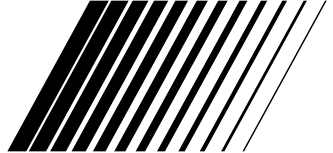


JVC



CASSETTE RECEIVER

KS-FX450

ENGLISH

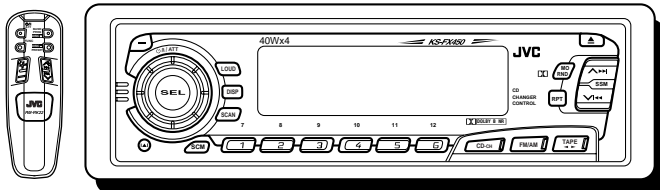
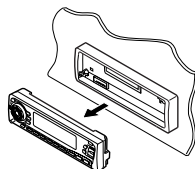
RECEPTOR-REPRODUCTOR DE CASSETTE KS-FX450

ESPAÑOL

RADIOCASSETTE

KS-FX450

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.

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. _____

INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MANUEL D'INSTRUCTIONS

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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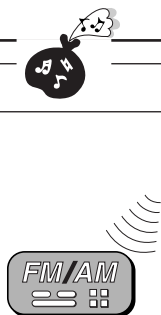
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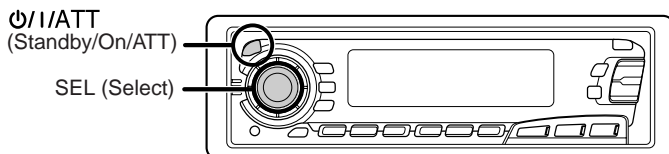






How to reset your unit

Press and hold both the SEL (Select) and /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.



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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.

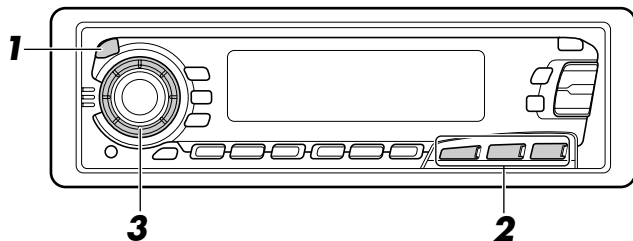
*** Temperature inside the car...**

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

ENGLISH



Note:

When you use this unit for the first time, set the built-in clock correctly. (See page 19.)

1

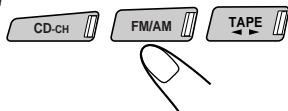


Turn on the power.
“HELLO” appears on the display.

Note on One-Touch Operation:

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

2



Select the source.

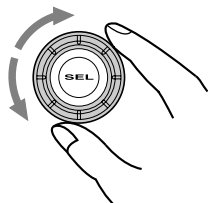
To operate the tuner, see pages 5 – 9.

To operate the cassette deck, see pages 10 – 13.

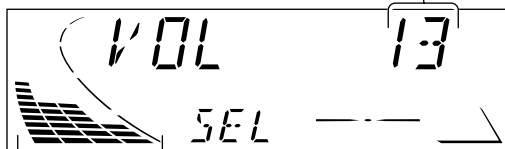
To operate the CD changer, see pages 25 – 27.

To operate the external component, see page 28.

3



Adjust the volume. Volume level appears



Volume level indicator

4

Adjust the sound as you want (see pages 14 – 18).

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.

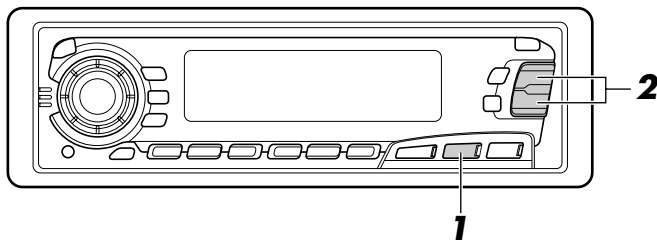
To resume the previous volume level, press the button briefly again.

To turn off the power

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



Listening to the radio

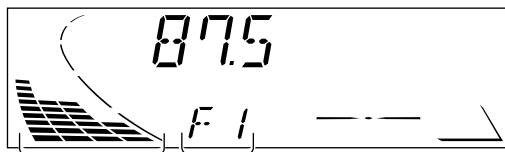
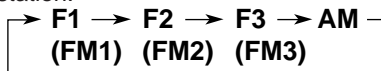


1



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

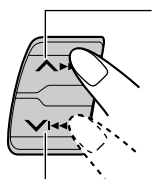
You can select any one of FM1, FM2, and FM3 to listen to an FM station.



Audio (see page 21) or volume level indicator

Selected band (or clock time: see page 19) appears

2



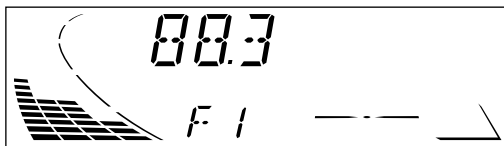
To search stations of higher frequencies

To search stations of lower frequencies

Start searching a station.

While searching stations, "SEEK" appears on the display.

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 without searching:

1 Press FM/AM repeatedly to select the band (FM or AM).

2 Press and hold $\blacktriangle\blacktriangleright\blacktriangleright$ or $\blacktriangleright\blacktriangle\blacktriangle\blacktriangleleft$ until "MANU (Manual)" starts flashing on the display.

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

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

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



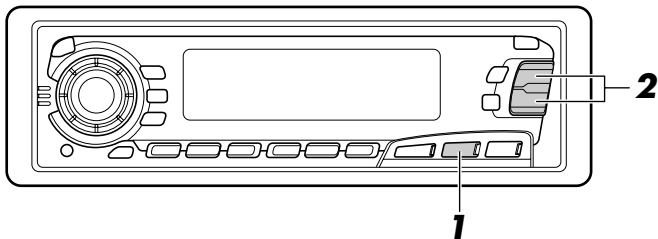
Storing stations in memory

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).



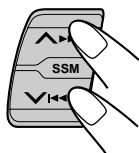
1



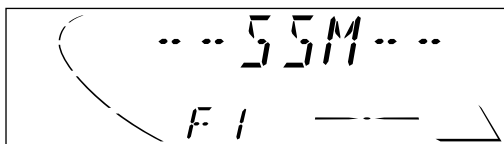
Select the FM band number (FM1, FM2 or FM3) you want to store FM stations into.



2



Press and hold both buttons for more than 2 seconds.



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

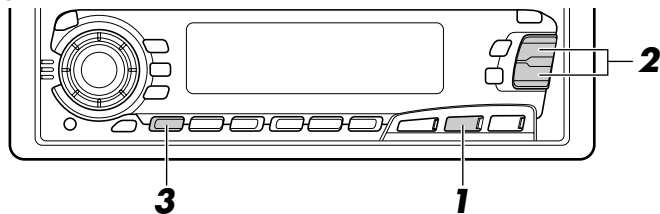
Local FM stations with the strongest signals are searched and stored automatically in the band number you have selected (FM1, FM2 or FM3). These stations are preset in the number buttons — No. 1 (lowest frequency) to No. 6 (highest frequency).

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

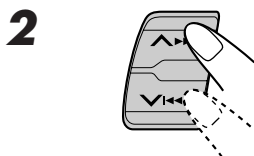
Manual preset

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

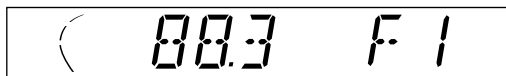
EXAMPLE: Storing an FM station of 88.3 MHz into the preset channel number 1 of the FM1 band



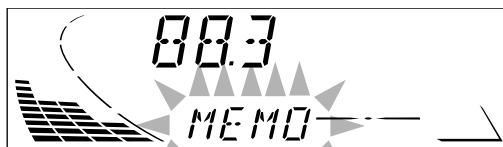
Select the FM1 band.



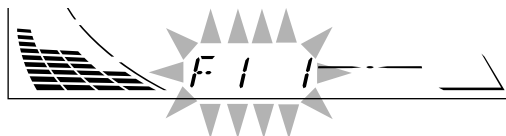
Tune into a station of 88.3 MHz.
See page 5 to tune into a station.



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



Selected band, preset number and "MEMO" flash alternately for a while.



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

Notes:

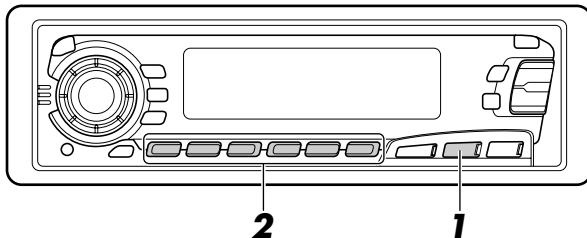
- A previously preset station is erased when a new station is stored in the same preset channel number.
- Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.



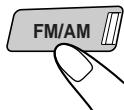
Tuning into a preset station

You can easily tune into a preset station.

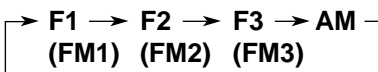
Remember that you must store stations first. If you have not stored them yet, see pages 6 and 7.



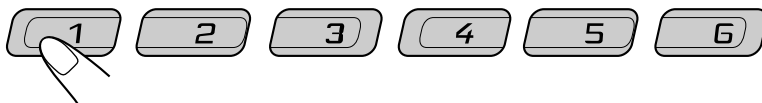
1



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

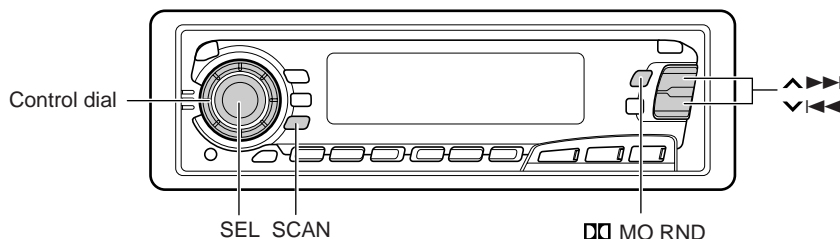


2



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

Other convenient tuner functions



Scanning broadcast stations

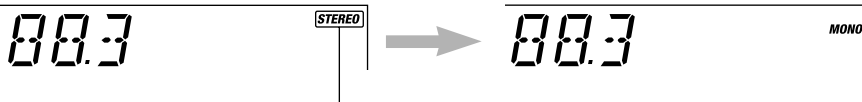
When you press SCAN while listening to the radio, station scanning starts. Each time a broadcast is tuned in, scanning stops for about 5 seconds (SCAN flashes on the display), and you can check what program is now being broadcasted.

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 (Dolby NR/Monaural/Random) while listening to an FM stereo broadcast. The MONO indicator lights up on the display. The sound you hear becomes monaural but reception will be improved.



Lights up 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.

- See also “Changing the general settings (PSM)” on page 20.

1. Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Select “AREA” with or .
3. Rotate the control dial clockwise.
 - “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 rotate the control dial counterclockwise in step 3 (“AREA US” appears on the display).

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

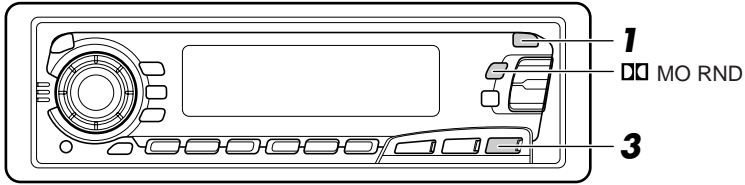
AREA US: Select this when used in North or South America.



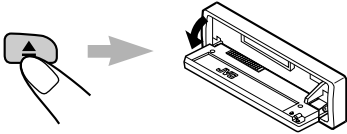
TAPE OPERATIONS

ENGLISH

Listening to a tape

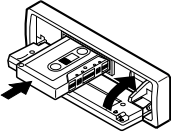


1



Open the control panel.

2



1. Insert a cassette into the cassette compartment.

The unit turns on and tape play starts automatically.

2. Close the control panel by hand.

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

Note on One-Touch Operation:

When a cassette is already in the cassette compartment, pressing TAPE ◀▶ turns on the unit and starts tape play automatically.

3



Select the tape direction.

Each time you press the button, the tape direction changes alternately – forward (FWD PLAY) and reverse (REV PLAY).

To play back tapes recorded with the Dolby B NR

Press MO RND (Dolby NR/Monaural/Random) to set the Dolby B NR* system. The MO RND indicator lights up, and "DOLBY B" appears on the display for several seconds.

To cancel the Dolby B NR, press the same button again.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol MO RND are trademarks of Dolby Laboratories Licensing Corporation.



To stop play and eject the cassette

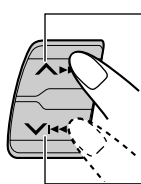
Press **▲**.

Tape play stops, the control panel opens, then the cassette automatically ejects from the cassette compartment.

If you change the source to FM, AM or CD changer, the tape play also stops (without ejecting the cassette this time).

- *You can also eject the cassette with the unit turned off.*

To fast-forward and rewind a tape



- Press **▲▶▶** for more than 1 second to fast-forward the tape.
When the tape reaches its end, the tape is reversed and playback starts from the beginning of the other side.

- Press **◀◀▼** for more than 1 second to rewind the tape.
When the tape reaches its end, playback of the same side starts.

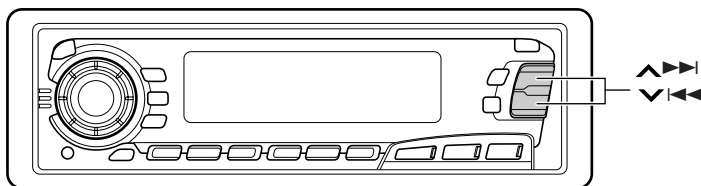
To stop fast forward and rewind at any position on the tape, press TAPE ◀▶.

Tape play starts from that position on the tape.

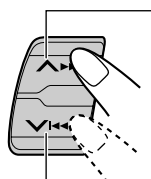


Finding the beginning of a tune

Multi Music Scan allows you to automatically start playback from the beginning of a specified tune. You can specify up to 9 tunes ahead of or before the current tune.



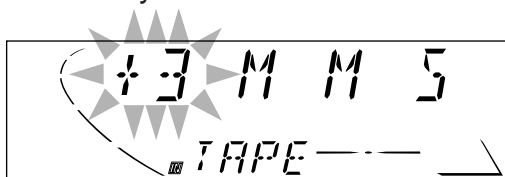
During playback



To locate a tune ahead of the current tune on the tape

To locate a tune before the current tune on the tape

Specify where (how many tunes ahead of or before the current tune) the tune you want is located.



Each time you set the tune, the number changes up to ± 9 .

When the beginning of the specified tune is located, playback starts automatically.

Notes:

- While locating a specified tune:
 - If the tape is rewound to its beginning, playback starts from the beginning of that side.
 - If the tape is fast-forwarded to the end, it is reversed and played from the beginning of the other side.
- In the following cases, the Multi Music Scan function may not operate correctly:
 - Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions between tunes.
 - Tapes with short non-recorded sections.
 - Tapes with high level of noise or humming between tunes.
 - The Dolby NR setting does not match. For example, if Dolby B NR is on and the tape was recorded with no Dolby NR.



Other convenient tape functions

Skipping the blank portions on the tape

You can skip blank portions between the tunes. (Blank Skip)

When this function is on, the unit skips blank portions of 15 seconds or more, fast-forwards to the next tunes, then starts playing it.

- See also “Changing the general settings (PSM)” on page 20.

1. Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Select “B SKIP (Blank Skip)” with $\blacktriangle\blacktriangleright\blacktriangleright$ or $\blacktriangleright\blacktriangleleft\blacktriangleleft$.
3. Select the desired mode with the control dial.
The Blank Skip mode alternates between on and off.

ON \leftrightarrow OFF

Note:

When the tape reaches its end while fast-forwarding, the tape direction will be changed automatically.

Playing the current tune repeatedly

You can play the current tune repeatedly. (Repeat Play)



Each time you briefly press RPT (Repeat) while playing a tape, Repeat Play turns on and off alternately.



Lights up when Repeat Play is turned on.

Notes:

- *In the following cases, Blank Skip and Repeat Play may not operate correctly:*
 - *Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions during tunes.*
 - *Tapes with short non-recorded sections.*
 - *Tapes with high level noise or humming between tunes.*
 - *The Dolby NR setting does not match. For example, if Dolby B NR is on and the tape was recorded with no Dolby NR.*

Prohibiting cassette ejection

You can prohibit the cassette ejection and can “lock” a cassette in the cassette compartment. Press and hold TAPE $\blacktriangleleft\blacktriangleright$ and ⏻/⏮/ATT for more than 2 seconds. “NO EJECT” flashes on the display for about 5 seconds, and the cassette is “locked.”

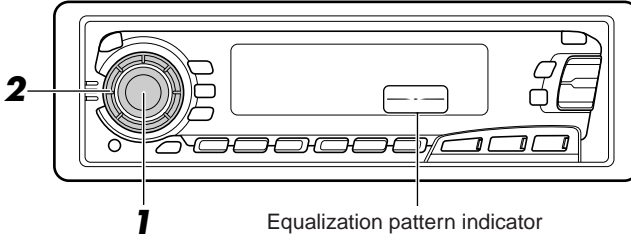
To cancel the prohibition and “unlock” the cassette, press and hold TAPE $\blacktriangleleft\blacktriangleright$ and ⏻/⏮/ATT for more than 2 seconds again. “EJECT OK” flashes for about 5 seconds, and this time the cassette is “unlocked.”

SOUND ADJUSTMENTS

ENGLISH

Adjusting the sound

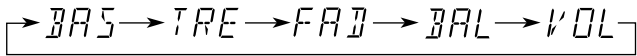
You can adjust the treble/bass sound and the speaker balance.



1



Select the item you want to adjust.

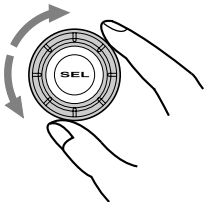


Indication	To do:	Range
BAS (Bass)	Adjust the bass	-06 (min.) — +06 (max.)
TRE (Treble)	Adjust the treble	-06 (min.) — +06 (max.)
FAD (Fader)*	Adjust the front and rear speaker balance	R06 (rear only) — F06 (front only)
BAL (Balance)	Adjust the left and right speaker balance	L06 (left only) — R06 (right only)
VOL (Volume)	Adjust the volume	00 (min.) — 50 (max.)

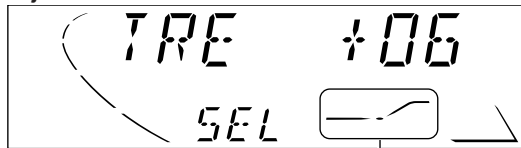
Note:

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

2



Adjust the level.



Equalization pattern changes as you adjust the bass or treble.

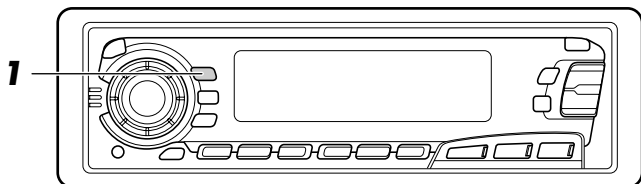
Note:

Normally the control dial works for volume adjustment. So you do not have to select “VOL” to adjust the volume level.



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 well-balanced sound at low volume level.

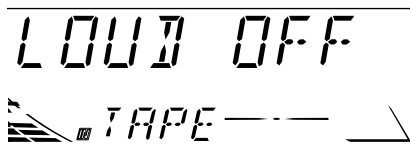
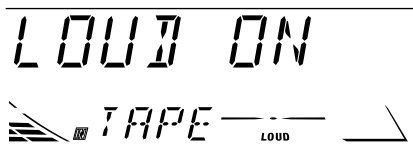


1



Turn on or off the loudness function.

Each time you press LOUD, the loudness function turns on and off alternately.





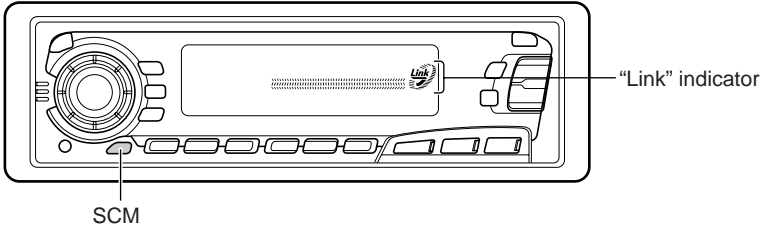
Using the Sound Control Memory

You can select and store a preset sound adjustment suitable to each playback source. (Advanced SCM)

Selecting and storing the sound modes

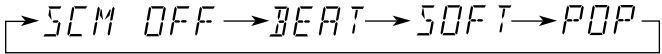
Once you select a sound mode, it is stored in memory, and will be recalled every time you select the same source. A sound mode can be stored each of the following sources — FM1, FM2, FM3, AM, tape, and external components.

- If you do not want to store the sound mode separately for each playback source, but want to use the same sound mode for all the sources, see “Canceling Advanced SCM” on page 21.



Select the sound mode you want.

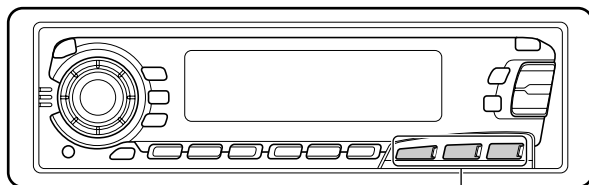
Each time you press the button, the sound mode changes as follows:



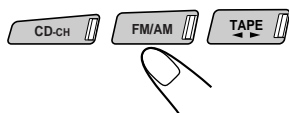
- If the “Link” indicator is lit on the display (with “SCM LINK” set to “LINK ON” — see page 21), the selected sound mode can be stored in memory for the current source, and the effect applies to the current source.
- If the “Link” indicator is NOT lit on the display (with “SCM LINK” set to “LINK OFF”), the selected sound mode effect applies to any source.

Indication	For:	Preset values		
		Bass	Treble	Loudness
SCM OFF	(Flat sound)	00	00	On
BEAT	Rock or disco music	+02	00	On
SOFT	Quiet background music	+01	-03	Off
POP	Light music	+04	+01	Off

Recalling the sound modes

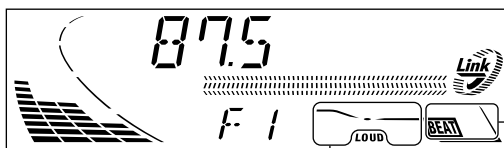


Source buttons



Select the source while the “Link” indicator is lit on the display.

The “Link” indicator starts flashing, and the sound mode stored in memory for the selected source is recalled.



Sound mode indicator

Equalization pattern of the selected sound mode appears.

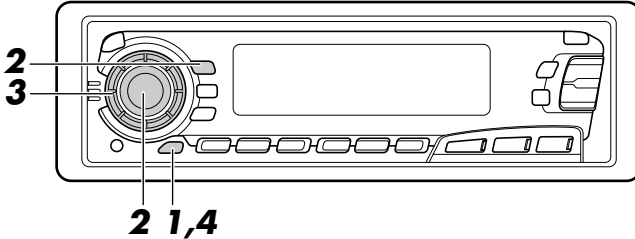
Notes:

- You can adjust each 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 18.
- To adjust the bass and treble reinforcement levels or to turn on/off the loudness function temporarily, see pages 14 and 15. (Your adjustments will be canceled if another source is selected.)



Storing your own sound adjustments

You can adjust the sound modes (BEAT, SOFT, POP: see page 16) to your preference and store your own adjustments in memory.



1



Call up the sound mode you want to adjust.
See page 16 for details.

**Within
5 seconds**

2



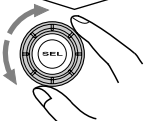
To adjust the bass or treble sound level
Select "BAS" or "TRE."



To turn on or off the loudness function
See page 15 for details.

**Within
5 seconds**

3



Adjust the bass or treble level.
See page 14 for details.

**Within
5 seconds**

4



Press and hold SCM (Sound Control Memory)
until the sound mode you have selected
flashes on the display.
Your setting is stored in memory.

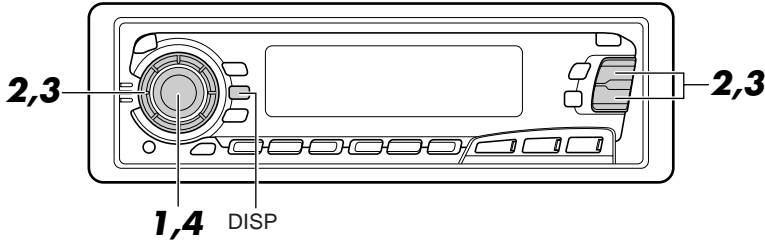
5


Repeat the same procedure to store other settings.


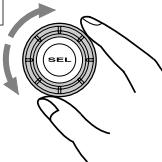
To reset to the factory settings

Repeat the same procedure and reassign the preset values listed in the table on page 16.


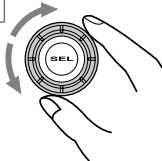
Setting the clock




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

2   Set the hour.

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

3   Set the minute.

- 1 Select "CLOCK M (Minute)."
- 2 Adjust the minute.

4  Finish the setting.

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:

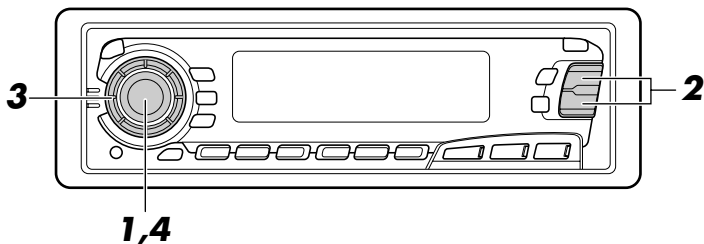
<p>During tuner operation: Band ↔ Clock</p>	<p>During tape operation: TAPE ↔ Clock</p>
<p>During CD changer operation: Disc number ↔ Clock</p>	<p>During external component operation: Clock appears and disappears alternately.</p>

- If the unit is not in use when you press DISP, the power turns on, the clock time is shown for 5 seconds, then the power turns off.

Changing the general settings (PSM)

You can change the items listed on the next page by using the PSM (Preferred Setting Mode) control.

Basic Procedure



1



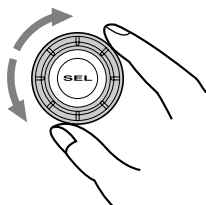
Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.

2



Select the PSM item you want to adjust. (See page 21.)

3





Select or adjust the PSM item selected above.

4



Finish the setting.

1	2	3		Factory-preset settings	See page
	Select.				
CLOCK H	Hour adjustment	Back	Advance	0:00	19
CLOCK M	Minute adjustment	Back	Advance		
SCM LINK	Sound control memory linkage	LINK OFF	LINK ON	LINK ON	below
LEVEL	Level display	AUDIO 1 ↕	AUDIO 2 ↕ OFF	AUDIO 2	below
DIMMER	Dimmer	AUTO ↕	OFF ↕ ON	AUTO	22
AREA	Channel interval	AREA US	AREA EU	AREA US	9
B. SKIP	Blank skip	OFF	ON	OFF	13
LINE IN*	External component	CHANGER	LINE IN	CHANGER	28

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







- Press SEL (select) when the setting is complete.

Canceling Advanced SCM

You can cancel the Advanced SCM (Sound Control Memory), and unlink the sound modes and the playback sources.

When shipped from the factory, a different sound mode can be stored in memory for each source so that you can change the sound modes simply by changing the sources.

- LINK ON: Advanced SCM (different sound modes for different sources)
- LINK OFF: Conventional SCM (one sound mode for all sources)

1. Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Select “SCM LINK” with    or   .
3. Select the desired mode with the control dial.

The SCM LINK mode changes as follows:







LINK ON   **LINK OFF**

Selecting the level display

You can select the level display according to your preference.

When shipped from the factory, “AUDIO 2” is selected.

- AUDIO 1: Shows the audio level indicator and the equalization pattern indicator.
- AUDIO 2: Alternates “AUDIO 1” setting and illumination display.
- OFF: Erases the audio level indicator and the equalization pattern indicator.

1. Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Select “LEVEL” with    or   .
3. Select the desired mode with the control dial.

The level display setting changes as follows:

AUDIO 1   **AUDIO 2**   **OFF** 

Selecting the dimmer mode

When you turn on the car head lights, the display automatically dims (Auto Dimmer). When shipped from the factory, Auto Dimmer mode is activated.

- **AUTO:** Activates Auto Dimmer.
- **ON:** Always dims the display.
- **OFF:** Cancels Auto Dimmer.

1. Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Select "DIMMER" with **▲▶▶▶** or **▼◀◀◀**.
3. Select the desired mode with the control dial.
The dimmer mode changes as follows:



Note on Auto Dimmer:

Auto Dimmer equipped with this unit may not work correctly on some vehicles, particularly on those having a control dial for dimming.

In this case, set the dimmer mode to "ON" or "OFF".

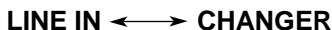
Selecting the external component to use

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

To use the external component as the playback source through this unit, you need to select which component — CD changer or external component — to use. When shipped from the factory, CD changer is selected as the external component.

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

1. Change the source to FM, AM or tape with **FM/AM** or **TAPE** **◀▶**.
2. Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
3. Select "LINE IN" with **▲▶▶▶** or **▼◀◀◀**.
4. Select the desired mode with the control dial.
The external component selecting mode changes as follows:



Note:

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

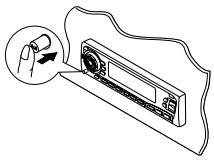
Detaching the control panel

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.

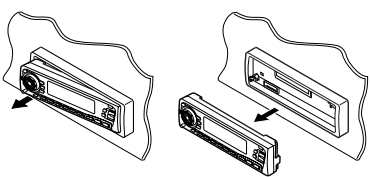
How to detach the control panel

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

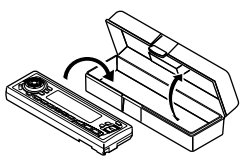
1 Unlock the control panel.



2 Pull the control panel out of the unit.

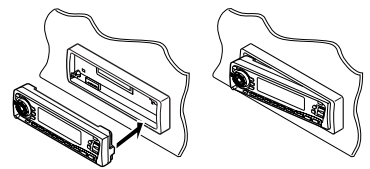


3 Put the detached control panel into the provided case.

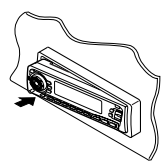


How to attach the control panel

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



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



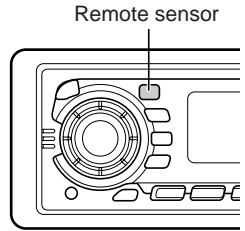
Note on cleaning the connectors:
 If you frequently detach the control panel, the connectors will deteriorate. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.

Connectors

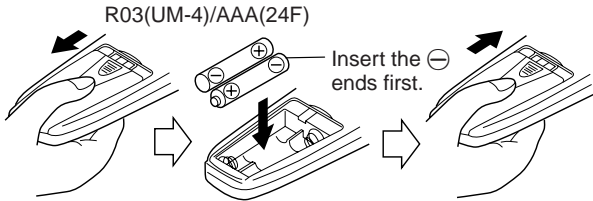
REMOTE OPERATIONS

Before using the remote controller:

- Aim the remote controller directly at the remote sensor on the main unit. Make sure there is no obstacle in between.
- Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).

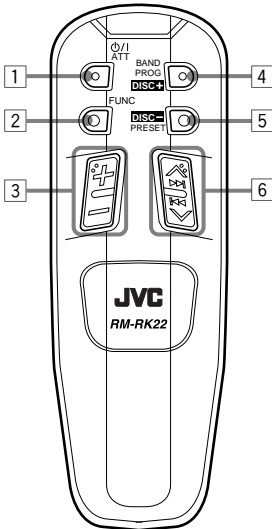


Installing the batteries



When the controllable range or effectiveness of the remote controller decreases, replace the batteries – R03(UM-4)/AAA(24F).

Using the remote controller



Note:

* This button does not function for the preferred setting mode adjustment.

- 1 Functions the same as the O/I/ATT button on the main unit.
- 2 Selects the source.
Each time you press FUNC (Function), the source changes.
- 3 * Functions the same as the control dial on the main unit.
- 4 • Functions as the BAND button while listening to the radio. Each time you press the button, the band changes.
• Functions as the DISC + button while listening to the CD changer. Each time you press the button, the disc number increases, and selected disc starts playing.
• Functions as the PROG button while listening to a tape. Each time you press the button, the tape direction changes alternately.
- 5 • Functions as the PRESET button while listening to the radio. Each time you press the button, the preset station number increases, and selected station is tuned in.
• Functions as the DISC – button while listening to the CD changer. Each time you press the button, the disc number decreases, and selected disc starts playing.
- 6 • Searches stations while listening to the radio.
• Functions as the fast forward or rewind buttons or Multi Music Scan buttons while listening to a tape.
• Fast-forwards or reverses the track if pressed and held while listening to the CD.
• Skips to the beginning of the next tracks or go back to the beginning of the current (or previous tracks) if pressed briefly while listening to the CD.

CD CHANGER OPERATIONS



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

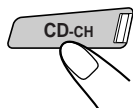
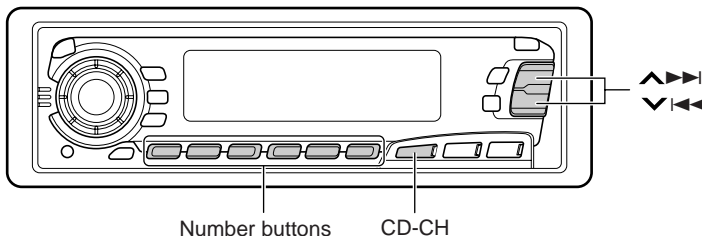
If you have another CD automatic changer, consult your JVC car audio dealer for connections.

- 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:

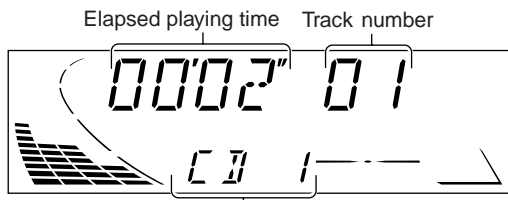
- Refer also to the Instructions supplied with your CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "NO DISC" will appear on the display. If this happens, remove the magazine and set the discs correctly.
- If "RESET 1 - RESET 8" appears on the display, 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



Select the CD automatic changer.

Playback starts from the first track of the first disc.
All tracks of all discs are played back.



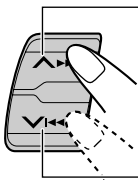
Disc number (or clock time: see page 19) appears.

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.



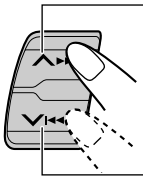
To fast-forward or reverse the track



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 tracks or the previous tracks



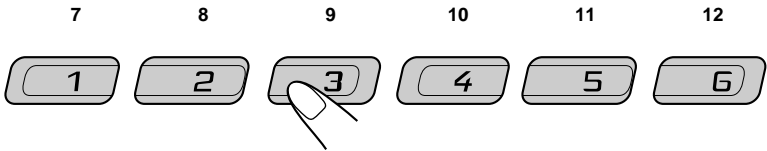
Press **▶▶▶** briefly, while playing a CD, to go ahead to the beginning of the next track.

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

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

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

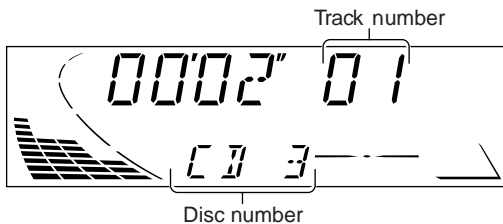
To go to a particular disc directly



Press the number button corresponding to the disc number to start its playback (while the CD changer is playing).

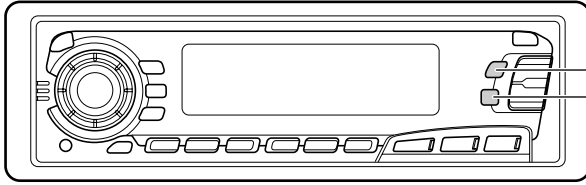
- To select a disc number from 1 – 6:
Press 1 (7) – 6 (12) briefly.
- To select a disc number from 7 – 12:
Press and hold 1 (7) – 6 (12) for more than 1 second.

Ex. When disc number 3 is selected



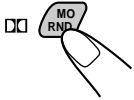


Selecting CD playback modes



MO RND
RPT

To play back tracks at random (Random Play)



Each time you press MO RND (Dolby NR/Monaural/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 (Repeat) 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).

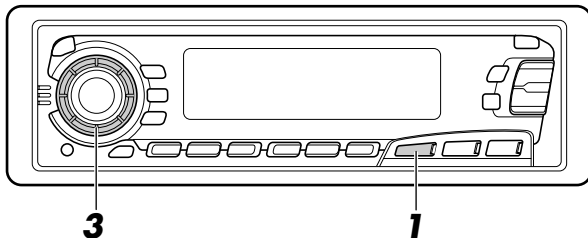


EXTERNAL COMPONENT OPERATIONS

ENGLISH

Playing an external component

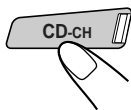
You can connect the external component to the CD changer jack on the rear using the Line Input Adaptor KS-U57 (not supplied).



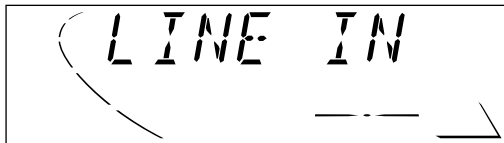
Preparations:

- For connecting the Line Input Adaptor KS-U57 and the external component, refer to the Installation/Connection Manual (separate volume).
- Before operating the external component using the following procedure, select the external input correctly. (See “Selecting the external component to use” on page 22.)

1




Select the external component.



- If “LINE IN”^{*} does not appear on the display, see page 22 and select the external input (“LINE IN”).

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

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.

2

Turn on the connected component and start playing the source.

3

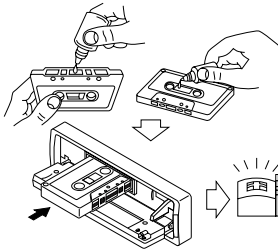


Adjust the volume.

To extend the lifetime of the unit

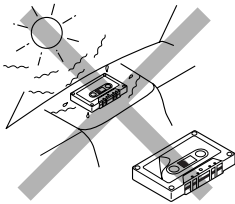
This unit requires very little attention, but you will be able to extend the life of the unit if you follow the instructions below.

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.*

The function below is also provided to ensure the longer life of this unit.

Ignition key-off Release/Ignition key-on play

- When you turn off the ignition key with a cassette in the compartment, the unit automatically releases the tape from its head.
- When you turn on the ignition key with a cassette in the compartment, playback automatically starts.



TROUBLESHOOTING

ENGLISH

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

Symptoms	Causes	Remedies
<ul style="list-style-type: none"> 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.
<ul style="list-style-type: none"> Cassette tapes become hot. 	This is not a malfunction.	_____
<ul style="list-style-type: none"> Tape sound is at very low level and sound quality is degraded. 	The tape head is dirty.	Clean it with a head cleaning tape.
<ul style="list-style-type: none"> Sound is sometimes interrupted. 	Connections are not good.	Check the cords and connections.
<ul style="list-style-type: none"> Sound cannot be heard from the speakers. 	The volume is turned to the minimum level.	Adjust it to the optimum level.
	Connections are incorrect.	Check the cords and connections.
<ul style="list-style-type: none"> SSM (Strong-station Sequential Memory) automatic preset does not work. 	Signals are too weak.	Store stations manually.
<ul style="list-style-type: none"> Static noise while listening to the radio. 	The antenna is not connected firmly.	Connect the antenna firmly.
<ul style="list-style-type: none"> "NO DISC" appears on the display. 	No CD is in the magazine.	Insert CDs into the magazine.
	CDs are inserted incorrectly.	Insert them correctly.
<ul style="list-style-type: none"> "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.
<ul style="list-style-type: none"> "RESET 1 - RESET 7" appears on the display. 	_____	Press the reset button of the CD changer.
<ul style="list-style-type: none"> This unit does not work at all. The CD changer does not work at all. 	The built-in microcomputer may function incorrectly due to noise, etc.	Press and hold both the SEL (Select) and /I/ATT (Standby/On/ATT) buttons at the same time for several seconds. (The clock setting and preset stations stored in memory are erased.) (See page 2.)

SPECIFICATIONS

AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 40 W per channel

Rear: 40 W per channel

Continuous Power Output (RMS):

Front: 16 W per channel into 4 Ω , 40Hz to 20,000 Hz at no more than 0.8% total harmonic distortion.

Rear: 16 W per channel into 4 Ω , 40Hz to 20,000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)

Tone Control Range

Bass: ± 10 dB at 100 Hz

Treble: ± 10 dB at 10 kHz

Frequency Response: 40 Hz to 20,000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Out Level/Impedance:

2.0 V/20 k Ω load (250 nWb/m)

TUNER SECTION

Frequency Range

FM: 87.5 MHz to 107.9 MHz

(with channel interval set to 200 kHz)

87.5 MHz to 108.0 MHz

(with channel interval set to 50 kHz)

AM: 530 kHz to 1,710 kHz

(with channel interval set to 10 kHz)

531 kHz to 1,602 kHz

(with channel interval set to 9 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

[AM Tuner]

Sensitivity: 20 μ V

Selectivity: 35 dB

CASSETTE DECK SECTION

Wow & Flutter: 0.11% (WRMS)

Fast-Wind Time: 100 sec. (C-60)

Frequency Response (Dolby NR-OFF):

30 Hz to 16,000 Hz (Normal tape)

Signal-to-Noise Ratio: (Normal tape)

(Dolby NR-ON): 65 dB

(Dolby NR-OFF): 56 dB

Stereo Separation: 40 dB

GENERAL

Power Requirement

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

Allowable Working Temperature:

0°C to +40°C (32°F to 104°F)

Grounding System: Negative ground

Dimensions (W x H x D)

Installation Size:

182 mm x 52 mm x 150 mm

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

Panel Size: 188 mm x 58 mm 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