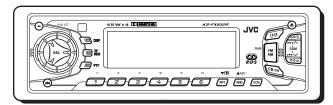


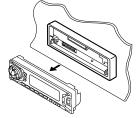


**CASSETTE RECEIVER CASSETTEN-RECEIVER RADIOCASSETTE** RADIO/CASSETTESPELER

## KS-FX832R









For installation and connections, refer to the separate manual.

Für den Einbau und die Anschlüsse siehe das eigenständige Handbuch.

Pour l'installation et les raccordements, se référer au manuel séparé.

Bijzonderheden over de installatie en aansluiting van het apparaat vindt u in de desbetreffende handleiding.

## **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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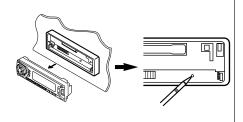
## How to reset your unit

After detaching the control panel, press the reset button on the panel holder using a ball-point pen or similar tool.

This will reset the built-in microcomputer.

#### Note:

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



### 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.

### 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.

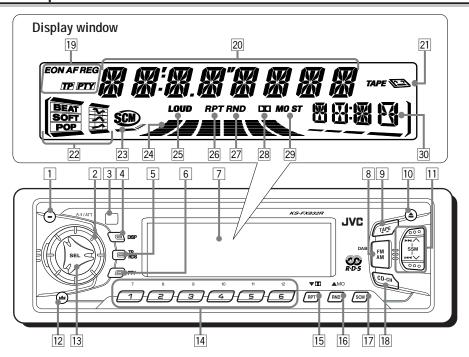
### \*Temperature inside the car....

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.

## LOCATION OF THE BUTTONS



## Control panel



- 1 ტ/ I/ATT (standby/on/attenuator) button
- 2 Control dial
- 3 Remote sensor
- 4 DISP (display) button
- 5 TP (traffic programme) RDS (radio data system) button
- 6 PTY (programme type) button
- 7 Display window
- 8 FM AM button
  - · Also functions as the DAB button.
- 9 TAPE **◄►** button
- 10 ▲ (eject) button
- 11 ►►I ∧ / I◄◄ ➤ buttons
  - · Also function as SSM buttons when pressed together.
- 12 (control panel release) button
- 13 SEL (select) button
- 14 Number buttons
- 15 RPT (repeat) button

(Dolby B) button

Also functions as ▼ (DAB service selection).

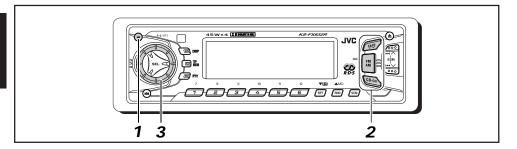
- 16 RND (random) MO (monaural) button
  - Also functions as ▲ (DAB service selection).
- [17] SCM (sound control memory) button
- 18 CD-CH (CD changer) button

### Display window

- 19 RDS indicators EON, AF, REG, TP, PTY
- 20 Main display
- 21 TAPE indicator
- 22 Sound mode indicators BEAT, SOFT, POP
- 23 SCM indicator
- 24 Volume (or audio) level indicator
- 25 LOUD indicator
- 26 RPT (repeat) indicator
- 27 RND (random) indicator
- 28 (Dolby B) indicator
- 29 Tuner reception indicators MO (monaural), ST (stereo)
- 30 Source/clock display



## **BASIC OPERATIONS**



## Turning on the power

## 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 (FM or AM), see pages 5 – 13. To operate the tape,

see pages 14 – 16.

To operate the CD changer, see pages 24 – 25.

To operate the external component, see page 26.

To operate the DAB tuner, see pages 27 – 30.

## **3** Adjust the volume.



To increase the volume.

To decrease the volume.

Volume level appears.



Volume or audio level (see page 22) indicator

4 Adjust the sound as you want. (See pages 17 – 19.)

## To drop the volume in a moment

Press **৩/**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.

 If you turn the control dial clockwise, you can also restore the sound.

## To turn off the power

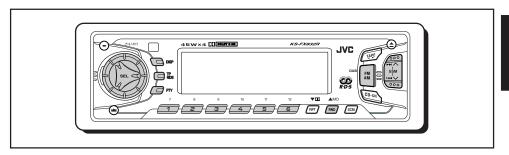
Press and hold **d/I/**ATT until "SEE YOU" appears on the display.

#### Note

When you use this unit for the first time, set the built-in clock correctly, see page 20.

## RADIO BASIC OPERATIONS





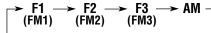
## Listening to the radio

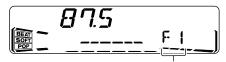
You can use either automatic searching or manual searching to tune into a particular station.

## <u>Searching a station automatically:</u> Auto search

1 Select the band (FM1 – 3, AM).







Selected band appears.

#### Note:

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

## 2 Start searching a station.



Press ►►I to search stations of higher frequencies.

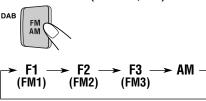
Press ► to search stations of lower frequencies.

When a station is received, searching stops.

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

## Searching a station manually: Manual search

1 Select the band (FM1 – 3, AM).



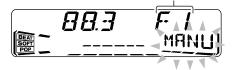
### Note:

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

2 Press and hold ►►I ∧ or I◄◄ ∨ until "MANU (manual)" starts flashing on the display.



Selected band appears.





## 3 Tune into a station you want while "MANU" is flashing.



Press ►►I to tune into stations of higher frequencies.

Press ► to tune into stations of lower frequencies.

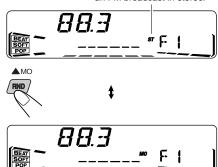
- If you release your finger from the button, the manual mode will automatically turn off after 5 seconds.
- If you hold down the button, the frequency keeps changing (in 50 kHz intervals for FM and 9 kHz intervals for AM – MW/LW) until you release the button.

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

Press MO RND (monaural/random) while listening to an FM stereo broadcast.

 Each time you press the button, the MO indicator lights up and goes off alternately.

Lights up when receiving an FM broadcast in stereo.



When the MO indicator is lit on the display, the sound you hear becomes monaural but the reception will be improved (the ST indicator goes off).

## Storing stations in memory

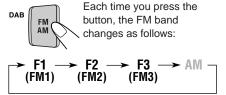
You can use one of the following two methods to store broadcasting stations in memory.

- Automatic preset of FM stations: SSM (Strongstation Sequential Memory)
- · Manual preset of both FM and AM stations

## FM station automatic preset: SSM

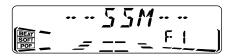
You can preset 6 local FM stations in each FM band (FM1, FM2 and FM3).

1 Select the FM band (FM1 – 3) you want to store FM stations into.



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 into.

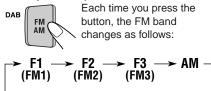


## **Manual preset**

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

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

Select the band (FM1 – 3, AM) you want to store stations into (in this example, FM1).

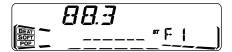


**2** Tune into a station of 88.3 MHz.



Press ►►I to tune into stations of higher frequencies.

Press ► to tune into stations of lower frequencies.

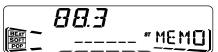


3 Press and hold the number button (in this example, 1) for more than 2 seconds.





Selected band/preset number and "MEMO" (memory) appear alternately for a while.



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

### Notes:

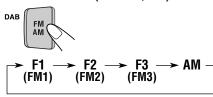
- A previously preset station is erased when a new station is stored in the same preset number.
- Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.

## **Tuning into a preset station**

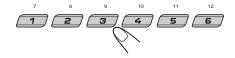
You can easily tune into a preset station.

Remember that you must store stations first. If you have not stored them yet, see "Storing stations in memory" on page 6.

1 Select the band (FM1 – 3, AM).



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





## **RDS OPERATIONS**

## What you can do with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals. For example, the stations send their station names, as well as information about what type of programme they broadcast, such as sports or music, etc.

Another advantage of RDS function is called Enhanced Other Networks. The EON indicator lights up while receiving an FM station with the Enhanced Other Networks data. By using the Enhanced Other Networks data sent from a station, you can tune into a different station of a different network broadcasting your favourite 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
- Programme search
- · And some other functions

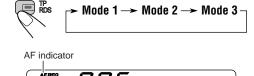
## <u>Tracing the same programme</u> <u>automatically (Network-Tracking</u> Reception)

When driving in an area where FM reception is not good, the tuner built in this unit automatically tunes into 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:



REG indicator

#### Mode 1

The AF indicator lights up but the REG indicator does not.

Network-Tracking Reception 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.

• 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 Reception 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.

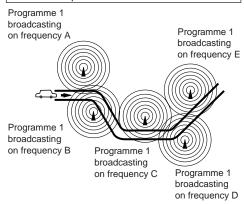
Network-Tracking Reception is deactivated.

#### 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 30.)



The same programme can be received on different frequencies.



## **Using Standby Reception**

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

• 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.

- 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 into, the TP indicator is lit.
- If you are listening to a tape or other connected components 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 (see page 12) and the traffic programme can be heard.

**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 10 flashes for 5 seconds.

- When the station being received is not a PTY station, the PTY indicator flashes. Press ▶►! A or !◄
   to engage the PTY standby mode. "SEARCH" appears on the display, and PTY station search starts. When a PTY station is tuned into, the PTY indicator is lit.
- If you are listening to a tape or other connected components 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.

Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 21.)



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



3 Select one of twenty-nine PTY codes. (See page 13.)



Selected code name appears on the display and is stored into memory.

4 Press SEL (select) to 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 store your favorite programme types, see below.

To search your favorite programme type, see page 11.

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

## To store your favorite programme types

Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 21.)



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



3 Select one of twenty-nine PTY codes. (See page 13.)

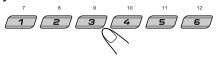


Selected code name appears on the display.

 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.



The selected code name and "MEMO" (memory) appear alternately on the display.

5 Press SEL (select) to finish the setting.



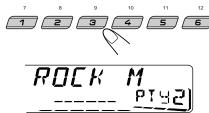
## To search your favorite programme type

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



The last selected PTY code appears.

2 Select one of the PTY codes stored in the 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 as you selected, that station is tuned into.
- If there is no station broadcasting a programme of the same PTY code as 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 into.

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 into another frequency broadcasting the same programme as the original preset station is broadcasting (Programme search).

 The unit takes some time to tune into another station using Programme search.

To activate programme search, follow 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 Press ►►I or I◄◄ to select "P(Programme)-SEARCH."
- 3 Turn the control dial clockwise to select "ON." Now programme search is activated.
- 4 Press SEL (select) to finish the setting.

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



## Changing the display mode while listening to an FM station

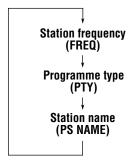
You can change the initial indication on the display to station name (PS NAME) or station frequency (FREQ) while listening to an FM RDS station.

- 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.
- **3** Turn the control dial to set to the desired indication ("PS NAME" or "FREQ").
- 4 Press SEL (select) to finish the setting.

#### Note:

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

Each time you press the button, the following information appears on 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 20.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press ►►I or I◄◄ to select "TA VOL."
- 3 Turn the control dial to set to the desired volume. You can set it from "VOL 00" to "VOL 50."
- 4 Press SEL (select) to finish the setting.

## 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 20.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press ►►I o or I◄◄ to select "AUTO ADJ (adjustment)."
- **3** Turn the control dial counterclockwise to select "OFE."

Now automatic clock adjustment is canceled.

4 Press SEL (select) to finish the setting.

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

### Note:

You must stay tuned to the same station for more than 2 minutes after setting "AUTO ADJ" to "ON." Otherwise, the clock time will not be adjusted. (This is because the unit takes up to 2 minutes to capture the CT data in the RDS signal.)



### PTY codes

NFWS: News SOCIAL: Programmes on social activities AFFAIRS:

Topical programmes expanding on current news or affairs

INFO: Programmes which impart advice

on a wide variety of topics

SPORT: Sport events

EDUCATE: Educational programmes

DRAMA: Radio plays

CULTURE: Programmes on national or

regional culture

SCIENCE: Programmes on natural science

and technology

VARIFD: Other programmes like comedies

or ceremonies

POP M: Pop music ROCK M: Rock music

EASY M: Easy-listening music

LIGHT M: Light music CLASSICS: Classical music

OTHER M: Other music

WEATHER: Weather information

FINANCE: Reports on commerce, trading,

the Stock Market, etc.

CHILDREN: Entertainment programmes for

children

RELIGION: Programmes dealing with any

aspect of belief or faith, or the

nature of existence or ethics

PHONE IN: Programmes where people can

express their views either by phone or in a public forum

TRAVEL: Programmes about travel

> destinations, package tours, and travel ideas and opportunities

Programmes concerned with LEISURE:

recreational activities such as gardening, cooking, fishing, etc.

JAZZ: Jazz music COUNTRY: Country music

NATION M: Current popular music from

another nation or region, in that

country's language Classic pop music

OLDIES: FOLK M: Folk music

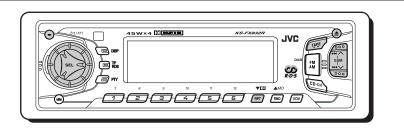
DOCUMENT: Programmes dealing with factual

matters, presented in an

investigative style



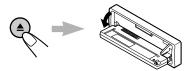
## TAPE OPERATIONS



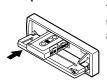
## Listening to a cassette

You can play back type 1 (normal) tapes.

1 Open the control panel.

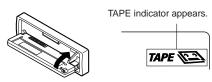


2 Insert a cassette into the cassette compartment.



The unit turns on and tape play starts automatically.

**3** Close the control panel by hand.



4 Select the tape direction.



Each time you press TAPE ◆, the tape direction changes alternately forward (FWT PLRY) and reverse (REV PLRY).

### Note on One-Touch Operation:

When a cassette is already in the cassette compartment, select tape as the source by pressing TAPE  $\blacktriangleleft \triangleright$  to start tape play.

### To stop play and eject the cassette

Press ▲.

Tape play stops and the cassette automatically ejects from the cassette compartment. The source changes to the previously selected one.

If you change the source, tape play also stops (without ejecting the cassette this time).

 You can eject the cassette while the unit is turned off by pressing \_.

### To fast-forward and rewind a tape



Press ►►I 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.

### Notes:

- When one side of the tape reaches its end during play, the other side of the tape automatically starts playing. (Auto Reverse)
- When the tape reaches its end while fast-forwarding, the tape direction will be changed automatically.



## To play back tapes recorded with the Dolby B NR

Press and hold  $\square$  RPT (Dolby B/repeat) to set the Dolby B NR\* system.

The **II** indicator lights up, and "DOLBY B" appears on the display for several seconds.

To cancel the Dolby B NR, press and hold DI RPT (Dolby B/repeat) again so that the DI indicator goes off.

\* Manufactured under license from Dolby Laboratories.

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

## Prohibiting cassette ejection

You can prohibit cassette ejection and "lock" a cassette in the cassette compartment.

Press and hold TAPE ◆► and ७/1/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 ७/١/ATT for more than 2 seconds again.

"EJECT OK" flashes for about 5 seconds, and this time the cassette is "unlocked."

#### Note:

If you press \(\textit{\textit{\textit{\textit{\textit{M}}}}}\) while cassette ejection is prohibited, the display panel flips down, but the cassette continues to play and cannot be ejected.

## 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**

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



Press Press The state
The state<



Each time you press the buttons, 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 20.
- Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 21.)



2 Press ►►I ∧ or I◀◀ ∨ to select "B. SKIP (blank skip)."



3 Turn the control dial clockwise to select "ON."



Now Blank Skip is activated.

4 Press SEL (select) to finish the setting.



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

## Playing the current tune repeatedly

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

## Press RPT III (repeat/Dolby B) while playing a tune you want to hear over again.



Each time you briefly press the button, Repeat Play turns on and off alternately.



Lights up when Repeat Play is turned on.

When the tune has been played, the tape is automatically rewound to the beginning of that tune and the same tune will be played again.

To cancel Repeat Play, press RPT □□ again so that the RPT indicator goes off.

#### 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.

## **SOUND ADJUSTMENTS**



## Adjusting the sound

You can adjust the sound characteristics to your preference.

## 1 Select the item you want to adjust.



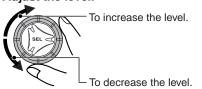
Each time you press the button, the adjustable items change as follows:



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

<sup>\*</sup> 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 as the volume control. So you do not have to select "VOL" to adjust the volume level.



## Using the sound control memory (SCM)

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

## Selecting and storing the sound modes

Once you select a sound mode, it is stored in memory. It will be recalled every time you select the same source and will be shown on the display. 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 "To cancel Advanced SCM – SCM LINK" on page 22.

### Select the sound mode you want.





Ex.: When you select "BEAT"

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



- When "SCM LINK" is set to "LINK ON," the selected sound mode can be stored in memory for the current source and the effect applies only to the current source.
- When "SCM LINK" is set to "LINK OFF," the selected sound mode effect applies to any source.

Indication	For:	Preset values		ıes
		BAS	TRE	LOUD
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

When "SCM LINK" is set to "LINK ON," select the source.





Each time you change the playback source, the SCM indicator flashes on the display.

The sound mode stored in memory for the selected source is recalled.

#### 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 19.
- To adjust the bass and treble reinforcement levels or to turn on/off the loudness function temporarily, see page 17. (Your adjustments will be canceled if another source is selected.)



## Storing your own sound adjustments

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

- There is a time limit in doing the following procedure. If the setting is canceled before you finish, start from step 1 again.
- 1 Call up the sound mode you want to adjust.
  - See page 18 for details.





Ex.: When you select "BEAT"

2 Select "BAS (bass)", "TRE (treble)" or "LOUD (loudness)."





Ex.: When you adjust "TRE" (treble)

- 3 Adjust the bass or treble level or turn the loudness function ON/OFF.
  - · See page 17 for details.





Equalization pattern changes as you adjust the bass or treble.

- 4 Repeat steps 2 and 3 to adjust the other items.
- Press and hold SCM until the sound mode you have selected in step 1 flashes on the display.



Your adjustment made for the selected sound mode is stored in memory.

6 Repeat the same procedure to store other sound modes.

## To reset to the factory settings

Repeat the same procedure and reassign the preset values listed in the table on page 18.

## 🤣 0:00 🍖

## OTHER MAIN FUNCTIONS

## Setting the clock

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

Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (See page 21.)



- 2 Set the hour.
  - 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."
  - <sup>2</sup> Select "24H" or "12H."





5 Press SEL (select) to finish the setting.



To check the current clock time while the unit is turned off, press DISP (display).

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.
(See page 21.)



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



3 Adjust the PSM item selected.



- 4 Repeat steps 2 and 3 to adjust the other PSM items if necessary.
- 5 Press SEL (select) to finish the setting.





## Preferred Setting Mode (PSM) items

1 SEL	2	Set.	SEL	Factory-preset settings	See page
Hold.	Select.	clockwise	Clockwise		
CLOCK H	Hour adjustment	Back	Advance	0:00	20
CLOCK M	Minute adjustment	Back	Advance	0.00	20
SCM LINK	Sound control memory linkage	LINK OFF	LINK ON	LINK ON	18, 22
24H/12H	24/12-hour time display	12H	24H	24H	20
AUTO ADJ	Automatic clock setting	OFF	ON	ON	12
CLOCK	Clock display	OFF	ON	ON	22
TU DISP	Tuner display	FREQ	PS NAME	PS NAME	12
PTY STBY	PTY standby	29 programme types		NEWS	10
PTY SRCH	PTY search	(see pages 10 and 13.)		(See page 10.)	10
TA VOL	Traffic announcement volume	VOL 00 – VOL 50		VOL 20	12
P-SEARCH	Programme search	OFF	ON	OFF	11
DAB AF*	Alternative frequency search	AF OFF	AF ON	AF ON	30
LEVEL	Level display	AUDIO 1 ↔ AUDIO 2  ↑ OFF ← ↑		AUDIO 2	22
TEL	Telephone muting	MUTING 1 ← MUTING 2  ↑ OFF ← ↑		OFF	22
B. SKIP	Blank skip	OFF	ON	OFF	16
EXT IN**	External component	CHANGER	LINE IN	CHANGER	22, 26

<sup>·</sup> Press SEL (select) to finish the setting.

<sup>\*</sup> Displayed only when the DAB tuner is connected.

<sup>\*\*</sup> Displayed only when one of the following sources is selected – FM, AM and Tape.



## To cancel Advanced SCM - SCM LINK

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).

## To set the clock display - CLOCK

You can set the clock to be shown on the display when the unit is turned on.

When shipped from the factory, the clock is set to be shown on the display.

ON: Clock display is turned on.

 Clock display is turned off. When "OFF" is selected, the current source name or station band appears instead of the clock display (except when "EXT-LINE IN" is

selected as the source).

### To select the level meter – LEVEL

You can select the level display according to your preference.

When shipped from the factory, "AUDIO 2" is selected.

AUDIO 1: Level meter illuminates from bottom to top.

 AUDIO 2: Alternates level meter (moves from bottom to top) and illumination

display.

OFF: Erases the audio level indicator.

### To select the telephone muting – TEL

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.

## To select the external component to use - EXT IN

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.

#### 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**

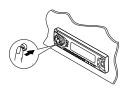
You can detach the contol panel when leaving the car.

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.

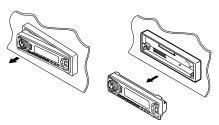
## **Detaching the control panel**

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

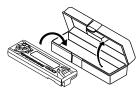
1 Unlock the control panel.



**2** Pull the control panel out of the unit.

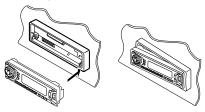


3 Put the detached control panel into the provided case.



## Attaching the control panel

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



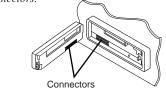
2 Press the left side of the control panel to fix it to the panel holder.



### Note on cleaning the connectors:

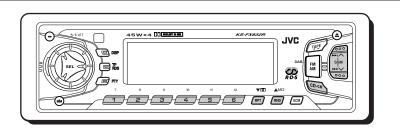
If you frequently detach the control panel, the connectors will deteriorate.

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





## **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 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 and make sure the cords are connected firmly. Then, press the reset button of the CD changer.

## **Playing CDs**

### Select the CD automatic changer (CD-CH).



Playback starts from the first track of the first disc.

All tracks of all discs are played back.



2.00 .......

\* When "CLOCK" is set to "ON" (see page 22), disc number will soon change to clock time.

#### Note on One-Touch Operation:

When you press CD-CH, the power automatically turns on. You do not have to press **\Omega\_II/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 I◀◀ ✔, while playing a CD, to reverse the track.



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

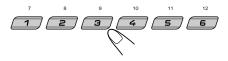


Press > I has briefly, while playing a CD, to go ahead to the beginning of the next track. Each time you press the button consecutively, the beginning of the next track is located and played back.

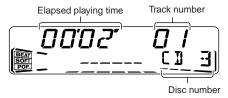
Press I◄◀ ➤ briefly, while playing a CD, to go back to the beginning of the current track. Each time you press the button consecutively, the beginning of the previous tracks is located and played back.

## 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 RND MO (random/monaural), 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)



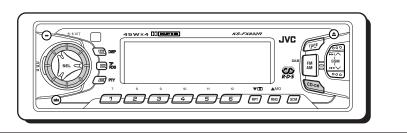
Each time you press RPT IXI (repeat/Dolby B), CD repeat play mode changes as follows:



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**



## 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 "To select the external component to use EXT IN" on page 22.)
- Select the external component (CD-CH).





- 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 **\Omega**/IIATT to turn on the power.

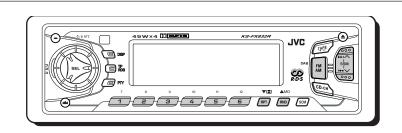
- 2 Turn on the connected component and start playing the source.
- **3** Adjust the volume.



4 Adjust the sound characteristics you want. (See page 17.)

## DAB TUNER OPERATIONS





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 DAB (FM AM) briefly if tape, CD changer or external component is the current source.

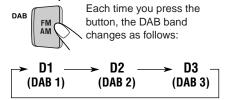
### 1 Select the DAB tuner.



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

DAB ←→ FM/AM

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



### Note:

This receiver has three DAB bands (DAB1, DAB2, DAB3). You can use any one of them to tune into an ensemble



## 3 Start searching an ensemble.



Press ►►I to search ensembles of higher frequencies.

Press ► to search ensembles of lower frequencies.

When an ensemble is received, searching stops.

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

## 4 Select a service you want to listen to.



Press ▲ (RND MO) to select the next service.

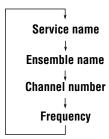


Press ▼ (RPT 💌) to select the previous service.

## To change the display information while tuning into an ensemble

Normally service name is shown on the display. If you want to change the display information, press DISP.

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



## To tune into a particular ensemble without searching:

- 1 Press and hold DAB (FM AM) to select DAB tuner as the source.
- 2 Press DAB (FM AM) repeatedly to select the DAB band (DAB1, DAB2 or DAB3).
- 3 Press and hold ►►I or I◄◄ for more than 1 second.
- 4 Press ►►I or I◄◄ ✓ repeatedly until the ensemble you want is reached.
  - If you hold down the button, the frequency keeps changing until you release the button.

### To restore the FM/AM tuner

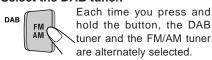
Press and hold DAB (FM AM) again.



## Storing DAB services in memory

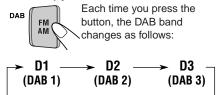
You can preset up to 6 DAB services in each DAB band (DAB1, DAB2 and DAB3) manually.

1 Select the DAB tuner.



DAB ←→ FM/AM

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



**3** Tune into an ensemble you want.

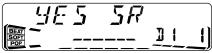


4 Select a service of the ensemble you want.



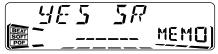
Press and hold the number button (in this example, 1) you want to store the selected service into for more than 2 seconds.





Selected band/preset number and "MEMO" (memory) appear alternately for a while.

ţ



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 page 29.

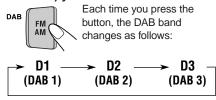
### 1 Select the DAB tuner.



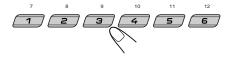
Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

DAB ←→ FM/AM

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



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



## What you can do more with DAB

## Tracing the same programme automatically (Alternative Reception)

You can keep listening to the same programme.

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

When driving in an area where a DAB service is broadcasting the same programme as the FM RDS station is broadcasting, this unit automatically tunes 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 ►►I or I◄◀ to select "DAB AF" (alternative frequency).
- **3** Turn the control dial to select the desired mode.
  - AF ON: Traces the programme among DAB services and FM RDS stations

     Alternative Reception. The AF indicator lights up on the display (see page 8).
  - AF OFF: Deactivates Alternative Reception.

### Note:

When Alternative Reception (for DAB services) is activated, Network-Tracking Reception (for RDS stations: see page 8) is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception.

4 Press SEL (select) to finish the setting.

## **USING THE REMOTE CONTROLLER**

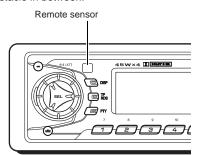


This unit can also be remotely controlled as instructed here (with an optionally purchased remote controller). We recommend that you use remote controller RM-RK31 or RM-RK50 with your unit.

(Example: When you are 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.



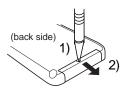
• Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).

## Installing the battery

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

### 1. Remove the battery holder.

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



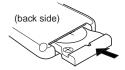
### 2. Place the battery.

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:

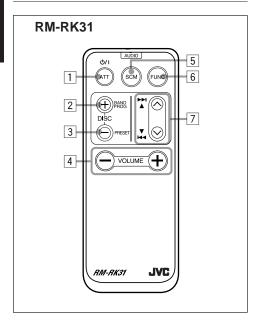
- Store the battery in a place where children cannot reach.
  - If a child accidentally swallows the battery, consult a doctor immediately.
- Do not recharge, short, disassemble or heat the battery or dispose it in a fire.
   Doing any of these things may cause the battery to
- give off heat, crack or start a fire.

   Do not leave the battery with other metallic
- materials.
- Doing this may cause the battery to give off heat, crack or start a fire.
- When throwing away or saving the battery, wrap it in tape and insulate; otherwise, the battery may start to give off heat, crack or start a fire.
- Do not poke the battery with tweezers or similar tools.

Doing this may cause the battery to give off heat, crack or start a fire.



## Location of the buttons



- Turns on the unit if pressed when the unit is turned off.
  - Turns off the unit if pressed and held until "SEE YOU" appears on the display.
  - Drops the volume level in a moment if pressed briefly.

Press again to resume the volume.

- Functions as the BAND button while listening to the FM broadcast (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

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 (or service) number increases, and the selected station (or service) is tuned into.
  - 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.

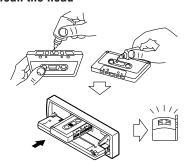
- Selects the sound mode.
  Each time you press the button, the mode changes.
- 6 Selects the source.
  Each time you press the button, the source changes
- 7 Searches stations while listening to the radio.
  - Selects services while listening to the DAB tuner if pressed briefly.
  - Searches ensembles while listening to the DAB tuner if pressed for more than 1 second.
  - Functions as the fast forward/rewind buttons or multi music scan buttons while listening to a tane
  - Fast-forwards or reverses the track if pressed and held while listening to a CD.
  - Skips to the beginning of the next track or goes back to the beginning of the current (or previous tracks) if pressed briefly while listening to a CD.

## **MAINTENANCE**



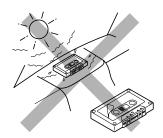
This unit requires very little attention, but you will be able to extend the life of the unit if you follow the instructions below.

### To clean the head



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

### **CAUTION:**

- Do not play the cassettes 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

- Turning off the ignition key with a cassette in the compartment automatically releases the tape from the unit's tapehead.
- Turning on the ignition key with a cassette in the compartment starts playback automatically if you turned off the ignition during tape play.



## **TROUBLESHOOTING**

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

Symptoms	Causes	Remedies
A cassette tape cannot be inserted.	You have tried to insert a cassette in the wrong way.	Insert the cassette with the exposed tape facing right.
A cassette tape cannot be ejected.	Cassette ejection is prohibited.	Press and hold TAPE ◀► and ७/1/ATT for more than two seconds.
Cassette tapes become hot.	This is not a malfunction.	
Tape sound is at very low level and sound quality is degraded.	The tape head is dirty.	Clean it with a head cleaning tape.
Sound is sometimes interrupted.	Connections are not good.	Check the cords and connections.
Sound cannot be heard from the speakers.	The volume is turned to the minimum level.	Adjust it to the optimum level.
	Connections are incorrect.	Check the cords and connections.
SSM (Strong-station Sequential Memory) automatic preset does not work.	Signals are too weak.	Store stations manually.
Static noise while listening to the radio.	The antenna is not connected firmly.	Connect the antenna firmly.
"NO DISC" appears on the display.	No CD is in the magazine.	Insert CDs into the magazine.
шъргау.	CDs are inserted incorrectly.	Insert them correctly.
"NO MAG" appears on the display.	No magazine is loaded in the CD changer.	Insert the magazine.
"RESET 8" appears on the display.	This unit is not connected to a CD changer correctly.	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
• "RESET 1" – "RESET 7" appears on the display.		Press the reset button of the CD changer.
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 the reset button on the panel holder. (The clock setting and preset stations stored in memory are erased.) (See page 2.)

## **SPECIFICATIONS**

## AUDIO AMPLIFIER SECTION

Maximum Power Output:

45 W per channel Front: Rear: 45 W per channel Continuous Power Output (RMS):

> 17 W per channel into 4  $\Omega$ , 40 Hz Front:

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

Rear: 17 W per channel into 4  $\Omega$ , 40 Hz to 20 000 Hz at no more than

0.8% total harmonic distortion.

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

Tone Control Range:

Bass: ±10 dB at 100 Hz Treble: ±10 dB at 10 kHz

Frequency Response: 40 Hz to 20000 Hz

Signal-to-Noise Ratio: 70 dB Line-Out Level/Impedance:

 $2.0 \text{ V}/20 \text{ k}\Omega \text{ load } (250 \text{ nWb/m})$ 

## **TUNER SECTION**

Frequency Range:

FM: 87.5 MHz to 108.0 MHz AM: (MW) 522 kHz to 1620 kHz (LW) 144 kHz to 279 kHz

#### [FM Tuner]

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

50 dB Quieting Sensitivity: 16.3 dBf (1.8  $\mu$ V/75  $\Omega$ )

Alternate Channel Selectivity (400 kHz):

Frequency Response: 40 Hz to 15000 Hz

Stereo Separation: 30 dB Capture Ratio: 1.5 dB

### [MW Tuner]

Sensitivity: 20 µV Selectivity: 35 dB

## **[LW Tuner]**

Sensitivity: 50 µV

## CASSETTE DECK SECTION

Wow & Flutter: 0.11% (WRMS) Fast-Wind Time: 100 sec. (C-60)

Frequency Response (Dolby B NR OFF):

30 Hz to 16 000 Hz (Normal tape)

Signal-to-Noise Ratio: (Normal tape) (Dolby B NR ON): 65 dB (Dolby B NR OFF): 56 dB

Stereo Separation: 40 dB

## GENERAL

Power Requirement:

Operating Voltage: DC 14.4 V

(11 V to 16 V allowance)

Grounding System: Negative ground

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

Dimensions (W  $\times$  H  $\times$  D):

Installation Size: 182 mm × 52 mm × 150 mm Panel Size: 188 mm × 58 mm × 14 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





