUX

You can connect an external component to the AUX (auxiliary) input jack on the control panel.

3.5 mm stereo mini plug (not supplied)

Portable audio player, etc.

1 SRC
→ AUX IN →

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

Radio operations

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

3 **1** **2**   Select preset station.

1 Select "FM/AM."

2 Select the bands. ⌐ FM1→ FM2→ FM3→ AM ⌐

3 Search for a station—Auto Search.
Manual Search: Hold either one of the buttons until "M" flashes on the display, then press it repeatedly.

When an FM stereo broadcast is hard to receive

1 MODE M ▶ **2** 8 MO 2

Reception improves, but the stereo effect will be lost.
- MO indicator lights up.
To restore the stereo effect, repeat the same procedure.

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

You can preset 6 stations for each band.

1 MODE M ▶ **2** 9 SSM 3 [Hold] SSM
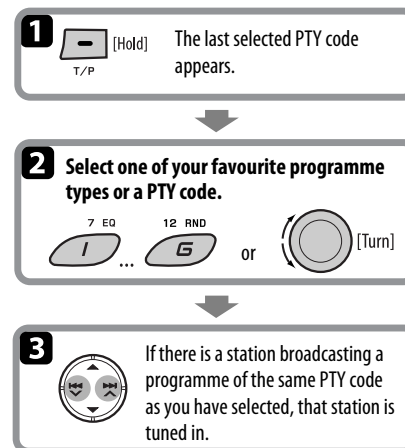
Manual presetting (FM/AM)

Example: Storing the FM station of 92.5 MHz into preset number 4 of the FM1 band.

1 BAND ⌐ FM1→ FM2→ FM3→ AM ⌐

2 ⏪ ⏩ FM1 92.5

3 10 4 [Hold] 92.5

FM Radio Data System operations

Searching for your favourite FM Radio Data System programme

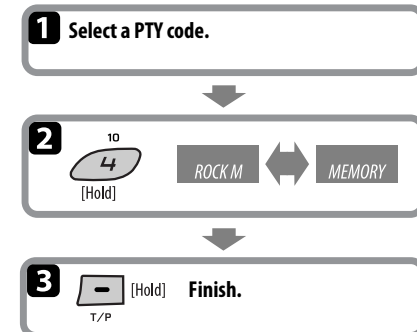You can tune in to a station broadcasting your favourite programme by searching for a PTY code.

1 T/P [Hold] The last selected PTY code appears.

2 Select one of your favourite programme types or a PTY code.

7 EQ 1 ... 12 RND 6 or [Turn]

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

Standby receptions

■ **TA Standby Reception**
TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from any source other than AM and FM3.

To activate/deactivate TA Standby Reception

T/P
- If the TP indicator flashes, TA Standby Reception is not yet activated.

To activate the reception, tune in to another station providing Radio Data System signals required for TA Standby Reception.

■ **PTY Standby Reception**
PTY Standby Reception allows the unit to switch temporarily to your favourite PTY programme from any source other than AM and FM3.

To activate and select your favourite PTY code for PTY Standby Reception, see "General settings—PSM: PTY-STBY."
- If the PTY indicator flashes, PTY Standby Reception is not yet activated.
To activate the reception, tune in to another station providing these signals.

PTY codes
NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M (music), ROCK M (music), EASY M (music), LIGHT M (music), CLASSICS, OTHER M (music), WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M (music), OLDIES, FOLK M (music), DOCUMENT

Storing your favourite programme type

You can store six favourite programme types.

Preset programme types in the number buttons (1 to 6):

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

Example: Storing "ROCK M" into preset number 4.

1 Select a PTY code.

2 10 4 [Hold] ROCK M ⬌ MEMORY

3 T/P [Hold] **Finish.**

Tracing 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 Radio Data System station of the same network, possibly broadcasting the same programme with stronger signals.
To change the Network-Tracking Reception setting, see "General settings—PSM: AF-REG."

Programme A broadcasting on different frequency areas (01 – 05)

"01" "05" "03" "02" "04"
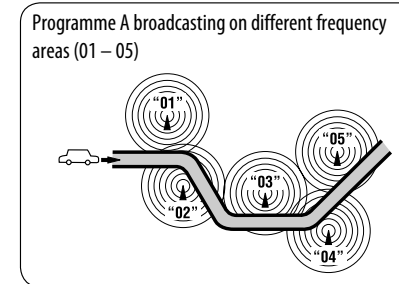
### Automatic station selection — Programme Search

Usually when you press the number buttons, the preset station is tuned in.
If the signals from the FM Radio Data System preset station are not sufficient for good reception, this unit, using the AF data, tunes in to another frequency broadcasting the same programme as the original preset station is broadcasting.
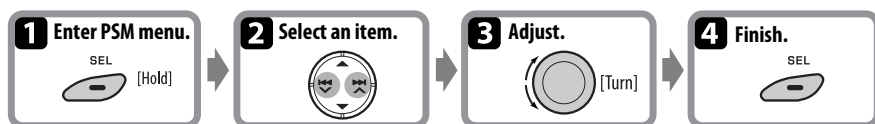See "General settings—PSM: P-SEARCH."

SETTINGS

Sound adjustments

1 MODE M ➡ **2** 7 EQ

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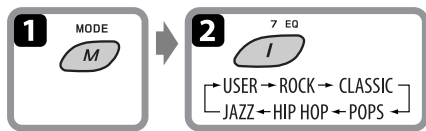
Preset values / Indication (For)	BAS	TRE	LOUD
USER (Flat sound)	00	00	OFF
ROCK (Rock or disco music)	+03	+01	ON
CLASSIC (Classical music)	+01	−02	OFF
POPS (Light music)	+04	+01	OFF
HIP HOP (Funk or rap music)	+02	00	ON
JAZZ (Jazz music)	+02	+03	OFF

BAS: Bass; TRE: Treble; LOUD: (loudness)

BAS*1 (bass) — Adjust the bass.	−06 to +06
TRE*1 (treble) — Adjust the treble.	−06 to +06
FAD*2 (fader) — Adjust the front and rear speaker balance.	R06 to F06
BAL (balance) — Adjust the left and right speaker balance.	L06 to R06
LOUD*1 (loudness) — Boost low and high frequencies to produce a well-balanced sound at a low volume level.	LOUD ON or LOUD OFF
VOL (volume) — Adjust the volume.	00 to 50 (or 00 to 30)*3

*1 When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode including "USER."
*2 If you are using a two-speaker system, set the fader level to "00."
*3 Depending on the amplifier gain control setting—AMP GAIN.

Adjusting the sound

1 SEL — → BAS → TRE → FAD → / VOL ← LOUD ← BAL ← ➡ **2** [Turn]

General settings—PSM

1 Enter PSM menu. SEL [Hold] ➡ **2** Select an item. ➡ **3** Adjust. [Turn] ➡ **4** Finish. SEL

Indication	Item (___ : Initial)	Setting
DEMO	• **DEMO ON**	: The display demonstration will be activated automatically if no operation is done for about 20 seconds.
	• DEMO OFF	: Cancels.
CLK DISP*1	• ON	: The clock time is shown on the display at all times when the power is turned off.
	• **OFF**	: Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off.
CLOCK H (Hour)	0 – 23 (1 – 12)	: [Initial: 0 (0:00)]
CLOCK M (Minute)	00 – 59	: [Initial: 00 (0:00)]
24H/12H	• **24H** / • 12H	: See "Basic settings."
CLK ADJ*2	• **AUTO**	: The built-in clock is automatically adjusted using the CT (clock time) data in the Radio Data System signal.
	• OFF	: Cancels.
AF-REG*2	• **AF**	: When the currently received signals become weak, the unit switches to another station (the programme may differ from the one currently received). • The AF indicator lights up.
	• AF REG	: When the currently received signals become weak, the unit switches to another station broadcasting the same programme. • The AF and REG indicators light up.
	• OFF	: Cancels.
PTY-STBY*2	**OFF**, PTY codes	Activates PTY Standby Reception with one of the PTY codes.
TA VOL*2	**VOL 00 – VOL 50** (or **VOL 00 – VOL 30**)*3	[Initial: VOL 15]
P-SEARCH*2	• ON	: Activates Programme Search.
	• **OFF**	: Cancels.
DIMMER	• ON	: Dims the display and button illumination.
	• **OFF**	: Cancels.
TEL	• MUTING 1/ MUTING 2	: Select either one which mutes the sounds while using a cellular phone.
	• **OFF**	: Cancels.
SCROLL*4	• **ONCE**	: Scrolls the displayed information once.
	• AUTO	: Repeats scrolling (at 5-second intervals).
	• OFF	: Cancels.
		• Pressing DISP for more than one second can scroll the display regardless of the setting.
AUX ADJ	**A.ADJ 00** – A.ADJ 05	: Adjust the auxiliary input level to avoid the sudden increase of the output level when changing the source to external component connected to the AUX input jack on the control panel.
TAG DISP	• **TAG ON**	: Shows the tag while playing MP3/WMA tracks.
	• TAG OFF	: Cancels.
AMP GAIN	• LOW PWR	: VOL 00 – VOL 30 (Select if the maximum power of each speaker is less than 45 W to prevent the speaker from being damaged.)
	• **HIGH PWR**	: VOL 00 – VOL 50
IF BAND	• **AUTO**	: Increases the tuner selectivity to reduce interference noise between adjacent stations. (The stereo effect may be lost.)
	• WIDE	: Subject to the interference noise from adjacent stations, but the sound quality will not be degraded and the stereo effect will remain.

*1 If the power supply is not interrupted by turning off the ignition key of your car, it is recommended that you select "OFF" to save the car's battery.
*2 Only for FM Radio Data System stations.
*3 Depends on the amplifier gain control.
*4 Some characters or symbols will not be shown correctly (or will be blanked) on the display.

TROUBLESHOOTING

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• This unit does not work at all.	Reset the unit.
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the aerial firmly.
Disc playback	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can be neither played back nor ejected.	• Unlock the disc. • Eject the disc forcibly.
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• "NO DISC" appears on the display.	Insert a playable disc into the loading slot.
	• "PLEASE" and "EJECT" appear alternately on the display.	Press ⏏, then insert a disc correctly.
MP3/WMA playback	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• A longer readout time is required ("READING" keeps flashing on the display).	Do not use too many hierarchical levels and folders.
	• Tracks are not played back in the order you have intended.	Playback order is determined when the files are recorded.
	• The elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
	• The correct characters are not displayed (e.g. album name).	This unit can only display letters (upper case), numbers, and a limited number of symbols.

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SPECIFICATIONS

Audio amplifier section

Maximum Power Output:
Front/Rear: 45 W per channel
Continuous Power Output (RMS):
Front/Rear: 17 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range: Bass: ±12 dB at 100 Hz
Treble: ±12 dB at 10 kHz
Frequency Response: 40 Hz to 20 000 Hz
Signal-to-Noise Ratio: 70 dB
Other Terminal: AUX (auxiliary) input jack

Tuner section

Frequency Range:
FM1/2: 87.5 MHz to 108.0 MHz
FM3: 65.00 MHz to 74.00 MHz
AM: MW: 522 kHz to 1 620 kHz
LW: 144 kHz to 279 kHz

[FM Tuner]
Usable Sensitivity: 11.3 dBf (1.0 μV/75 Ω)
50 dB Quieting Sensitivity: 16.3 dBf (1.8 μV/75 Ω)
Alternate Channel Selectivity (400 kHz): 65 dB
Frequency Response: 40 Hz to 15 000 Hz
Stereo Separation: 30 dB

[MW Tuner]
Sensitivity/Selectivity: 20 μV/35 dB

[LW Tuner]
Sensitivity: 50 μV

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: 93 dB
Signal-to-Noise Ratio: 98 dB
Wow and Flutter: Less than measurable limit
MP3 Decoding Format: (MPEG1/2 Audio Layer 3)
Max. Bit Rate: 320 kbps
WMA (Windows Media® Audio) Decoding Format:
Max. Bit Rate: 192 kbps

General

Power Requirement: Operating Voltage: DC 14.4 V (11 V to 16 V allowance)
Grounding System: Negative ground
Allowable Operating Temperature: 0℃ to +40℃
Dimensions (W × H × D):
Installation Size (approx.):
182 mm × 52 mm × 160 mm
Panel Size (approx.):
188 mm × 58 mm × 13 mm
Mass (approx.):
1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

PREPARATION

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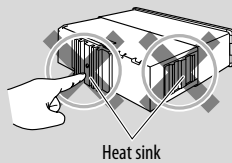
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.
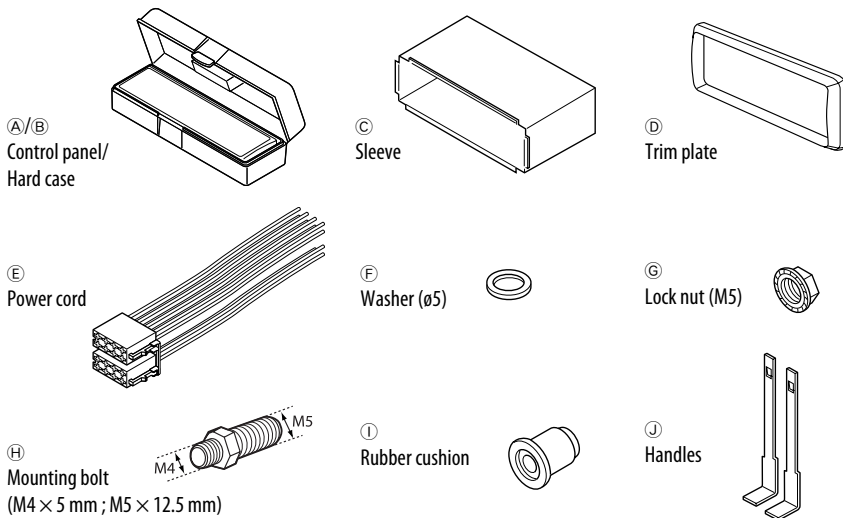• **Be sure to ground this unit to the car's chassis again after installation.**

Notes:
• Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
• It is recommended to connect to the speakers with maximum power of more than 45 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 45 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see "General settings—PSM").
• To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
• The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.

Heat sink

Parts list for installation and connection

Ⓐ/Ⓑ Control panel/Hard case
Ⓒ Sleeve
Ⓓ Trim plate
Ⓔ Power cord
Ⓕ Washer (ø5)
Ⓖ Lock nut (M5)
Ⓗ Mounting bolt (M4 × 5 mm ; M5 × 12.5 mm)
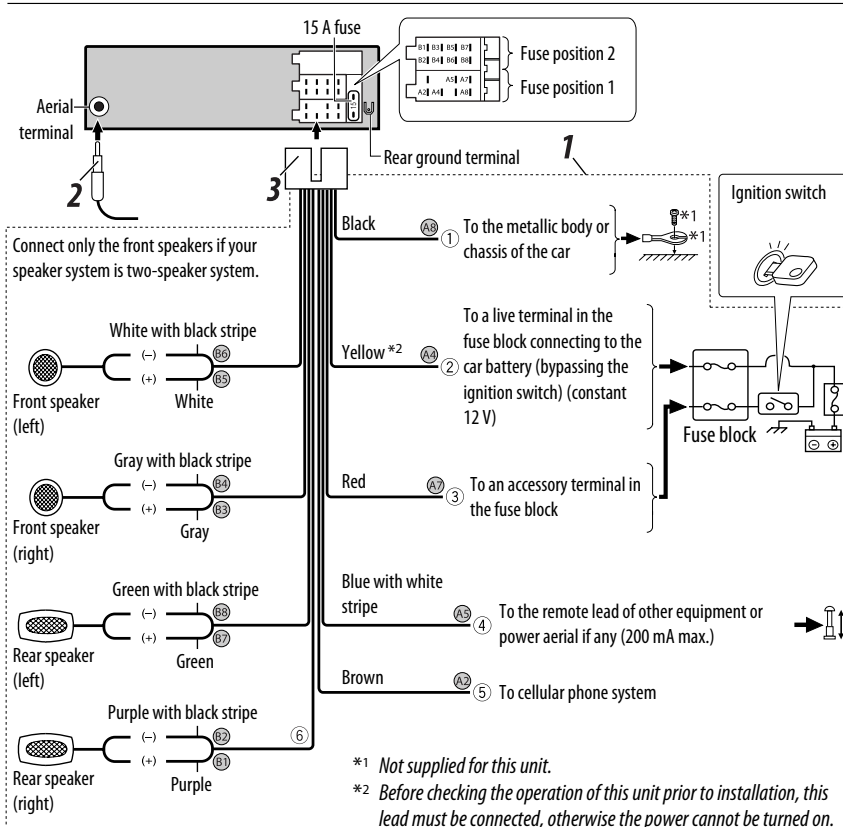Ⓘ Rubber cushion
Ⓙ Handles

ELECTRICAL CONNECTIONS

Typical connections

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit. The leads of the power cord and those of the connector from the car body may be different in color.
1 Connect the colored leads of the power cord in the order specified in the illustration below.
2 Connect the aerial cord.
3 Finally connect the wiring harness to the unit.

Note: If your vehicle does not have any accessory terminal, move the fuse from the fuse position 1 (initial position) to fuse position 2, and connect the red lead (A7) to the positive (+) battery terminal.
• The yellow lead (A4) is not used in this case.

15 A fuse
Fuse position 2
Fuse position 1
Aerial terminal
Rear ground terminal
Ignition switch

Connect only the front speakers if your speaker system is two-speaker system.

Black — To the metallic body or chassis of the car *1
White with black stripe / White — Front speaker (left)
Gray with black stripe / Gray — Front speaker (right)
Green with black stripe / Green — Rear speaker (left)
Purple with black stripe / Purple — Rear speaker (right)

Yellow *2 — To a live terminal in the fuse block connecting to the car battery (bypassing the ignition switch) (constant 12 V)
Fuse block
Red — To an accessory terminal in the fuse block
Blue with white stripe — To the remote lead of other equipment or power aerial if any (200 mA max.)
Brown — To cellular phone system

*1 Not supplied for this unit.
*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise the power cannot be turned on.
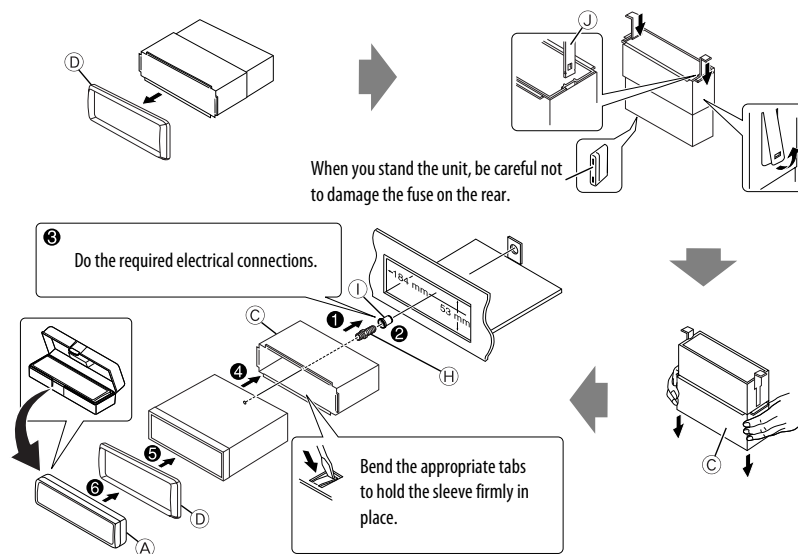
INSTALLATION

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.
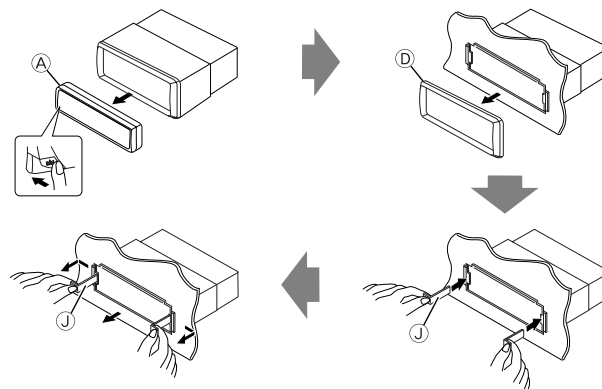• If you are not sure how to install this unit correctly, have it installed by a qualified technician.

In dash-mounting

When you stand the unit, be careful not to damage the fuse on the rear.
❸ Do the required electrical connections.
Bend the appropriate tabs to hold the sleeve firmly in place.

Removing the unit

Before removing the unit, release the rear section.

When using the optional stay

Fire wall
Stay (option)
Dashboard
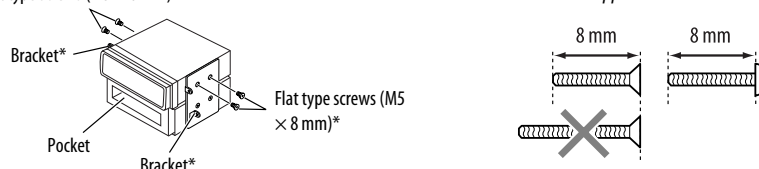Screw (option)
Install the unit at an angle of less than 30°.
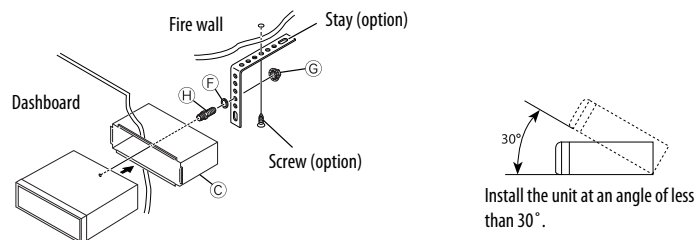
When installing the unit without using the sleeve

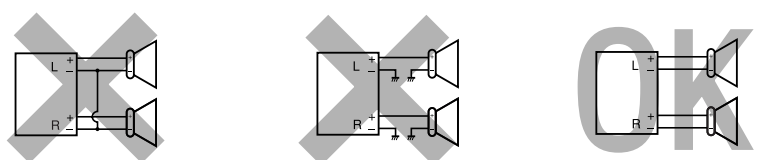In a Toyota car for example, first remove the car radio and install the unit in its place.
Flat type screws (M5 × 8 mm)*
Bracket*
Pocket
Flat type screws (M5 × 8 mm)*
Bracket*
* Not supplied for this unit.
8 mm   8 mm

PRECAUTIONS on power supply and speaker connections
OK

TROUBLESHOOTING

• **The fuse blows.**
* Are the red and black leads connected correctly?
• **Power cannot be turned on.**
* Is the yellow lead connected?
• **No sound from the speakers.**
* Is the speaker output lead short-circuited?
• **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the "−" terminals of L and R speakers grounded in common?
• **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
• **This unit becomes hot.**
* Is the speaker output lead grounded?
* Are the "−" terminals of L and R speakers grounded in common?
• **This unit does not work at all.**
* Have you reset your unit?