

# JVC



**CASSETTE RECEIVER**

**KS-FX12/KS-FX12WT**

ENGLISH

**RECEPTOR-REPRODUCTOR DE CASSETTE**

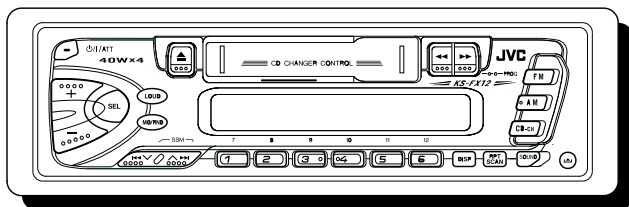
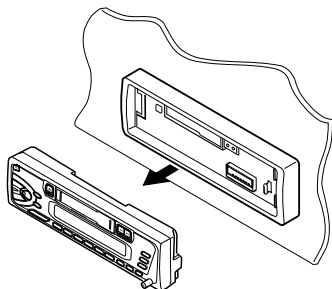
**KS-FX12/KS-FX12WT**

ESPAÑOL

**RADIOCASSETTE**

**KS-FX12/KS-FX12WT**

FRANÇAIS



For installation and connections, refer to the separate manual.  
Para la instalación y las conexiones, refiérase al manual separado.  
Pour l'installation et les raccordements, se référer au manuel séparé.

## **INSTRUCTIONS**

**MANUAL DE INSTRUCCIONES**  
**MANUEL D'INSTRUCTIONS**

**For customer Use:**

Enter below the Model No. and Serial No. which are located on the top or bottom of the cabinet. Retain this information for future reference.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

FSUN3098-631

[J]

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

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## BEFORE USE

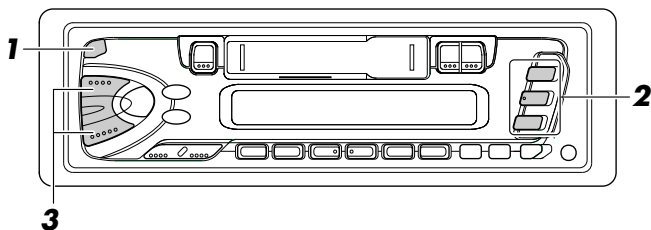
\* *For safety....*

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

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

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

# BASIC OPERATIONS



**Note:**

When you use this unit for the first time, set the built-in clock correctly, see page 13.

## 1

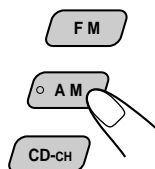


Turn on the power.

**Notes on One-Touch Operation:**

- When you select tuner as a source in step 2 below, the power automatically comes on. You do not have to press this button to turn on the power.
- If the cassette is already in the cassette compartment, tape play starts automatically.

## 2



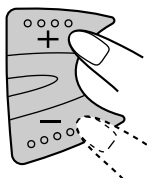
Play the source.

To operate the tuner, see pages 4 – 8.

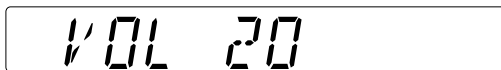
To operate the tape deck, see page 9.

To operate the CD changer, see pages 15 – 17.

## 3



Adjust the volume.



Volume level appears.

## 4

Adjust the sound as you want (see pages 10 – 12).

### To drop the volume in a moment

Press  $\odot$ /I/ATT briefly while listening to any source. “ATT” starts flashing on the display, and the volume level will drop in a moment.

To resume the previous volume level, press the button briefly again.

### To turn off the power

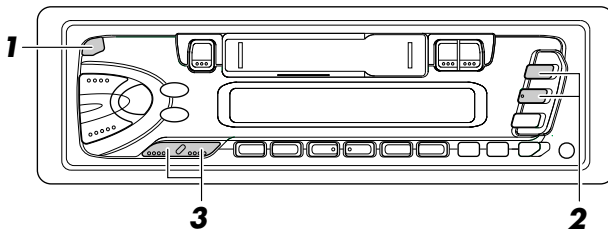
Press  $\odot$ /I/ATT for more than 1 second.



# RADIO OPERATIONS

ENGLISH

## Listening to the radio



1

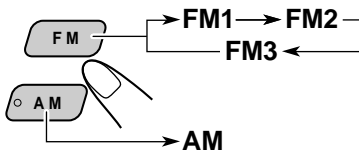


Turn on the power.

**Note on One-Touch Operation:**

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

2



Select the band (FM1, FM2, FM3 or AM).

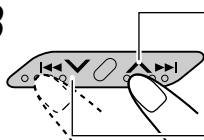
You can select any one of FM1, FM2, and FM3 to listen to an FM station.



**Note:**

When a cassette is in the cassette compartment, you cannot select the tuner. Be sure to eject the cassette from the cassette compartment to listen to the radio.

3



To search stations of higher frequencies.

To search stations of lower frequencies.

Start searching a station.

When a station is received, searching stops.



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

**To tune in a particular frequency manually:**

1 Press FM or AM to select the band.

2 Press and hold  $\blacktriangle$   $\blacktriangleright$   $\blacktriangleleft$  or  $\blacktriangleleft$   $\blacktriangledown$  until "M" starts flashing on the display.

Now you can manually change the frequency while "M" is flashing.

3 Press  $\blacktriangle$   $\blacktriangleright$   $\blacktriangleleft$  or  $\blacktriangleleft$   $\blacktriangledown$  repeatedly until the frequency you want is reached.

- If you hold down the button, the frequency keeps changing until you release the button.

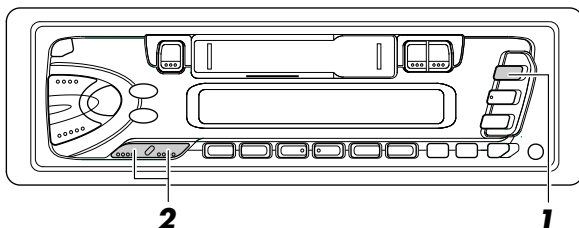
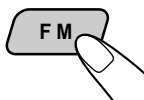
# Storing stations in memory

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

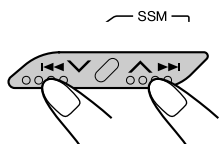
- Automatic preset of FM stations: SSM (Strong-station Sequential Memory)
- Manual preset of both FM and AM stations.

## FM station automatic preset: SSM

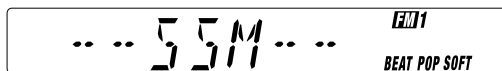
You can preset 6 local FM stations in each FM band (FM1, FM2 and FM3).


**1**


Select the FM band number (FM1, FM2 or FM3) you want to store FM stations into.

**2**


Press and hold the button for more than 2 seconds.



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

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

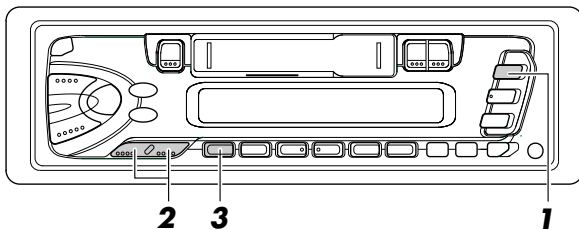
When automatic preset is over, the station stored in number button 1 will be automatically tuned in.



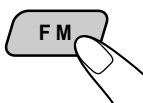
## Manual preset

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

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



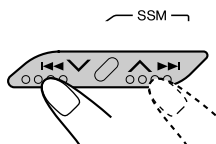
1



Select the FM1 band.



2

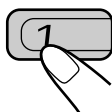


Tune into a station of 88.3 MHz.

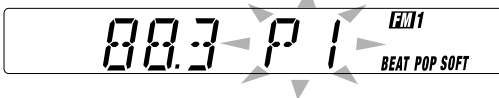
See page 4 to tune into a station.



3



Press and hold the button for more than 2 seconds.



Preset number "1" flashes for a while.

4

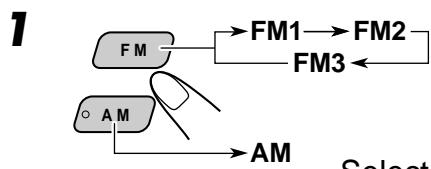
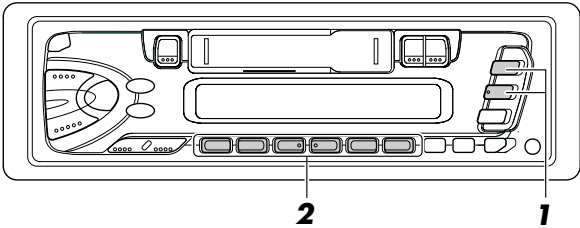
Repeat the above procedure to store other stations into other preset numbers.

### Notes:

- A previously preset station is erased when a new station is stored in the same preset number.
- Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.

# Tuning into a preset station

You can easily tune into a preset station.  
Remember that you must store stations first. If you have not stored them yet, see page 5 or 6.



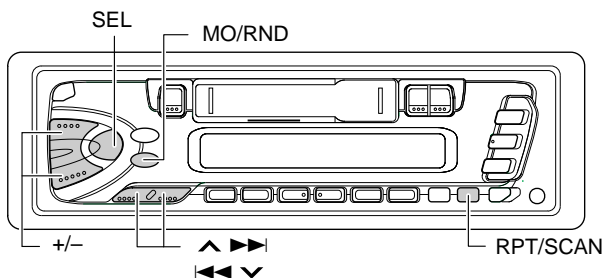
Select the band (FM1, FM2, FM3 or AM) you want.



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



## Other convenient tuner functions



### Scanning broadcast stations

When you press RPT/SCAN while listening to the radio, station scanning starts. Each time a broadcast is tuned in, scanning stops for about 5 seconds (tuned frequency number flashes on the display), and you can check what program is now being broadcast.

If you want to listen to that program, press the same button again to stop scanning.

### Selecting FM reception sound

**When an FM stereo broadcast is hard to receive:**

Press MO/RND while listening to an FM stereo broadcast. The sound you hear becomes monaural but reception will be improved.

Lights when receiving an FM broadcast in stereo



To restore the stereo effect, press the same button again.

### Changing the AM/FM channel intervals

**When using this unit in an area other than North or South America:**

When this unit is shipped from the factory, the channel intervals are set to 10 kHz for AM and 200 kHz for FM. You can change the channel intervals by following the procedure below.

1 Press SEL (select) for more than 2 seconds.

“CLOCK H,” “CLOCK M” or “AREA” appears on the display.

2 If “AREA” does not appear, press  $\blacktriangle$   $\blacktriangleright$  or  $\blacktriangleleft$   $\blacktriangledown$  until it appears.

3 Press +.

“AREA EU” appears and the channel intervals are set to 9 kHz for AM and 50 kHz (for manual tuning) / 100 kHz (for searching) for FM.

**To reset to the factory setting,** follow the above step 1 and 2, then press – in step 3 (“AREA US” appears on the display.)

AREA EU: Select this when used in an area other than North and South America.

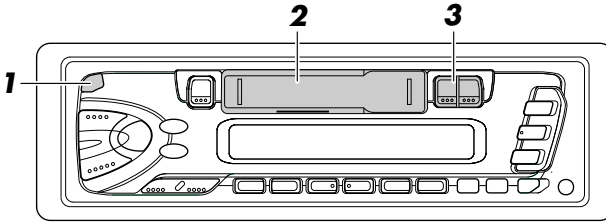
AREA US: Select this when used in North or South America.



# TAPE OPERATIONS



## Listening to a tape

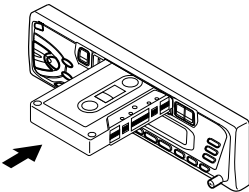


1



Turn on the power.

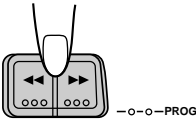
2



Insert a cassette.

When one side of the tape reaches its end during play, the other side of the tape automatically starts playing. (Auto Reverse)

3



Select the tape direction.

• Press the both buttons at the same time.

Each time you press the button, the tape direction changes alternatively – forward (TAPE >>>) and reverse (TAPE <<<).

### To stop play and eject the cassette

Press ▲.

Tape play stops and the cassette ejects from the cassette compartment.

You can hear the last received station.

• You can also eject the cassette with the unit turned off.

### To fast-wind a tape

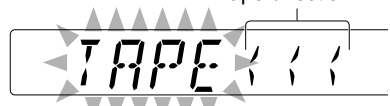
Press either ►► or ◀◀.

The tape will be wound in the direction of the arrows (►► or ◀◀).

To restart playback, press ►► or ◀◀ lightly.



Tape direction





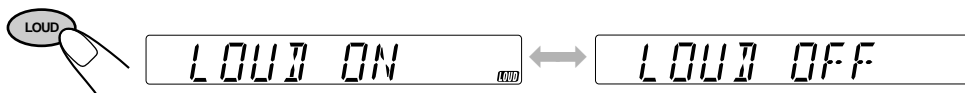
# SOUND ADJUSTMENTS

ENGLISH

## Turning on/off the loudness function

The human ear is less sensitive to low and high frequencies at low volumes. The loudness function can boost these frequencies to produce a well-balanced sound at low volume levels.

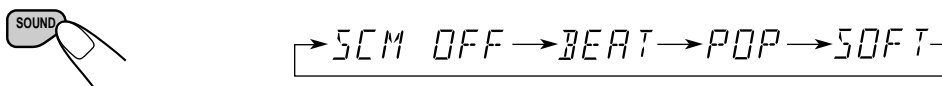
Each time you press LOUD, the loudness function turns on/off alternatively.



## Selecting preset sound modes

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

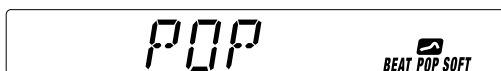
Each time you press SOUND, the sound mode changes as follows.



Indication	For:	Preset values		
		Bass	Treble	Loudness
SCM OFF	(Flat sound)	00	00	On
BEAT	Rock or disco music	+2	00	On
POP	Light music	+4	+1	Off
SOFT	Quiet background music	+1	-3	Off

### Notes:

- You can adjust the preset sound mode to your preference, and store it in memory. If you want to adjust and store your original sound mode, see “Storing your own sound adjustments” on page 12.
- To adjust only the bass and treble reinforcement levels to your preference, see “Adjusting the sound” on page 11.
- When one of the sound modes is selected, it is shown on the display as follows:

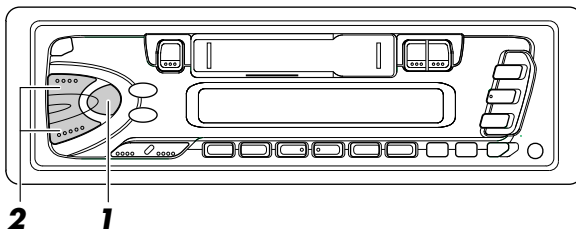


For example, when “POP” is selected.

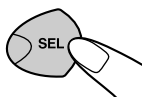


# Adjusting the sound

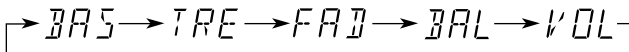
You can adjust the treble/bass sound and the speaker balance.



1



Select the item you want to adjust.

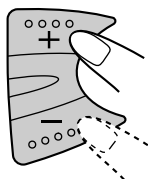


Indication	To do:	Range
BAS (bass)	Adjust the bass	-6 (min.) — +6 (max.)
TRE (treble)	Adjust the treble	-6 (min.) — +6 (max.)
FAD (Fader)*	Adjust the front and rear speaker balance	R6 (rear only) — F6 (front only)
BAL (Balance)	Adjust the left and right speaker balance	L6 (left only) — R6 (right only)
VOL (Volume)	Adjust the volume	00 (min.) — 50 (max.)

**Note:**

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

2



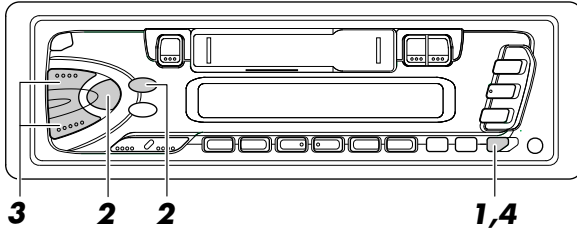
Adjust the level.


**Note:**

Normally the + and - buttons work as the volume control buttons. So you do not have to select "VOL" to adjust the volume level.

# Storing your own sound adjustments

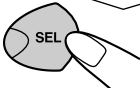

You can adjust the sound modes (BEAT, POP, SOFT: see page 10) to your preference and store your own adjustments in memory.



- 1**  Call up the sound mode you want to adjust.  
See page 10 for details.

*Within 5 seconds*

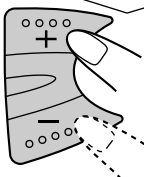
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- 2**   
 To adjust the bass or treble sound level  
Select "BAS" or "TRE."

To turn on or off the loudness function  
Each time you press LOUD, the loudness function turns on and off alternatively. (→ go to step 4)

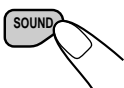
*Within 5 seconds*

---

- 3**  Adjust the bass or treble level.  
See page 11 for details.

*Within 5 seconds*

---

- 4**  Press and hold SOUND until the sound mode you have selected in step **1** flashes on the display.  
Your setting is stored in memory.

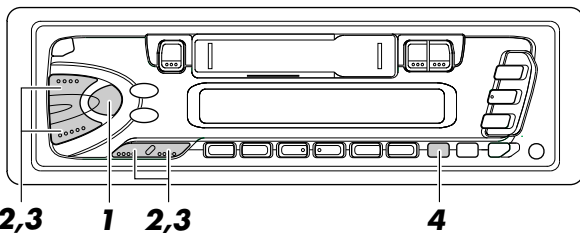
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- 5** Repeat the same procedure to store other settings.

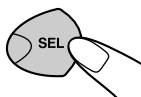
## To reset to the factory settings

Repeat the same procedure and reassign the preset values listed in the table on page 10.

## Setting the clock



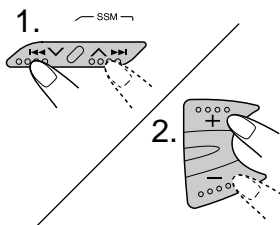
**1**



Press and hold the button for more than 2 seconds.

“CLOCK H,” “CLOCK M” or “AREA” appears on the display.

**2**



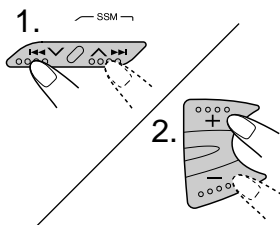
Set the hour.

1. Select “CLOCK H” if not shown on the display.

→ CLOCK H → CLOCK M → AREA

2. Adjust the hour.

**3**



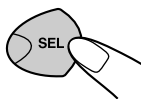
Set the minute.

1. Select “CLOCK M.”

→ CLOCK H → CLOCK M → AREA

2. Adjust the minute.

**4**



Start the clock.

### To check the current clock time (changing the display mode)

Press DISP repeatedly. Each time you press the button, the display mode changes as follows.

During tuner operation:

Frequency ↔ Clock

During tape operation:

Play mode ↔ Clock

During CD operation:

Elapsed playing time ↔ Clock

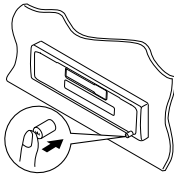
# Detaching the control panel

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

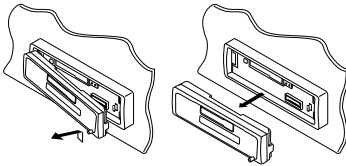
## How to detach the control panel

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

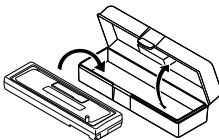
- 1 Unlock the control panel.



- 2 Lift and pull the control panel out of the unit.

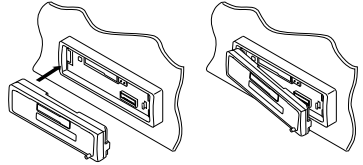


- 3 Put the detached control panel into the provided case.

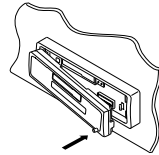


## How to attach the control panel

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



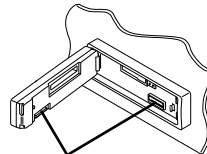
- 2 Press the right side of the control panel to fix it to the panel holder.



### Note on cleaning the connectors:

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

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



Connectors

# CD CHANGER OPERATIONS

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

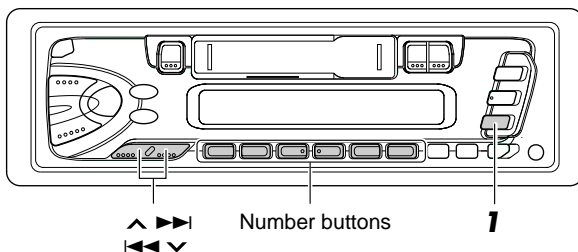
If you have another CD automatic changer, consult your JVC car audio dealer for connections.


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

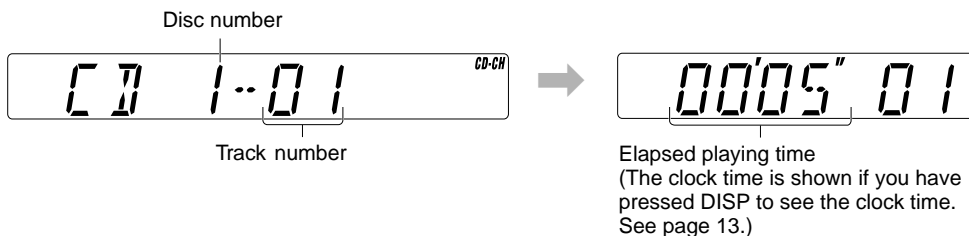
Before operating your CD automatic changer:

- Refer also to the Instructions supplied with your CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "NO CD" or "NO DISC" will appear on the display. If this happens, remove the magazine and set the discs correctly.
- If "RESET 1 - RESET 8" appears on the display, something is wrong with the connection between this unit and the CD changer. If this happens, check the connection, connect the connecting cord(s) firmly if necessary, then press the reset button of the CD changer.


## Playing CDs



-  **1** Select the CD automatic changer.  
Playback starts from the first track of the first disc.  
All tracks of all discs are played back.

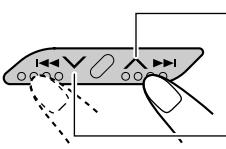


### Note on One-Touch Operation:

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



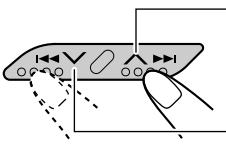
## To fast forward or reverse the track



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

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

## To go to the next track or the previous track

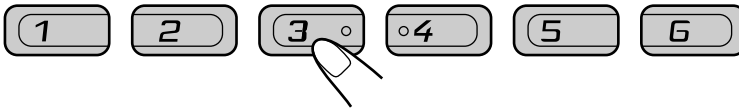


Press **▲▶▶** briefly, while playing a CD, to go ahead to the beginning of the next track. Each time you press the button consecutively, the beginning of the next tracks is located and played back.

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

## To go to a particular disc directly

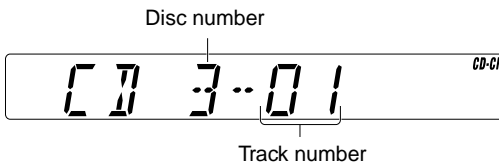
7                      8                      9                      10                      11                      12



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

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

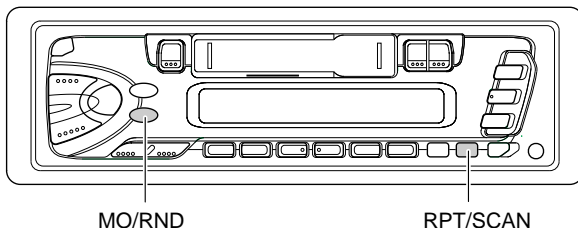
Ex. When disc number 3 is selected







# Selecting CD playback modes



## To play back tracks at random (Random Play)

Each time you press MO/RND (Mono/Random) while playing a CD, CD random play mode changes as follows:



Mode	RND Indicator	Plays at random
RND1	Lights	All tracks of the current disc, then the tracks of the next disc, and so on.
RND2	Flashes	All tracks of all discs inserted in the magazine.

## To play back tracks repeatedly (Repeat Play)

Each time you press RPT/SCAN (Repeat/Scan) while playing a CD, CD repeat play mode changes as follows:



Mode	RPT Indicator	Plays repeatedly
RPT1	Lights	The current track (or specified track).
RPT2	Flashes	All tracks of the current disc (or specified disc).



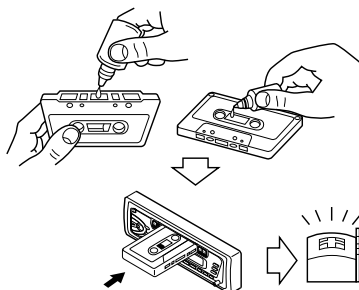
# MAINTENANCE

ENGLISH

## To extend the lifetime of the unit

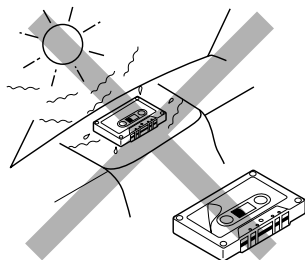
This unit requires very little attention, but you will be able to extend the life of the unit if you follow the instructions below.

### To clean the heads



- Clean the heads after every 10 hours of use using a wet-type head cleaning tape (available at an audio store).  
When the head becomes dirty, you may realize the following symptoms:
  - Sound quality is reduced.
  - Sound level decreases.
  - Sound drops out.
- Do not play dirty or dusty tapes.
- Do not touch the highly-polished head with any metallic or magnetic tools.

### To keep the tape clean



- Always store the tapes to their storage cases after use.
- Do not store tapes in the following places:
  - Subject to direct sunlight
  - With high humidity
  - At extremely hot temperatures

### CAUTIONS:

- Do not play the tapes with peeling labels; otherwise, they can damage the unit.
- Tighten tapes to remove slack since loose tape may become entangled with the mechanism.
- Do not leave a cassette in the cassette compartment after use, as the tape may become slack.

## How to reset your unit

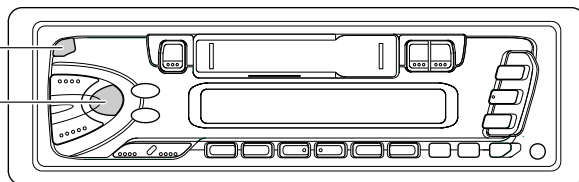
Press and hold both the SEL (Select) and  $\text{O/I/ATT}$  (Standby/On/ATT) buttons at the same time for several seconds.

This will reset the built-in microcomputer.

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

$\text{O/I/ATT}$   
(Standby/On/ATT)

SEL (Select)



# TROUBLESHOOTING ?!

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

Symptoms	Causes	Remedies
• A cassette tape cannot be inserted.	You have tried to insert a cassette in the wrong way.	Insert the cassette with the exposed tape facing right.
• Cassette tapes become hot.	This is not a malfunction.	_____
• Tape sound is at very low level and sound quality is degraded.	The tape head is dirty.	Clean it with a head cleaning tape.
• Sound is sometimes interrupted.	Connections are not good.	Check the cords and connections.
• Sound cannot be heard from the speakers.	The volume control is turned to the minimum level.	Adjust it to the optimum level.
	Connections are incorrect.	Check the cords and connections.
• Static noise while listening to the radio.	The antenna is not connected firmly.	Connect the antenna firmly.
• "NO CD" or "NO DISC" appears on the display.	No CD is in the magazine.	Insert CDs into the magazine.
	CDs are inserted incorrectly.	Insert them correctly.
• "RESET 8" appears on the display.	This unit is not connected to a CD changer correctly.	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
• "RESET 1-RESET 7" appears on the display.	_____	Press the reset button of the CD changer.
• The unit does not work at all.	The built-in microcomputer may function incorrectly due to noise, etc.	While holding SEL, press $\Phi$ /I/ATT for more than 2 seconds to reset the unit. (The clock setting and preset stations stored in memory are erased.) (See page 18).

# SPECIFICATIONS

ENGLISH

## AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 40 watts per channel

Rear: 40 watts per channel

Continuous Power Output (RMS):

Front: 16 watts per channel into 4  $\Omega$ , 40 to 20,000 Hz at no more than 0.8% total harmonic distortion.

Rear: 16 watts per channel into 4  $\Omega$ , 40 to 20,000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4  $\Omega$  (4 to 8  $\Omega$  allowance)

Tone Control Range

Bass:  $\pm 10$  dB at 100 Hz

Treble:  $\pm 10$  dB at 10 kHz

Frequency Response: 40 to 20,000 Hz

Signal-to-Noise Ratio: 70 dB

## TUNER SECTION

Frequency Range

FM: 87.5 to 107.9 MHz

(with channel interval set to 200 kHz)

87.5 to 108.0 MHz

(with channel interval set to 50 kHz)

AM: 530 to 1,710 kHz

(with channel interval set to 10 kHz)

531 to 1,602 kHz

(with channel interval set to 9 kHz)

### [FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0  $\mu$ V/75  $\Omega$ )

50 dB Quieting Sensitivity:

16.3 dBf (1.8  $\mu$ V/75  $\Omega$ )

Alternate Channel Selectivity (400 kHz):

65 dB

Frequency Response: 40 to 15,000 Hz

Stereo Separation: 35 dB

Capture Ratio: 2.0 dB

### [AM Tuner]

Sensitivity: 20  $\mu$ V

Selectivity: 35 dB

## CASSETTE DECK SECTION

Wow & Flutter: 0.15% (WRMS)

Fast-Wind Time: 190 sec. (C-60)

Frequency Response:

50 to 14,000 Hz ( $\pm 3$  dB)

Signal-to-Noise Ratio: 52 dB

Stereo Separation: 40 dB

## GENERAL

Power Requirement

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

Grounding System: Negative ground

Dimensions (W x H x D)

Installation Size:

182 x 52 x 150 mm

(7-3/16" x 2-1/16" x 5-15/16")

Panel Size: 188 x 58 x 14 mm

(7-7/16" x 2-5/16" x 5/8")

Mass: 1.3 kg (2.9 lbs) (excluding accessories)

*Design and specifications subject to change without notice.*

If a kit is necessary for your car, consult your telephone directory for the nearest car audio speciality shop.



**Having TROUBLE with operation?  
Please reset your unit**

Refer to page of How to reset  
**Still having trouble??**

**USA ONLY**

**Call 1-800-252-5722**

**<http://www.jvcservice.com>**

**We can help you!**

**JVC**

VICTOR COMPANY OF JAPAN, LIMITED