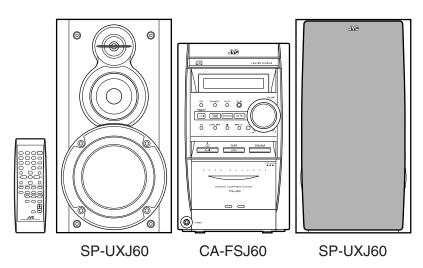




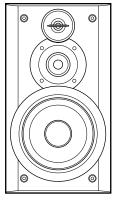
COMPACT COMPONENT SYSTEM SYSTEME DE COMPOSANTS COMPACT

FS-J60_ Consists of CA-FSJ60 and SP-UXJ60

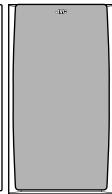
FS-J50_ Consists of CA-FSJ50 and SP-UXJ50











SP-UXJ50

CA-FSJ50

SP-UXJ50

INSTRUCTIONS MANUEL D'INSTRUCTIONS

For Customer Use:

Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

| IV | oa | eı | IV |
|----|----|----|----|
| | | | |

Serial No.

Warnings, Cautions and Others Mises en garde, précautions et indications diverses





The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION—STANDBY/ON O/I button!

Disconnect the mains plug to shut the power off completely (the STANDBY/ON lamp goes off). The STANDBY/ON **6/I** button in any position does not disconnect the mains line.

- When the unit is on standby, the STANDBY/ON lamp lights red.
- When the unit is turned on, the STANDBY/ON lamp lights green.

The power can be remote controlled.

ATTENTION—Commutateur STANDBY/ON ウ/!!

Déconnectez la prise d'alimentation secteur pour mettre l'appareil complètement hors tension (le témoin STANDBY/ON s'éteint). L'interrupteur STANDBY/ON **O/I**, sur n'importe quelle position, ne peut pas déconnecter l'appareil du secteur.

- Quand l'appareil est en mode de veille, le témoin STANDBY/ ON est allumé en rouge.
- Quand l'appareil est sous tension, le témoin STANDBY/ON est allumé en vert.

L'alimentation peut être télécommandée.

For U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

To reduce the risk of electrical shocks, fire, etc.:

- 1. Do not remove screws, covers or cabinet.
- 2. Do not expose this appliance to rain or moisture.

ATTENTION

Afin d'éviter tout risque d'électrocution, d'incendie, etc.:

- Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
- 2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

CAUTION

- Do not block the ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

ATTENTION

- Ne bloquez pas les orifices ou les trous de ventilation.
 (Si les orifices ou les trous de ventilation sont bloqués par un journal un tissu, etc., la chaleur peut ne pas être évacuée correctement de l'appareil.)
- Ne placez aucune source de flamme nue, telle qu'une bougie, sur l'appareil.
- Lors de la mise au rebut des piles, veuillez prendre en considération les problèmes de l'environnement et suivre strictement les règles et les lois locales sur la mise au rebut des piles.
- N'exposez pas cet appareil à la pluie, à l'humidité, à un égouttement ou à des éclaboussures et ne placez pas des objets remplis de liquide, tels qu'un vase, sur l'appareil.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

For Canada/pour le Canada

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQUAU FOND.

1. CLASS 1 LASER PRODUCT

- CAUTION: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
- CAUTION: Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.

1. PRODUIT LASER CLASSE 1

- ATTENTION: Radiation laser invisible quand l'appareil est ouvert ou que le verrouillage est en panne ou désactivé. Eviter une exposition directe au rayon.
- ATTENTION: Ne pas ouvrir le couvercle du dessus. Il n'y a aucune pièce utilisable à l'intérieur. Laisser à un personnel qualifié le soin de réparer votre appareil.

For Canada/pour le Canada

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING EQUIPMENT STANDARD ENTITLED "DIGITAL APPARATUS," ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS. CET APPAREIL NUMERIQUE RESPECTE LES LIMITES DE BRUITS RADIOELECTRIQUES APPLICABLES AUX APPAREILS NUMERIQUES DE CLASSE B PRESCRITES DANS LA NORME SUR LE MATERIEL BROUILLEUR: "APPAREILS NUMERIQUES", NMB-003 EDICTEE PAR LE MINISTRE DES COMMUNICATIONS.

Introduction

We would like to thank you for purchasing one of our JVC products. Before operating this unit, read this manual carefully and thoroughly to obtain the best possible performance from your unit, and retain this manual for future reference.

About This Manual

This manual is organized as follows:

- The manual mainly explains operations using the buttons on the remote control.
 - You can use the buttons both on the remote control and on the main unit for the same operations if they have the same or similar names (or marks), unless mentioned otherwise.

The illustrations used in this manual are of FS-J60 unless mentioned otherwise.

- Basic and common information that is the same for many functions is grouped in one place, and is not repeated for each procedure. For instance, we do not repeat the information about turning on/off the unit, setting the volume, changing the sound effects, and others, which are explained in the section "Common Operations" on pages 9 to 11.
- The following symbols are used in this manual:



Gives you warning and caution to prevent damage or risk of fire/electric shock. Furthermore, it gives you information about what is not good for obtaining the best possible performance from the unit.



Gives you information and hints you should know.

Precautions

Installation

- Install in a place which is level, dry and neither too hot nor too cold—between 5°C and 35°C.
- Install the unit in a location with adequate ventilation to prevent internal heat buildup in the unit.
- Leave sufficient distance between the unit and the TV.
- Keep the speakers away from the TV to avoid interference with TV.



DO NOT install the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or vibration.

Power sources

• When unplugging the unit from the wall outlet, always pull on the plug, not the AC power cord.



DO NOT handle the AC power cord with wet hands.

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- · After starting heating in the room
- In a damp room
- If the unit is brought directly from a cold to a warm place Should condensation occur, the unit may malfunction. In this case, leave the unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, then plug it in again.

Others

- Should any metallic object or liquid fall into the unit, unplug the power cord and consult your dealer before operating any further.
- If you are not going to operate the unit for an extended period of time, unplug the AC power cord from the wall outlet.



DO NOT disassemble the unit since there are no user serviceable parts inside.

If anything goes wrong, unplug the AC power cord and consult your dealer.

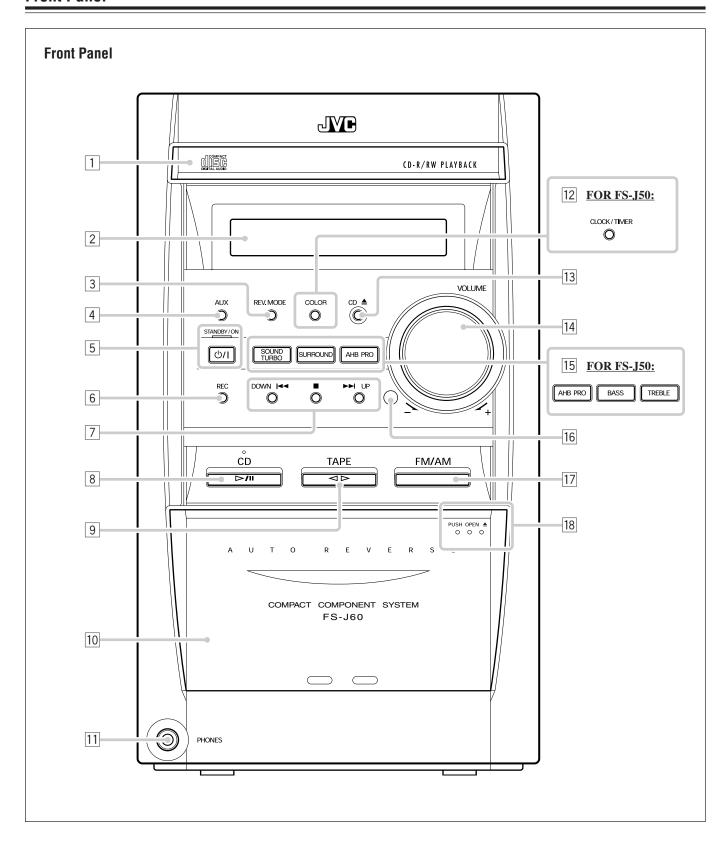
Contents

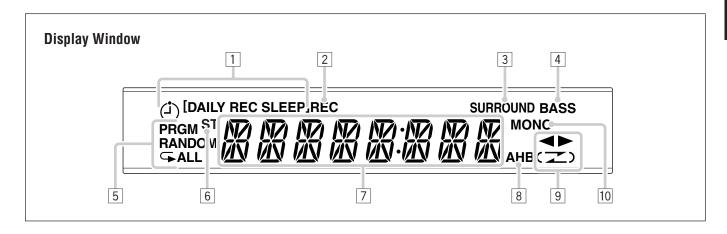
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Location of the Buttons and Control

Become familiar with the buttons and control on your unit.

Front Panel





See the pages in parentheses for details.

Front Panel

- 1 Disc tray
- 2 Display window
- 3 REV.MODE (reverse mode) button (17 19)
- 4 AUX button (9)

Pressing this button also turns on the unit.

- 5 STANDBY/ON **6/I** button and STANDBY/ON lamp (9, 21)
- 6 REC (recording) button (18, 19)
- 7 Multi operation buttons
 - DOWN/I◀◀ (reverse skip), (stop) and ▶►I (forward skip)/UP
- 8 CD ▷/**II** (play/pause) button (9, 14 16) *Pressing this button also turns on the unit.*
- 9 TAPE <> ▷ button (9, 17)

 Pressing this button also turns on the unit.
- 10 Cassette holder
- 11 PHONES jack (10)
- 12 FOR FS-J60:

COLOR button (11)

FOR FS-J50:

CLOCK/TIMER button (9, 20, 21)

- [13] CD ▲ (disc tray open/close) button (14)

 Pressing this button also turns on the unit.
- 14 VOLUME + / control (10)
- 15 FOR FS-J60:

SOUND TURBO button (11)

SURROUND button (11)

AHB (Active Hyper Bass) PRO button (10)

FOR FS-J50:

AHB (Active Hyper Bass) PRO button (10)

BASS button (10)

TREBLE button (10)

- 16 Remote sensor
- 17 FM/AM button (9, 12, 13)

Pressing this button also turns on the unit.

18 PUSH OPEN \triangle (cassette holder open) portion (17 – 19)

Display Window

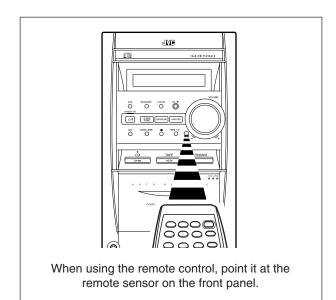
- 1 Timer indicators
 - ② (timer), DAILY, REC (recording timer), and SLEEP
- 2 REC (recording) indicator
- 3 ONLY FOR FS-J60:

SURROUND indicator

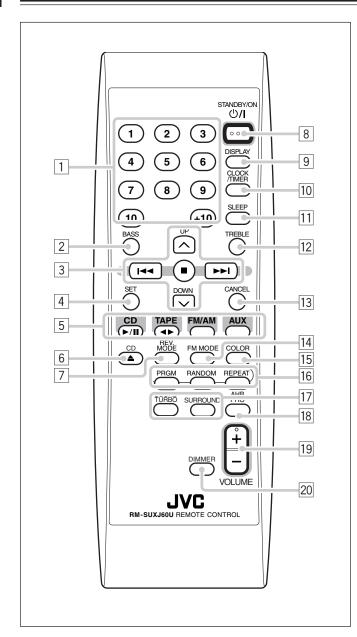
4 ONLY FOR FS-J60:

BASS indicator

- 5 Disc play mode indicators
 - PRGM (program), RANDOM, and ALL (repeat)
- 6 ST (stereo) indicator
- 7 Main display
 - Shows the source name, frequency, etc.
- 8 AHB (Active Hyper Bass pro) indicator
- 9 Tape operation indicators
 - **◄** ► (tape direction) and **(** ☐ (reverse mode)
- 10 MONO indicator



Remote Control



See the pages in parentheses for details.

- 1 Number buttons
- 2 BASS button (10)
- 3 Multi operation buttons
 - UP, I◄◄ (reverse skip), (stop), ►►I (forward skip), and DOWN
- [4] SET button (15)
- 5 Source buttons
 - CD ►/II, TAPE ◀►, FM/AM, and AUX *Pressing one of these buttons also turns on the unit.*
- 6 CD ▲ (disc tray open/close) button (14)

 Pressing this button also turns on the unit.
- 7 REV.MODE (reverse mode) button (17 19)
- 8 STANDBY/ON **6/I** button (9, 21)
- 9 DISPLAY button (9)
- 10 CLOCK/TIMER button (9, 20, 21)
- 11 SLEEP button (21)
- 12 TREBLE button (10)
- 13 CANCEL button (16)
- 14 FM MODE button (12)
- 15 ONLY FOR FS-J60:

COLOR button (11)

- 16 Disc play mode buttons (15, 16)
 - PRGM (program), RANDOM, and REPEAT
- 17 ONLY FOR FS-J60:

SOUND TURBO button (11)

SURROUND button (11)

- 18 AHB (Active Hyper Bass) PRO button (10)
- 19 VOLUME + / button (10)
- 20 DIMMER button (11)

Supplied Accessories

Make sure that you have all the following items. The number in parentheses indicates the quantity of each piece supplied.

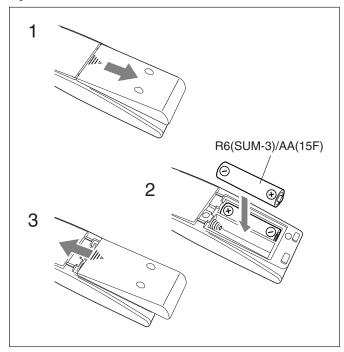
- AM loop antenna (1)
- FM antenna (1)
- Remote control (1)
- Batteries (2)
- Speaker cords (ONLY FOR FS-J60) (4)

If anything is missing, consult your dealer immediately.

Putting the Batteries into the Remote Control

Insert the batteries—R6(SUM-3)/AA(15F)—into the remote control, by matching the polarity (+ and -) on the batteries with the + and - markings on the battery compartment.

When the remote control can no longer operate the unit, replace both batteries at the same time.

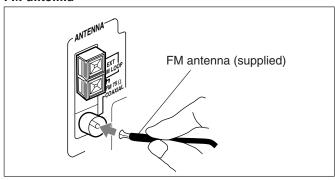




- DO NOT use an old battery together with a new
- DO NOT use different types of batteries together.
- DO NOT expose batteries to heat or flame.
- DO NOT leave the batteries in the battery compartment when you are not going to use the remote control for an extended period of time. Otherwise, the remote control will be damaged from battery leakage.

Connecting Antennas

FM antenna



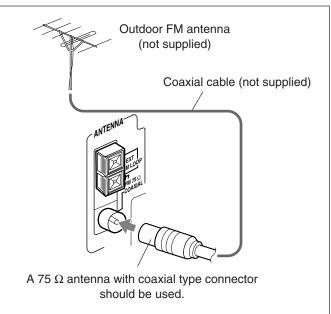
- 1 Attach the FM antenna to the FM 75 Ω **COAXIAL** terminal.
- Extend the FM antenna.
- Fasten it up in the position which gives you the best reception, then fix it on the wall, etc.

About the supplied FM antenna

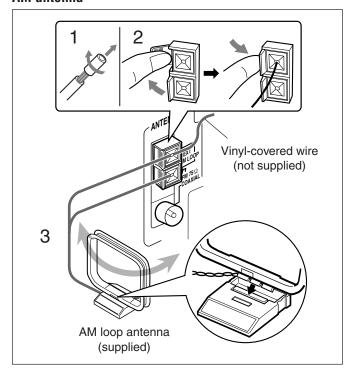
The FM antenna supplied with this unit can be used as temporary measure. If reception is poor, you can connect an outdoor FM antenna.

To connect an outdoor FM antenna

Before connecting the antenna, disconnect the supplied FM antenna.



AM antenna



- 1 If the cords are covered with insulation, remove a short section of insulation at the end of each cord by twisting and pulling it off.
- 2 Connect the AM loop antenna to the AM LOOP terminals as illustrated.
- 3 Turn the AM loop antenna until you have the best reception.

To connect an outdoor AM antenna

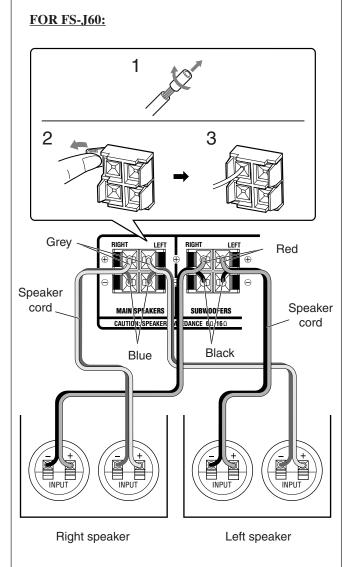
When reception is poor, connect a single vinyl-covered wire to the AM EXT terminal and extend it horizontally. The AM loop antenna must remain connected.

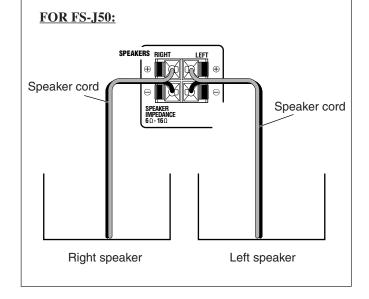
notes

For better reception of both FM and AM

- Make sure the antenna conductors do not touch any other terminals and connecting cords.
- Keep the antennas away from metallic parts of the unit, connecting cords, and the AC power cord.

Connecting Speakers





- 1 If the cords are covered with insulation, remove a short section of insulation at the end of each cord by twisting and pulling it off.
- 2 Press and hold the clamp of the speaker terminal as illustrated.
- 3 Insert the end of the speaker cord into the terminal.

Match the polarity between the unit and the speaker terminals: \bigoplus to \bigoplus and \bigoplus to \bigoplus .

4 Release your finger from the clamp.

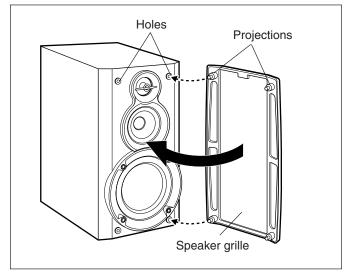


- DO NOT connect speakers while the power is on.
- DO NOT connect more than one speaker to each speaker teminal.

IMPORTANT: Use only speakers with the same speaker impedance as shown on the speaker terminals on the rear of the unit.

To remove the speaker grilles

The speaker grilles are removable.



To remove the speaker grille, insert your fingers at the top of the speaker grille, pull towards you. Then pull the bottom towards you.

To attach the speaker grille, put the projections of the speaker grille into the holes of the speaker.

Connecting Other Equipment

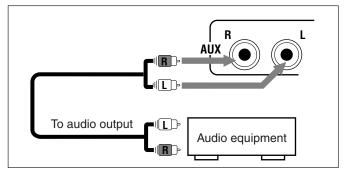
To connect an audio equipment

You can connect audio equipment—used only as a playback device.



- DO NOT connect any equipment while the power is on.
- DO NOT plug in any equipment until all connections are complete.

Be sure that the plugs of the audio cords are colored: White plugs and jacks are for left audio signals, and red ones for right audio signals.



For playing other equipment through this unit, connect between the audio output jacks on the other equipment and AUX jacks by using audio cords (not supplied).

Now, you are ready to plug in the unit and any other connected equipment.

IMPORTANT: Be sure to check all connections to be done before plugging the AC power cord into a wall outlet.

Common Operations

Setting the Clock

Before operating the unit any further, first set the unit's clock. When you plug the AC power cord into the wall outlet, "AM 12:00" starts flashing on the display.

You can set the clock whether the unit is on or off.

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start over from step 1.
- For FS-J60 only, you can also use CLOCK/TIMER on the unit for this operation.

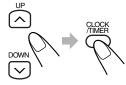
1 Press CLOCK/TIMER.

The hour digits start flashing on the display.



2 Press UP or DOWN to adjust the hour, then press CLOCK/TIMER.







3 Press UP or DOWN to adjust the minute, then press CLOCK/TIMER.



To check the clock time during play On the remote control ONLY:

Press DISPLAY (grey-colored).

 Each time you press the button, the source indication and the clock time alternate on the display.





When you unplug the AC power cord or if a power failure occurs

The clock is reset to "AM 12:00" right away. If this happens, set the clock again.

The clock may gain or lose 1 to 2 minutes per month
If this happens, reset the clock.

To change the clock

- 1 Make sure the ⊕ (timer) indicator is not lit on the display.
 - If it is lit, press and hold CLOCK/TIMER until it goes off.
- 2 Press CLOCK/TIMER repeatedly until the unit enters the clock setting mode (the hour digits start flashing on the display).

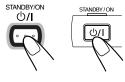
First time you press CLOCK/TIMER, the unit enters the timer setting mode. (See page 20.)

- 3 Repeat steps 2 and 3 of the procedure of "Setting the Clock."
- 4 Press and hold CLOCK/TIMER again so that the \oplus (timer) indicator goes off.

Turning On the Power

To turn on the unit, press STANDBY/ON Φ/I.

The STANDBY/ON lamp lights green and "HELLO" appears on the display.



 When you press the source button—CD ►/II, TAPE ◀►, FM/AM, and AUX, the unit automatically turns on and starts playback if the source is ready.

To turn off the unit (standby), press STANDBY/ON O/I again.

The STANDBY/ON lamp lights red and "GOOD BYE" appears on the display.

• "AM 12:00" flashes on the display until you set the built-in clock. After setting the clock, the clock time will appear on the display while the unit is on standby.

The illumination and display brighten only for 4 seconds by pressing DIMMER.

• A little power is always consumed even while the unit is on standby.

To switch off the power supply completely, unplug the AC power cord from the AC outlet.



When you unplug the AC power cord or if a power failure occurs

The clock is reset to "AM 12:00" right away, while the tuner preset stations (see page 12) will be erased in a few days.

Adjusting the Volume

You can adjust the volume level only while the unit is turned on. The volume level can be adjusted between "VOL MIN" and "VOLUME 1" – "VOLUME 40 (VOL MAX)."

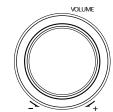
On the remote control:

Press VOLUME + to increase the volume or press VOLUME – to decrease it.

VOLUME

On the unit:

Turn VOLUME + / – control clockwise (+) to increase the volume or counterclockwise (–) to decrease it.



For private listening

Connect headphones to the PHONES jack.

No sound comes out of the speakers. Be sure to turn down the volume before connecting or putting on headphones.



DO NOT turn the unit off (standby) with the volume set to an extremely high level; otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones when you turn on the unit or start playing any source next time.

REMEMBER you cannot adjust the volume level while the unit is on standby.

To reinforce the bass sound

You can reinforce the bass sound to maintain rich, full bass at low volume—Active Hyper Bass Pro.

For FS-J60:

Press AHB PRO.

 Each time you press the button, the Active Hyper Bass Pro is turned on (AHB ON) and off (AHB OFF) alternately. When it is turned on, the AHB indicator lights up on the display.





For FS-J50:

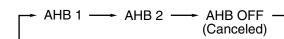
Press AHB PRO until "AHB 1" or "AHB 2" appears on the display.

The AHB indicator also lights up on the display.

• Each time you press the button, the bass

reinforcement changes as follows:





• "AHB 2" has much more bass reinforcement effect than "AHB 1."

To cancel the effect, press AHB PRO until "AHB OFF" appears on the display and the AHB indicator goes off.

Enjoying Sound Effects

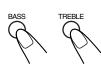
You can adjust the sound by using various sound effect functions.

• These functions only affect the playback sound, and do not affect your recording.

To adjust the tone (Bass/Treble)

You can adjust the bass level (low frequency range) and the treble level (high frequency range) within a range of -5 to +5. When shipped, the bass level set to "BASS +2" and the treble level set to "TREBLE +2."

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start over from step 1.
- For FS-J50 only, you can also use BASS and TREBLE on the unit for this operation.
- **1** Press BASS to adjust the bass level or press TREBLE to adjust the treble level.



- Each timer you press the button, "BASS" and "TREBLE" appears in the display alternately.
- **2** Press UP to increase the level or press DOWN to decrease it.

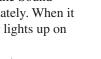


To enjoy the heavy sound (ONLY FOR FS-J60)

You can enjoy the heavy sound. The function boosts low and high frequency sounds—Sound Turbo.

Press SOUND TURBO.

• Each time you press the button, the Sound Turbo is turned on and off alternately. When it is turned on, the BASS indicator lights up on the display.





When the Sound Turbo is on, the bass and the treble levels are set to +2 (see page 10). After the Sound Trubo is canceled, these levels restored to the previous levels.

To reinforce the surround effect (ONLY FOR FS-J60)

You can reinforce the surround effect.

• This function does not affect your recording and playback sound of monaural sources.

To get the effect, press SURROUND so that the SURROUND indicator lights up on the display.



To cancel the effect, press SURROUND again so that the SURROUND indicator goes off.

Selecting the Illumination Brightness

You can change the illumination and display brightness only while the unit is turned on.

On the remote control ONLY:

To change the brightness, press DIMMER.

TITM TIN

• Each time you press the button, the illumination and display dim (DIM ON) and brighten (DIM OFF) alternately.



Selecting the Display Color (ONLY FOR FS-J60)

You can select the display color (COLOR 1 - COLOR 5 and AUTO mode).

• AUTO mode changes the color (COLOR 1 to COLOR 5) gradually.

To select the color, press COLOR.

• Each time you press the button, the color changes as follows:



Listening to FM and AM Broadcasts

Continued |



Tuning in to a Station

1 Press FM/AM to select the band.

The unit automatically turns on and tunes in to the previously received station—either FM or AM.

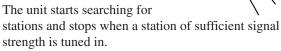


▶►I

 Each time you press the button, the band alternates between FM and AM.

FM AGS

2 Press and hold ►► or I or for more than 1 second.



• If a program is broadcast in stereo, the ST (stereo) indicator lights up.

To stop searching, press ▶▶I or I◀◀.



When you press ▶► or I◄ briefly and repeatedly

The frequency changes step by step.

To change the FM reception mode On the remote control ONLY:

When an FM stereo broadcast is hard to receive or noisy, press FM MODE so that the MONO indicator lights up on the display. Reception will improve.



To restore the stereo effect, press FM MODE again so that the MONO indicator goes off. In stereo mode, you can hear stereo sound when a stereo program is broadcast.

Presetting Stations

You can preset 30 FM and 15 AM stations.

In some cases, test frequencies have been already memorized for the tuner since the factory examined the tuner preset function before shipment. This is not a malfunction. You need to preset stations separately for the FM and AM bands.

• There is a time limit in doing the following steps. If the setting is canceled before you finish, start over from step 2.

On the remote control ONLY:

- **1** Tune in to the station you want to preset.
 - See "Tuning in to a Station."
- **2** Press SET.





3 Press UP or DOWN to select a preset number.







The tuned station in step 1 is stored in the preset number selected in step 3.

 Storing a new station on a used number erases the previously stored one.



When you unplug the AC power cord or if a power failure occurs

The tuner preset stations will be erased in a few days. If this happens, preset the stations again.

Tuning in to a Preset Station

On the remote control ONLY:

Press FM/AM to select the band.

The unit automatically turns on and tunes in to the previously received station—either FM



• Each time you press the button, the band alternates between FM and AM.



Press UP or DOWN to select a preset number.

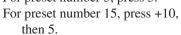


To tune in to a preset station directly using the number **buttons**

On the remote control ONLY:

Pressing the number button(s) allows you to select the preset number you want.

Ex.: For preset number 5, press 5.



For preset number 20, press +10, then 10.

For preset number 30, press +10, +10, then 10.











Playing Back Discs

This unit has been designed to play back the following discs—CD, CD-R, and CD-RW.

When playing a CD-R or CD-RW

User-edited CD-Rs (CD-Recordable) and CD-RWs (CD-ReWritable) can be played only if they are already "finalized."

- Usually you can play back your original CD-Rs or CD-RWs recorded in music CD format. However, sometimes they may not play depending on their characteristics or recording conditions.
- Before playing CD-Rs or CD-RWs, read their instructions or cautions carefully.
- Some CD-Rs or CD-RWs may not play on this unit because of their disc characteristics, damage or stain on them, or if the player's lens is dirty.
- CD-RWs may require a longer readout time. This is because the reflectance of CD-RWs is lower than for regular discs.

General notes

In general, you will have the best performance by keeping your discs and the mechanism clean.

- Store discs in their cases, and keep them in cabinets or on shelves.
- Keep the unit's disc tray closed when not in use.

Continued use of irregular shape discs (heart-shape, octagonal, etc.) can damage the unit.



X

Handling discs

- Remove the disc from its case by holding it at the edge while pressing the center hole lightly.
- Do not touch the shiny surface of the disc, or bend the disc.
- Put the disc back in its case after use to prevent warping.
- Be careful not to scratch the surface of the disc when placing it back in its case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.

To clean the disc

Wipe the disc with a soft cloth in a straight line from center to edge.



DO NOT use any solvent—such as conventional record cleaner, spray, thinner, or benzine—to clean the disc.

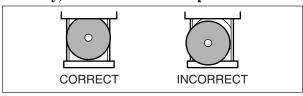
Playing Back the Entire Disc—Normal Play

1 Press CD ▲.

The unit automatically turns on and the disc tray comes out.



2 Place a disc correctly on the circle of the disc tray, with its label side up.



• When using a CD single (8 cm), place it on the inner circle of the disc tray.

3 Press CD ►/II.

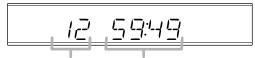
The disc tray automatically closes and the first track of the disc starts playing.





• The disc automatically stops when the last track has finished playing.

To stop playing, press ■.



Total track number Total playing time



To remove the disc, press $CD \triangleq$.



- If the disc cannot be read correctly (because it is scratched, for example) or an unreadable CD-R or CD-RW is inserted Playback will not start.
- If no disc is inserted

"NO DISC" appears on the display.

• If the loaded disc has more than 21 tracks and you select 21st track or above

"--:--" appears on the display instead of the playing time.



DO NOT try to open or close the disc tray by hand as it will be damaged.

Basic Disc Operations

While playing a disc, you can do the following operations.

To stop playing for a moment

During play, press CD ►/II.

While pausing, the elapsed playing time flashes on the display.



To resume playing, press CD ►/II again.

To go to another track

Before or during play, press ►►I or I◄◄ repeatedly.



• **>>**I: Skips to the beginning of the next or succeeding tracks.

• ► : Goes back to the beginning of the current or previous tracks.

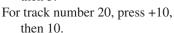
To go to another track directly using the number buttons

On the remote control ONLY:

Pressing the number button(s) before or during play allows you to start playing the track number you want.

Ex.: For track number 5, press 5.

For track number 15, press +10, then 5.



For track number 32, press +10, +10, +10, then 2.







10 +10

To locate a particular point in a track

During play, press and hold ►►I or



• ▶►I: Fast-forwards the tracks.

• I◀■: Fast-reverses the tracks.



Programming the Playing Order of the Tracks —Program Play

You can arrange the order in which tracks play before you start playing. You can program up to 20 tracks.

On the remote control ONLY:

1 Load a disc.

• If the current playing source is not the CD player, press CD ►/II, then ■ before going to the next step.

2 Press PRGM (program).

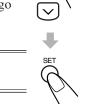
The PRGM (program) indicator lights up on the display.



• If a program has been stored in memory, the program is called up.

3 Press UP or DOWN to select the track number, then press SET.

 You can select the track number directly using the number button(s). (See "To go to another track directly using the number buttons.")



Track number Program step number

4 Repeat step 3 to program other tracks you want.

5 Press CD ►/II.

The tracks are played in the order you have programed.





If you try to program a 21st track

"FULL" will appear on the display.

To stop playing, press ■.



To exit from Program Play, press PRGM (program) before or after playing.

- The PRGM (program) indicator goes off.
- The Program remains even when you select another play mode (Normal or Random Play).



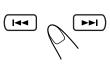


Play mode setting (Normal, Program, and Random Play) will not change even if you do the following operations;

- Changing the source—selecting the CD player as the source restores the previous play mode.
- Turning off the unit—turning on the unit restores the previous play mode.

To check the program contents

You can check the program contents by pressing ►►I or I◄◄ before or after playback.



• **>>**I: To check the contents in the programmed order.

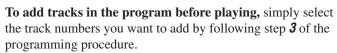
• I : To check the contents in the reverse order.

To modify the program

On the remote control ONLY:

Before or after playing, you can erase the last programed track by pressing CANCEL.

• Each time you press the button, the last programed track is erased from the program.



To erase the program, press ■ before or after playing.

• Disc ejection also erases the program.



Playing at Random—Random Play

The tracks will play in no particular order when you use this mode.

On the remote control ONLY:

Load a disc.

• If the current playing source is not the CD player, press CD ►/II, then ■ before going to the next step.

Press RANDOM.

The RANDOM indicator lights up on the display.



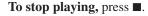
Press CD ►/II.

The tracks are randomly played. Random Play ends when all the tracks are played once.



To skip the current track, press ▶►I.

· You cannot go back to the previous track by pressing ►.





To exit from Random Play, press RANDOM before or after

Random Play is canceled and Normal Play resumes.

• The RANDOM indicator goes off.



Play mode setting (Normal, Program, and Random Play) will not change even if you do the following operations:

- Changing the source—selecting the CD player as the source restores the previous play mode.
- Turning off the unit—turning on the unit restores the previous play mode.

Repeating Tracks—Repeat Play

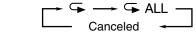
You can have all the tracks, the program or individual track currently playing, repeat as many times as you like.

On the remote control ONLY:

To repeat playing, press REPEAT before or during play.

• Each time you press the button, Repeat Play changes as follows, and the following repeat indicator lights up on the display:





Repeats one track.

ALL: In Normal Play, repeats all the tracks.

In Program Play, repeats all the tracks in the program.

In Random Play, repeats all the tracks in random order.

To cancel Repeat Play, press REPEAT repeatedly until the repeat indicator goes off.

- Repeat Play remains in effect even when you select another play mode (Normal, Program or Random Play).
- In Random Play, \hookrightarrow cannot be selected. If \hookrightarrow has been selected when you press RANDOM, it is canceled.

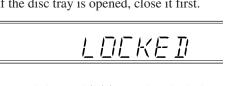
Prohibiting Disc Ejection—Tray Lock

You can lock the disc tray and prohibit ejecting the disc whether the unit is on or off.

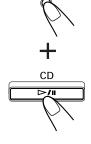
On the unit ONLY:

To prohibit disc ejection, press CD ⊳/II while holding ■.

• If the disc tray is opened, close it first.



To cancel the prohibition and unlock the **disc,** press CD \triangleright / \blacksquare while holding \blacksquare .





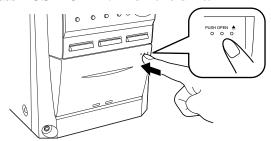
If you try to eject the disc while Tray Lock is in use "LOCKED" appears to inform you that the disc tray is locked.

Playing Back Tapes

You can play back type I tapes.

Playing Back a Tape

Press PUSH OPEN ≜ on the unit.



Put a cassette in with the exposed part of the tape down.



Press PUSH OPEN ≜ again to close the cassette holder.



Press TAPE **◄** ►.

The unit automatically turns on and the tape starts playing. The tape direction indicator (▶ or ◄) flashes slowly on the



- Each time you press the button, the tape direction changes:
 - ▶ : plays the front side. **◄**: plays the reverse side.

When the tape plays to the end, the deck automatically stops if the Reverse Mode is set to ______. (See "To play both sides—Reverse Mode.")

If no cassette is inserted when you press TAPE ◀► "NO TAPE" appears on the display.

To stop playing, press \blacksquare .



To fast-wind to the left or to the right, press ▶►I or I◄◄ while the tape is not running.

The tape direction indicator (▶ or ◄) starts flashing rapidly on the display.

To remove the cassette, press PUSH OPEN \triangle on the unit.

• If the tape is playing, stop it first.

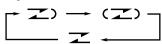
To play both sides—Reverse Mode

You can set the deck to play just one side of a tape, both sides once, or both sides continuously.

Press REV.MODE (reverse mode).

• Each time you press the button, the Reverse Mode changes as follows:





- : The deck automatically stops after playing both sides of the tape. Stops when playback in the ◀ direction is finished.
- (The deck continues to play both sides of the tape until ■ is pressed.
 - The deck automatically stops after playing one side of the tape.



- DO NOT open the cassette holder when the tape is running.
- The use of C-120 or thinner tape is not recommended, since characteristic deterioration may occur and this tape easily jams in the pinchrollers and the capstans.

Recording

IMPORTANT:

- · It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.
- The recording level is automatically set correctly, so it is not affected by the other sound settings. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- If recordings you have made have excessive noise or static, the unit may be too close to a TV. Increase the distance between the TV and the unit.
- You can use type I tape for recording.

To protect your recording

Cassettes have two small tabs on the back to protect from unexpected erasure or rerecording.





To protect your recording, remove these tabs.

To re-record on a protected tape, cover the holes with adhesive tape.

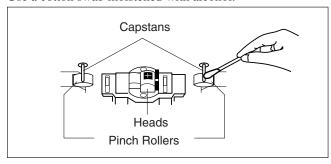
To keep the best recording and playback sound quality

If the heads, capstans, and pinch rollers of the cassette deck become dirty, the following will occur:

- Impaired sound quality
- · Discontinuous sound
- Fading
- Incomplete erasure
- · Difficulty in recording

To clean the heads, capstans, and pinch rollers

Use a cotton swab moistened with alcohol.



To demagnetize the heads

Turn off the unit, and use a head demagnetizer (available at electronics and audio shops).



At the start and end of cassette tapes

There is leader tape which cannot be recorded onto. Thus, when recording discs or radio broadcasts, wind the leader tape first to ensure that the recording will be made without any loss.

Recording on a Tape

On the unit ONLY:

Put a recordable cassette in with the exposed part of the tape down.



- Close the cassette holder gently and check the recording direction for the tape.
 - If the tape direction is not correct, press TAPE ◀► twice then ■ to change the tape direction.
 - If you want to record on both sides of a tape, see "To record on both sides—Reverse Mode."
- Start playing the source—FM, AM or auxiliary equipment connected to AUX jacks.
 - When the source is the CD player, see "Disc Direct Recording" on page 19.
- Press REC (recording).

The REC (recording) indicator lights up on the display and recording starts.





- If no cassette is inserted when you press REC "NO REC" appears on the display.
- · If a protected tape is inserted when you press REC "NO REC" appears on the display.

To stop while recording, press



To remove the cassette, press PUSH OPEN ▲

• If the tape is recording, stop it first.





DO NOT open the cassette holder when the tape is running.

To record on both sides—Reverse Mode

Press REV.MODE (reverse mode) repeatedly until Z) or (Z) is lit.

• When using the Reverse Mode for recording, lights up and start recording in the forward (►) direction first. Otherwise, recording will stop when recording is done only on one side (reverse) of the tape.



Disc Direct Recording

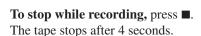
Everything on the disc goes onto the tape in the order it is on the disc, or according to the order you have set in Program

On the unit ONLY:

- Put a recordable cassette in with the exposed part of the tape down.
- Load a disc.
 - If the current playing source is not the CD player, press CD ►/II, then ■ before going to the next step.
 - If you do not want pauses of about 4 seconds recorded between selections, press CD ►/II twice. Otherwise, a non-recorded pause will be automatically inserted between selections.
 - If you want to record on both sides of a tape, see "To record on both sides-Reverse Mode."
- Press REC (recording).

The REC (recording) indicator lights up on the display and recording starts.

After recording, the CD player and cassette deck automatically stop.





To remove the cassette, press PUSH OPEN ▲ on the unit.

• If the tape is recording, stop it first.



DO NOT open the cassette holder when the tape is running.

To record on both sides—Reverse Mode

Press REV.MODE (reverse mode) repeatedly until \(\subseteq \) or (\(\subseteq \) is lit.

• When using the Reverse Mode for Disc Direct Recording, Z lights up and start recording in the forward (▶) direction first. When the tape reaches its end while recording a song in the forward direction (►), the last song will be re-recorded at the beginning of the reverse side (◀).

If you start recording on the reverse side (◄), recording will stop when recording is done only on one side (reverse) of the tape.



When making Sleep Timer settings while doing Disc **Direct Recording**

Set enough time to allow for the disc to finish playing; otherwise, the power will go off before recording is completed.

One Track Recording

This recording method is convenient when you record tracks while playing the disc. You can record just your favorite songs on the tape.

On the unit ONLY:

- Put a recordable cassette in with the exposed part of the tape down.
- Play the track on the disc you wish to record.
- Press REC (recording). The CD player returns to the beginning of that track and the track is recorded on the tape. After recording, the CD player and cassette deck automatically stop.



Repeat steps 2 and 3 to record other tracks vou want.

To stop while recording, press ■. The tape stops after 4 seconds.



To remove the cassette, press PUSH OPEN **≜** on the unit.

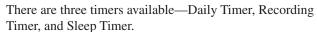
• If the tape is recording, stop it first.





DO NOT open the cassette holder when the tape is running.

Using the Timers



Before using the timers, you need to set the unit's clock (see page 9).

Using Daily Timer and Recording Timer

You can set the timer whether the unit is on or off.

How the timer actually works

When the on-time comes, the unit automatically turns on (the Θ [timer] and the selected timer mode [DAILY or REC] indicators flash just before the on-time, and continue flashing while the timer is operating). Then, when the off-time comes, the unit automatically turns off (standby).

The timer setting remains in memory until you change it.

- When the DAILY indicator is lit on the display, the timer acts as the Daily Timer. Once the timer has been set, it will be activated at the same time everyday until the timer is turned off.
- When the REC indicator is lit on the display, the timer acts as the Recording Timer. After the timer-recording finishes, the details of the setting remain stored but the timer is turned off.

Before you start...

When using "TUNER" as the source to play, make sure to select the desired station before turning off the power.

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start over from step 1.
- For FS-J60 only, you can also use CLOCK/TIMER on the unit for this operation.

1 Press CLOCK/TIMER.

The ② (timer) indicator lights up and the timer mode (DAILY or REC) indicator flashes on the display.

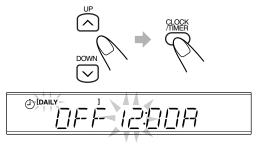
The unit enters on-time setting mode.



2 Set the on-time when you want the unit to turn on.

- 1) Press UP or DOWN to set the hour, then press CLOCK/TIMER.
- 2) Press UP or DOWN to set the minute, then press CLOCK/TIMER.

The unit enters off-time setting mode.



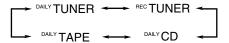
3 Set the off-time when you want the unit to turn off (standby).

- 1) Press UP or DOWN to set the hour, then press CLOCK/TIMER.
- 2) Press UP or DOWN to set the minute, then press CLOCK/TIMER.

The unit enters the timer selecting mode.

4 Press UP or DOWN to select the timer (Daily Timer or Recording Timer) with the source to play, then press CLOCK/TIMER.

• Each time you press UP or DOWN, the timer mode and the source change as follows:



DAILY TUNER: tunes in to the last station you were listening to. (Daily Timer)

REC TUNER: records the last station you were listening to. (Recording Timer)

• Put a recordable cassette into the deck.

DAILY CD: plays a disc. (Daily Timer)

Load a disc.

DAILY TAPE: plays a tape. (Daily Timer)

- Make sure that a tape is in the cassette deck.
- Make sure that the tape direction is correct.

The unit enters the volume level setting mode.



5 Press UP or DOWN to set the volume level, then press CLOCK/TIMER.

- You can select the volume level ("VOLUME –" and "VOLUME 0" to "VOLUME 40").
 - If you select "VOLUME –," the volume is set to the previous level when the unit was turned off.
- To turn off the volume while the Recording Timer (REC TUNER) is working, set the volume level "VOLUME 0."

The unit enters the clock setting mode.

6 Adjust the clock if you need.

- See "Setting the Clock" on page 9.
- 7 Press STANDBY/ON 0/1 to turn off the unit (standby) if you have set the timer with the unit turned on.



• When the timer turns on the unit, the ② (timer) and the selected timer mode indicators (DAILY or REC) start flashing.

To deactivate the timer temporarily, press and hold CLOCK/TIMER until the **②** (timer) indicator on the display goes off.



To activate or change the timer (with the previous setting), follow steps 1 to 7 on pages 20 and 21.

• If you want to change the timer setting after the Daily Timer be used, first deactivate the timer.



- If the unit is turned on when the timer on-time comes Timer does not work.
- When you unplug the AC power cord or if a power failure occurs

The timer will be canceled. You need to set the clock first, then the timer again.

Using Sleep Timer

With the Sleep Timer, you can fall asleep to music. You can set the Sleep Timer when the unit is turned on.

How the Sleep Timer actually works

The unit automatically turns off after the specified time length passes.

On the remote control ONLY:

1 Press SLEEP.



The time length until the shut-off time appears and the SLEEP indicator lights up on the display.

• Each time you press the button, the time length changes as follows:

2 Wait for about 5 seconds after specifying the time length.

The illumination and display dim.

To check the remaining time until the shut-off time, press SLEEP once so that the remaining time until the shut-off time appears for about 5 seconds.

• The illumination and display brighten during this period.

To change the shut-off time, press SLEEP repeatedly until the desired time length appears on the display.

To cancel the setting, press SLEEP repeatedly until the SLEEP indicator goes off.

• The Sleep Timer is also canceled when you turn off the unit.



 If you set the Sleep Timer after the Daily Timer starts playing the selected source

The Daily Timer is canceled. When the Sleep Timer shut-off time comes, the unit will be turned off.

 If you set the Sleep Timer after the Recording Timer starts recording

The Recording Timer is canceled, but recording continues until the Sleep Timer shuts off the power.

Maintenance

To get the best performance from the unit, keep your discs, tapes, and mechanism clean.

Cleaning the unit

• Stains on the unit

Should be wiped off with a soft cloth. If the unit is heavily stained, wipe it with a cloth soaked in water-diluted neutral detergent and wrung well, then wipe clean with a dry cloth.

- Since the unit may deteriorate in quality, become damaged or have its paint peel, be careful about the following.
 - —DO NOT wipe it with a rough cloth.
 - —DO NOT wipe it strongly.
 - —DO NOT wipe it with thinner or benzine.
 - —DO NOT apply any volatile substances such as insecticides to it.
 - —DO NOT allow any rubber or plastic to remain in contact with it for a long time.

Handling cassette tapes

- If the tape is loose in its cassette, take up the slack by inserting a pencil in one of the reels and rotating.
- If the tape is loose, it may get stretched, cut, or caught in the cassette.



• Be careful not to touch the tape surface.



- Avoid storing tapes in the following places:
 - —In dusty places
 - —In direct sunlight or heat
 - -In moist areas
 - -On a TV or speaker
 - -Near a magnet



Troubleshooting

If you are having a problem with your unit, check this list for a possible solution before calling for service. If you cannot solve the problem from the hints given here, or the unit has been physically damaged, call a qualified person, such as your dealer, for service.

| Symptom | Cause | Action | |
|---|--|--|--|
| No sound is heard. | Connections are incorrect or loose.Headphones are connected. | Check all connections and make corrections. (See pages 6 – 8.) Disconnect the headphones. | |
| Hard to listen to broadcasts because of noise. | Antennas are disconnected. The AM loop antenna is too close to the unit. The FM antenna is not properly extended and positioned. | Reconnect the antennas correctly and securely. Change the position and direction of the AM loop antenna. Extend the FM antenna to the best position. | |
| The disc tray does not open or close. | The AC power cord is not plugged in. | Plug the AC power cord. | |
| The disc does not play. | The disc is placed upside down. | Place the disc with the label side up. | |
| The disc sound is discontinuous. | The disc is scratched or dirty. | Clean or replace the disc. (See page 14.) | |
| The cassette holder cannot be opened. | Power from the AC power cord has been cut off while the tape was running. | Plug in the AC power cord, then turn on the unit. | |
| Impossible to record. | Small tabs on the back of the cassette are removed. | Cover the holes with adhesive tape. | |
| Operations are disabled. | The built-in microprocessor may malfunction due to external electrical interference. | Unplug the AC power cord and then plug it back in. | |
| Unable to operate the unit from the remote control. | The path between the remote control and the remote sensor on the unit is blocked. The batteries are exhausted. | Remove the obstruction.Replace the batteries. | |

Specifications

FS-J60 (CA-FSJ60 and SP-UXJ60)

Amplifier

Output Power:

SUBWOOFERS:

60 W per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion.

90 W (45 W + 45 W) at 6 Ω (10% THD)

MAIN SPEAKERS:

18 W per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion.

 $30 \text{ W} (15 \text{ W} + 15 \text{ W}) \text{ at } 6 \Omega (10\% \text{ THD})$

Audio input sensitivity/Impedance (at 1 kHz)

AUX: $400 \text{ mV/48 k}\Omega$ Speakers/Impedance: $6 \Omega - 16 \Omega$

Tuner

FM tuning range: 87.5 MHz – 108.0 MHz AM tuning range: 530 kHz – 1 710 kHz

CD player

Dynamic range: 85 dB Signal-to-noise ratio: 90 dB

Wow and flutter: Immeasurable

Cassette deck

Frequency response:

Normal (type I): 60 Hz – 14 000 Hz Wow and flutter: 0.15% (WRMS)

Speaker—SP-UXJ60

Speaker units: Subwoofer: 13.5 cm cone x 1

Woofer: 8.0 cm cone x 1 Tweeter: 4.0 cm cone x 1

Impedance: Subwoofer: 6Ω

Main speaker: 6Ω

Dimensions (approx.):

175 mm x 320 mm x 241 mm (W/H/D)

Mass (approx.): 3.7 kg each

Supplied Accessories

See page 6.

General

Power requirement: AC 120 V $^{\sim}$, 60 Hz Power consumption: 120 W (at operation) 1.0 W (on standby)

Dimensions (approx.):

520 mm x 320 mm x 323.3 mm (W/H/D)

Mass (approx.): 12.9 kg

FS-J50 (CA-FSJ50 and SP-UXJ50)

Amplifier

Output Power:

68 W per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion.

120 W (60 W + 60 W) at 6 Ω (10% THD)

Audio input sensitivity/Impedance (at 1 kHz)

AUX: $400 \text{ mV}/48 \text{ k}\Omega$ Speakers/Impedance: $6 \Omega - 16 \Omega$

Tuner

FM tuning range: 87.5 MHz – 108.0 MHz AM tuning range: 530 kHz – 1 710 kHz

CD player

Dynamic range: 85 dB Signal-to-noise ratio: 90 dB

Wow and flutter: Immeasurable

Cassette deck

Frequency response:

Normal (type I): 60 Hz – 14 000 Hz Wow and flutter: 0.15% (WRMS)

Speaker—SP-UXJ50

Speaker units: Woofer: 12.0 cm cone x 1

Midrange: 4.0 cm cone x 1 Tweeter: 2.0 cm dome x 1

Impedance: 6Ω

Dimensions (approx.):

160 mm x 285 mm x 181.5 mm (W/H/D)

Mass (approx.): 2.4 kg each

Supplied Accessories

See page 6.

General

Power requirement: AC 120 V \sim , 60 Hz Power consumption: 115 W (at operation) 1.0 W (on standby)

Dimensions (approx.):

490 mm x 286 mm x 323.3 mm (W/H/D)

Mass (approx.): 10.3 kg



