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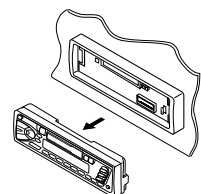
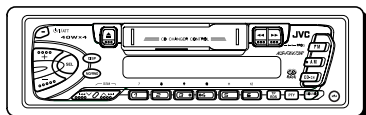## CASSETTE RECEIVER
CASSETTEN-RECEIVER
RADIOCASSETTE
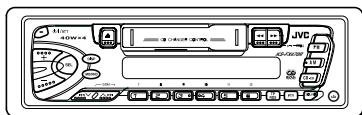**RADIO/CASSETTESPELER**

KS-FX473R/KS-FX470R
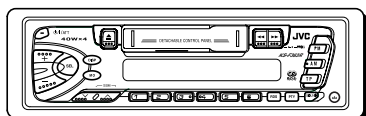# KS-F363R/KS-F360R

Detachable

KS-FX473R

KS-FX470R

KS-F363R

KS-F360R

R·D·S
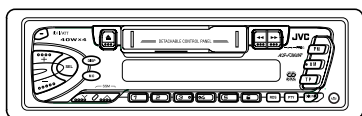
For installation and connections, refer to the separate manual.
Für den Einbau und die Anschlüsse siehe das eigenständige Handbuch.
Pour l'installation et les raccordements, se référer au manuel séparé.
Bijzonderheden over de installatie en aansluiting van het apparaat vindt u in de desbetreffende handleiding.

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.

CONTENTS

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.

Control panel — KS-FX473R/KS-FX470R

ENGLISH

Display window
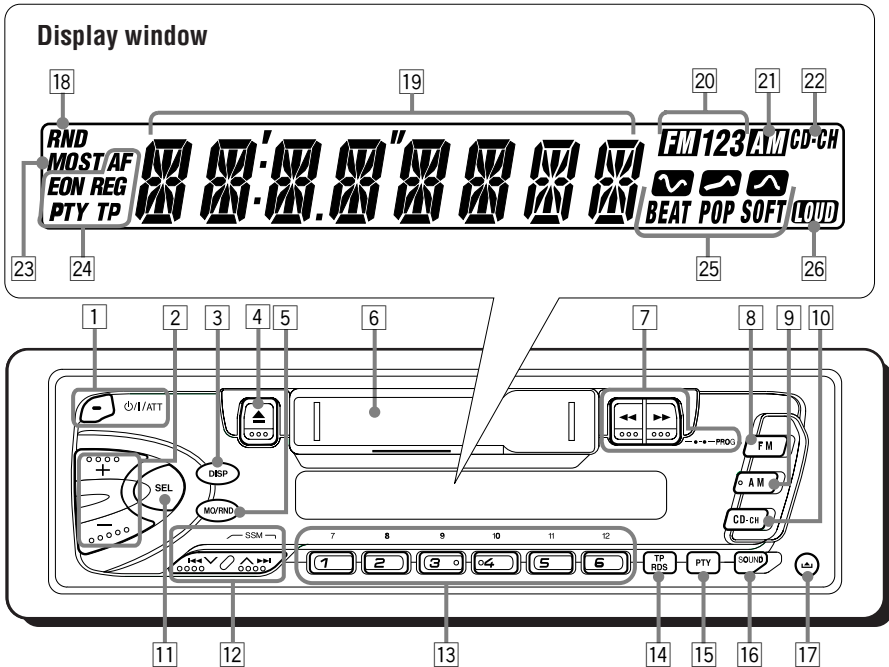
1. ⏻/I/ATT (standby/on/attenuator) button
2. +/– buttons
3. DISP (display) button
4. ⏏ (eject) button
5. MO/RND (monaural/random) button
6. Cassette compartment
7. ◀◀/▶▶ (PROG:program) buttons
8. FM button
9. AM button
10. CD-CH (CD changer) button
11. SEL (select) button
12. ◀◀ ▼/▲ ▶▶ buttons
    • *Also function as SSM buttons when pressed together.*
13. Number buttons
14. TP (traffic programme) button
    RDS (radio data system) button
15. PTY (programme type) button
16. SOUND button
17. ⏏ (control panel release) button

Display window

18. RND (random) indicator
19. Main display
20. FM band number indicators
    FM1, FM2, FM3
21. AM indicator
22. CD-CH (CD changer) indicator
23. MO (monaural) indicator
    ST (stereo) indicator
24. RDS indicators
    AF, EON, REG, PTY, TP
25. Sound mode indicators
    BEAT, POP, SOFT
26. LOUD indicator

3

Control panel — KS-F363R/KS-F360R
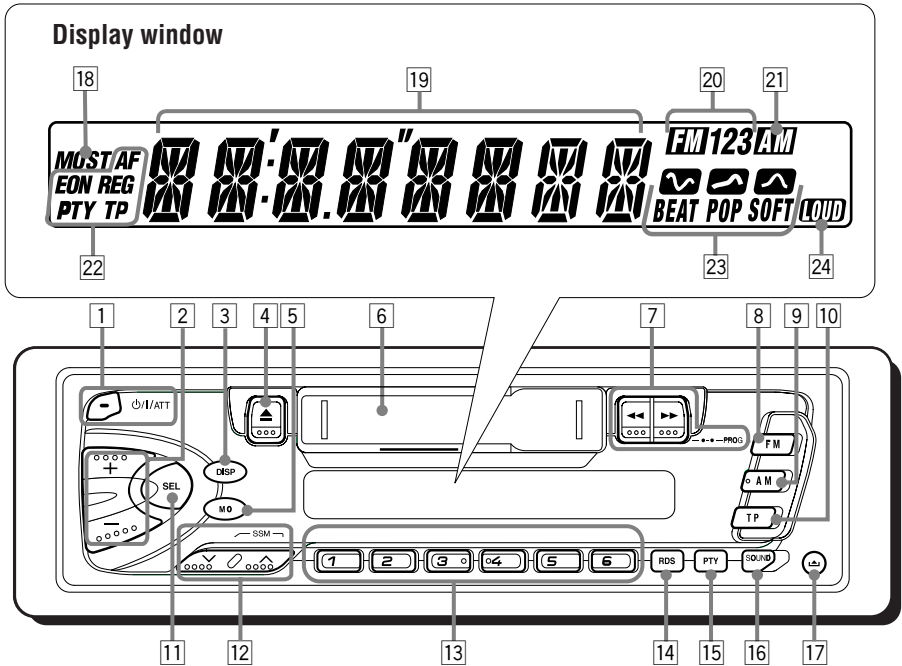
ENGLISH

Display window

1. ⏻/I/ATT (standby/on/attenuator) button
2. +/– buttons
3. DISP (display) button
4. ⏏ (eject) button
5. MO (monaural) button
6. Cassette compartment
7. ◄◄/►► (PROG:program) buttons
8. FM button
9. AM button
10. TP (traffic programme) button
11. SEL (select) button
12. ∨/∧ buttons
    - *Also function as SSM buttons when pressed together.*
13. Number buttons
14. RDS (radio data system) button
15. PTY (programme type) button
16. SOUND button
17. ◢ (control panel release) button

Display window

18. MO (monaural) indicator
    ST (stereo) indicator
19. Main Display
20. FM band number indicators
    FM1, FM2, FM3
21. AM indicator
22. RDS indicators
    AF, EON, REG, PTY, TP
23. Sound mode indicators
    BEAT, POP, SOFT
24. LOUD indicator

ENGLISH

KS-FX473R/KS-FX470R

KS-F363R/KS-F360R
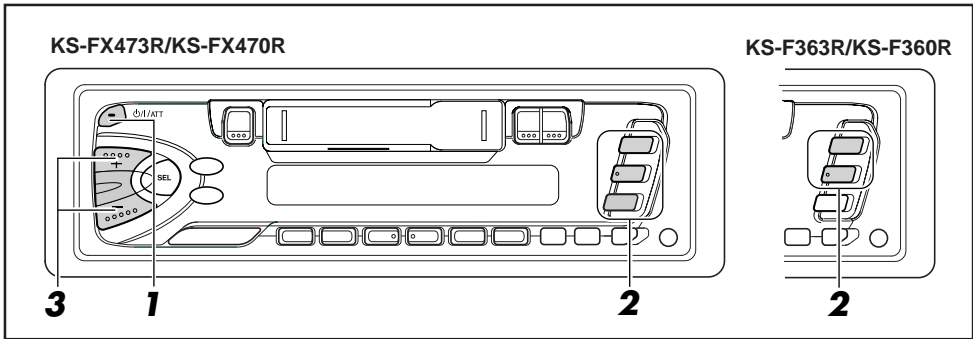

Turning on the power

1 Turn on the power.

ᗭ/I/ATT

Notes 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.*
- *If the cassette is already in the cassette compartment, tape play starts automatically. However, it is not recommended to leave the cassette in the compartment when turning off the power or ignition key. It may damage the tape head and the cassette.*

2 Select the source.

FM
AM
CD-CH

FM
AM
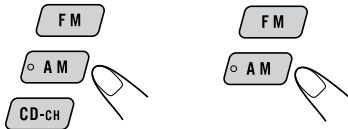
KS-FX473R
KS-FX470R

KS-F363R
KS-F360R

To operate the tuner (FM or AM),
    see pages 6 – 14.
To operate the tape,
    see page 15.
To operate the CD changer
(Only for KS-FX473R/KS-FX470R),
    see pages 22 – 23.

3 Adjust the volume.

To increase the volume.

To decrease the volume.

$$VOL \quad 20$$
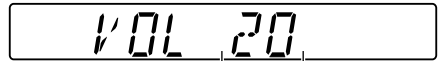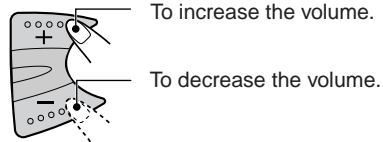
Volume level appears.

4 Adjust the sound as you want. (See pages 16 – 17.)

To drop the volume in a moment

Press ᗭ/I/ATT briefly while listening to any source. "ATT" starts flashing on the display, and the volume level will drop in a moment.
To resume the previous volume level, press the button briefly again.

To turn off the power

Press and hold ᗭ/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 18.

5

RADIO BASIC OPERATIONS

Only for KS-F363R/
KS-F360R

Listening to the radio

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

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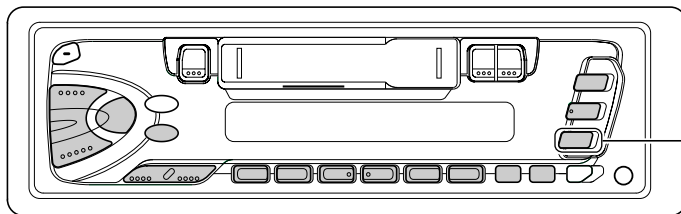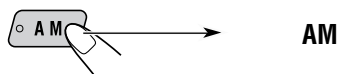*When a cassette is in the cassette compartment, you cannot select the tuner. Be sure to eject the cassette from the cassette compartment to listen to the radio.*

Searching a station automatically: Auto search

1 **Select the band (FM1 – 3, AM).**
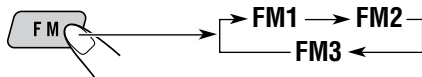
FM ──→ FM1 ──→ FM2
         FM3 ◄──

AM ──→ AM

Selected band appears.
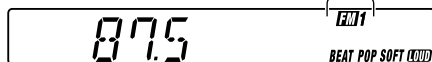
87.5   FM1

BEAT POP SOFT LOUD

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.**

To search stations of lower frequencies.

KS-FX473R   KS-F363R
KS-FX470R   KS-F360R

To search stations of higher 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).**

FM ──→ FM1 ──→ FM2
         FM3 ◄──

AM ──→ 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 ◄◄ ∨/∧ ►►| (for KS-FX473R/KS-FX470R) or ∨/∧ (for KS-F363R/KS-F360R) until "M (manual)" starts flashing on the display.

KS-FX473R
KS-FX470R

KS-F363R
KS-F360R

$$88.3 \quad M \quad {}^{FM}1$$
BEAT POP SOFT LOUD

3 Tune into a station you want while "M" is flashing.
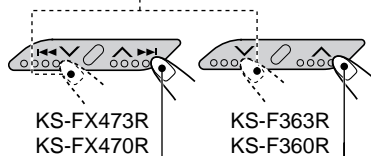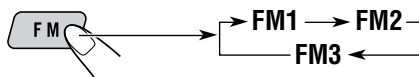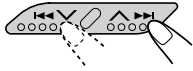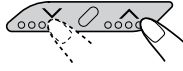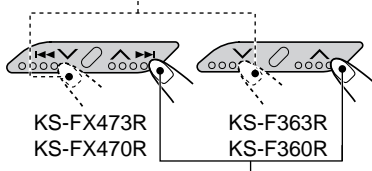
To tune into stations of lower frequencies.

KS-FX473R
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KS-F360R

To tune into stations of higher frequencies.

• 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.
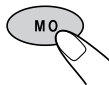
When an FM stereo broadcast is hard to receive:

Press MO/RND (for KS-FX473R/KS-FX470R) or MO (for KS-F363R/KS-F360R) while listening to an FM stereo broadcast.
• Each time you press the button, the MO indicator lights up and goes off alternately.

MO/RND

MO

KS-FX473R
KS-FX470R

KS-F363R
KS-F360R

Lights up when receiving an FM broadcast in stereo.

$$ST \quad 88.3 \longleftrightarrow {}^{MO} 88.3$$
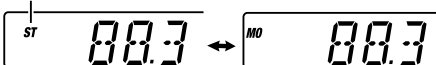
When the MO indicator is lit on the display, the sound you hear becomes monaural but the reception will be improved (the ST indicator goes off).

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

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 (FM1 – 3) you want to store FM stations into.

FM ➜ FM1 ➜ FM2 ➜ FM3 ↩
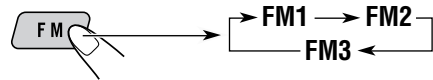
2 Press and hold both buttons for more than 2 seconds.

— SSM —

— SSM —

KS-FX473R
KS-FX470R

KS-F363R
KS-F360R

$$\text{-- -- } SSM \text{ -- --} \quad {}^{FM}1$$
BEAT POP SOFT LOUD
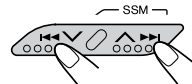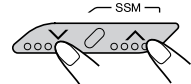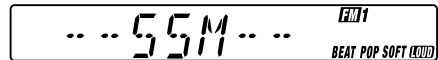
"SSM" appears, then disappears when automatic preset is over.

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.

7

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

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

FM → FM1 → FM2
FM3 ←
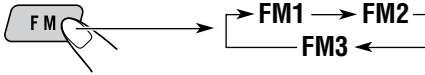
2 **Tune into a station (in this example, of 88.3 MHz).**

To tune into stations of lower frequencies.

KS-FX473R   KS-F363R
KS-FX470R   KS-F360R

To tune into stations of higher frequencies.

ST **88.3**   FM1
                          BEAT POP SOFT LOUD
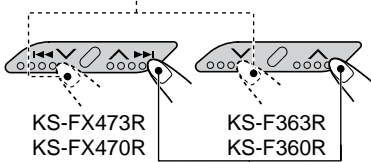
3 **Press and hold the number button (in this example, 1) for more than 2 seconds.**

1

ST **88.3**   P1   FM1
                          BEAT POP SOFT LOUD
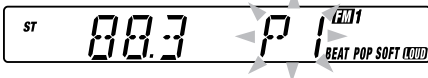
"P1" flashes for a few seconds.

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 7.

1 **Select the band (FM1 – 3, AM).**

FM → FM1 → FM2
FM3 ←

AM → AM
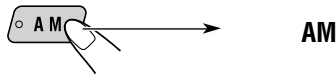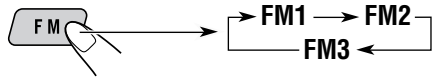
2 **Select the number (1 – 6) for the preset station you want.**

1   2   3   4   5   6
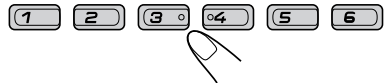
What you can do with RDS

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 these 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
• 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 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.

Using Network-Tracking Reception

For KS-FX473R/KS-FX470R:

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 → Mode 2 → Mode 3 ┐
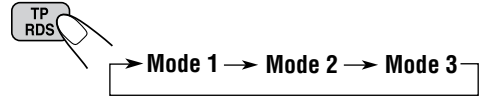
For KS-F363R/KS-F360R:

Press RDS (Radio Data System). Each time you press the button, Network-Tracking Reception change as follows:

→ Mode 1 → Mode 2 → Mode 3 ┐

AF indicator
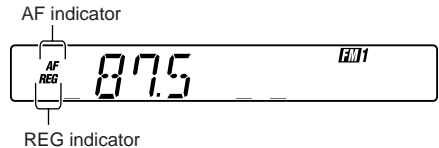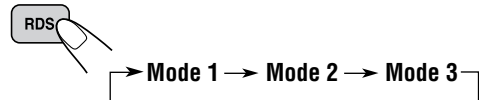
REG indicator

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.

The same programme can be received on different frequencies.

Programme 1 broadcasting on frequency A

Programme 1 broadcasting on frequency E

Programme 1 broadcasting on frequency B

Programme 1 broadcasting on frequency C

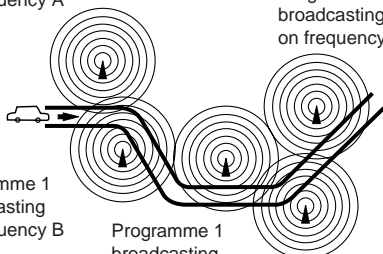Programme 1 broadcasting on frequency D

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, or CD changer (only for KS-FX473R/KS-FX470R).

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

TA Standby Reception

TP
RDS

KS-FX473R
KS-FX470R

T P
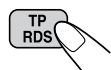
KS-F363R
KS-F360R

When you press TP RDS (for KS-FX473R/KS-FX470R) or TP (for KS-F363R/KS-F360R) 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.
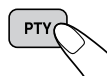
• *When the station being received is not a TP station, the TP indicator flashes. Press* |◀◀ ∨/∧ ▶▶| *(for KS-FX473R/KS-FX470R) or* ∨/∧ *(for KS-F363R/KS-F360R) to engage the TA standby mode. "SEARCH" appears on the display, and TP station search starts. When a TP station is tuned into, the TP indicator is lit.*

■ If you are listening to a cassette (or CD changer: only for KS-FX473R/KS-FX470R) and wish to listen to a TP station, eject the cassette and press TP RDS or TP 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 13) and the traffic programme can be heard.

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

PTY Standby Reception

PTY

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 11 flashes for 5 seconds.

• *When the station being received is not a PTY station, the PTY indicator flashes. Press* |◀◀ ∨/∧ ▶▶| *(for KS-FX473R/KS-FX470R) or* ∨/∧ *(for KS-F363R/KS-F360R) 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 cassette (or CD changer: only for KS-FX473R/KS-FX470R) and wish to listen to a selected PTY broadcast, eject the cassette and 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.
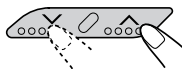
1 **Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 20.)**

2 **Select "PTY STBY (standby)" if not shown on the display.**
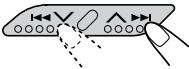
KS-FX473R
KS-FX470R

KS-F363R
KS-F360R

3 **Select one of twenty-nine PTY codes. (See page 14.)**

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 12.

1	2	3
POP M	ROCK M	EASY M

4	5	6
CLASSICS	AFFAIRS	VARIED

To store your favorite programme types

1 **Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 20.)**

2 **Select "PTY SRCH (search)" if not shown on the display.**
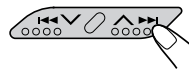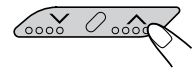
KS-FX473R
KS-FX470R

KS-F363R
KS-F360R

3 **Select one of twenty-nine PTY codes. (See page 14.)**
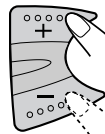
Selected code name appears on the display.
• If the code already stored in memory is selected, it will flash on the display.

4 **Press and hold the number button for more than 2 seconds to store the PTY code selected into the preset number you want.**

[1] [2] [3] [4] [5] [6]
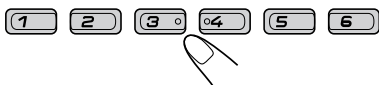
The selected code name will flash on the display.

5 **Press SEL (select) to finish the setting.**

SEL

To search your favorite programme type

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

PTY

POP M BEAT POP SOFT LOUD
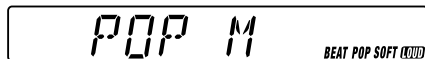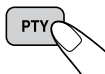
The last selected PTY code appears.

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

[1] [2] [3] [4] [5] [6]

ROCK M BEAT POP SOFT LOUD
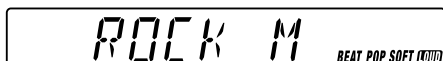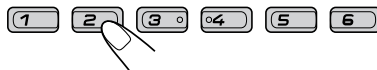
Ex.: When "ROCK M" is stored in preset number button 2

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 into.
• 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

Changing the display mode while listening to an FM station

You can change the initial indication on the display to station name (PS NAME), station frequency (FREQ) or clock time (CLOCK), while listening to an FM RDS station.
• See also "Changing the general settings (PSM)" on page 19.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press ⏮ ∨/∧ ⏭ (for KS-FX473R/KS-FX470R) or ∨/∧ (for KS-F363R/KS-F360R) to select "DISPMODE" (display mode).
3 Press + or – to set to the desired indication ("PS NAME," "FREQ" or "CLOCK").
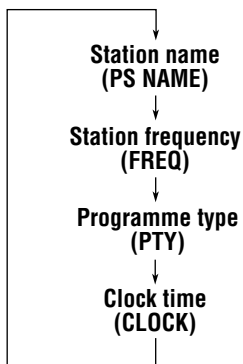**4** Press SEL (select) to finish the setting.

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 display:

↓
**Station name
(PS NAME)**
↓
**Station frequency
(FREQ)**
↓
**Programme type
(PTY)**
↓
**Clock time
(CLOCK)**

• *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 19.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press ⏮ ∨/∧ ⏭ (for KS-FX473R/KS-FX470R) or ∨/∧ (for KS-F363R/KS-F360R) to select "TA VOL."
3 Press + or – 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 19.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press ⏮ ∨/∧ ⏭ (for KS-FX473R/KS-FX470R) or ∨/∧ (for KS-F363R/KS-F360R) to select "AUTO ADJ (adjustment)."
3 Press – to select "ADJ OFF."
Now automatic clock adjustment is canceled.
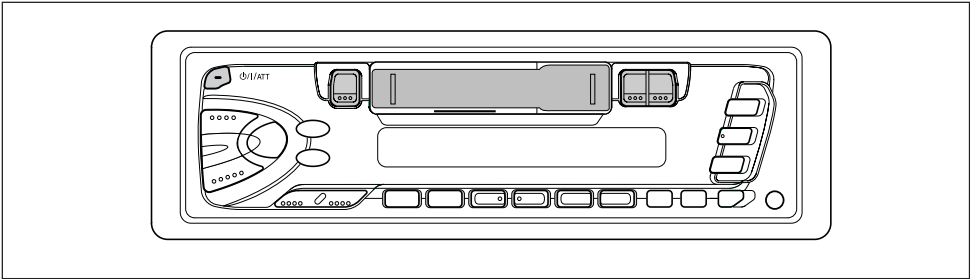**4** Press SEL (select) to finish the setting.

To reactivate clock adjustment, repeat the same procedure and select "ADJ ON" in step 3 by pressing +.

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

PTY codes

NEWS: News

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

VARIED: 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

SOCIAL: Programmes on social activities

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

LEISURE: Programmes concerned with 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

OLDIES: Classic pop music

FOLK M: Folk music

DOCUMENT: Programmes dealing with factual matters, presented in an investigative style

# Listening to a cassette

You can playback type 1 (normal) tapes.

1 Turn on the power.

Note on One-Touch Operation:

If a cassette is already in the cassette compartment, tape play starts automatically. However, it is not recommended to leave the cassette in the compartment when turning off the power or ignition key. It may damage the tape head and the cassette.

2 Insert a cassette into the cassette compartment.
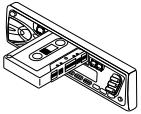
When one side of the tape reaches its end during play, the other side of the tape automatically starts playing. (Auto Reverse)

3 Select the tape direction.
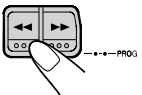
Press both buttons at the same time.
Each time you press both buttons, the tape direction changes alternately — forward ($TRPE$: : :) and reverse ($TRPE$: : :).

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.
• You cannot change the source if the cassette is still in the cassette compartment.
  To change source, you must eject the cassette first.
• You can also eject the cassette by pressing ▲ while the unit is turned off.

To fast-wind a tape
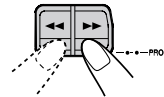
Press in ►► or ◄◄.
The tape will be wound in the direction of the arrows (►► or ◄◄).

Tape direction
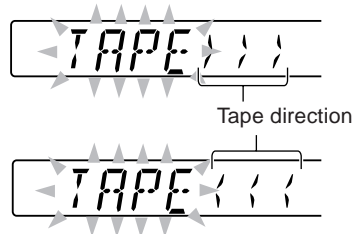
To restart playback, lightly press the other button which is not pressed in (◄◄ or ►►).

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SOUND ADJUSTMENTS

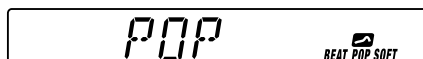## Selecting preset sound modes

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

Select the sound mode you want.

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

→ SCM OFF → ⌇ → ⌇ → ⌇ ┐
                (BEAT) (POP) (SOFT)

POP   BEAT POP SOFT

For example, when "POP" is selected.

Indication	For:	Preset values		
		BAS	TRE	LOUD
SCM OFF	(Flat sound)	00	00	ON
BEAT	Rock or disco music	+2	00	ON
POP	Light music	+4	+1	OFF
SOFT	Quiet background music	+1	−3	OFF

Notes:

• *You can adjust 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 17.
• *To adjust the bass and treble reinforcement levels or to turn on/off the loudness function temporarily, see the right column. (Your adjustments will be canceled if another source is selected.)*
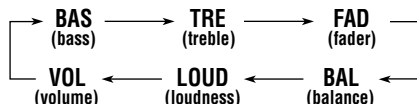
Adjusting the sound

You can adjust the sound characteristics to your preference.

1 Select the item you want to adjust.

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

→ BAS ——→ TRE ——→ FAD ┐
  (bass)   (treble)   (fader)
  VOL ←—— LOUD ←—— BAL ←
  (volume) (loudness) (balance)

Indication	To do:	Range
BAS	Adjust the bass.	−6 (min.) | +6 (max.)
TRE	Adjust the treble.	−6 (min.) | +6 (max.)
FAD*	Adjust the front and rear speaker balance.	R6 (Rear only) | F6 (Front only)
BAL	Adjust the left and right speaker balance.	L6 (Left only) | R6 (Right only)
LOUD	Boost low and high frequencies to produce a well-balanced sound at low volume level. (When the loudness is on, the LOUD indicator lights up.)	LOUD ON | LOUD OFF
VOL	Adjust the volume.	00 (min.) | 50 (max.)

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

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2 Adjust the level.

To increase the level.

To decrease the level.

$$TRE \quad +6$$
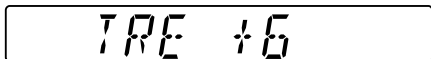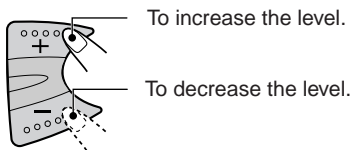
Note:
Normally, the + and – buttons works as the volume control. So you do not have to select "VOL" to adjust the volume level.

Storing your own sound adjustments

You can adjust the sound modes (BEAT, POP, SOFT) 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.
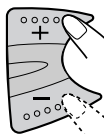
1 Call up the sound mode you want to adjust.

SOUND
• See the left column for details.
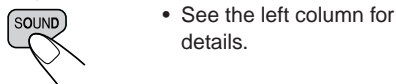
2 Select "BAS" (bass), "TRE" (treble) or "LOUD" (loudness).

SEL

3 Adjust the bass or treble level or turn the loudness function ON/OFF.
• See page 16 for details.

4 Repeat steps 2 and 3 to adjust the other items.

5 Press and hold SOUND until the sound mode you have selected in step 1 flashes on the display.

SOUND
Your adjustment made for the selected sound mode is stored in memory.
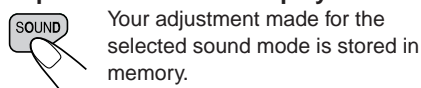
6 Repeat the same procedure to store other sound modes.

To reset to the factory settings

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

Setting the clock

You can also set the clock system to either 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. (See page 20.)**
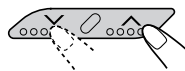
SEL

2 **Set the hour.**
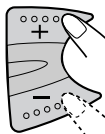   1 Select "CLOCK H" if not shown on the display.

KS-FX473R
KS-FX470R
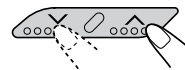
KS-F363R
KS-F360R

   2 Adjust the hour.

3 **Set the minute.**
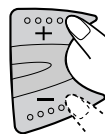   1 Select "CLOCK M."

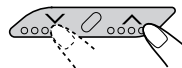KS-FX473R
KS-FX470R

KS-F363R
KS-F360R

   2 Adjust the minute.

4 **Set the clock system.**
   1 Select "24H/12H."

KS-FX473R
KS-FX470R

KS-F363R
KS-F360R

   2 Select "24H" or "12H."

5 **Press SEL (select) to finish the setting.**

SEL
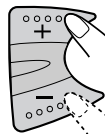
To check the current clock time or change the display mode
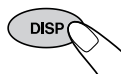
DISP

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

• **During tuner operation:**

Frequency ⟷ **Clock**

Notes:
* *For the indication change during RDS operation, see page 13.*

• **During tape operation:**

Play mode (tape direction) ⟷ **Clock**

• **During CD changer operation: (For KS-FX473R/KS-FX470R only.)**

Disc number → **Clock** → **Elapsed playing time**

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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 20.)**
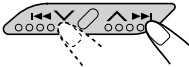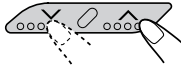
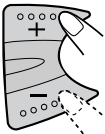

2 **Select the item you want to adjust. (See page 20.)**

KS-FX473R
KS-FX470R

KS-F363R
KS-F360R

3 **Select or adjust the item selected above.**

4 **Repeat steps 2 and 3 to adjust the other PSM items if necessary.**

5 **Press SEL (select) to finish the setting.**

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.

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."**
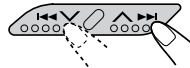
KS-FX473R
KS-FX470R

KS-F363R
KS-F360R

3 **Select the desired setting — "MUTING 1," "MUTING 2."**

4 **Press SEL (select) to finish the setting.**

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ENGLISH

Preferred Setting Mode (PSM) items

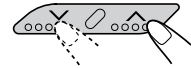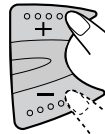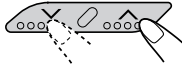| 1 SEL Hold.	2 KS-FX473R/KS-FX470R KS-F363R/KS-F360R Select.	3 Set. –	+	Factory-preset settings	See page
CLOCK H	Hour adjustment	Back	Advance	0:00	18
CLOCK M	Minute adjustment	Back	Advance		18
24H/ 12H	24/12-hour time display	12H	24H	24H	18
AUTO ADJ	Automatic clock setting	ADJ OFF	ADJ ON	ADJ ON	13
DISPMODE	Display mode	PS NAME ↔ FREQ ↳ CLOCK ↵		PS NAME	13
CH DISP*	Changer display	TIME	DISC	DISC	20
PTY STBY	PTY standby	29 programme types (see page 14.)		NEWS	10
PTY SRCH	PTY search			(See page 10.)	10
TA VOL	Traffic announcement volume	VOL 00 – VOL 50		VOL 20	13
TEL	Telephone muting	OFF ↔ MUTING 1 ↳ MUTING 2 ↵		OFF	19

*Only for KS-FX473R/KS-FX470R

Selecting the initial CD information display

You can select what type of the CD playback information to be initially shown on the display when you start playing a CD. When shipped from the factory, the disc number and track number information selected is shown.
• DISC: Disc number appear on the display.
• TIME: Elapsed playing time appears on the display.

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 "CH DISP (changer display)."
3. Press + or – to set to the desired indication ("TIME" or "DISC").
4. Press SEL (select) to finish the setting.

To see other information while playing a CD, press DISP.
Each time you press the button, the information changes alternately.

Disc number → Clock → Elapsed playing time

20

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.
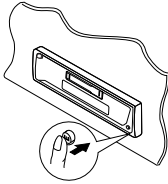
2 Lift and pull the control panel out of the unit.
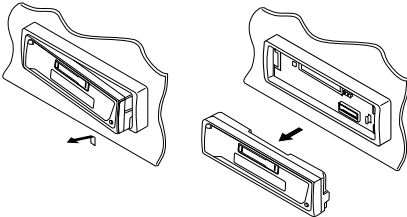
3 Put the detached control panel into the provided case.
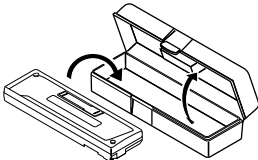
Attaching the control panel

1 Insert the left side of the control panel into the groove on the panel holder.
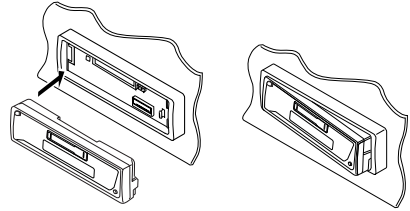
2 Press the right side of the control panel to fix it to the panel holder.
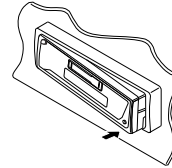
Note on cleaning the connectors:
If you frequently detach the control panel, the connectors will deteriorate.
To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.

Connectors

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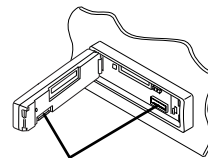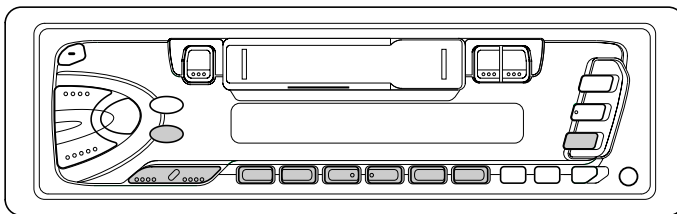
This section is only for KS-FX473R/KS-FX470R.

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 CD" or "NO DISC" will appear on the display. If this happens, remove the magazine and set the discs correctly.
• If "RESET 1" – "RESET 8" appears on the display, something is wrong with the connection between this unit and the CD changer. If this happens, check the connection 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).

CD-CH

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

Disc number

Track number

Note on One-Touch Operation:
When you press CD-CH, the power automatically turns on. You do not have to press ⏻/I/ATT to turn on the power.

To fast-forward or reverse the track

Press and hold $\wedge$ ►►I, while playing a CD, to fast-forward the track.

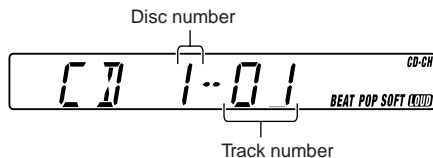Press and hold I◄◄ $\vee$, while playing a CD, to reverse the track.

To go to the next track or the previous tracks

Press $\wedge$ ►►I 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◄◄ $\vee$ 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).

```
  7        8        9       10       11       12
[  1  ] [  2  ] [  3 ∘] [∘4  ] [  5  ] [  6  ]
```
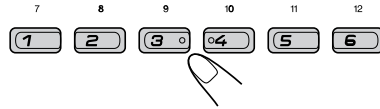
• To select a disc number from 1 – 6:
Press 1 (7) – 6 (12) briefly.
• To select a disc number from 7 – 12:
Press and hold 1 (7) – 6 (12) for more than 1 second.

Disc number

```
 [ ]     [ ] - - [ ] [ ]          CD-CH

                          BEAT POP SOFT LOUD
```
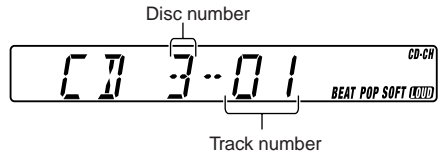
Track number

Ex. When disc number 3 is selected

Playing at random (Random Play)

MO/RND

Each time you press the button, CD random play mode changes as follows:

→ **RND1** → **RND2**

Canceled ←

Mode	RND Indicator	Plays at random
RND1 (random1)	Lights	All tracks of the current disc, then the tracks of the next disc, and so on.
RND2 (random2)	Flashes	All tracks of all discs inserted in the magazine.

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?! 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

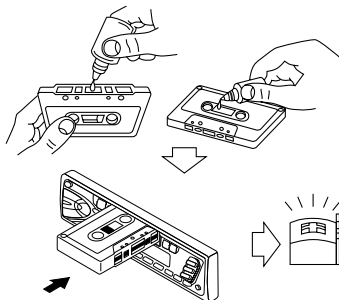- Clean the head after every 10 hours of use using a wet-type head cleaning tape (available at an audio store).
  When the head becomes dirty, you may realize the following symptoms:
  – Sound quality is reduced.
  – Sound level decreases.
  – Sound drops out.
- Do not play dirty or dusty tapes.
- Do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

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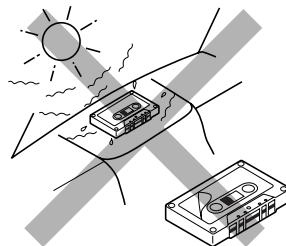
- Always store the cassettes to their storage cases after use.
- Do not store cassettes in the following places:
  – Subject to direct sunlight
  – With high humidity
  – At extremely hot temperatures

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.*

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

ENGLISH

Symptoms	Causes	Remedies
• A cassette tape cannot be inserted.	You have tried to insert a cassette in the wrong way.	Insert the cassette with the exposed tape facing right.
• Cassette tapes become hot.	This is not a malfunction.	——————————
• Tape sound is at very low level and sound quality is degraded.	The tape head is dirty.	Clean it with a head cleaning tape.
• Sound is sometimes interrupted.	Connections are not good.	Check the cords and connections.
• Sound cannot be heard from the speakers.	The volume 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.

For KS-FX473R/KS-FX470R only:

Symptoms	Causes	Remedies
• "NO CD" or "NO DISC" appears on the display.	No CD is in the magazine.	Insert CDs into the magazine.
	CDs are inserted incorrectly.	Insert them correctly.
• "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.

SPECIFICATIONS

AUDIO AMPLIFIER SECTION

Maximum Power Output:
    Front: 40 W per channel
    Rear: 40 W per channel
Continuous Power Output (RMS):
    Front: 16 W per channel into 4 Ω, 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:
    KS-FX473R/KS-FX470R: 2.0 V/20 kΩ load
                            (250 nWb/m)
    KS-F363R/KS-F360R: 1.0 V/20 kΩ 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 μV/75 Ω)
50 dB Quieting Sensitivity:
    16.3 dBf (1.8 μV/75 Ω)
Alternate Channel Selectivity (400 kHz):
    65 dB
Frequency Response: 40 Hz to 15 000 Hz
Stereo Separation: 30 dB
Capture Ratio: 1.5 dB

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

[LW Tuner]
Sensitivity: 50 μV

CASSETTE DECK SECTION

Wow & Flutter: 0.15% (WRMS)
Fast-Wind Time: 190 sec. (C-60)
Frequency Response: 50 Hz to 14 000 Hz
                              (Normal tape)
Signal-to-Noise Ratio: 52 dB
Stereo Separation: 40 dB

GENERAL

Power Requirement:
    Operating Voltage: DC 14.4 V
                      (11 V to16 V allowance)
Grounding System: Negative ground
Allowable Operating Temperature: 0°C to +40°C
Dimensions (W × H × D):
    Installation Size: 182 mm × 52 mm × 150 mm
    Panel Size: 188 mm × 58 mm × 14 mm
    Mass: 1.3 kg (excluding accessories)

Design and specifications subject to change without notice.

JVC

VICTOR COMPANY OF JAPAN, LIMITED