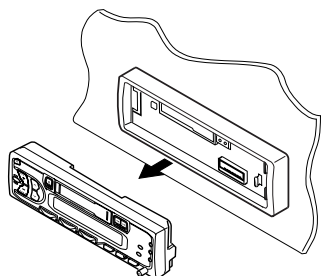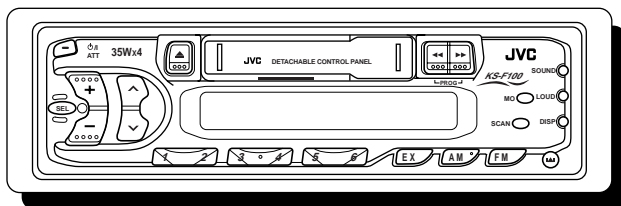# JVC

CASSETTE RECEIVER
CASSETTEN-RECEIVER
RADIOCASSETTE
RADIO/CASSETTESPELER

KS-F100

Detachable

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

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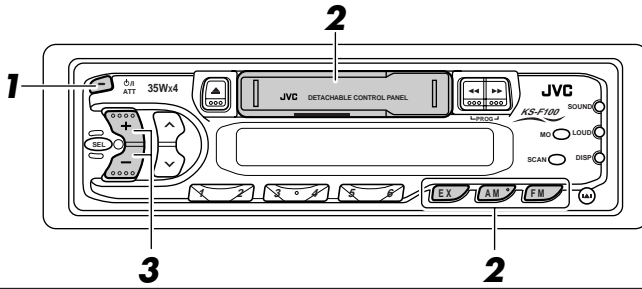
* For safety....
• *Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.*
• *Stop the car before performing any complicated operations.*

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

BASIC OPERATIONS

Note:
When you use this unit for the first time, set the built-in clock correctly, see page 13.
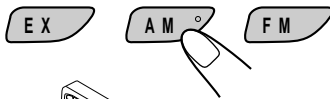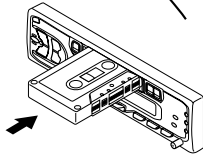
1

Turn on the power.

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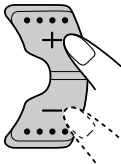
2

Play the source.

To operate the tuner, see pages 4 – 8.
To operate the tape deck, see page 9.

EX (extra) button: *To use this button, you need to preset your favorite station in advance. For details, see pages 6 – 7.*

3

Adjust the volume.

    VOL   20
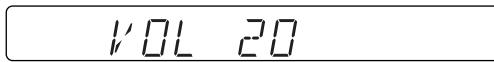
Volume level appears.

4

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

To drop the volume in a moment

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

To turn off the power

Press ⏻ ATT for more than 1 second.

Note:
For security reasons, a numbered ID card is provided with this unit, and 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.

3

Listening to the radio

1 — — [control panel illustration: JVC KS-F100 DETACHABLE CONTROL PANEL] — *2*

3

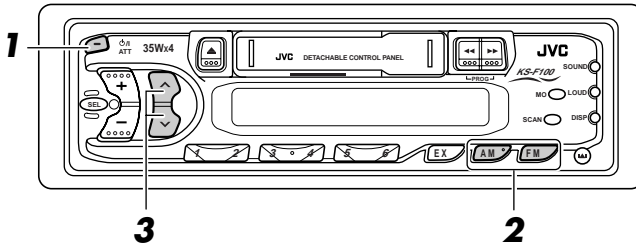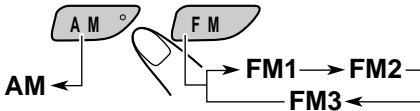
1

⏻/Ɪ
ATT

Turn on the power.

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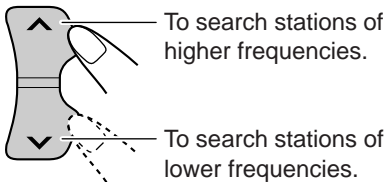

2

A M °   F M

AM ←   **FM1 → FM2**
       FM3 ←

Select the band (FM1, FM2, FM3 or AM).
You can select any one of FM1, FM2, and FM3 to listen to an FM station.

FM1   *87.5*   POP SOFT BEAT

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

3

∧ —— To search stations of higher frequencies.

∨ —— To search stations of lower frequencies.

Start searching a station.
When a station is received, searching stops.

FM1   *88.3*   POP SOFT BEAT

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

To tune in a particular frequency manually:

1 Press FM or AM to select the band.
2 Press and hold ∧ or ∨ until "M" starts flashing on the display.
Now you can manually change the frequency while "M" is flashing.
3 Press ∧ or ∨ repeatedly until the frequency you want is reached.
 • If you hold down the button, the frequency keeps changing (in 50 kHz intevals for FM and 9 kHz intervals for AM — MW/LW) until you release the button.
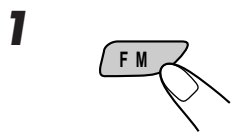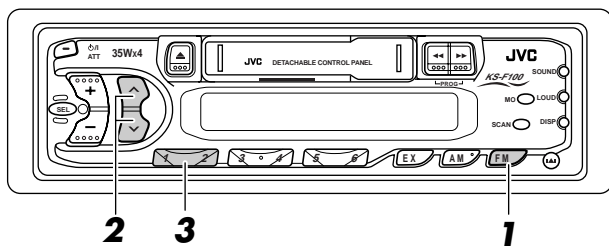
Storing stations in memory
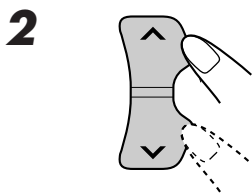
You can store the broadcasting stations in memory.

Storing stations manually

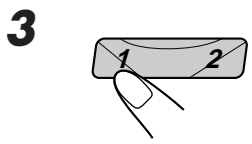You can preset up to 6 stations in each band (FM1, FM2, FM3 and AM) manually.

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

2   3   1

1

F M

Select the FM1 band.

$$FM1 \quad 87.5 \quad \text{POP \ SOFT \ BEAT}$$

2

Tune into a station of 88.3 MHz.
See page 4 to tune into a station.

$$FM1 \quad 88.3 \quad \text{POP \ SOFT \ BEAT}$$

3

1   2

Press and hold the button for more than 1 second.

$$FM1 \quad 88.3 \quad 1 \quad \text{POP \ SOFT \ BEAT}$$

Preset number "1" flashes for a while.

4

Repeat the above procedure to store other stations into other preset numbers.
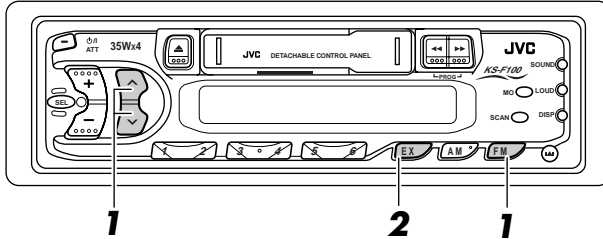
Notes:
- *A previously preset station is erased when a new station is stored in the same preset number.*
- *Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.*

5

Storing your favorite stations into the one-touch operation button (EX — extra)

You can preset an FM or AM station (such as your favorite station or traffic announcement station); and recall it by one touch operation even if the unit is turned off.

EXAMPLE: Storing an FM station of 88.3 MHz into the one-touch operation button (EX)

1

Follow the steps **1** and **2** on page 5.

2

EX

Press and hold the button for more than 1 second.

"0" flashes on the display, showing that the station has been preset.

FM1   88.3   0   POP   SOFT   BEAT
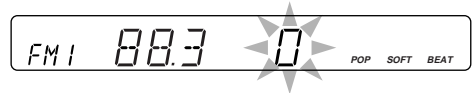
Notes:

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

Tuning into a preset station

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

2   EX   1

1
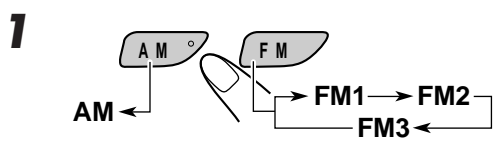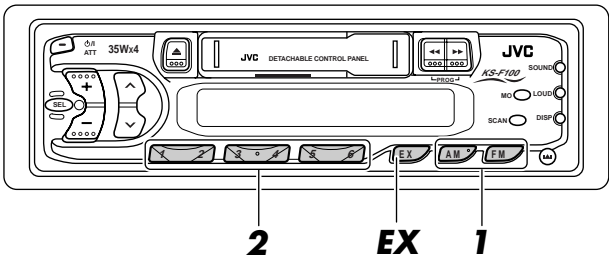
AM → FM1 → FM2
FM3 ←

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

2

1   2   3   4   5   6
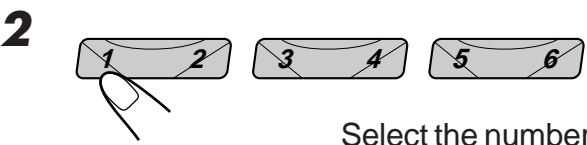
Select the number (1 – 6) for the preset station you want.
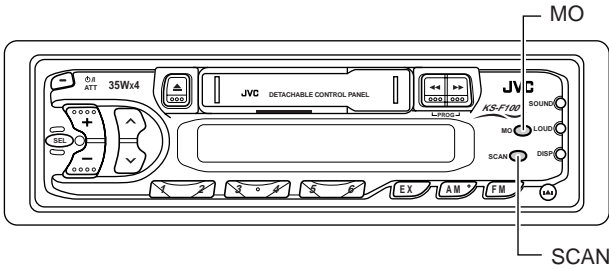
To tune in the favorite station

EX

The unit automatically turns on (if it has been off).
Your favorite station is tuned in — except when the tape is playing.
• *If you press the button again, the last received station will be tuned in.*

7

Other convenient tuner functions

MO

SCAN

Scanning broadcast stations

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

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

Selecting FM reception sound

When an FM stereo broadcast is hard to receive:

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

Lights when receiving an
FM broadcast in stereo

$$FM1 \quad 88.3 \qquad \boxed{STEREO} \quad \Longrightarrow \quad FM1 \; MONO \qquad MONO$$
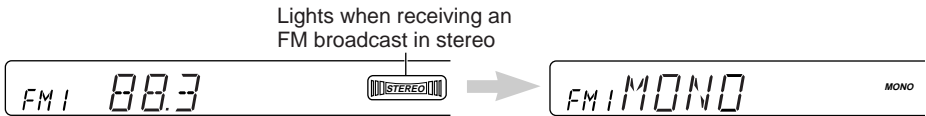
To restore the stereo effect, press the same button again.

8

TAPE OPERATIONS 📼

Listening to a tape

2   **3**

ENGLISH

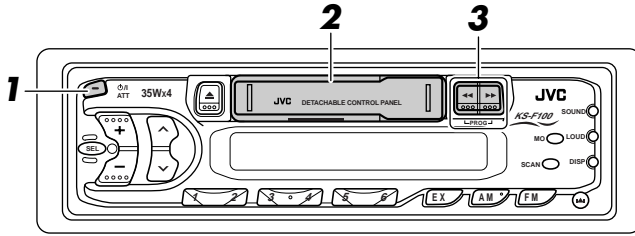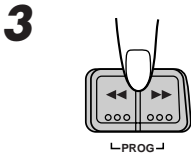**1**   Turn on the power.
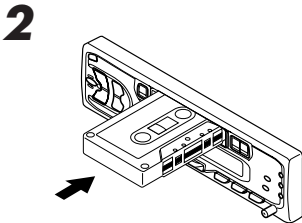
2   Insert a cassette.
When one side of the tape reaches its end during play, the other side of the tape automatically starts playing. (Auto Reverse)

3   Select the tape direction.
• *Press the both buttons at the same time.*
Each time you press the button, the tape direction changes alternatively – forward ($TAPE\rangle\rangle\rangle$) and reverse ($TAPE\langle\langle\langle$).

To stop play and eject the cassette
Press ▲.
Tape play stops and the cassette ejects from the cassette compartment.
You can hear the last received station.
• *You can also eject the cassette with the unit turnd off.*

To fast-wind a tape
Press either ►► or ◄◄.
The tape will be wound in the direction of the arrows
(►► or ◄◄).
To restart playback, press ►► or ◄◄ lightly.

$TAPE\rangle\rangle\rangle$

$TAPE\langle\langle\langle$

9

🎵 SOUND ADJUSTMENTS

Turning on/off the loudness function

The human ear is less sensitive to low and high frequencies at low volumes.
The loudness function can boost these frequencies to produce a well-balanced sound at low volume levels.
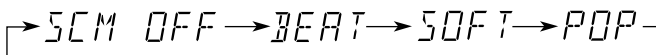Each time you press LOUD, the loudness function turns on/off alternatively.

LOUD

$$LOUD \ ON \longleftrightarrow LOUDOFF$$

Selecting preset sound modes

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

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

SOUND

$$SCM \ OFF \rightarrow BEAT \rightarrow SOFT \rightarrow POP$$

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

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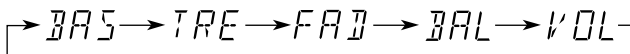- *When one of the sound modes is selected, it is shown on the display as follows:*

$$POP \quad \boxed{POP} \ SOFT \ BEAT$$
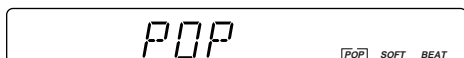
For example, when "POP" is selected.

Adjusting the sound

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

1

SEL
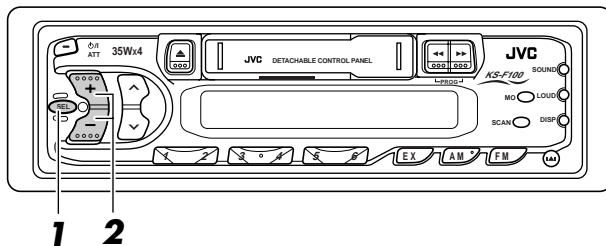
Select the item you want to adjust.

$$\rightarrow BAS \rightarrow TRE \rightarrow FAD \rightarrow BAL \rightarrow VOL \rightarrow$$

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

Note:
* If you are using a two-speaker system, set the fader level to "00" (center).
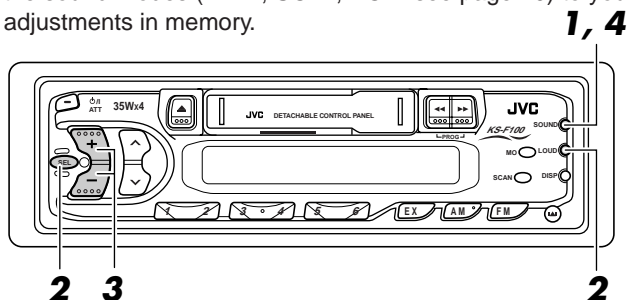
2
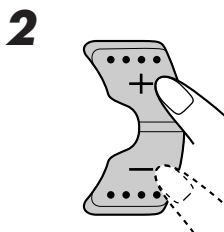
Adjust the level.

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

11

Storing your own sound adjustments

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

1, 4

2 3   **2**

1 SOUND

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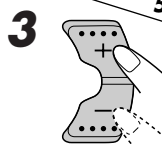See page 10 for details.

Within 5 seconds

2 SEL

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

LOUD

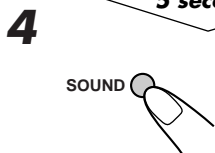To turn on or off the loudness function
Each time you press LOUD, the loudness function turns on and off alternatively. (→ go to step 4)

Within 5 seconds

3

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

Within 5 seconds

4 SOUND

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

5

Repeat the same procedure to store other settings.

To reset to the factory settings

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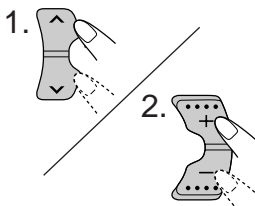
Setting the clock

1

SEL
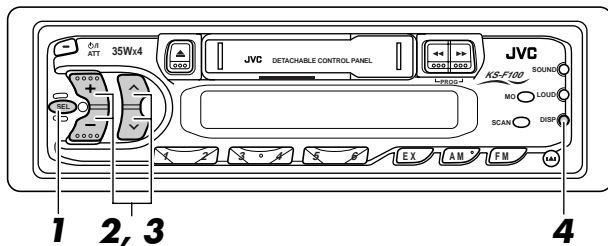
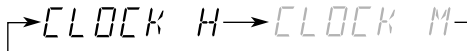Press and hold the button for more than 2 seconds.
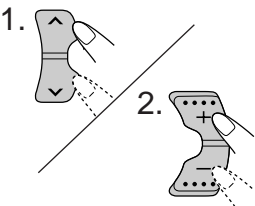
"CLOCK H" or "CLOCK M" appears on the display.

2 1.

2.

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

$$\rightarrow CLOCK \ H \rightarrow CLOCK \ M \rightarrow$$

2. Adjust the hour.

3 1.

2.

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

$$\rightarrow CLOCK \ H \rightarrow CLOCK \ M \rightarrow$$
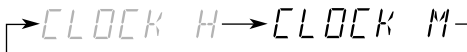
2. Adjust the minute.

4 **DISP**

Start the clock.

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

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

| During tuner operation:	During tape operation:
Frequency ⟷ Clock	Play mode ⟷ Clock

13

Detaching the control panel

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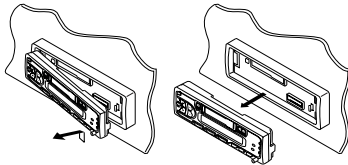
How to detach the control panel

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

1
Unlock the control panel.
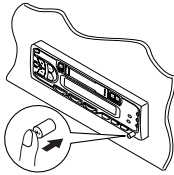
2
Lift and pull the control panel out of the unit.

How to attach the control panel

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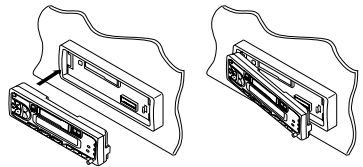
2
Press the right side of the control panel to fix it to the panel holder.
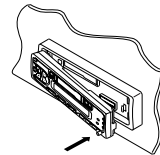
Note on cleaning the connectors:
If you frequently detach the control panel, the connectors will deteriorate.
To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.

Connectors

14

To extend the lifetime of the unit

ENGLISH

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

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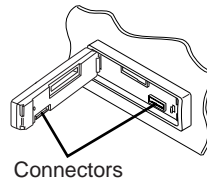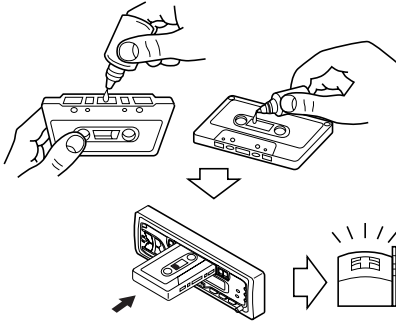
• Clean the heads after every 10 hours of use using a wet-type head cleaning tape (available at an audio store).
  When the head becomes dirty, you may realize the following symptoms:
  – Sound quality is reduced.
  – Sound level decreases.
  – Sound drops out.
• Do not play dirty or dusty tapes.
• Do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

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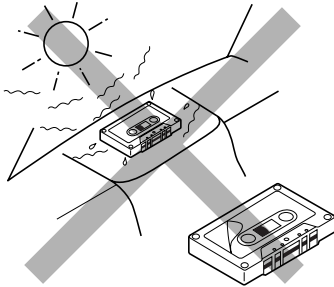
• Always store the tapes to their storage cases after use.
• Do not store tapes in the following places:
  – Subject to direct sunlight
  – With high humidity
  – At extremely hot temperatures

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

15

?! *TROUBLESHOOTING*

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

Symptoms	Causes	Remedies
• A cassette tape cannot be inserted.	You have tried to insert a cassette in the wrong way.	Insert the cassette with the exposed tape facing right.
• Cassette tapes become hot.	This is not a malfunction.	——————
• Tape sound is at very low level and sound quality is degraded.	The tape head is dirty.	Clean it with a head cleaning tape.
• Sound is sometimes interrupted.	Connections are not good.	Check the cords and connections.
• Sound cannot be heard from the speakers.	The volume control is turned to the minimum level.	Adjust it to the optimum level.
	Connections are incorrect.	Check the cords and connections.
• Static noise while listening to the radio.	The antenna is not connected firmly.	Connect the antenna firmly.
• The unit does not work at all.	The built-in microcomputer may function incorrectly due to noise, etc.	While holding SEL, press ⏻/ ATT for more than 2 seconds to reset the unit. (The clock setting and preset stations stored in memory are erased.)

SPECIFICATIONS

AUDIO AMPLIFIER SECTION

Maximum Power Output:
  Front: 35 watts per channel
  Rear: 35 watts per channel
Continuous Power Output (RMS):
  Front: 15 watts per channel into 4 Ω, 40
    to 20,000 Hz at no more than 0.8%
    total harmonic distortion.
  Rear: 15 watts per channel into 4 Ω, 40
    to 20,000 Hz at no more than 0.8%
    total harmonic distortion.
Load Impedance: 4 Ω (4 to 8 Ω allowance)
Tone Control Range
  Bass: ±10 dB at 100 Hz
  Treble:±10 dB at 10 kHz
Frequency Response: 40 to 20,000 Hz
Signal-to-Noise Ratio: 70 dB
Line-Out Level/Impedance: 1.0 V/20 kΩ load
  (250 nWb/m)

TUNER SECTION

Frequency Range
FM: 87.5 to 108.0 MHz
AM: (MW) 522 to 1,620 kHz
    (LW) 144 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 to 15,000 Hz
Stereo Separation: 30 dB
Capture Ratio: 2.0 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 to 14,000 Hz (± 3dB)
Signal-to-Noise Ratio: 52 dB
Stereo Separation: 40 dB

GENERAL

Power Requirement
Operating Voltage: DC 14.4 volts (11 to 16
  volts allowance)
Grounding System: Negative ground
Dimensions (W x H x D)
Installation Size:
  182 x 52 x 150 mm
Panel Size: 188 x 58 x 14 mm
Mass: 1.3 kg (excluding accessories)

Design and specifications subject to change without notice.