

JVC



ENGLISH

DEUTSCH

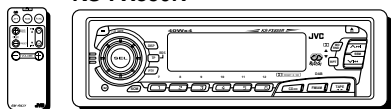
FRANÇAIS

NEDERLANDS

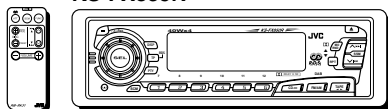
CASSETTE RECEIVER
CASSETTEN-RECEIVER
RADIOCASSETTE
RADIO/CASSETTESPELER

KS-FX850R/KS-FX835R **KS-FX834R/KS-FX820R**

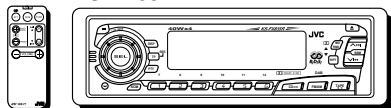
KS-FX850R



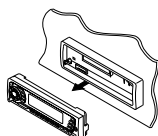
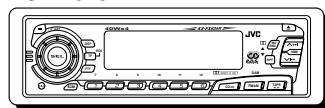
KS-FX835R



KS-FX834R



KS-FX820R



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

INSTRUCTIONS

BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEbruIKSAANWIJZING

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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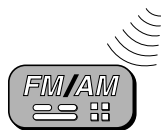
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BEFORE USE

* 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.

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
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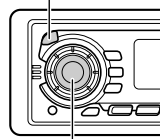
How to reset your unit

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

/ATT
(Standby/On/ATT)



SEL (Select)

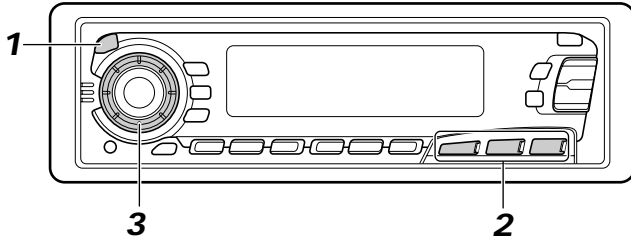
Note:

For security reasons, a numbered ID card is provided with this unit, and the same ID number is imprinted on the unit's chassis. Keep the card in a safe place, as it will help the authorities to identify your unit if stolen.



BASIC OPERATIONS

ENGLISH



Note:

When you use this unit for the first time, set the built-in clock correctly. (See page 25.)

1

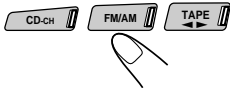


Turn on the power.

Note on One-Touch Operation:

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

2



Select the source.

To operate the tuner, see pages 5 – 16.

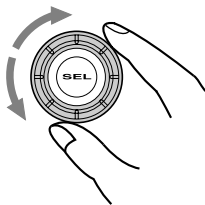
To operate the cassette deck, see pages 17 – 20.

To operate the CD changer, see pages 34 – 36.

To operate the external component, see page 37.

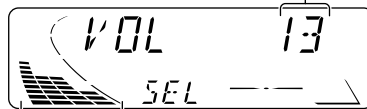
To operate the DAB tuner, see pages 38 – 43.

3



Adjust the volume.

Volume level appears.



Volume level indicator

4

Adjust the sound as you want (see pages 21 – 24).

To drop the volume in a moment

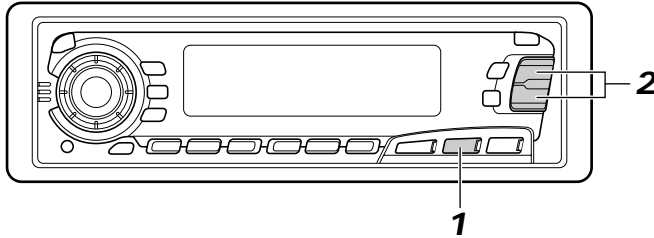
Press /ATT briefly while listening to any source. “ATT” starts flashing on the display, and the volume level will drop in a moment.

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

To turn off the power

Press /ATT for more than 1 second.

Listening to the radio

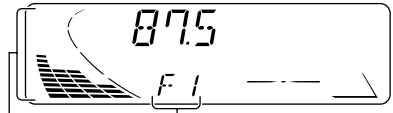
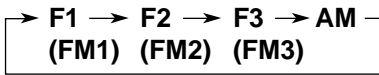


1



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

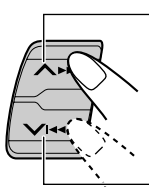
You can select any one of FM1, FM2, and FM3 to listen to an FM station.



Audio (see page 28) or volume level indicator

Selected band (or clock time: see page 28) appears.

2

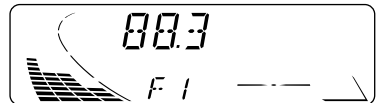


To search stations of higher frequencies.

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 without searching:

- 1 Press FM/AM repeatedly to select the band (FM or AM).
- 2 Press and hold or until "MANU (manual)" starts flashing on the display. Now you can manually change the frequency while "MANU" is flashing.
- 3 Press or repeatedly until the frequency you want is reached.
 - If you hold down the button, the frequency keeps changing (in 50 kHz intervals for FM and 9 kHz intervals for AM-MW/LW) until you release the button.



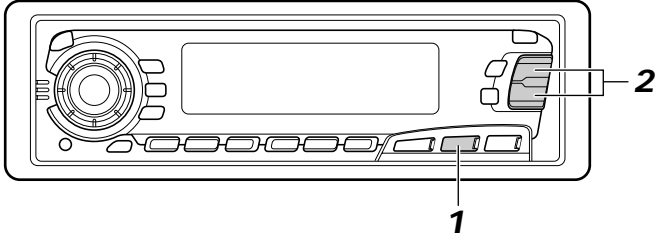
Storing stations in memory

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).



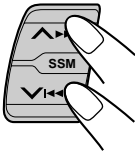
1



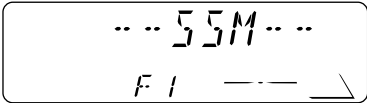
Select the FM band number (FM1, FM2 or FM3) you want to store FM stations into.



2



Press and hold both buttons for more than 2 seconds.



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

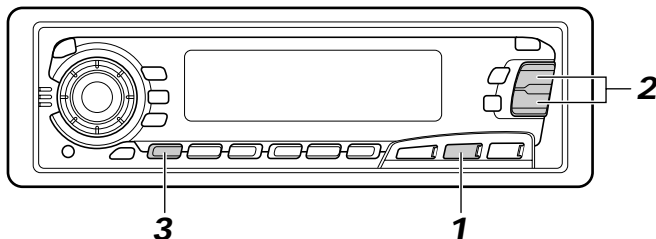
Local FM stations with the strongest signals are searched and stored automatically in the band number you have selected (FM1, FM2 or FM3). These stations are preset in the number buttons — No. 1 (lowest frequency) to No. 6 (highest frequency).

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

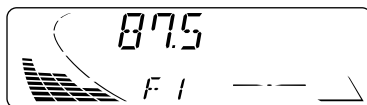
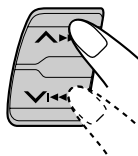
Manual preset

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 number 1 of the FM1 band

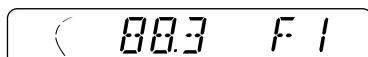

1


Select the FM1 band.

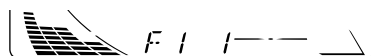

2


Tune into a station of 88.3 MHz.

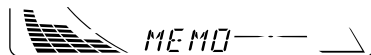
See page 5 to tune into a station.


3


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



Band/preset number and "MEMO" flash alternately for a while.


4

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

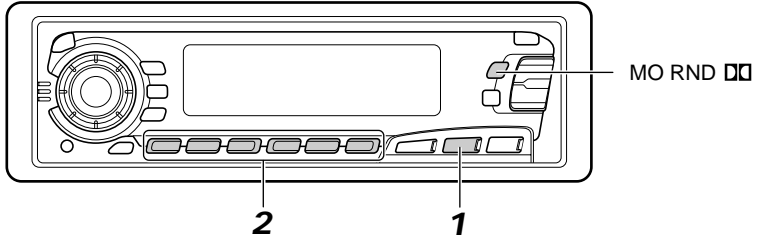
Notes:

- 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

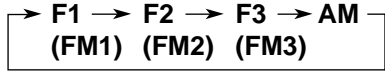
You can easily tune into a preset station. Remember that you must store stations first. If you have not stored them yet, see pages 6 and 7.



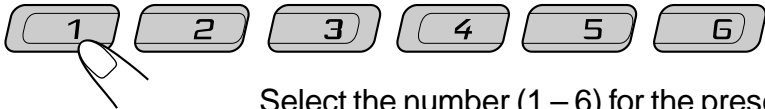
1



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



2



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

When an FM stereo broadcast is hard to receive:

Press MO RND (Monaural/Random/Dolby) while listening to an FM stereo broadcast. The MONO (Monaural) 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 button again.



What you can do with RDS EON

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals. For example, the stations send their station names, as well as information about what type of programme they broadcast, such as sports or music, etc. Another advantage of RDS function is called "EON (Enhanced Other Networks)." The EON indicator lights up while receiving an FM station with the EON data. By using the EON data sent from a station, you can tune into a different station of a different network broadcasting your favorite programme or traffic announcement while listening to another programme or to another source such as tape.

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

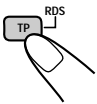
- Tracing the same programme automatically (Network-Tracking Reception)
- Standby Reception of TA (Traffic Announcement) or your favorite programme
- PTY (Programme Type) search
- TP (Traffic Programme) search
- And some other functions

Tracing the same programme automatically (Network-Tracking Reception)

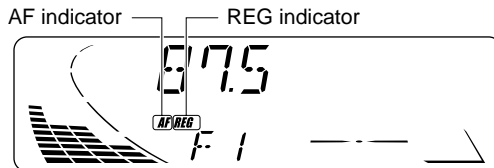
When driving in an area where FM reception is not good, the tuner built in this unit automatically tune in another RDS station, broadcasting the same programme with stronger signals. So, you can continue to listen to the same programme in its finest reception, no matter where you drive. (See the illustration on the next page.)

Two types of the RDS data are used to make Network-Tracking Reception work correctly — PI (Programme Identification) and AF (Alternative Frequency).

Without receiving these data correctly from the RDS station you are listening to, Network-Tracking Reception will not operate.



To use Network-Tracking Reception, press and hold TP RDS (Traffic Programme/Radio Data System) for more than 1 second. Each time you press and hold the button, Network-Tracking Reception modes change as follows:





Mode 1

The AF indicator lights up but the REG indicator does not. Network-Tracking is activated with Regionalization set to “off.” Switches to another station within the same network when the receiving signals from the current station become weak.

Note:

In this mode, the programme may differ from the one currently received.

Mode 2

Both the AF indicator and the REG indicator light up. Network-Tracking is activated with Regionalization set to “on.” Switches to another station, within the same network, broadcasting the same programme when the receiving signals from the current station become weak.

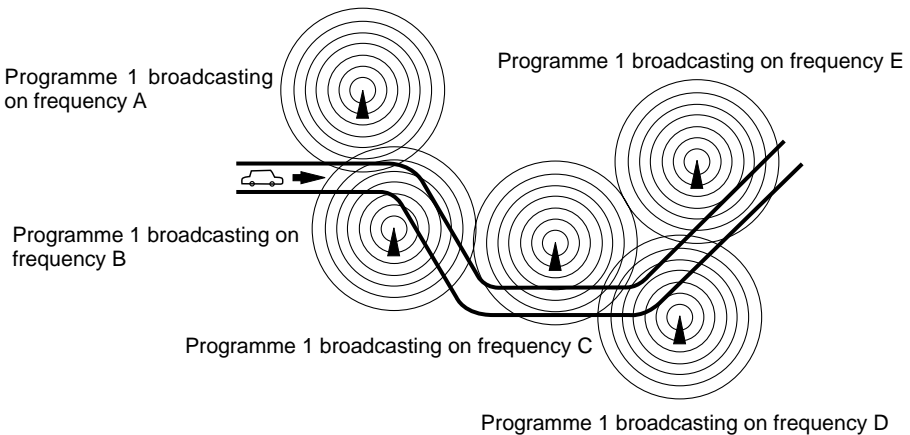
Mode 3

Neither the AF indicator nor the REG indicator lights up. Network-Tracking is deactivated.

Note:

If a DAB tuner is connected and Alternative Reception (for DAB services) is activated, Network-Tracking Reception is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception. (See page 43.)

The same programme can be received on different frequencies.





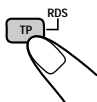
Using Standby Reception

Standby Reception allows the unit to switch temporarily to your favorite programme (PTY: Programme Type) and Traffic Announcement (TA) from the current source (another FM station, tape, CD and other connected components).

Note:

Standby Reception will not work if you are listening to an AM station.

TA Standby Reception



- When you press TP RDS while listening to an FM station, the TP indicator is lit during reception of a TP (Traffic Programme) station and the TA standby mode is engaged.

Note:

When the station being received is not a TP station, the TP indicator flashes. Press ▲▶▶▶ or ▼◀◀◀ to engage the TA standby mode. "SEARCH" appears on the display, and TP station search starts. When a TP station is tuned in, the TP indicator is lit.

- If you are listening to a tape or CD, and wish to listen to a TP station, press TP RDS to enter the TA standby mode. (The TP indicator lights up.)

If a traffic programme starts broadcasting while the TA standby mode is active, "TRAFFIC" appears and the playback source changes to the FM band. The volume increases to the preset TA volume level and the traffic programme can be heard (see page 16).

To deactivate the TA standby mode, press TP RDS again.

PTY Standby Reception



- When you press PTY while listening to an FM station, the PTY indicator is lit during reception of a PTY station and the PTY standby mode is engaged. The selected PTY name stored on page 13 flashes for 5 seconds.

Note:

When the station being received is not a PTY station, the PTY indicator flashes. Press ▲▶▶▶ or ▼◀◀◀ to engage the PTY standby mode. "SEARCH" appears on the display, and PTY station search starts. When a PTY station is tuned in, the PTY indicator is lit.

- If you are listening to a tape or CD, and wish to listen to a selected PTY broadcast, press PTY to enter the PTY standby mode. (The PTY indicator lights up.)

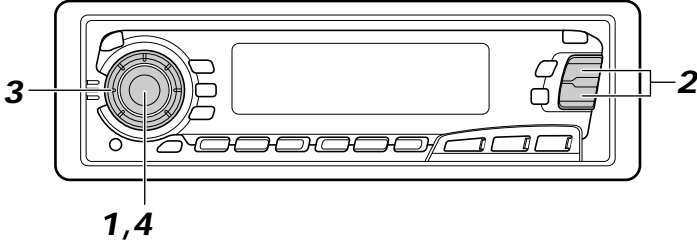
If the selected PTY programme starts broadcasting while the PTY standby mode is active, the selected PTY name appears and the playback source changes to the FM band. The selected PTY programme can then be heard.

To deactivate the PTY standby mode, press PTY again.



Selecting Your Favorite Programme for PTY Standby Reception

You can select your favorite programme for PTY Standby Reception to store in memory. When shipped from the factory, "NEWS" is stored as the programme type for PTY Standby Reception.

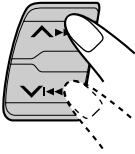


1



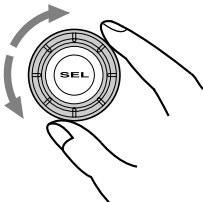
Press and hold SEL (select) for more than 2 seconds to call up the Preferred Setting Mode (PSM: see page 26).

2



Select "PTY STBY (standby)" if not shown on the display.

3



Select one of twenty-nine PTY codes. (See page 15.)
Selected code name appears on the display and is stored into memory.

4



Finish the setting.

Searching Your Favorite Programme

You can search one of your 6 favorite programme types stored in memory. When shipped from the factory, the following 6 programme types have been stored in the number buttons (1 to 6).

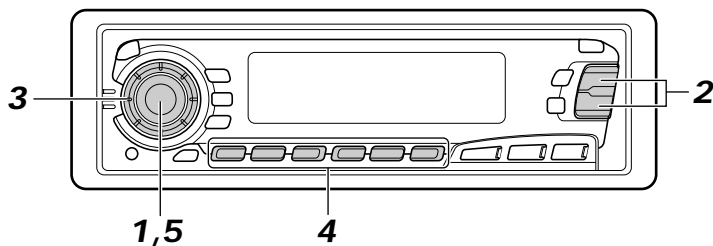
To change the factory preset settings, see page 13.


To search your favorite programme, see page 14.

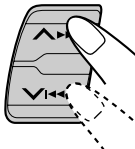
1	2	3	4	5	6
POP M	ROCK M	EASY M	CLASSICS	AFFAIRS	VARIED




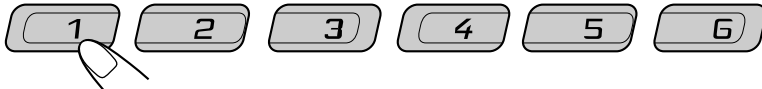
To store your favorite programme types




- 1**  Press and hold SEL (select) for more than 2 seconds to call up the Preferred Setting Mode (PSM: see page 26).

- 2**  Select "PTY SRCH (search)" if not shown on the display.

- 3**  Select one of twenty-nine PTY codes. (See page 15.)
Selected code name appears on the display.
• If the code already stored in memory is selected, it will flash on the display.

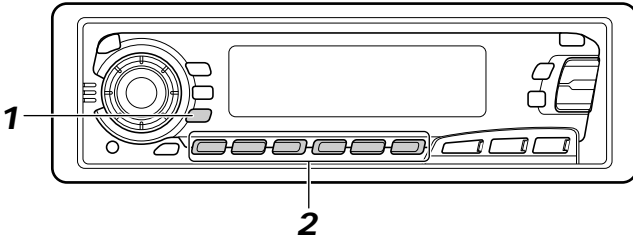
- 4** 

Press and hold the number button for more than 2 seconds to store the PTY code selected into the preset number you want. PTY preset number appears, and selected code name and "MEMORY" alternates on the display.

- 5**  Finish the setting.



To search your favorite programme type

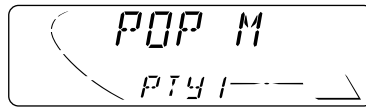


1

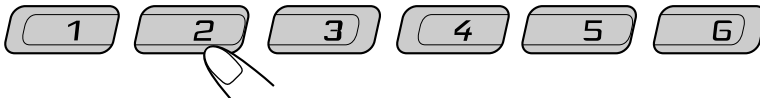


Press and hold **PTY** (programme type) for more than 1 second while listening to an FM station.

The last selected **PTY** code and preset number appear.



2



Select one of **PTY** codes stored in preset number buttons (1 to 6).



Ex. When "ROCK M" is stored in preset number button 2.

PTY search for your favorite programme starts after 5 seconds.

- If there is a station broadcasting a programme of the same **PTY** code you selected, that station is tuned in.
- If there is no station broadcasting a programme of the same **PTY** code you selected, the station will not change.

Note:

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



Other convenient RDS functions and adjustments

Automatic selection of the station when using the number buttons

Usually when you press the number button, the preset station is tuned in.

However, when the preset station is an RDS station, something different will happen. If the signals from that preset station are not sufficient for good reception, this unit, using the AF data, tunes in another frequency broadcasting the same programme as the original preset station is broadcasting. In case no other station is tuned in, you can also search all receivable frequencies for the same programme. (Programme search) To activate programme search, follow the procedure below.

- Programme search takes a while.
- See also "Changing the general settings (PSM)" on page 26.

1. Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Press **▲▶▶** or **▼◀◀** to select "P(programme)-SEARCH."
3. Select "ON" by turning the control dial clockwise.
Now programme search is activated.

To cancel programme search, repeat the same procedure and select "OFF" in step 3 by turning the control dial counterclockwise.

PTY codes

NEWS:	News	SOCIAL:	Programmes on social activities
AFFAIRS:	Topical programmes expanding on current news or affairs	RELIGION:	Programmes dealing with any aspect of belief or faith, or the nature of existence or ethics
INFO:	Programmes which impart advice on a wide variety of topics	PHONE IN:	Programmes where people can express their views either by phone or in a public forum
SPORT:	Sport events	TRAVEL:	Programmes about travel destinations, package tours, and travel ideas and opportunities
EDUCATE:	Educational programmes	LEISURE:	Programmes concerned with recreational activities such as gardening, cooking, fishing, etc.
DRAMA:	Radio plays	JAZZ:	Jazz music
CULTURE:	Programmes on national or regional culture	COUNTRY:	Country music
SCIENCE:	Programmes on natural science and technology	NATION M:	Current popular music from another nation or region, in that country's language
VARIED:	Other programmes like comedies or ceremonies	OLDIES:	Classic pop music
POP M:	Pop music	FOLK M:	Folk music
ROCK M:	Rock music	DOCUMENT:	Programmes dealing with factual matters, presented in an investigative style
EASY M:	Easy-listening music		
LIGHT M:	Light music		
CLASSICS:	Classical music		
OTHER M:	Other music		
WEATHER:	Weather information		
FINANCE:	Reports on commerce, trading, the Stock Market, etc.		
CHILDREN:	Entertainment programmes for children		



Changing the display mode while listening to an FM station

You can change the initial indication on the display to either station name (PS NAME) or to station frequency (FREQ), while listening to an FM RDS station.

- See also “Changing the general settings (PSM)” on page 26.

1. Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Select “TU DISP (tuner display)” with $\blacktriangle\blacktriangleright\blacktriangleright$ or $\blacktriangleright\blacktriangleleft\blacktriangleleft$.
3. Set to the desired indication (“PS NAME” or “FREQ”) with the control dial.

Note:

By pressing DISP, you can also change the display while listening to an FM RDS station.

Each time you press the button, the following information appears on the upper part of the display:



** Then, the display goes back to the original indication in several seconds.*

Setting the TA volume level

You can preset the volume level for TA Standby Reception. When a traffic programme is received, the volume level automatically changes to the preset level.

- See also “Changing the general settings (PSM)” on page 26.

1. Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Select “TA VOL (volume)” with $\blacktriangle\blacktriangleright\blacktriangleright$ or $\blacktriangleright\blacktriangleleft\blacktriangleleft$.
3. Set to the desired volume with the control dial.

Automatic clock adjustment

When shipped from the factory, the clock built in this unit is set to be readjusted automatically using the CT (Clock Time) data in the RDS signal.

If you do not want to use automatic clock adjustment, follow the procedure below.

- See also “Changing the general settings (PSM)” on page 26.

1. Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Select “AUTO ADJ (adjust)” with $\blacktriangle\blacktriangleright\blacktriangleright$ or $\blacktriangleright\blacktriangleleft\blacktriangleleft$.
3. Select “OFF” by turning the control dial counterclockwise.
Now automatic clock adjustment is canceled.

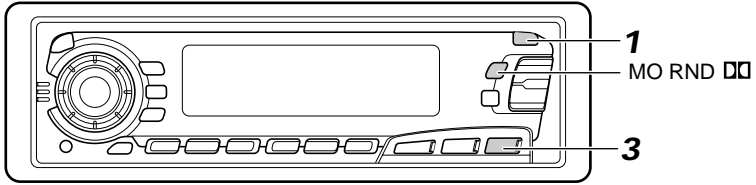
To reactivate clock adjustment, repeat the same procedure and select “ON” in step 3 by turning the control dial clockwise.

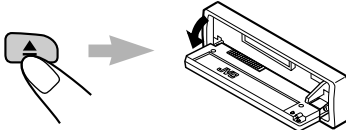
Note:

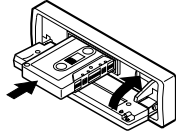
It takes about 2 minutes to adjust the time using the CT data. So, you must tune to the station for more than 2 minutes continuously; otherwise, the clock time will not be adjusted.



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 the MO RND button to set the Dolby B NR* system as required in step 2 above. The button 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 are trademarks of Dolby Laboratories Licensing Corporation.



To stop play and eject the cassette

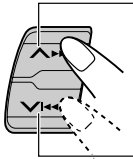
Press ▲.

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

If you change the source to FM, AM, CD changer or other connected component, 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.

Prohibiting cassette ejection

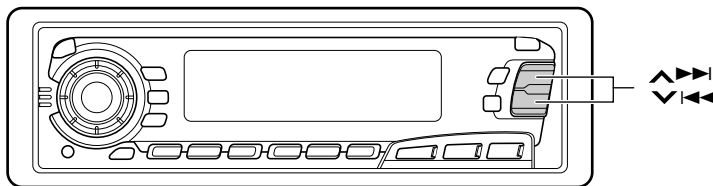
You can prohibit the cassette ejection and can “lock” a cassette in the cassette compartment. Press and hold TAPE ◀▶ and ⏸/ATT for more than 2 seconds. “NO EJECT” flashes on the display for about 5 seconds, and the cassette is “locked.”

To cancel the prohibition and “unlock” the cassette, press and hold TAPE ◀▶ and ⏸/ATT for more than 2 seconds again. “EJECT OK” flashes for about 5 seconds, and this time the cassette is “unlocked.”

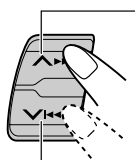


Finding the beginning of a tune

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 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 tune, then starts playing it.

- See also “Changing the general settings (PSM)” on page 26.

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 $\blacktriangle\blacktriangleright$ or $\blacktriangleleft\blacktriangle$.
3. Select the desired mode with the control dial.
The Blank Skip mode alternates between on and 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.

Note:

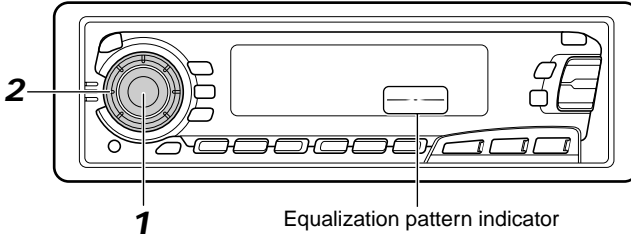
In the following cases, Blank Skip and Repeat Play may not operate correctly:

- 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.



Adjusting the sound

You can adjust the sound characteristics to your preference.



1



Select the item you want to adjust.

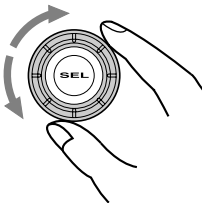


Indication	To do:	Range
BAS (Bass)	Adjust the bass	-06 (min.) — +06 (max.)
TRE (Treble)	Adjust the treble	-06 (min.) — +06 (max.)
FAD (Fader)*	Adjust the front and rear speaker balance	R06 (rear only) — F06 (front only)
BAL (Balance)	Adjust the left and right speaker balance	L06 (left only) — R06 (right only)
LOUD (Loudness)	Boost low and high frequencies to produce a well-balanced sound at low volume level.	LOUD ON — LOUD OFF
VOL (Volume)	Adjust the volume	00 (min.) — 50 (max.)

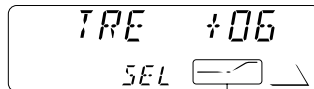
Note:

* 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.



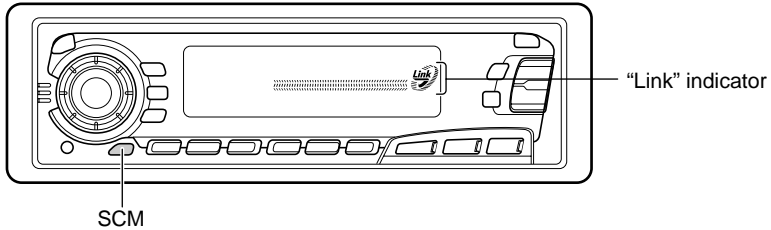
Using the Sound Control Memory

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 for 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 28.



Select the sound mode you want.

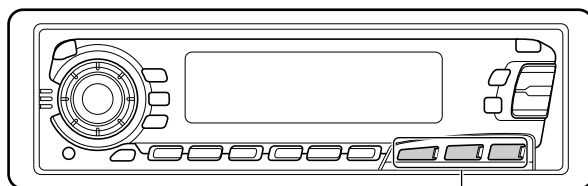
Each time you press the button, the sound mode changes as follows:



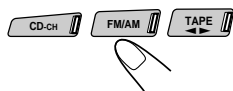
- If the “Link” indicator is lit on the display (with “SCM LINK” set to “LINK ON”—see page 28), the selected sound mode can be stored in memory for the current source, and the effect applies to the current source.
- If the “Link” indicator is NOT lit on the display (with “SCM LINK” set to “LINK OFF”), 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

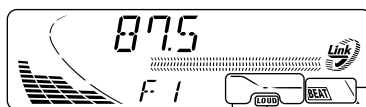


Source buttons



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.



Equalization pattern of the selected sound mode appears.

LOUD (loudness) indicator

Sound mode indicator

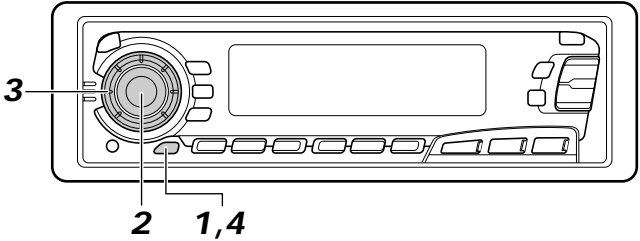
Notes:

- 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 24.
- To adjust the bass and treble reinforcement levels or to turn on/off the loudness function temporarily, see page 21. (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 22) to your preference and store your own adjustments in memory.

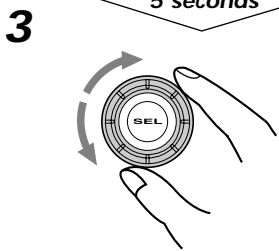


Call up the sound mode you want to adjust.
See page 22 for details.

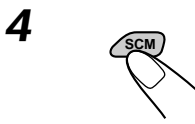


Select “BAS (Bass),” “TRE (Treble)” or “LOUD (Loudness).”

*Within
5 seconds*



Adjust the bass or treble level or turn the loudness function ON/OFF.
See page 21 for details.



Press and hold SCM (Sound Control Memory) until the sound mode you have selected in step 1 flashes on the display.
Your setting is stored in memory.

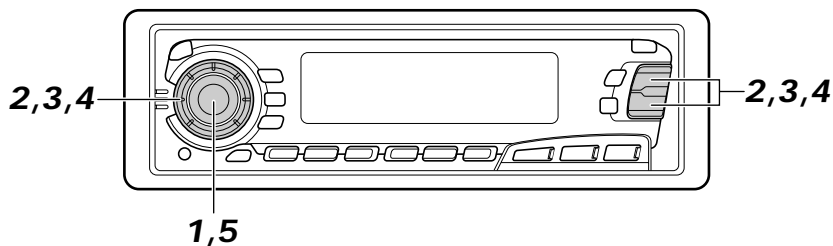
5 Repeat the same procedure to store other settings.


To reset to the factory settings


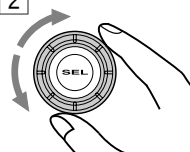
Repeat the same procedure and reassign the preset values listed in the table on page 22.


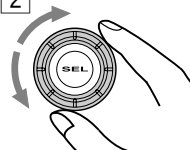
Setting the clock


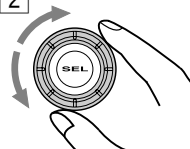
You can also set the clock system either to 24 hours or 12 hours.




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

- 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**   Set the clock system.
- 1** Select "24H/12H."
 - 2** Select "24H" or "12H."

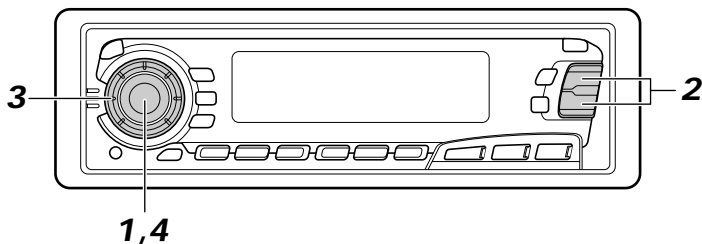
- 5**  Finish the setting.

To check the current clock time while the unit is turned off, 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 27.)

3






Select or adjust the PSM item selected above.

4



Finish the setting.

1 		2 		3 		Factory-preset settings	See page
Select.		Set.					
CLOCK H	Hour adjustment	Back	Advance	0:00	25		
CLOCK M	Minute adjustment	Back	Advance				
SCM LINK	Sound control memory linkage	LINK OFF	LINK ON	LINK ON	28		
24H/12H	24/12-hour time display	12H	24H	24H	25		
AUTO ADJ	Automatic setting of the clock	OFF	ON	ON	16		
CLOCK	Clock display	OFF	ON	ON	28		
TU DISP	Tuner display mode	FREQ	PS NAME	PS NAME	16		
PTY STBY	PTY standby	29 programme types (See page 15.)		NEWS	12		
PTY SRCH	PTY search			(See page 12.)	12		
TA VOL	Traffic announcement volume	VOL (00-50)		VOL 20	16		
P-SEARCH	Programme search	OFF	ON	OFF	15		
DAB AF*	Alternative Reception	AF OFF	AF ON	AF ON	43		
LEVEL	Level display	AUDIO 1 ↔ AUDIO 2 ↑↘ OFF ↓↙ ↖↗		AUDIO 2	28		
DIMMER	Dimmer (ONLY FOR KS-FX850R)	AUTO ↔ OFF ↑↘ ON ↓↙ ↖↗		AUTO	29		
TEL	Audio mute for cellular phone system	OFF ↔ MUTING 1 ↑↘ MUTING 2 ↓↙ ↖↗		OFF	29		
BEEP	Key-touch tone (ONLY FOR KS-FX850R)	OFF	ON	ON	30		
B.SKIP	Blank skip	OFF	ON	OFF	20		
LINE IN**	External component	CHANGER	LINE IN	CHANGER	30		

* Displayed only when the DAB tuner is connected.

** 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 $\blacktriangle\blacktriangleright\blacktriangleright$ or $\blacktriangleright\blacktriangleleft\blacktriangleleft$.
3. Select the desired mode with the control dial.
The SCM LINK mode changes as follows:

LINK ON \longleftrightarrow LINK OFF

Selecting the clock display

You can select either the clock or the source name to be shown on the lower part of the display. When shipped from the factory, the clock is selected.

- ON: Clock
- OFF: Source name (or station band)

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

ON \leftrightarrow OFF

To check the other information during play

Press DISP (display). Each time you press the button, the other information (either the clock or the source name) will be shown on the lower part of the display for a while.

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 $\blacktriangle\blacktriangleright\blacktriangleright$ or $\blacktriangleright\blacktriangleleft\blacktriangleleft$.
3. Select the desired mode with the control dial.
The level display setting changes as follows:

\rightarrow AUDIO 1 \longleftrightarrow AUDIO 2 \longleftrightarrow OFF \leftarrow

Selecting the dimmer mode (ONLY FOR KS-FX850R)

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 $\blacktriangle\blacktriangleright\blacktriangleright$ or $\blacktriangleright\blacktriangleright\blacktriangleright$.
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 telephone muting

This mode is used when a cellular phone system is connected. Depending on the phone system used, select either "MUTING 1" or "MUTING 2," whichever mutes the sounds from this unit. When shipped from the factory, this mode is deactivated.

- MUTING 1: Select this if this setting can mute the sounds.
- MUTING 2: Select this if this setting can mute the sounds.
- OFF: Cancels the telephone muting.

1. Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Select "TEL (telephone)" with $\blacktriangle\blacktriangleright\blacktriangleright$ or $\blacktriangleright\blacktriangleright\blacktriangleright$.
3. Select the desired mode with the control dial.

The telephone muting mode changes as follows:



Turning on/off the key-touch tone (ONLY FOR KS-FX850R)

You can deactivate the key-touch tone if you do not want to make it beep when you press a button. When shipped from the factory, the key-touch tone is activated.

- ON: Activates the key-touch tone.
- OFF: Deactivates the key-touch tone.

1. Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2. Select "BEEP" with $\blacktriangle\blacktriangleright\blacktriangleright\blacktriangleright|$ or $\blacktriangleright| \blacktriangleleft\blacktriangleleft\blacktriangleleft$.
3. Select the desired mode with the control dial.
The key-touch tone alternates between on and off.

ON \longleftrightarrow 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. To change the source to FM, AM or TAPE, press FM/AM or TAPE $\blacktriangleleft\blacktriangleright$.
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 $\blacktriangle\blacktriangleright\blacktriangleright\blacktriangleright|$ or $\blacktriangleright| \blacktriangleleft\blacktriangleleft\blacktriangleleft$.
4. Select the desired mode with the control dial.

The external component selecting mode changes as follows:

LINE IN \longleftrightarrow CHANGER

Note:

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

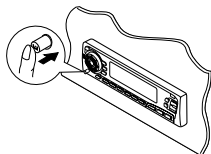
Detaching the control panel

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.

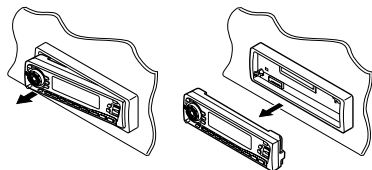
How to detach the control panel

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

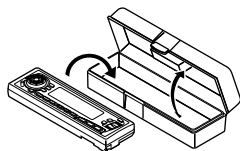
- 1 Unlock the control panel.



- 2 Pull the control panel out of the unit.

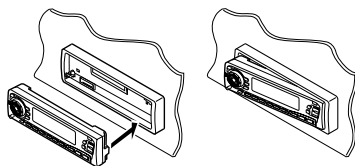


- 3 Put the detached control panel into the provided case.

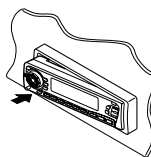


How to attach the control panel

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



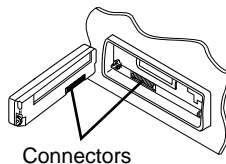
- 2 Press the left side of the control panel to fix it to the panel holder.



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

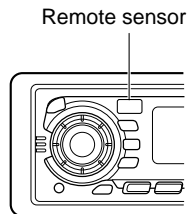
REMOTE OPERATIONS

This section is **ONLY FOR KS-FX850R, KS-FX835R and KS-FX834R.**

KS-FX820R can also be remotely controlled as instructed here (with an optionally purchased remote controller). We recommend that you use remote controller RM-RK31 with your unit. The followings are the instructions for using RM-RK31.

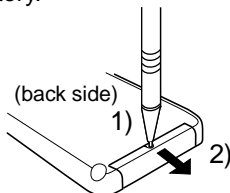
Before using the remote controller:

- 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 battery

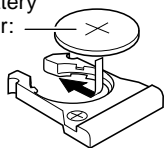
When the controllable range or effectiveness of the remote controller decreases, replace the battery.



1. Remove the battery holder.

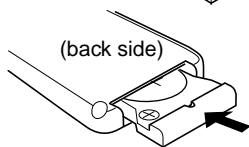
- 1) Push out in the direction indicated by the arrow using a ball point pen or a similar tool.
- 2) Remove the battery holder.

Lithium coin battery
(product number:
CR2025)



2. Place the battery.

Slide the battery into the holder with the + side facing upwards so that the battery is fixed in the holder.



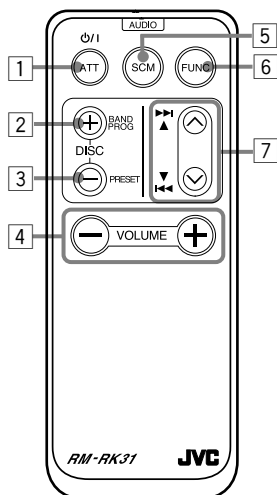
3. Return the battery holder.

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

WARNING:

- Store the batteries in a place which children cannot reach.
If a child accidentally swallows the battery, immediately consult a doctor.
- Do not recharge, short, disassemble or heat the batteries or dispose of in a fire.
Doing any of these things may cause the batteries to give off heat, crack or start a fire.
- Do not leave the batteries with other metallic materials.
Doing this may cause the batteries to give off heat, crack or start a fire.
- When throwing away or saving the batteries, wrap in tape and insulate; otherwise, it may cause the batteries to give off heat, crack or start a fire.
- Do not poke the batteries with tweezers or similar tools.
Doing this may cause the batteries to give off heat, crack or start a fire.

Using the remote controller



- 1 Functions the same as the ϕ /I/ATT button on the main unit.
- 2
 - Functions as the BAND button while listening to the radio (or the DAB tuner).
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 the 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.
- 3
 - Functions as the PRESET button while listening to the radio (or the DAB tuner).
Each time you press the button, the preset station number increases, and the 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 the selected disc starts playing.
- 4 Functions the same as the control dial on the main unit.
Note: *This button does not function for the preferred setting mode adjustment.*
- 5 Selects the sound mode.
Each time you press SCM (Sound Control Memory), the mode changes.
- 6 Selects the source.
Each time you press FUNC (function), the source changes.
- 7
 - Searches stations while listening to the radio.
 - Selects services while listening to the DAB tuner if pressed briefly.
 - Searches ensembles while listening to the DAB tuner if pressed for more than 1 second.
 - 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 a CD.
 - Skips to the beginning of the next tracks or goes back to the beginning of the current (or previous tracks) if pressed briefly while listening to a CD.



CD CHANGER OPERATIONS

ENGLISH

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

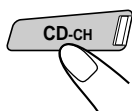
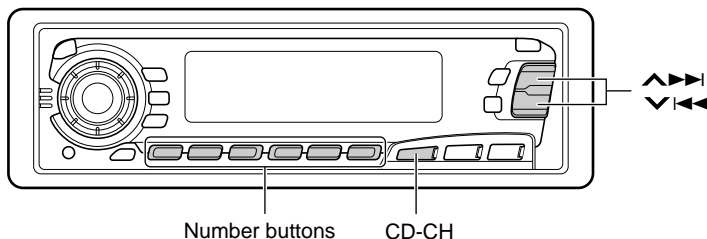
If you have another CD automatic changer, consult your JVC IN-CAR ENTERTAINMENT dealer for connections.

- 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:

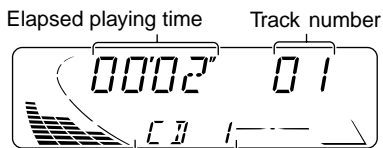
- Refer also to the Instructions supplied with your CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "NO DISC" will appear on the display. If this happens, remove the magazine and set the discs correctly.
- If "RESET 1 - RESET 8" appears on the display,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



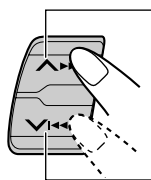
Disc number (or clock time:
see page 28) appears.

Note on One-Touch Operation:

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



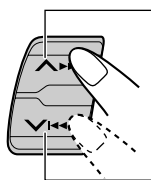
To fast-forward or reverse the track



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

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

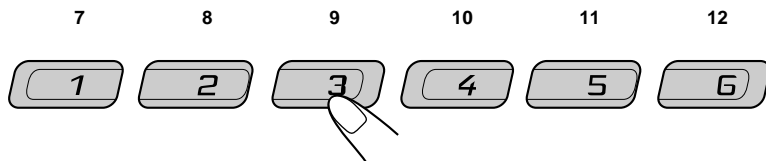
To go to the next tracks or the previous tracks



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.

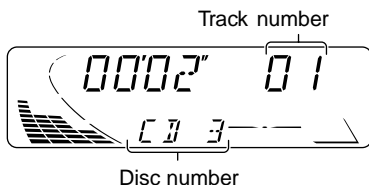
To go to a particular disc directly



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.

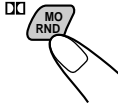
Ex. When disc number 3 is selected

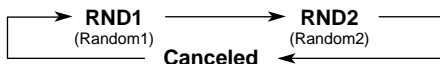




Selecting CD playback modes

To play back tracks at random (Random Play)

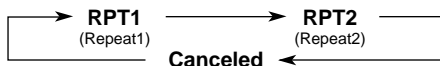
Each time you press MO RND  (Monaural/Random/Dolby) while playing a CD, CD random play mode changes as follows:



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:

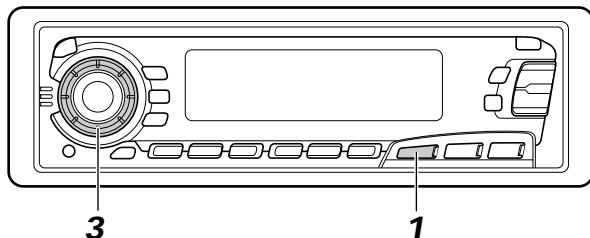


Mode	RPT Indicator	Plays repeatedly
RPT1	Lights	The current track (or specified track).
RPT2	Flashes	All tracks of the current disc (or specified disc).

EXTERNAL COMPONENT OPERATIONS



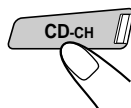
You can connect the external component to the CD changer jack on the rear using the Line Input Adaptor KS-U57 (not supplied).



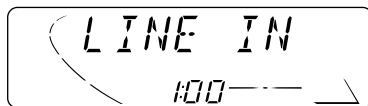
Preparations:

- 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 30.)

1




Select the external component.



- If “LINE IN”^{*} does not appear on the display, see page 30 and select the external input (“LINE IN”).

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

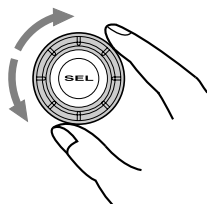
Note on One-Touch Operation:

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.



DAB TUNER OPERATIONS

ENGLISH

We recommend that you use DAB (Digital Audio Broadcasting) tuner KT-DB1500 with your unit.

If you have another DAB tuner, consult your JVC IN-CAR ENTERTAINMENT dealer.

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

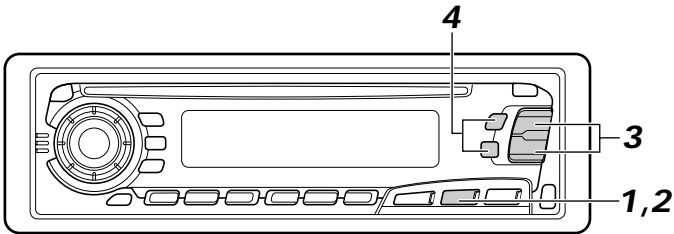
What is DAB system?

DAB is one of the digital radio broadcasting systems available today. It can deliver CD quality sound without any annoying interference and signal distortion. Furthermore, it can carry text, pictures and data.

In contrast to FM broadcast, where each programme is transmitted on its own frequency, DAB combines several programmes (called "services") to form one "ensemble." With the DAB tuner connected with this unit, you can enjoy these DAB services.

Tuning into an ensemble and one of the services

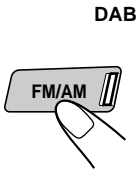
A typical ensemble has 6 or more programmes (services) broadcast at the same time. After tuning into an ensemble, you can select a service you want to listen to.



Before you start....

Press FM/AM/DAB briefly if you are selecting TAPE, CD changer or LINE IN as the source.

1

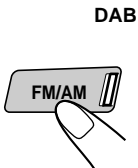


Select the DAB tuner.

Each time you press and hold the button for more than 1 second, the DAB tuner and the FM/AM tuner are alternately selected.

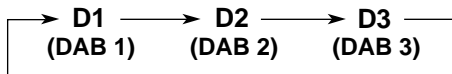
DAB ↔ FM/AM

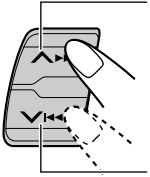
2



Select the DAB band (DAB1, DAB2, or DAB3).

You can select any one of DAB1, DAB2, and DAB3 to tune into an ensemble.

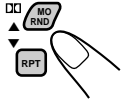


3


To search ensembles of higher frequencies.

To search ensembles of lower frequencies.

Start searching an ensemble.
When an ensemble is received, searching stops.

4


Select an service you want to listen to.

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

To change the display information while tuning into an ensemble

Normally service name is shown on the upper part of the display.

If you want to check the ensemble name or its frequency, press DISP.

Each time you press the button, the following information appears for a while on the upper part of the display.

→ Service name → Ensemble name → Channel number → Frequency

To restore the FM/AM tuner

Press and hold FM/AM/DAB for more than 1 second again.

To tune in a particular ensemble without searching:

1 Press and hold FM/AM/DAB for more than 1 second.

2 Press FM/AM/DAB repeatedly to select the DAB band (DAB1, DAB2, or DAB3).

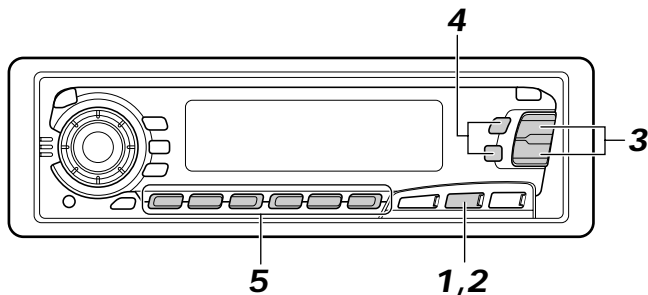
3 Press and hold $\blacktriangle\blacktriangleright\blacktriangleright\blacktriangleright$ or $\blacktriangleleft\blacktriangleleft\blacktriangleleft$ for more than 1 second.

4 Press $\blacktriangle\blacktriangleright\blacktriangleright\blacktriangleright$ or $\blacktriangleleft\blacktriangleleft\blacktriangleleft$ repeatedly until the ensemble you want is reached.

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

Storing DAB services in memory

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



1 DAB



Select the DAB tuner.

Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

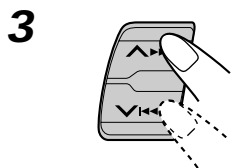
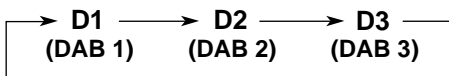
DAB ↔ FM/AM

2 DAB

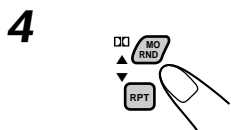


Select the DAB band (DAB1, DAB2, or DAB3) you want.

Each time you press the button, the DAB band changes as follows:



Tune into an ensemble you want.

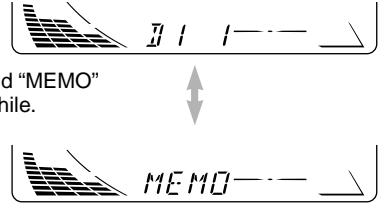


Select a service of the ensemble you want.

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



Band/preset number and "MEMO" flash alternately for a while.



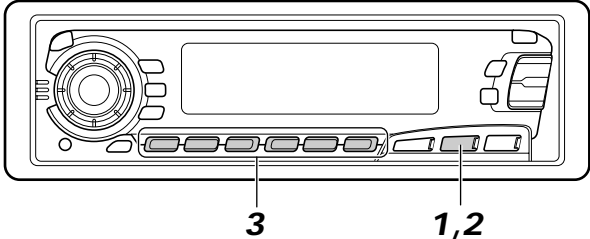
- 6** Repeat the above procedure to store other DAB services into other preset numbers.

Notes:

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

Tuning into a preset DAB service

You can easily tune into a preset DAB service. Remember that you must store services first. If you have not stored them yet, see pages 40 and 41.



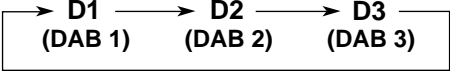
1 **DAB**

Select the DAB tuner.
Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

DAB ↔ FM/AM

2 **DAB**

Select the DAB band (DAB1, DAB2, or DAB3) you want.
Each time you press the button, the DAB band changes as follows:



3

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

What you can do more with DAB

Tracing the same program automatically (Alternative Reception)

You can keep listening to the same program

- **While receiving a DAB service:**

When driving in an area where a service cannot be received, this unit automatically tunes in another ensemble or FM RDS station broadcasting the same program.

- **While receiving an FM RDS station:**

When driving in an area where a DAB service is broadcasting the same program as the FM RDS station is broadcasting, this unit automatically tunes into the DAB service.

Note:

When reception switches between DAB and FM, the listening volume level may increase or decrease inconveniently. This change in the volume level results from unequal audio injection levels at broadcaster site, but not from the malfunction of this unit.

To use Alternative Reception

When shipped from the factory, Alternative Reception is activated.

- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press **▲▶▶|** or **▼|◀◀** to select "DAB AF," if not shown on the display.
- 3 Select the desired mode with the control dial.
 - AF ON: Traces the program among DAB services and FM RDS stations—Alternative Reception. The AF indicator lights up on the display (see page 9).
 - AF OFF: Deactivates Alternative Reception

Note:

When Alternative Reception (for DAB services) is activated, Network-Tracking Reception (for RDS stations: see page 9) is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception.

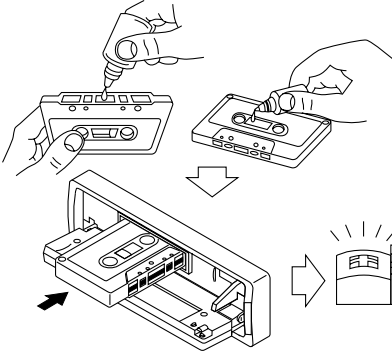
- 4 Press SEL (select) again to finish the setting.



To extend the lifetime of the unit

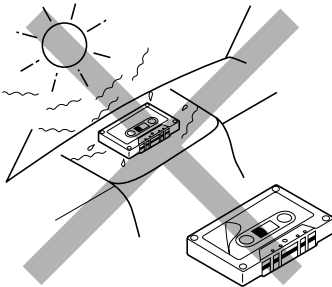
This unit requires very little attention, but you will be able to extend the life of the unit if you follow the instructions below.

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

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 SEL and  /ATT at the same time for several seconds to reset the unit. (The clock setting and preset stations stored in memory are erased.) (See page 3.)

SPECIFICATIONS

ENGLISH

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 , 40 Hz to 20,000 Hz at no more than 0.8 % total harmonic distortion.

Rear: 16 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: ± 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 108.0 MHz

AM: (MW) 522 kHz to 1,620 kHz

(LW) 144 kHz to 279 kHz

[FM Tuner]

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

50 dB Quieting Sensitivity:

16.3 dBf (1.8 μ V/75 Ω)

Alternate Channel Selectivity (400 kHz):

65 dB

Frequency Response: 40 Hz to 15,000 Hz

Stereo Separation: 30 dB

Capture Ratio: 1.5 dB

[MW Tuner]

Sensitivity: 20 μ V

Selectivity: 35 dB

[LW Tuner]

Sensitivity: 50 μ V

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 Operating Temperature:

0°C to +40°C

Grounding System: Negative ground

Dimensions (W x H x D)

Installation Size:

182 mm x 52 mm x 150 mm

Panel Size: 188 mm x 58 mm x 11 mm

Mass: 1.4 kg (excluding accessories)

Design and specifications subject to change without notice.

Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

Haben Sie PROBLEME mit dem Betrieb?

Bitte setzen Sie Ihr Gerät zurück

Siehe Seite Zurücksetzen des Geräts

Vous avez des PROBLÈMES de fonctionnement?

Réinitialisez votre appareil

Référez-vous à la page intitulée Comment réinitialiser votre appareil

Hebt u PROBLEMEN met de bediening?

Stel het apparaat terug

Zie de pagina met de paragraaf Het apparaat terugstellen

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