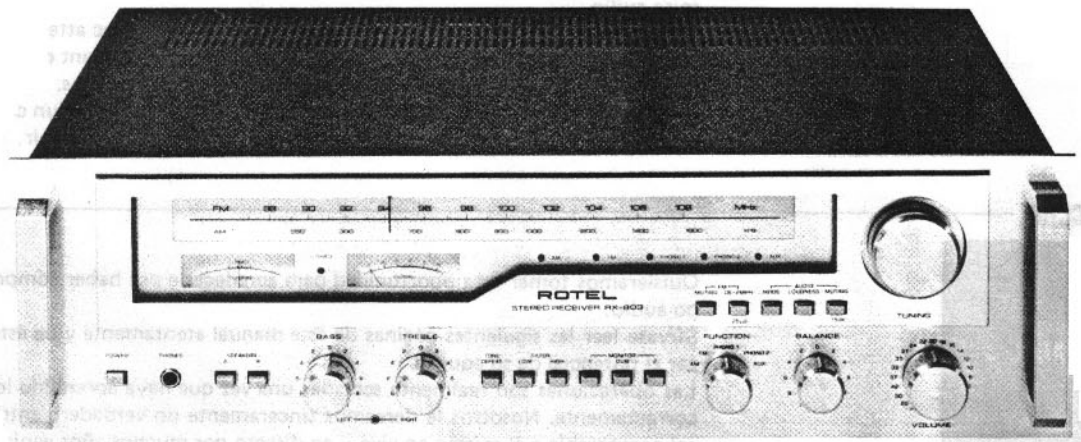


OWNER'S MANUAL

SERIAL
NUMBER

WRITE YOUR SERIAL NUMBER HERE.
THE NUMBER IS LOCATED NEAR THE
NAME PLATE ON THE UNIT'S REAR PANEL.

ROTEL®



RX-803

STEREO AM/FM RECEIVER

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

Quality. Uncompromised.

ROTEL THE ROTEL CO., LTD.

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● INSTALLATION

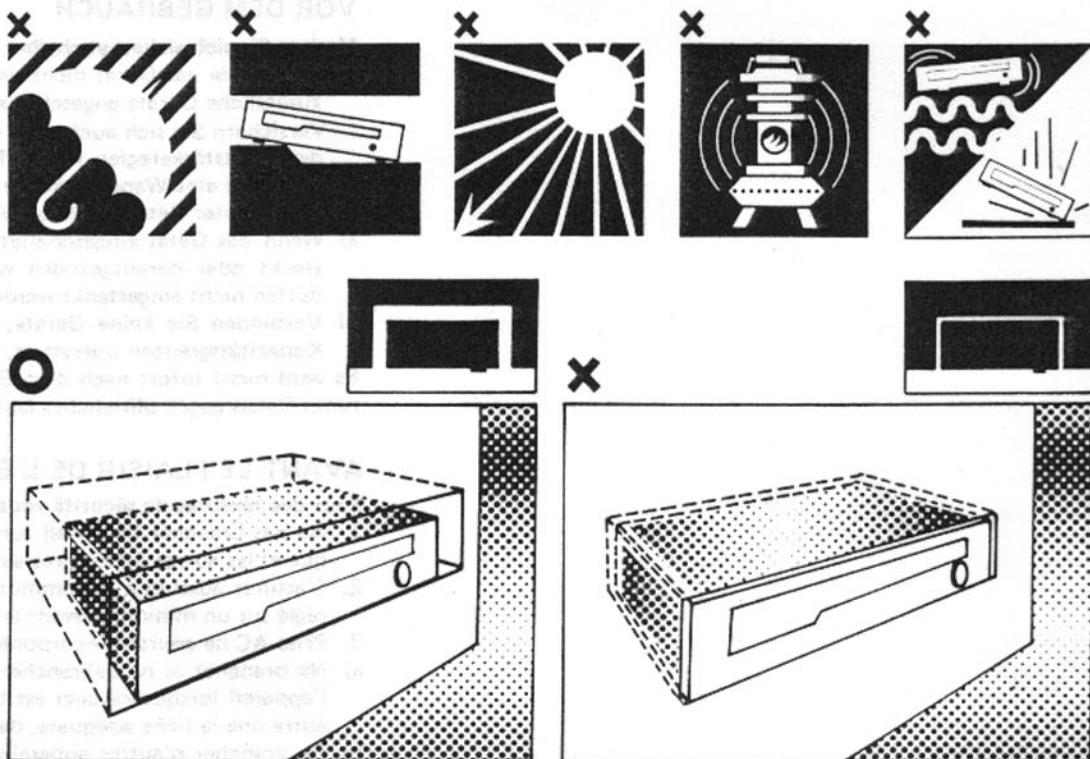
● BEFORE ENJOYMENT

For safety sake keep in mind the following cautions:

1. Do not connect the unit to the AC power line without speakers, turntable and other auxiliary components connected beforehand.
2. Make sure also that the power switch is OFF and the volume control is set at minimum before plugging in the power cord to a wall outlet.
3. Furnished Convenience AC Outlet
 - a) Do not insert or remove plug from any convenience AC outlet supplied on the appliance while the appliance is connected to power. Also do not insert foreign object, other than a proper plug, into the convenience AC outlet.
 - b) Do not connect other appliance(s) to convenience AC outlet if its/their total power consumption exceeds maximum rated watts labeled next to the outlet.

Sound will not come out immediately after the power switch is pushed on due to use of the protection relay against sudden loud noise.

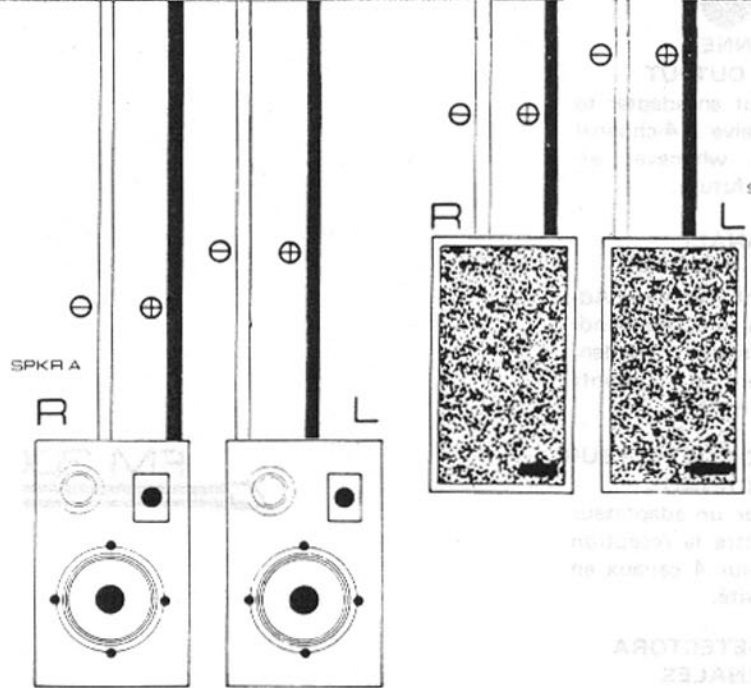
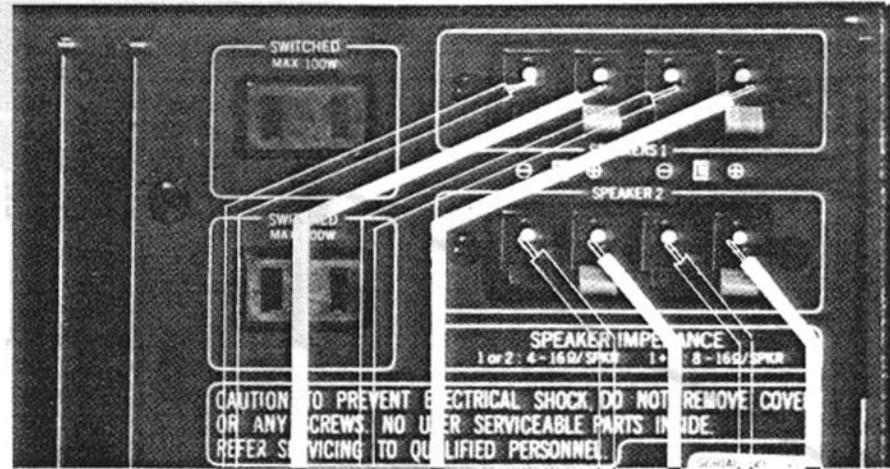
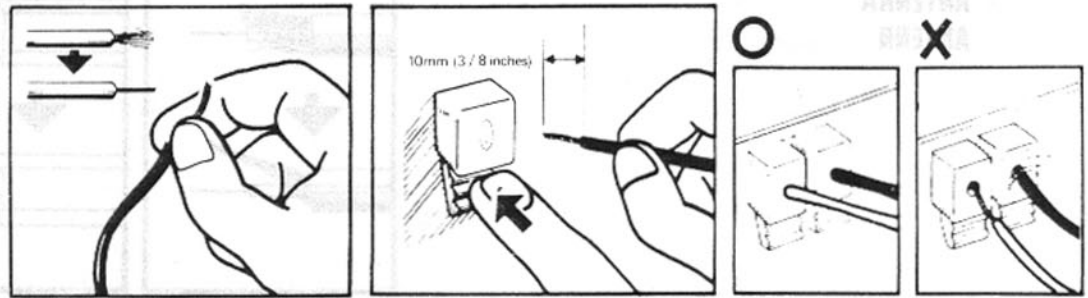
● LOCATING THE UNIT



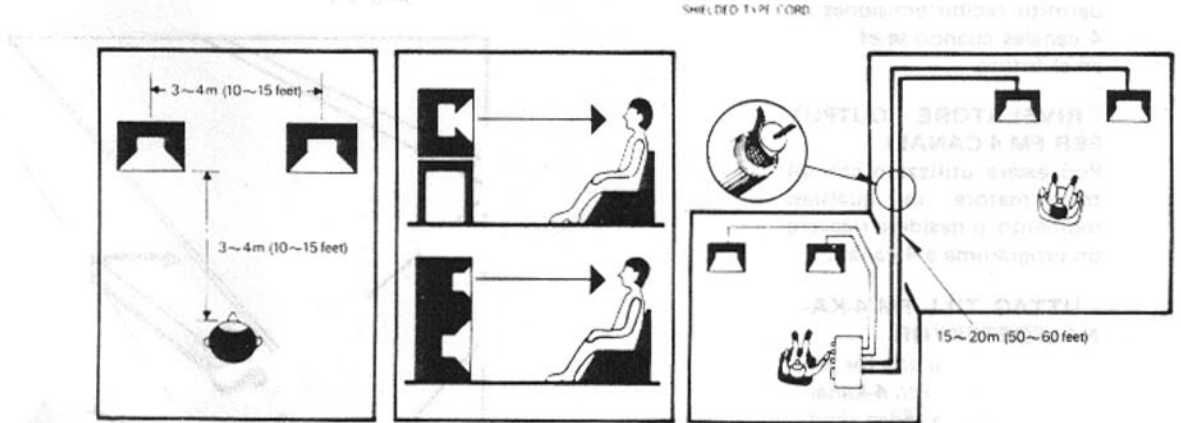
● SPEAKERS

- **Impedance** — Be sure to use speakers rated at 8 ohms or higher up to 16 ohms. In the event your speakers are rated at 4 ohms or lower than the desired 8 ohms, you may operate with one pair of such type of speakers at a time but never two pairs of speaker systems simultaneously. This measure is to prevent any severe overload and distortion from happening due basically to too low impedance to draw excessively high current. When you are uncertain on your speakers rating values, consult with the dealer or store you purchased.

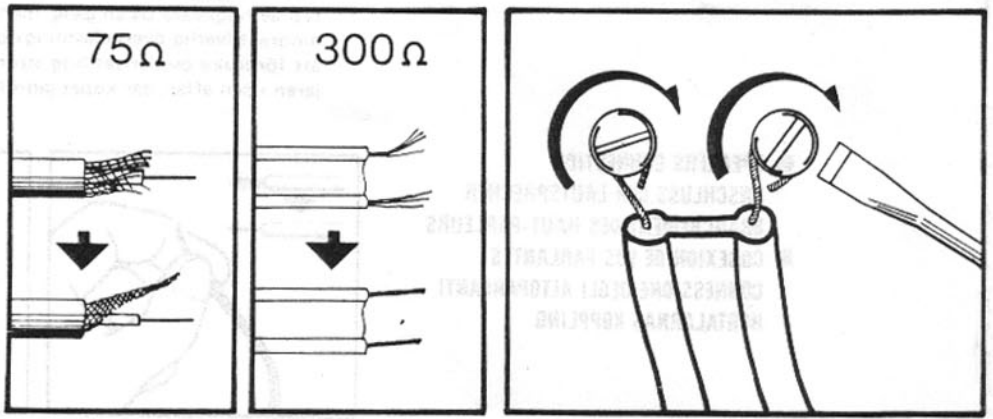
● **SPEAKERS CONNECTION**



● **SPEAKERS PLACEMENT**



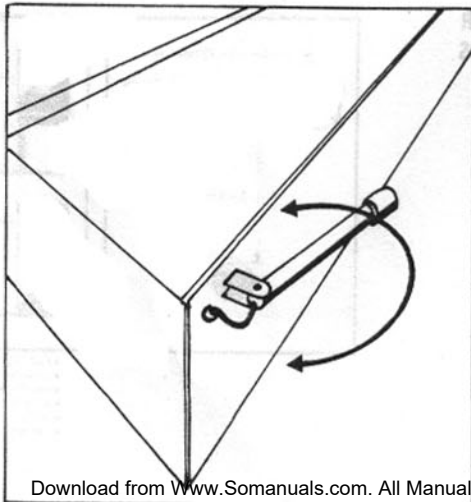
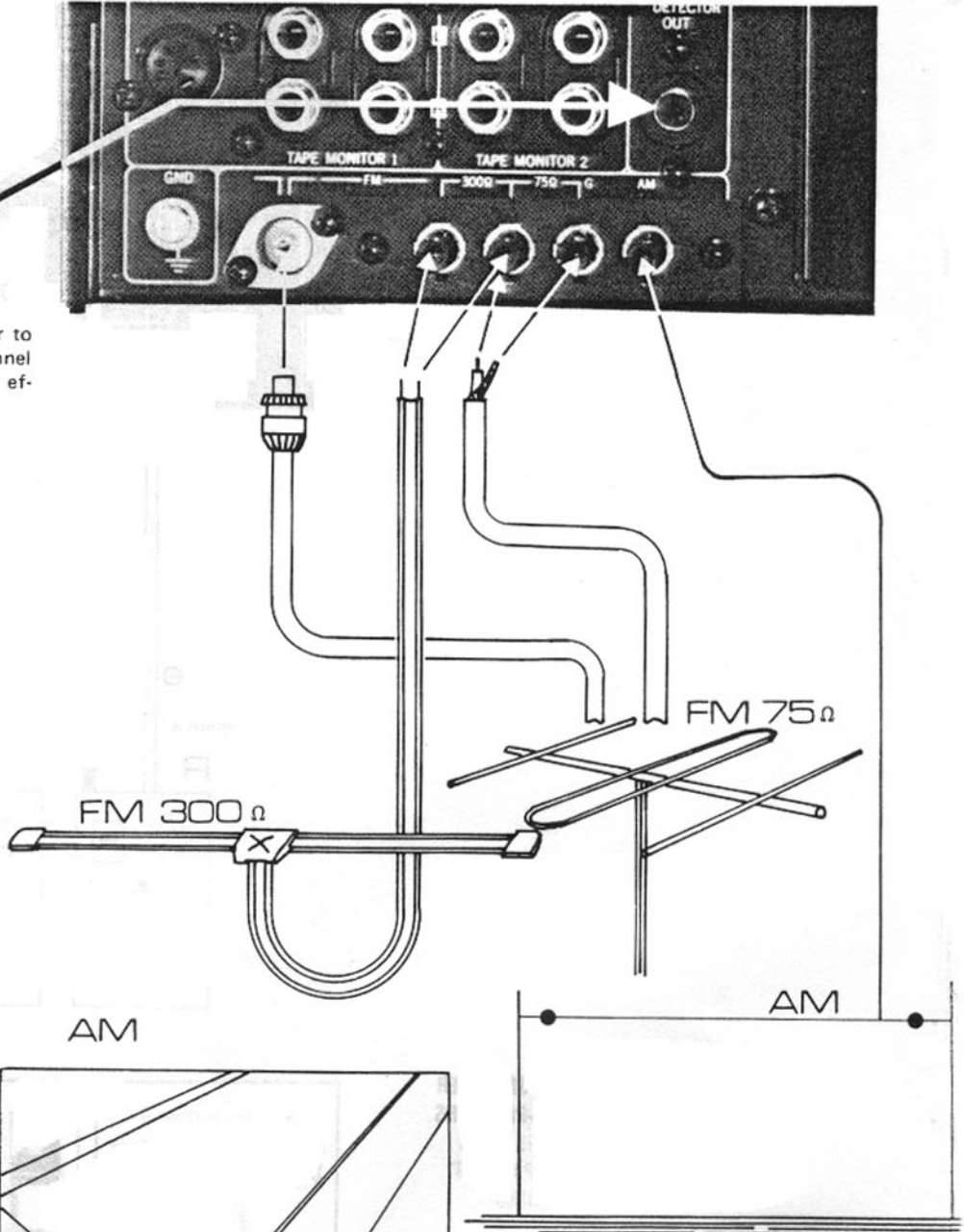
● ANTENNA



● CONNECTION

● FM-4 CHANNEL DETECTOR OUTPUT

Use to accept an adapter to enable receive 4-channel broadcasting whenever effected in the future.



● AC OUTLET

● NOT AVAILABLE FOR U.K., SCANDINAVIA AND SOME OTHER COUNTRIES

The convenient AC outlets on the rear panel provide power to components you may wish to connect to the unit. Note an outlet marked SWITCHED has power controlled by the power switch of the unit, and one marked UNSWITCHED has power always available not affected by the power switch.

Caution: Do not connect components whose total power consumption exceed rated maximum wattage marked beside the AC outlet.

● POWER SUPPLY

- For power the unit requires the normal house AC electrical current (wall outlet). Before connecting up ensure that the unit has a suitable plug fitted. If in any doubt about connecting to the power source, consult a qualified electrician.

EXCLUSIVE NOTE FOR U.K.

If your unit comes with a 3-core cable without a plug, make certain live, neutral and (where appropriate) earth leads are connected to the proper terminals.

Check that the terminals are screwed down firmly and no loose strands of wire are present.

WARNING: THIS APPARATUS MUST BE EARTHED.

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

GREEN/YELLOW	:	EARTH
BLUE	:	NEUTRAL
BROWN	:	LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows.

The wire which is coloured GREEN/YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol \perp , or coloured GREEN/YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLUE or BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured BROWN or RED.

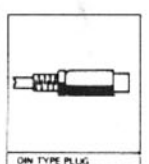
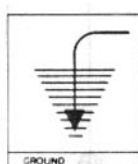
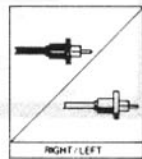
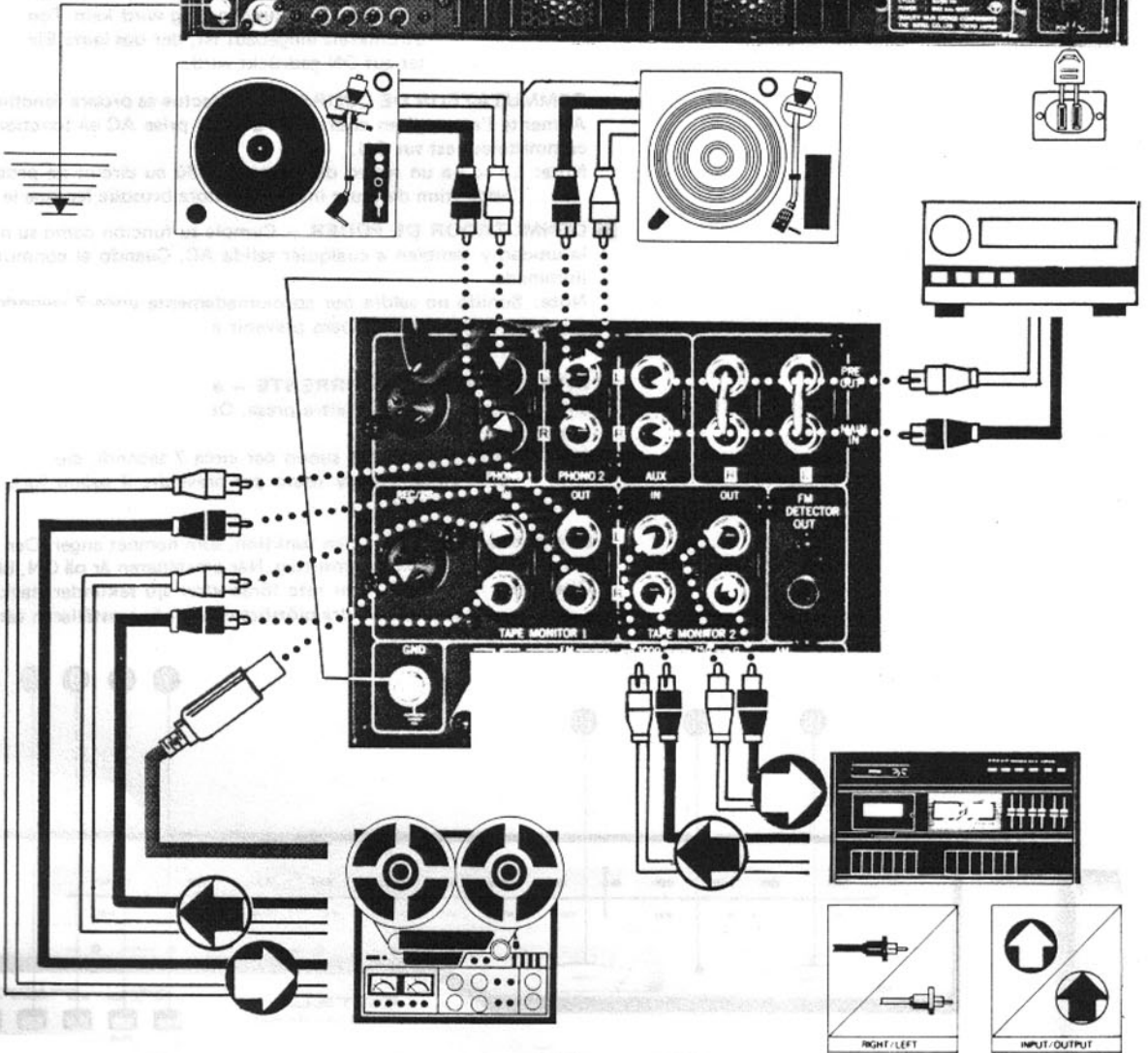
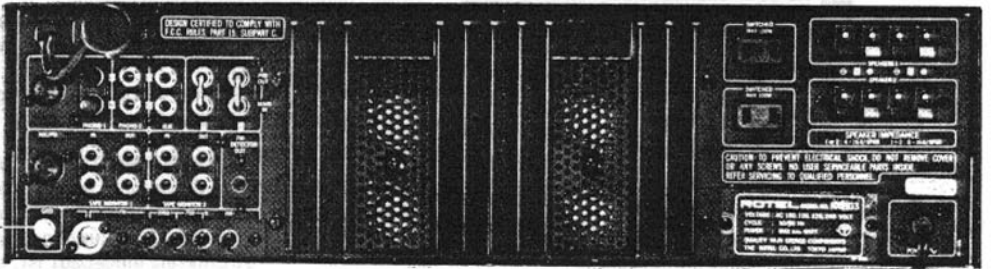
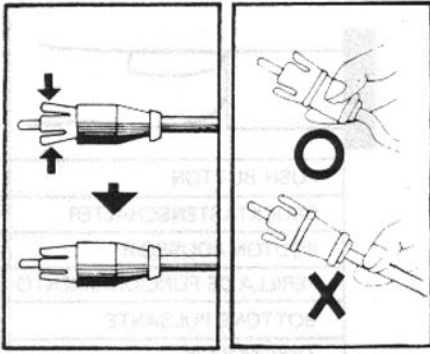
The apparatus must be protected by a 3 Amp fuse if a 13 Amp (BS 1363) plug is used. If another type of plug is used a 5 Am fuse or lower must be used, either in the plug or adapter or at the distribution board.

● PRE AMP OUT AND MAIN AMP

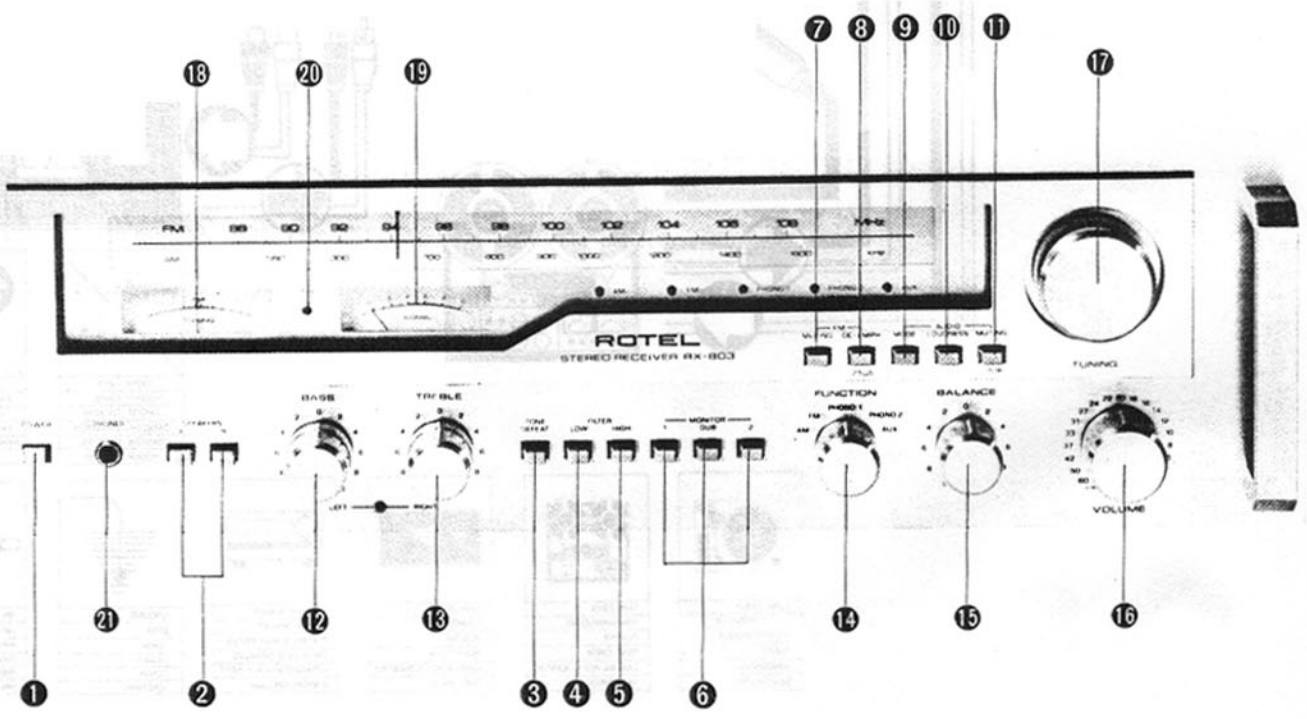
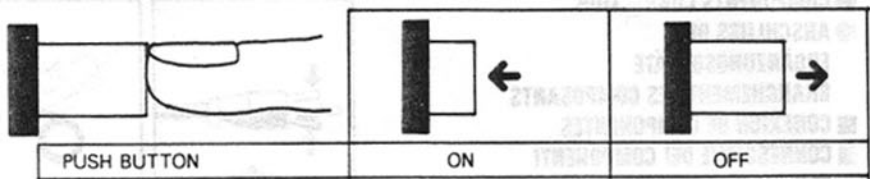
- Note: Do not remove the pair of U-shaped jumper pins connecting PRE AMP OUT and MAIN AMP IN when in normal use.

These receptacles are intended for use when you wish to operate pre-amplifier/tuner and main-amplifier sections of this unit separately such as connecting another pre-amplifier or main-amplifier, or to connect appropriate auxiliary component such as audio equalizer in between. Simply disconnect the jumper pins and follow the instruction supplied with such component.

● COMPONENTS CONNECTION



● SWITCH AND CONTROLS

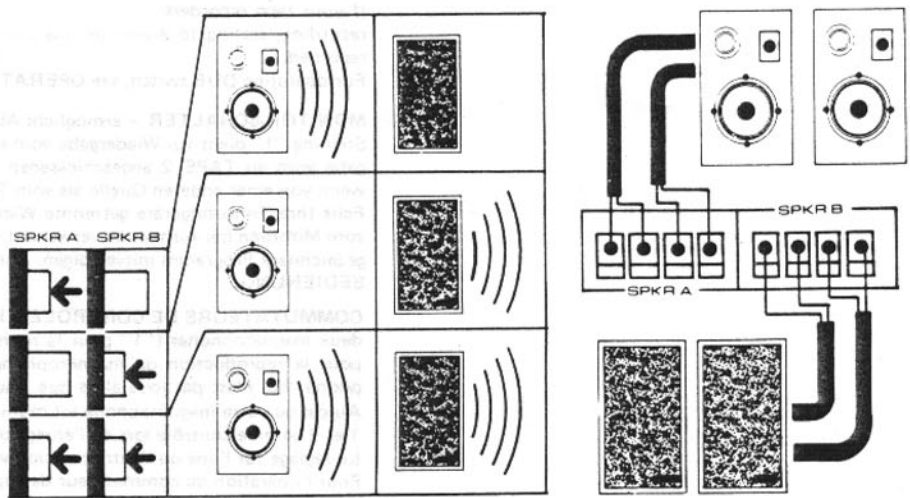


1

● **POWER SWITCH** — performs the function as its name denotes. It supplies power to the unit and to any switched AC outlets. When the switch is ON the dial light will be illuminated.
 Note: Sound will not come out for about 7 seconds due to the relay protection circuit used to prevent loud pop noise when the switch is pushed ON.

2

● **SPEAKER SWITCHES**



3

● **TONE DEFEAT SWITCH** — permits you to deactivate the tone control circuit to provide an absolutely linear response when in ON position.

4

● **LOW FILTER** — allows you to reduce the low frequency response of your unit whenever you wish to reduce annoying record and tape rumbles, etc..

5

● **HIGH FILTER** — Allows you to reduce high frequency interference whenever you wish to eliminate annoying record scratches, tape hiss, FM background noise, etc.
 Normally, however, keep this switch OFF.

6

● **MONITOR SWITCHES** — allows you to play back, monitor, and dub (record each other) two tape recorders. "1" to play back the tape recorder connected to TAPE 1, and "2" to play back the tape recorder connected to TAPE 2. Set to OFF position whenever tape recorder is not being played but other material is being played.

If your tape recorders have separate playback heads, 1 and 2 positions can be used as monitors when recording; setting to either of this position will allow you to listen to program as actually being recorded.

For operating DUB switch, see OPERATION section.

7

● **FM MUTING SWITCH** — allows you to reduce audible interstation noise when turning from station to station in FM.

Leave the switch OFF when you wish to pick up a very weak station.

8

● **FM 25 μ s DE-EMPHASIS SWITCH** — allows you to set this unit to proper de-emphasis level of FM reception, when you wish to connect Dolby noise reduction adapter to the receiver and listen to Dolby FM broadcasting. Be sure to use the switch only when such adapter is connected and Dolby FM broadcasting is tuned.

9

● **MODE SWITCH** — allows you to select between mono and stereo operations. Normally, always leave ON at stereo.

When in mono operation sound will still come out from both speakers.

10

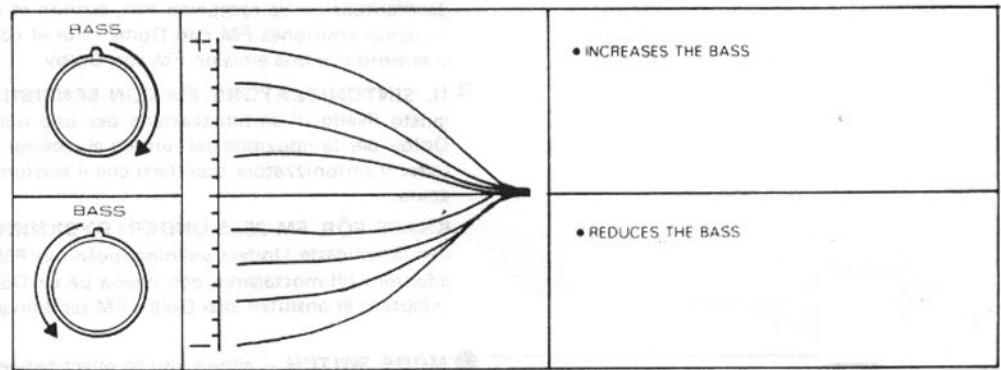
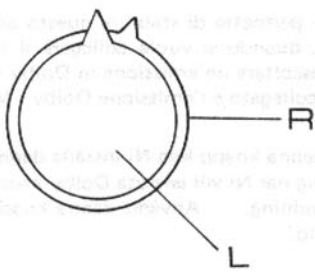
● **LOUDNESS SWITCH** — allows you to boost low and high frequencies at low listening levels. Leave the switch OFF at normal or high volume settings.

11

● **AUDIO MUTING SWITCH** — allows you to reduce the level of volume by -15db for momentary quieting when you do not wish to change the volume setting but must lower volume temporarily.

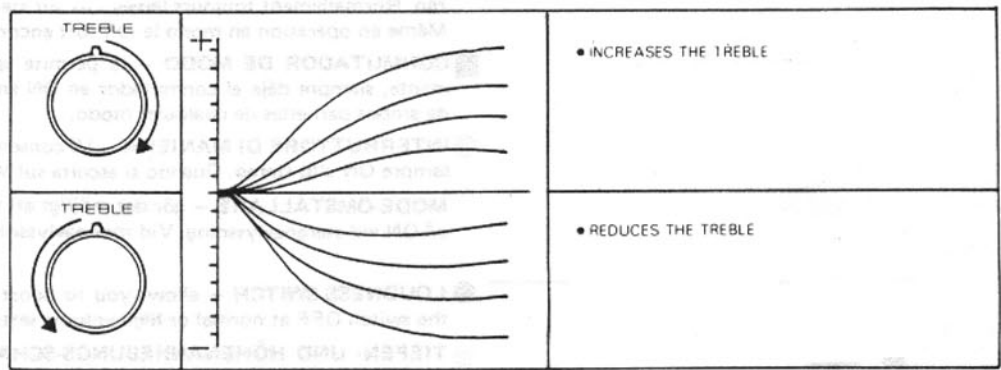
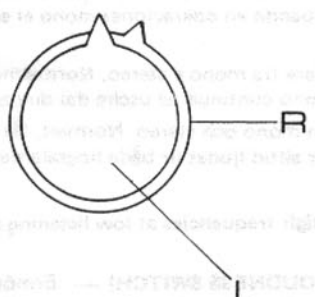
12

● BASS CONTROL



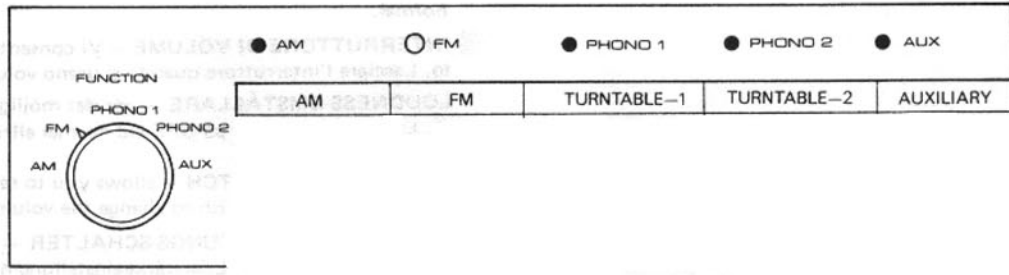
13

● TREBLE CONTROL



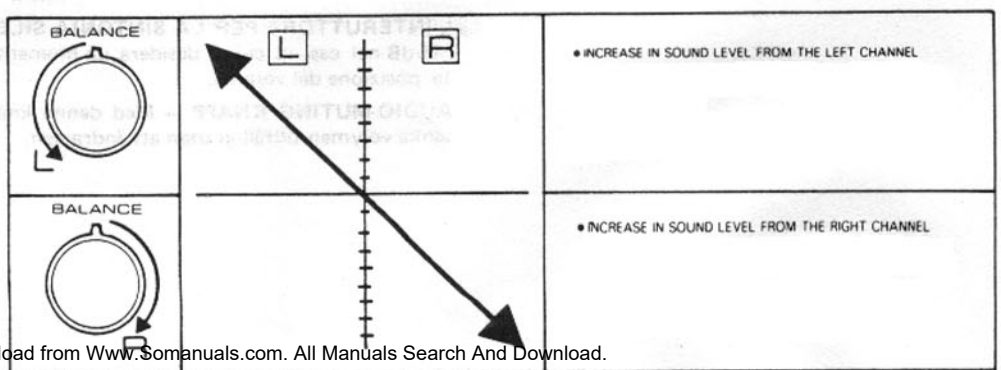
14

● FUNCTION SELECTOR SWITCHES



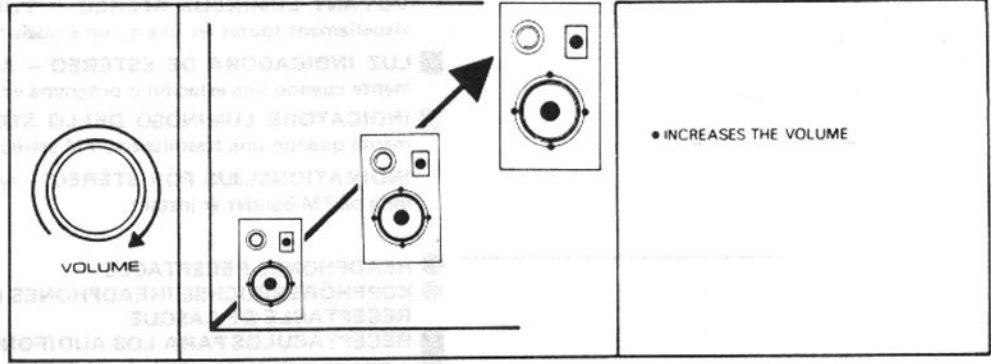
15

● BALANCE CONTROL



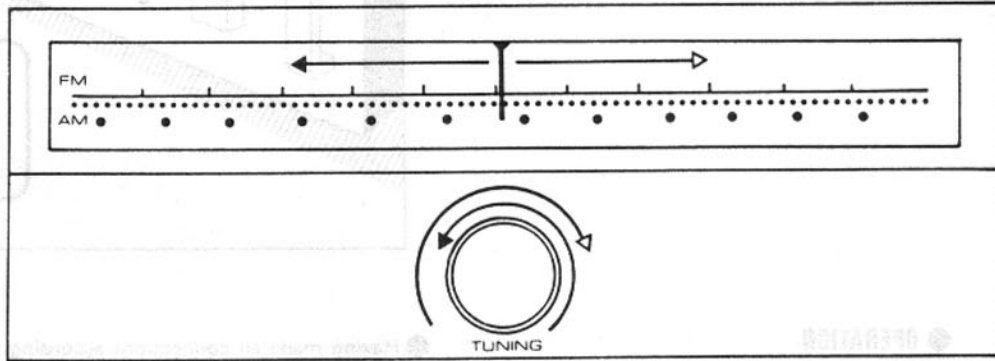
16

● VOLUME CONTROL



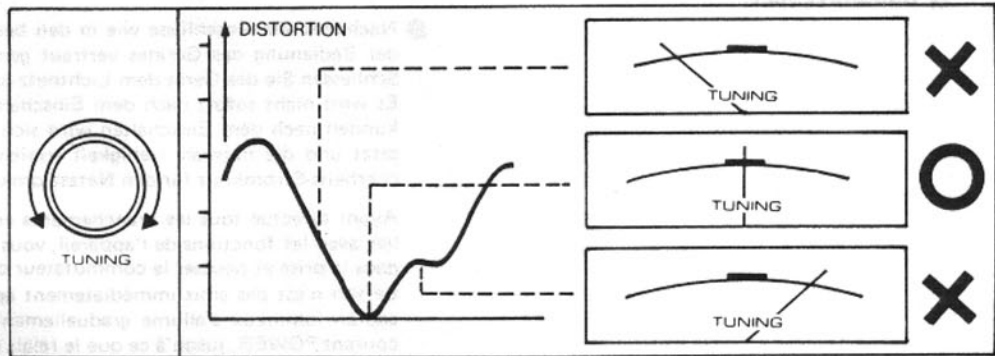
17

● TUNING KNOB



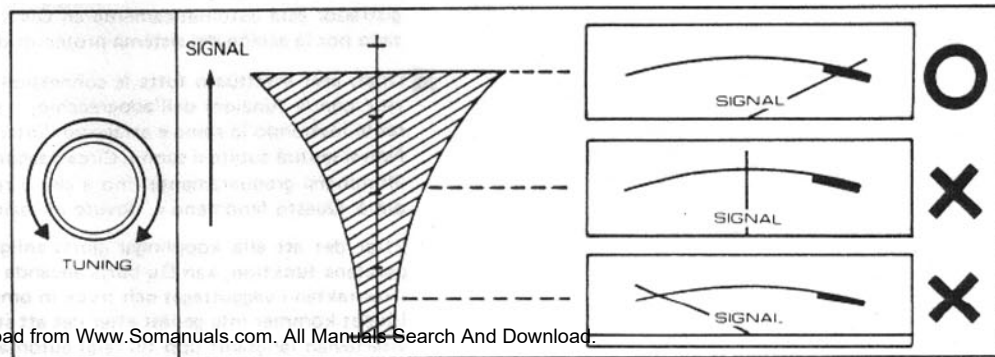
18

● FM TUNING METER



19

● SIGNAL STRENGTH TUNING METER



20

- **STEREO INDICATOR LIGHT** — automatically lights up on the dial glass to visually indicate whenever an FM stereo broadcast is tuned.

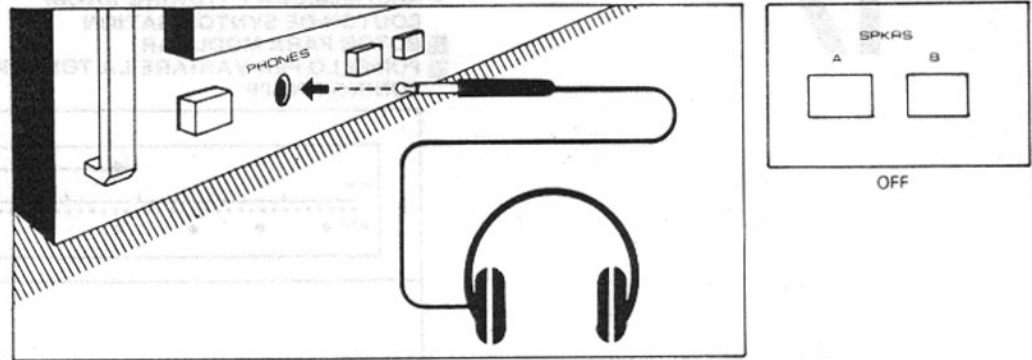
visivamente

visivo.

- **LUZ INDICADORA DE ESTEREO** — Automaticamente se enciende en el dial para indicar visualmente cuando una estación o programa en FM estereo está en el aire.
- **INDICATORE LUMINOSO DELLO STEREO** — Si accende automaticamente per indicare visualmente una trasmissione FM stereo e' a tono.

21

- **HEADPHONES RECEPTACLE**

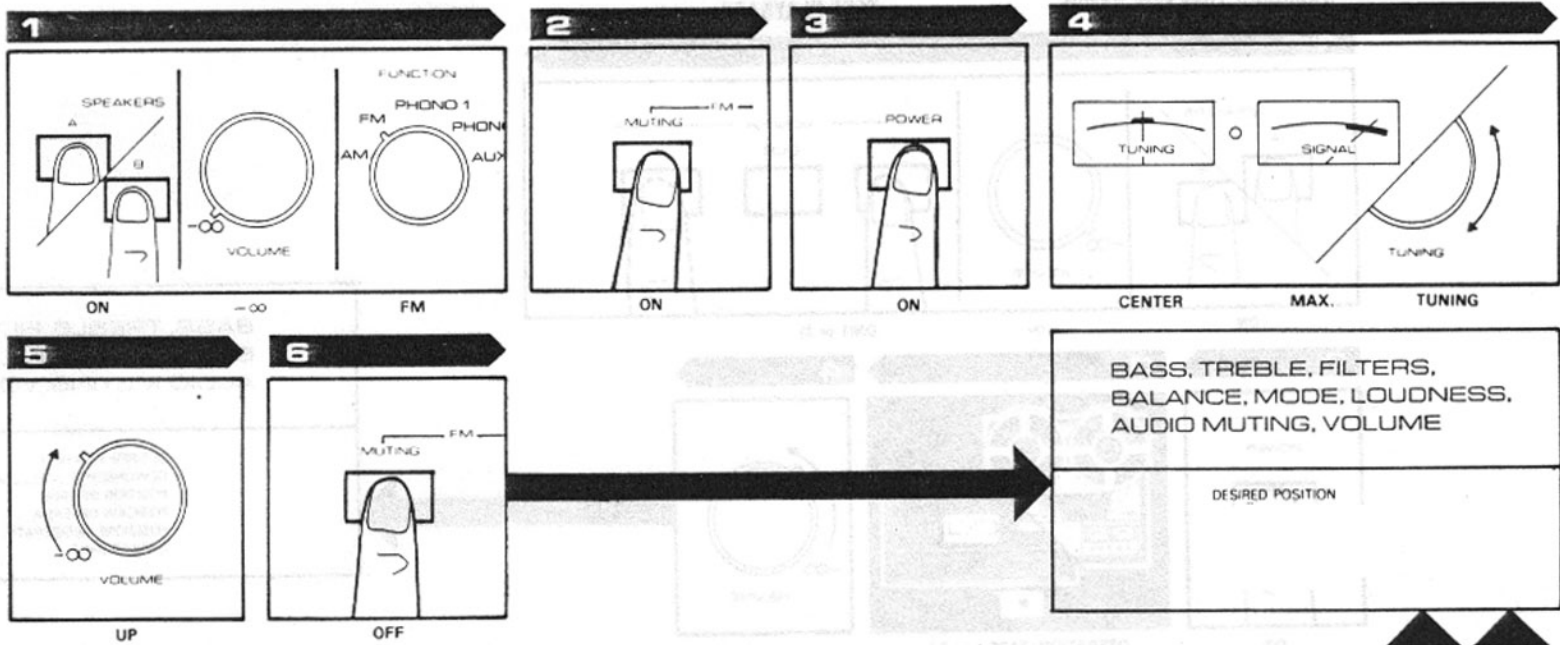


● OPERATION

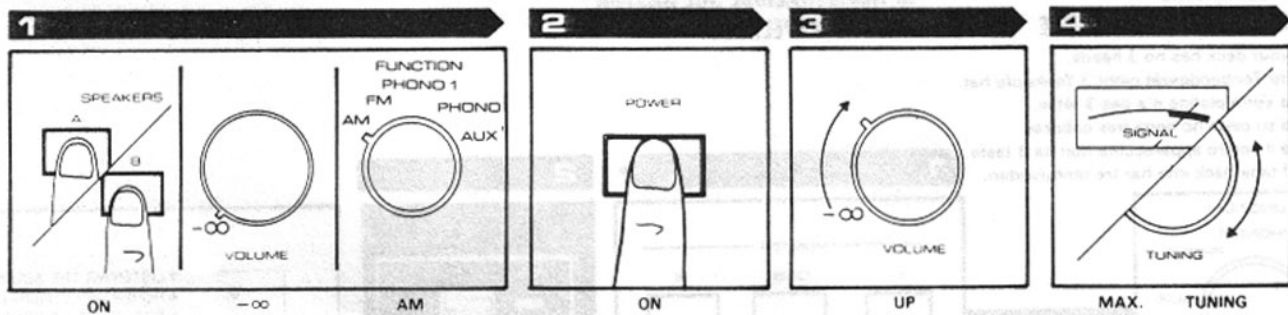
- Having made all connections according to the preceding instructions and become familiar with the functions of the unit, you are ready to operate the equipment. Apply power by plugging into the power source and pushing in the **POWER** switch. Sound will not come out immediately after the **POWER** switch is pushed on. In roughly 3 seconds upon switching on **POWER**, the dial scale will gradually brighten until the relay is automatically set **ON** and the normal lighting is attained. (This phenomenon is caused by the action of the surging pro-

● RECEIVING FM BROADCASTS

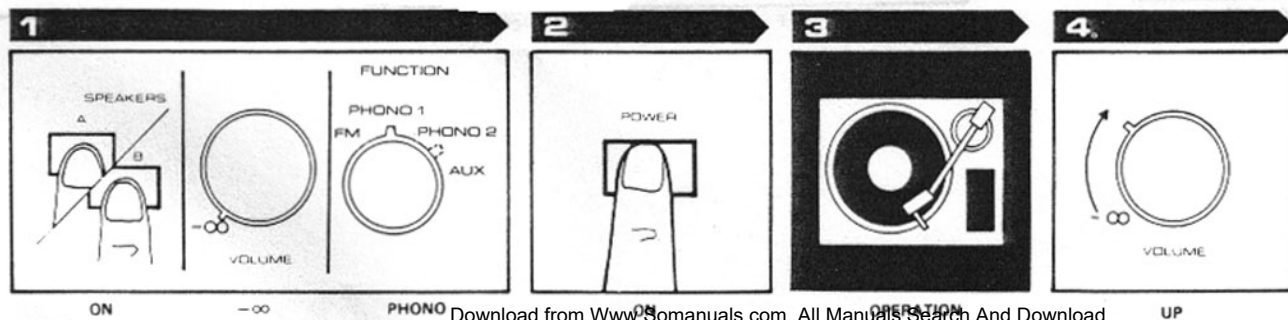
About 7 seconds after switching on POWER:
Speaker switch is electronically activated by relay.



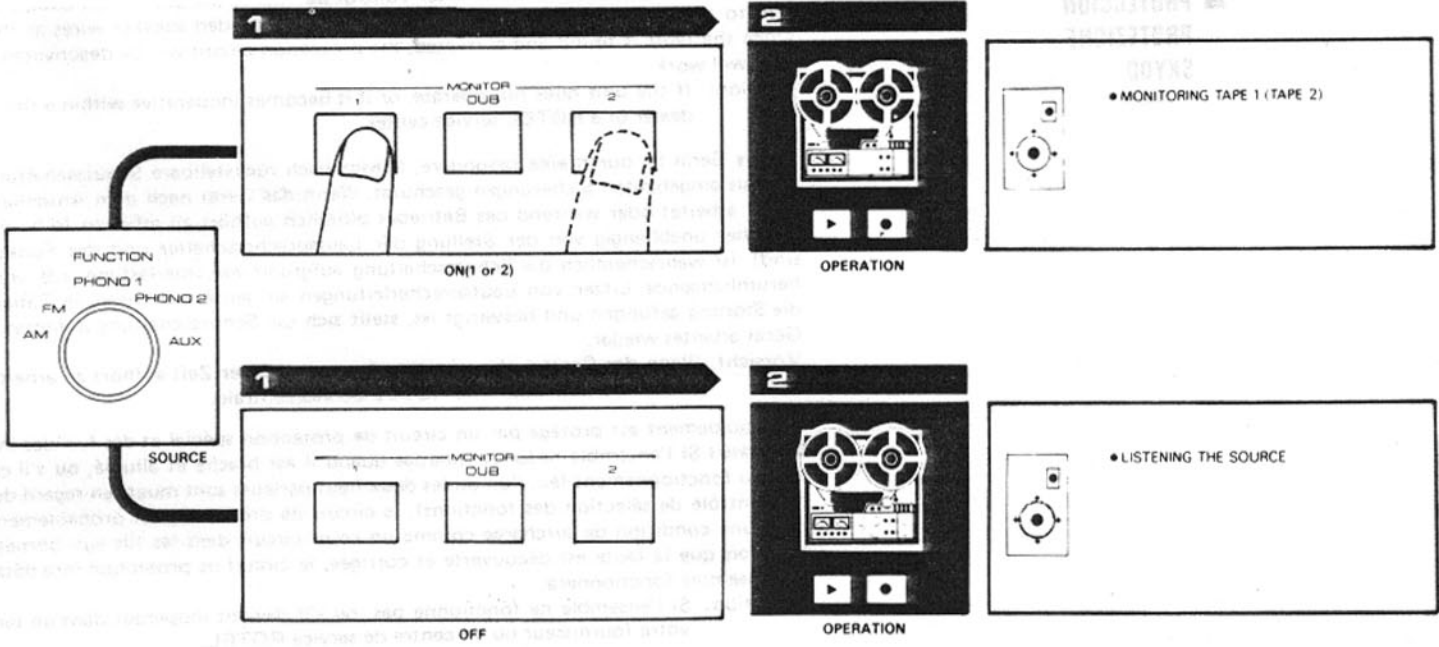
● RECEIVING AM BROADCASTS



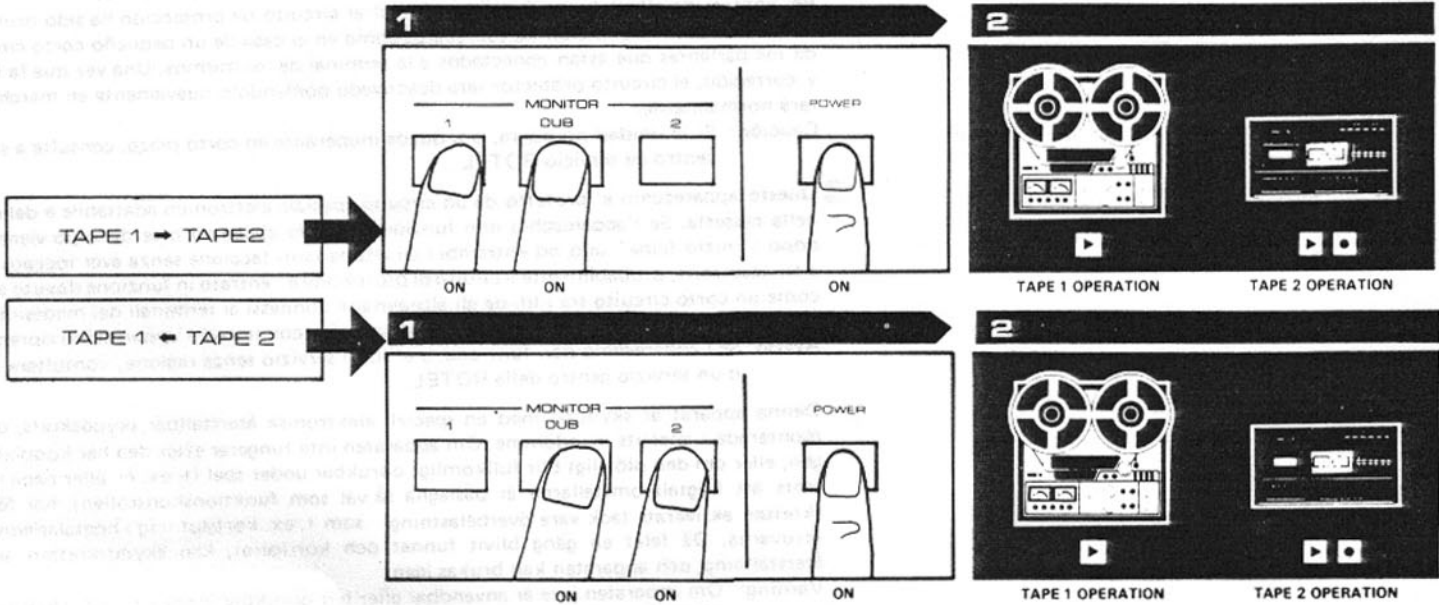
● TURNTABLE



● When your deck has 3 heads.



● DUBBING



TAPE 1 → TAPE 2

TAPE 1 ← TAPE 2

● When your deck has no 3 heads.	● When your deck has 3 heads.
● PLAYING BACK TAPE 1	● PLAYING BACK TAPE 2 OR MONITORING
● PLAYING BACK TAPE 2	● PLAYING BACK TAPE 1 OR MONITORING

● PROTECTION

This equipment is protected by a special electronic resettable protection circuit and the fuses installed inside the chassis. If the unit fails to operate when plugged in and turned on or if it suddenly becomes completely inoperative while playing (i.e. one or both speakers are silent regardless of speaker switches and function selector control position), the protection circuit is probably activated due to an overload condition such as shorting by stranded speaker wires at the speaker terminals. Once the fault is found and corrected, the protection circuit will be deactivated by resetting and the unit will work.

Caution: If the unit does not operate, or if it becomes inoperative within a short time, consult your dealer or a ROTEL service center.

● HUM AND NOISE

In any high fidelity installation, hum may be caused by the interconnection of a record player, tuner and amplifier, and speakers as result of the cables, different grounds or locations of components. If hum is experienced with your unit, disconnect everything but the speakers from the unit. If the hum persists, reverse the power plug at the power source.

Plug in the record player and if hum or howling appears, move the record player away from the speakers as much as possible.

Note hum may also be induced by defective connection cables or by running these cables too close to a strong AC field.

When your unit picks up noise during the reception of broadcasts, causes are mostly due to external objects such as fluorescent lamps and house appliances using motor or thermostat, or others that may induce the noises.

Either relocating the unit away from the noise sources or using an improved outdoor antenna may readily solve the problem.

In the event you cannot find the causes, consult your dealer or a qualified electrician.

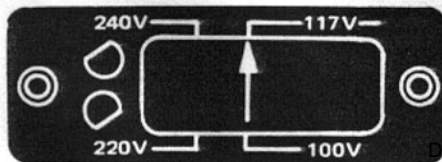
● VOLTAGE SELECTION

● Not available for U.K., Canada and Scandinavia

The receiver is a variable voltage equipment that can run on 100V, 117V, 220V or 240V power supply. Your unit comes already preset at the proper voltage for use in your area, however, if you move to an area where the power supply voltage is different, the voltage setting can be manually changed.

BE SURE THAT YOUR UNIT IS NOT CONNECTED TO THE POWER SOURCE BEFORE ATTEMPTING TO MAKE THIS CHANGE.

To change the voltage setting, remove the name plate on the rear panel and locate the VOLTAGE SELECTOR (see figure left). Pull up the voltage selector plug which has a white arrow on its top. Reinsert the plug to the selector base so that the head of the arrow lines up with the pointer line of the voltage you desire.



POWER AMPLIFIER SECTION:

Continuous Power Output:

70 watts* per channel, min. RMS both channels driven at 8 ohms from 20 to 20,000Hz with no more than 0.2% total harmonic distortion.

Total Harmonic Distortion	No more than 0.2%
(20 to 20,000Hz, from AUX)	(continuous rated power output)
	No more than 0.08%
	(1 watt per channel power output, 8 ohms)
Intermodulation Distortion	No more than 0.2%
50Hz: 7,000Hz=4:1	(continuous rated power output)
from AUX)	No more than 0.1%
	(1 watt per channel power output, 8 ohms)
Frequency Response	5Hz to 60,000Hz
	+0dB, -1dB
	(1 watt per channel power output, 8 ohms)
Input Sensitivity/Impedance.	0.775V/50 Kohms (MAIN AMP IN)
Damping Factor.	50 (20 to 20,000Hz, 8 ohms) ±10%

PREAMPLIFIER SECTION

Input Sensitivity/Impedance:

PHONO 1	2.5mV/50 Kohms
PHONO 2	2.5mV/50 Kohms
AUX	150mV/50 Kohms
TAPE IN 1	150mV/50 Kohms
TAPE IN 2	150mV/50 Kohms
TAPE IN 1 (DIN connector).	150mV/50 Kohms

Overload Level [Maximum Input Level] (T.H.D. 0.2%, 1kHz)

PHONO 1	200mV (2.5mV input)
PHONO 2	200mV (2.5mV input)
AUX	Not less than 5V

Output Level/Impedance (5mV PHONO input):

TAPE OUT 1	330mV/2.2 Kohms
TAPE OUT 2	330mV/2.2 Kohms
TAPE OUT 1,2	100mV/80 Kohms (DIN connectors)
PRE OUT	0.775V/2.2 Kohms

Total Harmonic Distortion.

	No more than 0.04%
	(20Hz to 20,000Hz, 0.775V output)

Frequency Response:

PHONO	30Hz to 15,000Hz ±0.3dB
	(RIAA Equalization)

Tone Control:

BASS	±10dB (100Hz)
TREBLE	±10dB (10kHz)

Filter:

LOW	40Hz (12dB/oct.)
HIGH	12kHz (12dB/oct.)

Loudness Contour

	+7dB (50Hz), +3dB (10kHz)
--	---------------------------

Hum & Noise (IHF, short circuited A network, rated power):

PHONO	75dB
AUX, TAPE IN	90dB
Audio Muting	-15dB

FM TUNER SECTION

Usable Sensitivity	10.4dBf (1.8µV/300 ohms)
Usable Sensitivity (IHF '58)	1.5µV
50dB Quieting Sensitivity:	15.2dBf (3.2µV/300 ohms)
Signal-to-Noise Ratio (at 65dBf):	
Mono	70dB
Stereo	65dB
Distortion (at 65dBf):	
100Hz	0.1% (mono), 0.3% (stereo)
1kHz	0.1% (mono), 0.3% (stereo)
6kHz	0.3% (mono), 0.5% (stereo)
Frequency Response	30Hz to 15,000Hz +0.3dB, -1dB
Capture Ratio	1.5dB
Alternate Channel Selectivity	75dB
Spurious Response Ratio	90dB
Image Response Ratio	85dB
IF Response Ratio	95dB
AM Suppression Ratio	60dB
Stereo Separation	43dB (1kHz),
	30dB (30Hz to 15kHz)

AM TUNER SECTION

Sensitivity	250µV/m (IHF, ferrite antenna),
	12.5µV/m (IHF, ext. antenna)

MISCELLANEOUS

Power Consumption.	520 watts (Max.)
Dimensions (Overall)	490(W) x 145(H) x 410(D)mm
Weight (Net)	14kg

NOTE. Specifications and design subject to possible modification without notice.
 *Measured pursuant to the Federal Trade Commission's Trade Regulation Rule on Power Claims for Amplifiers.
 (Applicable to the U.S.A. only)

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