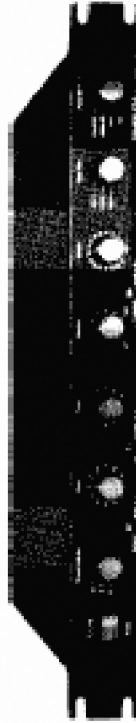


GA-F1

**OPERATING INSTRUCTIONS
MODE D'EMPLOI
BETRIEBSANLEITUNG**



- Read this manual before use.
- Lire **cette notice avant** l'utilisation.
- Vordere Verwendung **diese** Anleitung durchlesen.

Sansui

We are grateful for your choice of this fine Sansui high fidelity product. Before you operate it, we suggest that you read this booklet once through carefully, familiarizing yourself with the important precautions, operational procedures and every one of the product's many features. It will help to ensure that you will avoid possible damage and that the product's superb performance will be yours to enjoy for many years to come.



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WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

- The Model No. and Serial No. of your unit are shown on its back panel.
- Do not lose the Warranty Card that carries your unit's Model No. and Serial No.

Precautions

Installation

- When installing this unit, make sure that there is a clearance of at least 10 cms between the unit and other electrical appliances. In particular, remember that the amount of hum noise may increase if you install the unit near a transformer or motor.
- Never install the unit in dusty or humid locations, or in close proximity to heating appliances. Also, do not place it near a flower basin or fish bowl, for accidental spillover may cause fire, electrical shock and/or breakdown.
- When mounting the unit on a shelf, be sure that its supports are solidly fixed.
- Do not remove the cabinet cover or bottom board of the unit.
- Install the unit where there is a good circulation of air.

Connection

- When connecting or re-locating the unit, be sure to turn the power off or disconnect the power cable.
- Be sure not to confuse the right channel with the left, plus cables with minus or inputs with outputs. Check each step carefully.
- Use connection cords of dependable quality. Check that connections are secure and that leads of connection are not frayed or in contact with other objects. Poor connection may cause hum noise or breakdown.

For the United Kingdom only

Important

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

If the colours of the wires in the mains lead of this equipment should not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured **blue** must be connected to the terminal which is marked with the letter 'N' or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red.

Ensure that your equipment is connected correctly. If you are in any doubt, consult a qualified electrician

For equipment purchased outside the U.K. with a "EUROPEAN" two-pin mains plug, the plug should be removed and connections made in accordance with the above instructions. Ensure also that the equipment is properly adjusted to 240 volts operation. If you are in any doubt, consult a qualified electrician, or our Service Agent in the U.K.

Connections

Power amplifier

Connect the input terminals of the power amplifier and the unit's OUTPUT A (or B) terminals with the pin plug cords.

From an electrical standpoint the OUTPUT-A and -B terminals are identical and so it does not matter to which terminals the power amplifier is connected.

Turntable

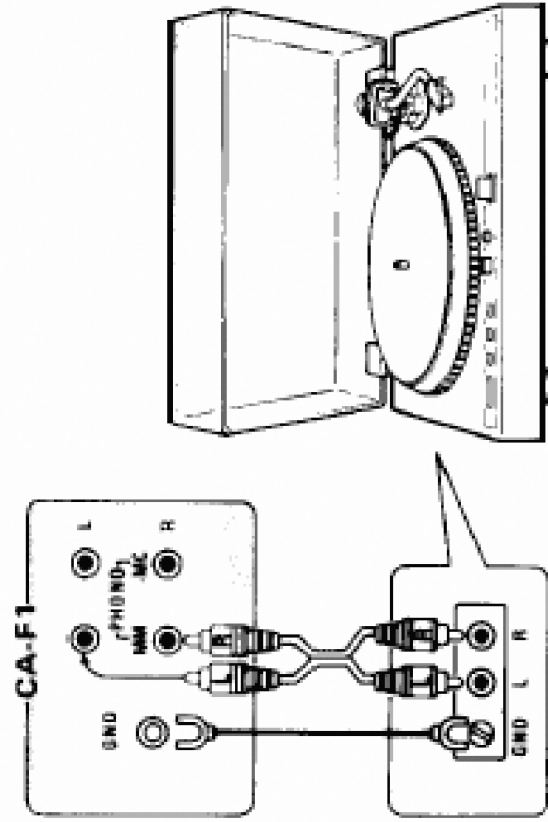
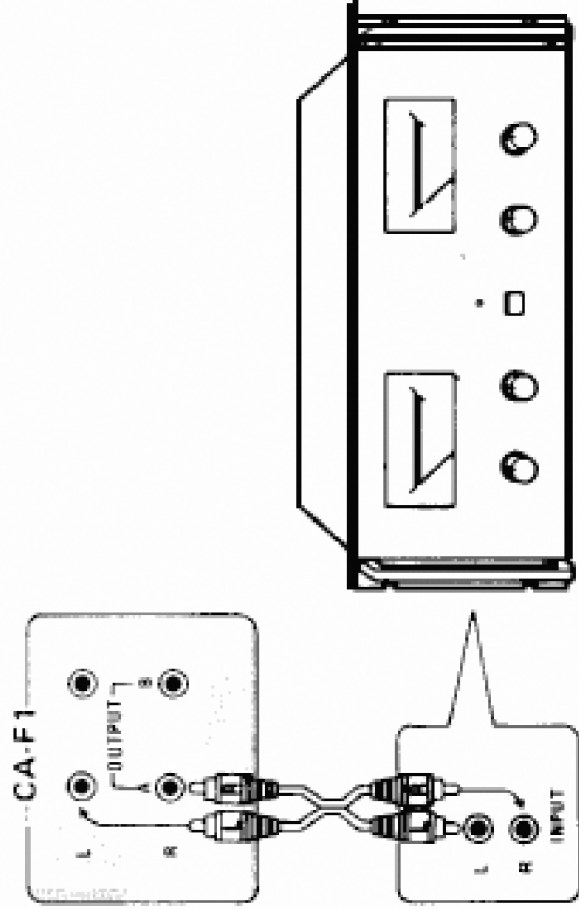
Two turntables can be connected to the unit.

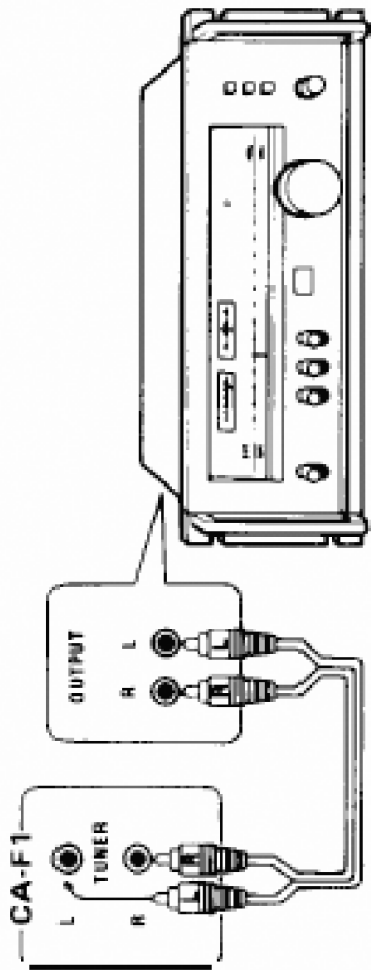
Check the left and right channels and connect the output terminals of the turntable with the unit's PHONO terminals. If the turntable is provided with a grounding cable, connect it to the unit's GND terminal. But disconnect it if you notice increased hum.

PHONO-MC: Connect a turntable with a moving coil or other high output (less than 1 mV) phono cartridge to these terminals.

PHONO-MM: Connect a turntable with a moving magnet or other high output (more than 1 mV) phono cartridge to these terminals.

- You will find the output voltage of the phono cartridge among the operating instructions of the turntable or phono cartridge.





Tuner

Connect the output terminals of the tuner to the TUNER input terminals on the unit's rear panel.

Tape deck

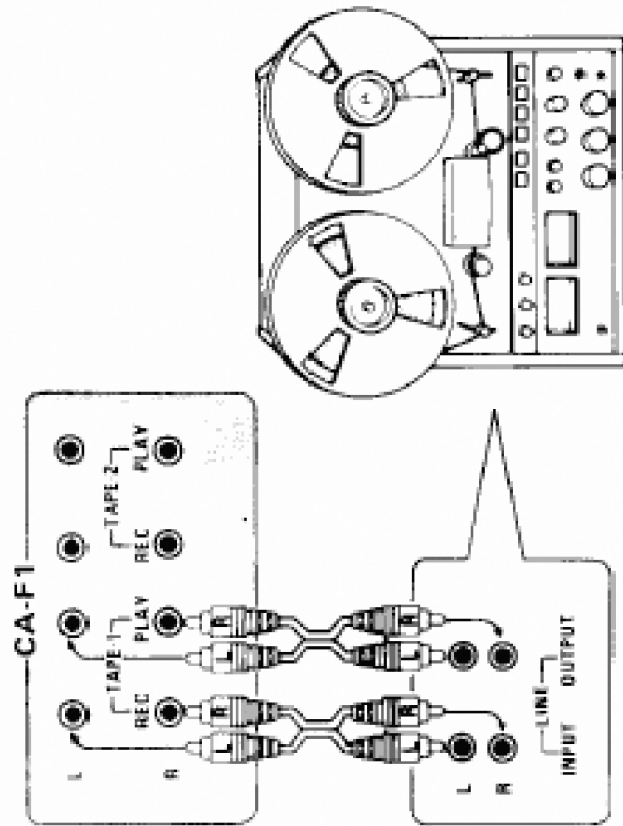
You can connect one or two decks to the unit, and perform simultaneous recording with two decks.

Connect the unit's TAPE REC terminals to the line input terminals of your tape deck, and the unit's TAPE PLAY terminals to the line output terminals of the deck.

AC outlet

The rear-panel AC outlet is "unswitched"; the outlet is constantly "on" so long as the unit is connected to a wall outlet. It has the capacity of 450 watts. For safety reason, DO NOT connect an equipment that may consume more power than this capacity. The power consumption of a electric equipment is usually shown in its instructions or on the unit itself.

- In case you have connected a component to the unit's AC outlet and then another component to the first component's AC outlet, the total power consumption of the first and second-component should not exceed 450 watts.



NOTE: No AC outlet is provided on units sold in some areas owing to local laws and regulations.

Panel information

1 POWER Switch

POWER switch itself lights up when pushed, showing that power is switched into the unit. Push POWER switch once again to switch power off.

2 OUTPUT SELECTOR switch

Use this switch to select the power amplifier which is connected to the unit.

A: The unit's signals are fed out from the rear panel OUTPUT-A terminals.

B: The unit's signals are fed out from the rear panel OUTPUT-B terminals.

OFF: No signals are fed out.

3 INPUT SELECTOR switch

Use this switch to select the program source you want to listen to.

PHONO MC: For playing disc records on a turntable with a low output cartridge (1mV or less such as an MC type connected to PHONO-MC terminals).

PHONO MM: For playing disc records on a turntable with a high output cartridge (1mV or over such as an MM type etc.), connected PHONO-MM terminals.

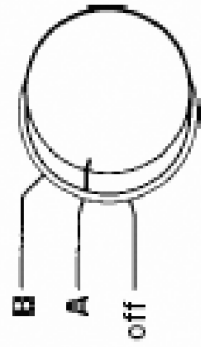
TUNER: To hear radio broadcasts through a connected tuner.

AUX: To hear components connected to the AUX terminals.

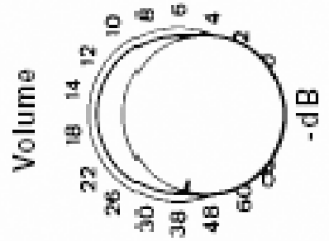
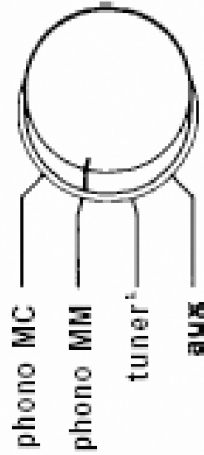
4 VOLUME Control

It adjusts the output level (volume) of your audio system. The more the right it is turned, the greater the volume.

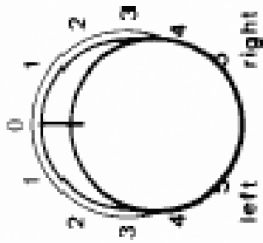
Output Selector



Input Selector



Balance



5 BALANCE Control

The volume of the left and right speakers can be adjusted by the BALANCE control. As the control is turned counterclockwise from the center position, the sound from the left speaker becomes louder than from the right speaker, and vice versa. Adjust so that the sound from the left and right speakers are heard with equal volume at your listening position.

6 TONE Switch

Use the ON position when you want to control tonal response with the BASS and TREBLE controls. Use the DEFEAT position when you want a "flat" response without having to adjust the BASS and TREBLE controls themselves.



Tone defeat on

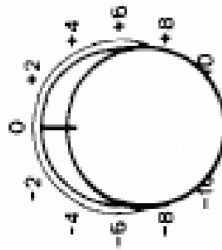
7 TREBLE Tone Control

Use the TREBLE tone control to adjust the treble or high-frequency response of instruments such as cymbals.

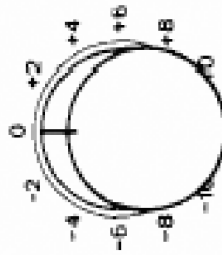
8 BASS Tone Control

Use the BASS tone control to adjust the bass or low-frequency response of such an instrument as a bass.

Bass



Treble



9 LOUDNESS Switch

Pushing this switch when listening at a low volume level accents the lows and highs properly to render the reproduced sound more realistic. This compensates for the fact that the human ear becomes insensitive to the lows and highs as the sound volume is reduced.



Loudness off on

10 SUBSONIC Filter Switch

Superlow-frequency noise, caused by warped or off-centered records, forces the moving structure of a woofer to work excessively; such abnormal excursion generates distortion. This filter cuts such superlow-frequency noise below 16 Hz and improves bass response.



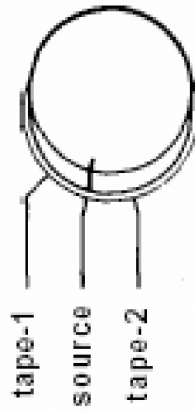
Subsonic off on

11 TAPE PLAY Switch

Use this switch when wanting to hear a tape or monitor a recording. SOURCE: To hear program source, selected by the INPUT SELECTOR switch.

TAPE-1, 2: To reproduce a recorded tape on the tape deck connector to the rear-panel TAPE PLAY terminals.

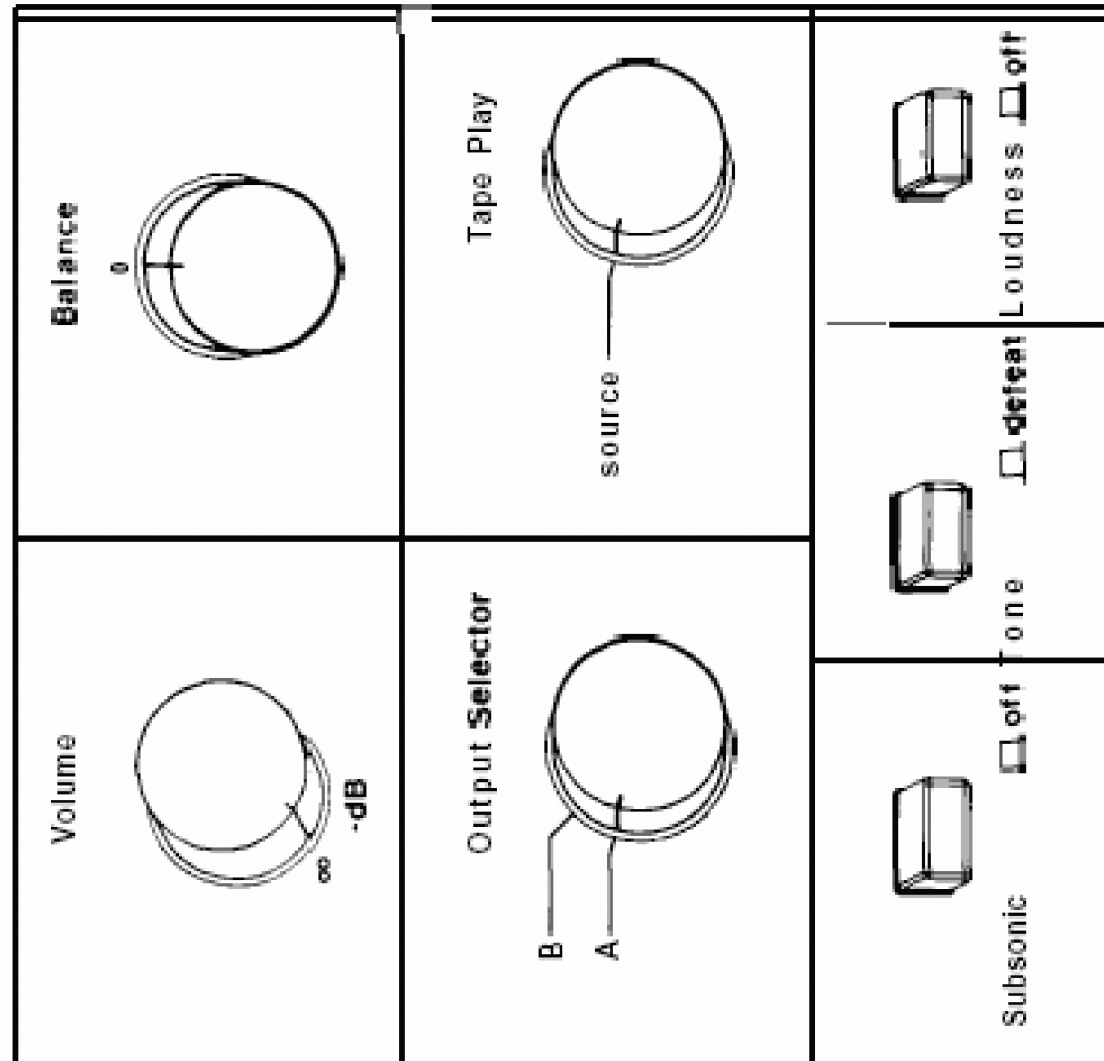
Tape Play

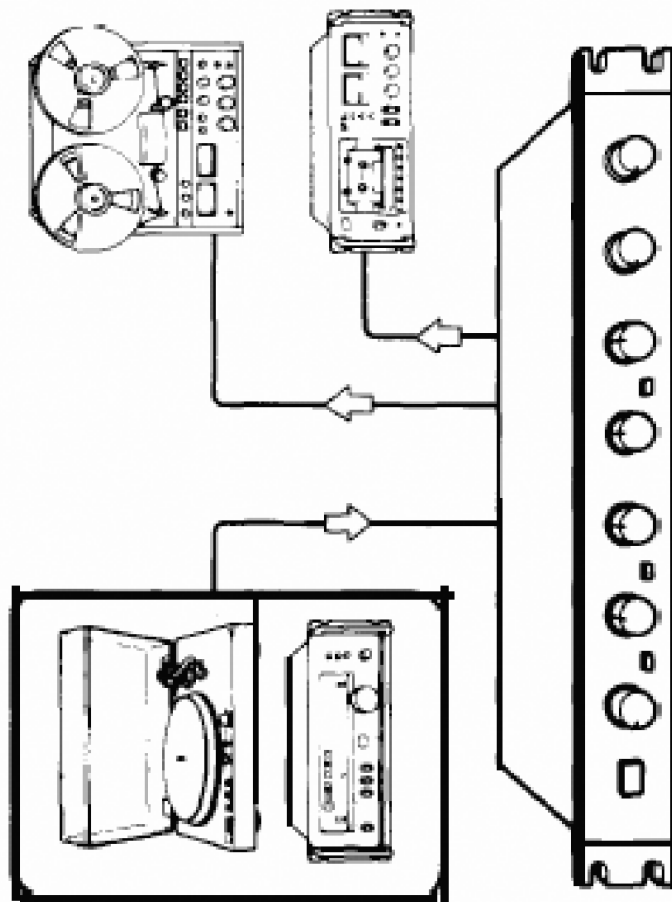


Operating procedures

Before turning the unit on, see that all controls and switches are properly adjusted as recommended, especially the VOLUME control.

1. Turn the VOLUME control fully to the left where "∞" is indicated. Volume will then be minimum.
 2. Set the TAPE PLAY switch to SOURCE.
 3. Set the OUTPUT SELECTOR switch to A or B position as appropriate.
 4. Set the BALANCE control to its center position.
 5. Set the LOUDNESS and SUBSONIC switches to OFF.
 6. Set the TONE switch to DEFEAT.
- Before turning the unit on, make sure that the power to the amplifier is switched on, and that the power to the power amplifier circuitry is stabilized.

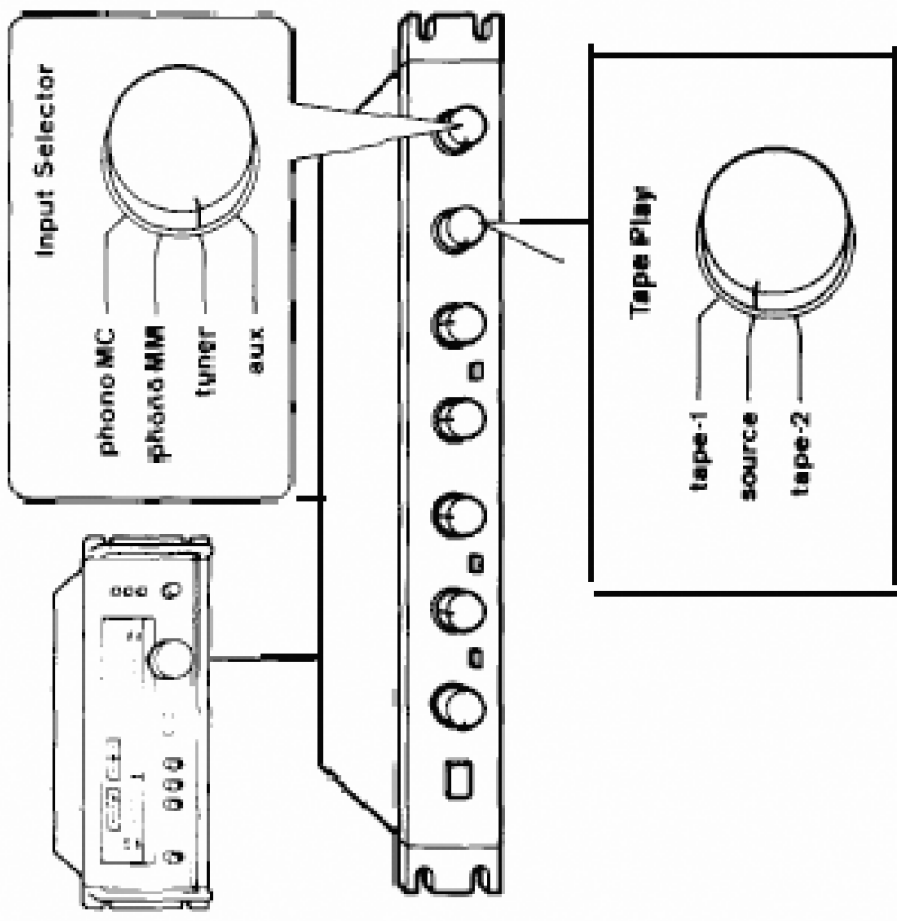




Recording disc records and radio broadcasts

Recording can be made on tape decks connected to the TAPE REC terminals.

1. Set the INPUT SELECTOR switch to the program source you want to record.
2. Operate the connected tape deck(s) and start recording.
3. When desiring to monitor the recording — instant monitoring — set the TAPE PLAY switch to TAPE-1 or TAPE-2.
 - Monitoring is possible only with those decks which have three separate heads for record, playback and erasure. It's not possible with those with two heads, one for record/playback and one for erase. Set the TAPE PLAY switch to SOURCE and hear the signals that are to be recorded.
 - Whatever positions they are set at, the tone control and filter switch do not affect the quality of recorded signal.

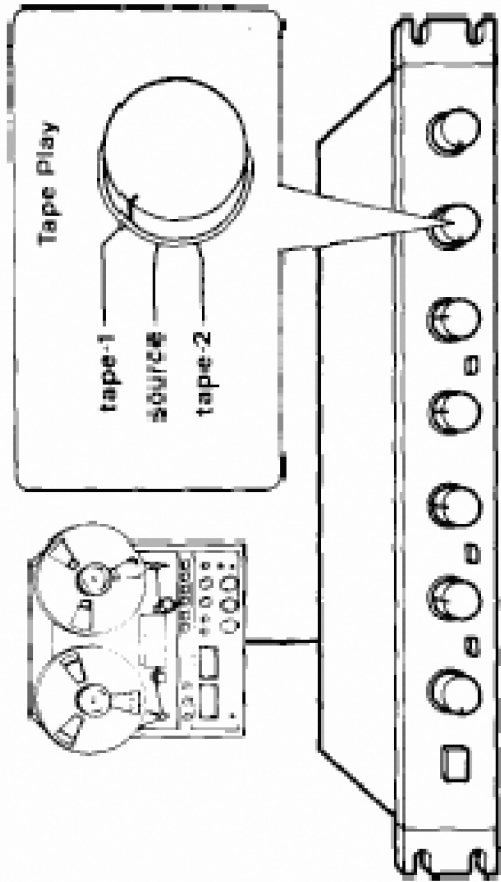


Listening to radio broadcasts

1. Be sure to turn the VOLUME control fully counterclockwise before operating any of the switches on the unit.
2. Set the INPUT SELECTOR switch to TUNER.
3. Control the tuner and tune in the desired station.
4. Adjust volume, balance and tone to your liking with controls switches on your unit.

Noise during radio reception

- Weak FM signals are often disturbed by ignition noise from near automobiles and other noise. Therefore, for better FM reception installation of an outdoor FM antenna is suggested. For antenna connection, be sure to use a coaxial cable, not a twin lead type.
- When you hear noise during AM reception, there are innumerable conceivable causes, which makes it almost impossible to eliminate all AM noises. Use the unit's TREBLE control when grounding unit or mounting a noise eliminating device fails to reduce noise.



Playback of Tapes

1. Be sure to turn the VOLUME control fully counterclockwise before operating any of the switches on the unit.
2. Set the TAPE PLAY switch to TAPE-1 or TAPE-2 in accordance with the tape deck you are using.
3. Operate the tape deck to start playback.
4. Adjust volume, balance and tone to your liking with controls and switches on your unit.

Suggestions for highquality tape playback

- Dirty heads in the tape deck deteriorate tonal quality and cause dropouts. Dirty capstans and pinch rollers increase wow and flutter.
- When a tape deck is used for a certain duration, heads can be magnetized and add, on playback, noise. Bringing forth tonal degradation. Be sure to de-magnetize the heads from time to time on a regular basis.
- Heads may be magnetized and information on tapes may be erased when subjected to magnets. Please take note.

Some useful hints

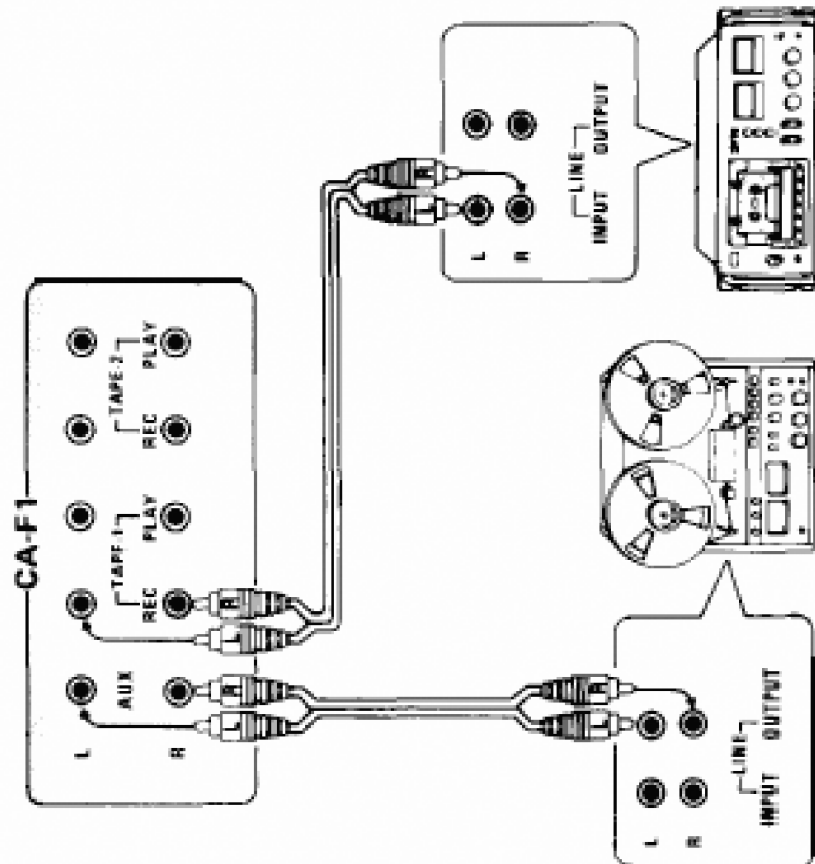
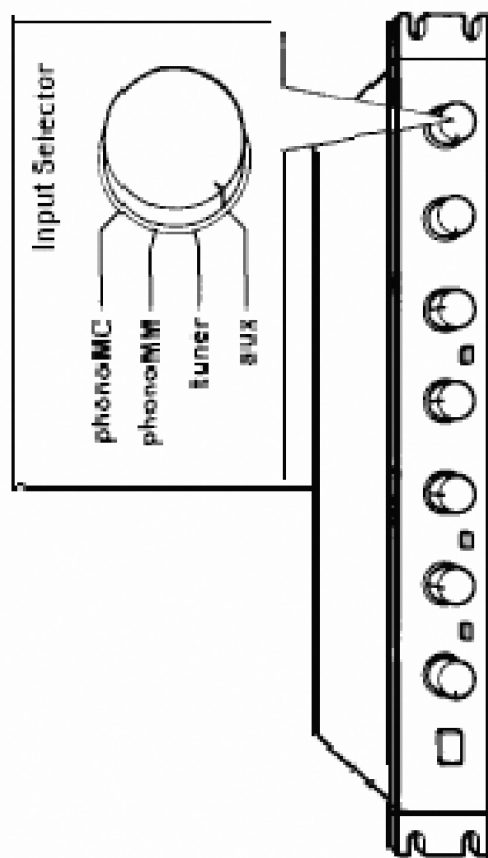
How to use AUX inputs

"AUX" means auxiliary, and the AUX inputs have the same electric function as the TAPE PLAY inputs. They therefore connect a deck, an adaptor for special cartridges, and other equipment that require about the same output level as the aforementioned components.

Tape-to-tape dubbi

It is possible to dub sound from one tape deck to another by using the AUX input terminals and corresponding switch position.

1. Set the INPUT SELECTOR switch to the AUX position and the play back the tape in the tape deck which is connected to the rear panel AUX terminals.
 2. Set the tape deck, which has been connected to the rear panel TAPE-REC terminals, to the recording mode and record the sound of the other tape deck.
- All the other operations are the same as those for recording a disc or broadcast.

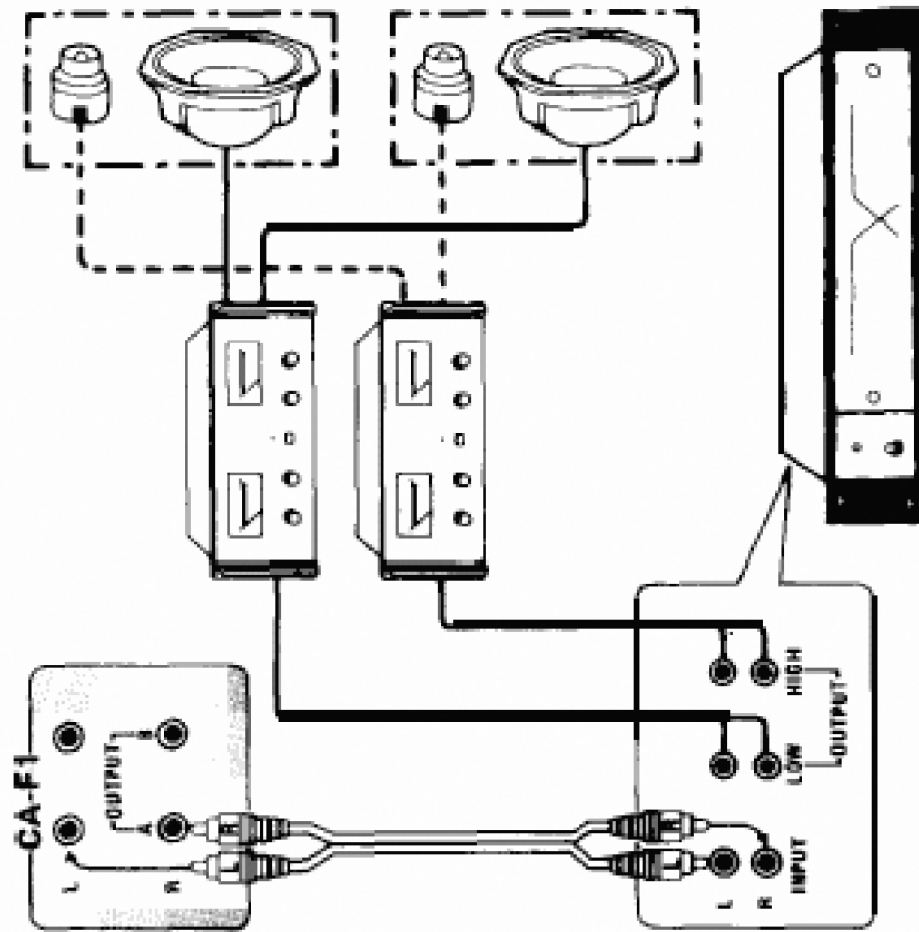


Multi-Amp Systems

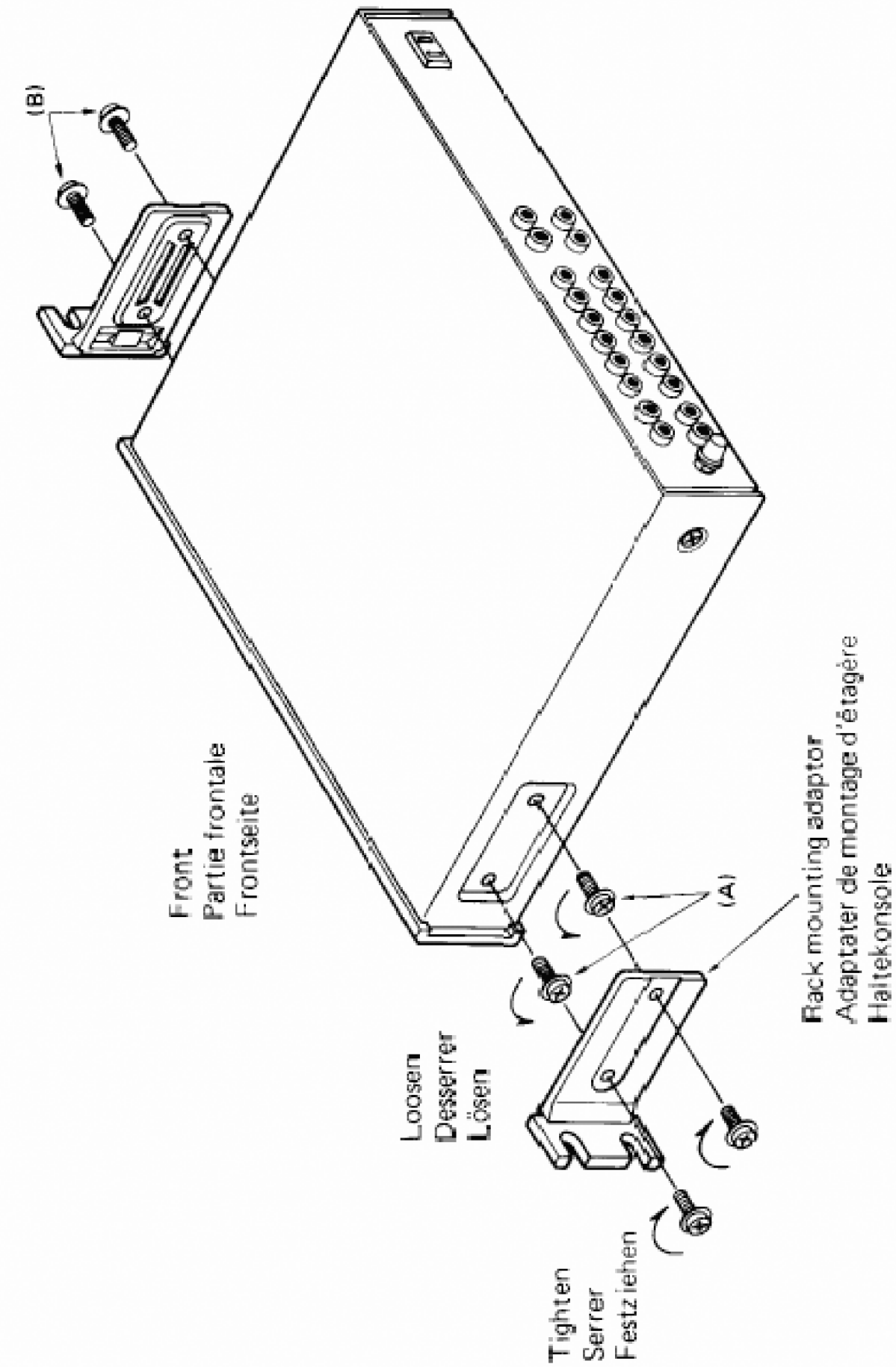
In a multi-amp system, the frequency range of sound is divided up into two or more portions, with a separate power amp for each portion. To divide the range into portions and amplify signals of each portion, a Channel divider (electronic crossover network) and two or more power amplifiers are necessary. Reduced distortion, accurate frequency crossover, and minimal degradation of the damping factor can be the extra cost of a multi-amp system quite worthwhile.

- **To Connect a Multi-Amp System**

Connect the preamplifier OUTPUT terminals with the Channel divider INPUT terminals. Then connect the power amplifier INPUT terminals with the channel divider OUTPUT terminals



About rack mounting adaptors
Remarques concernant les adaptateurs de montage d'étagères
Zu den Haltekonsole für die Regalmontage



Specifications

Total harmonic distortion (20 Hz to 20 kHz)

AUX less than 0.005 % at 1V

Intermodulation distortion (70 Hz : 7 kHz = 4:1 SMPTE method)

AUX less than 0.005 % at 1V

Frequency response

RIAA curve deviation (PHONO, 20 Hz to 20 kHz)

+0.2dB, -0.2 dB

Input sensitivity and impedance (1 kHz, for rated output)

PHONO-MC

0.1 mV/10 ohms

(Max. input capability; 24 mV at 1 kHz, less than 0.03 % total harmonic distortion)

PHONO-MM

2.5

mV/47 kilohms

(Max. input capability; 350 mV at 1 kHz, less than 0.008 % total harmonic distortion)

AUX

150

mV/47 kilohms

Output level and impedance (1.000 Hz)

TAPE

REC

150

mV/47 kilohms

OUTPUT

1.0

V/47 kilohms

(Maximum output level: 10 V at 0.005 % total harmonic distortion)

Rise time 0.6 μ sec

Slew rate \pm 50 V/ μ sec

Channel separation (1 kHz, at rated output)

PHONO-MC

75

dB

PHONO-MM

85

dB

AUX

88dB

Hum and noise fshort-circuit, A-network)

PHONO - MC

7.5

dB

PHONO - MM

9.0

dB

AUX

100 dB

Controls

BASS

+7 dB, -9 dB (50 Hz)

TREBLE

-3 dB, +7 dB, -7 dB (15 kHz)

SUBSONIC

9 dB

(16 Hz), 6 dB/oct (50 Hz)

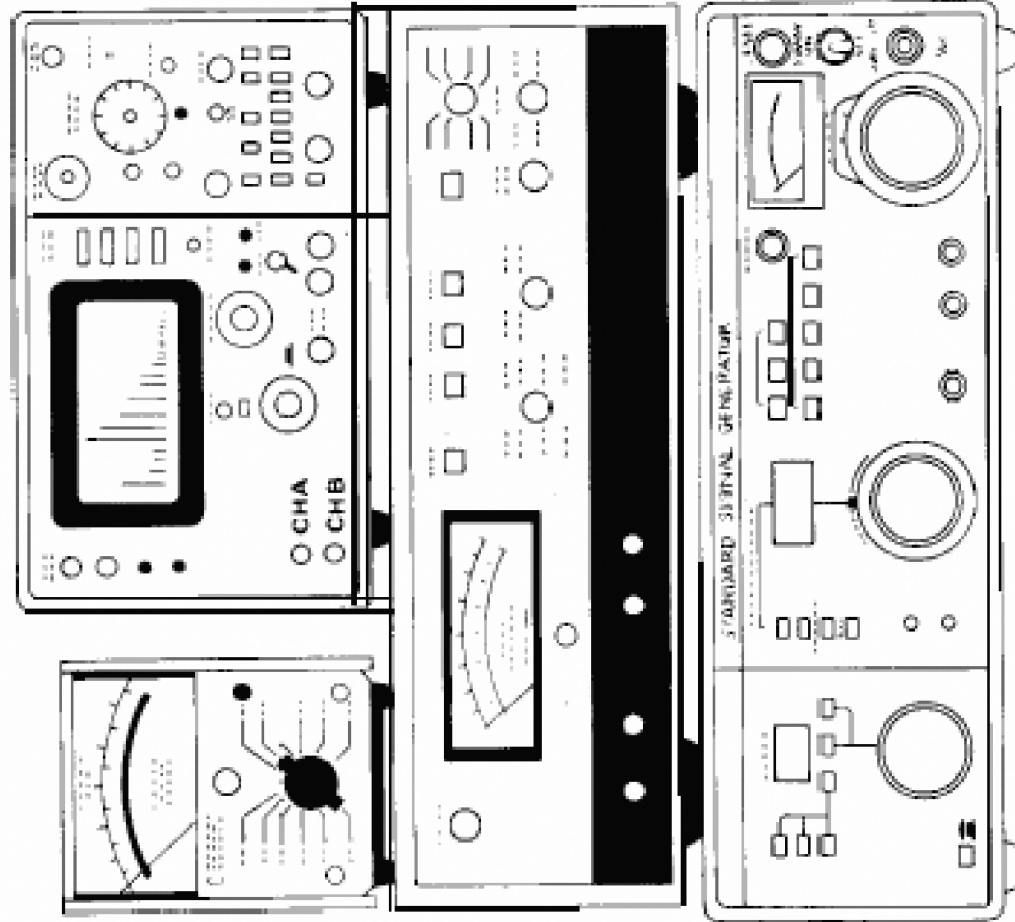
LOUDNESS

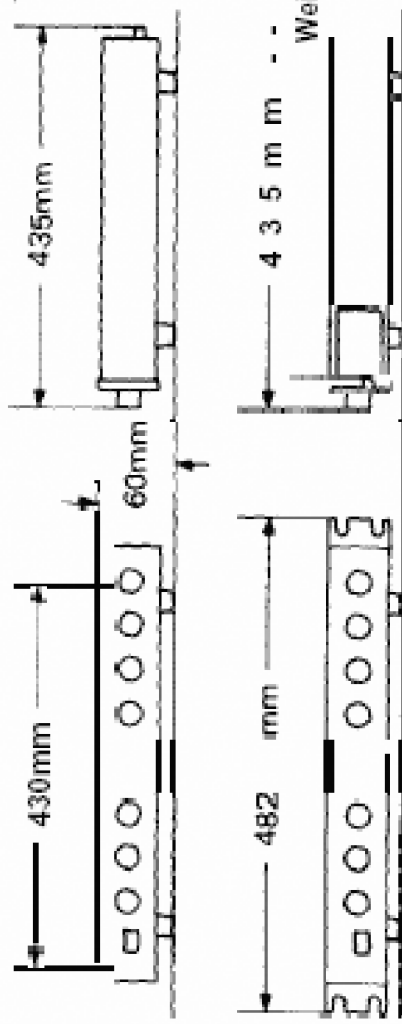
9 dB

(50 Hz)

(Volume control: -30 dB)

5 dB (10 kHz)





Power requirements

Power voltage 100, 120, 220, 240 V (50/60 Hz)
 For U.S.A and Canada 120 V (60 Hz)

Power consumption 45 watts

Rated consumption 430 mm (16-15/16") W

Dimensions 60 mm (2-3/8") H

. 435 mm (17-3/16") D

. 6.1 kg (13.4 lbs) net

. 7.5 kg (16.5 lbs) packed

* Design and specifications subject to changes without notice for improvements.

• In order to **simplify** the explanation illustrations **may sometimes** differ from the original